

Mathematical Reviews

Annual Index — 1993

Subject Index 60–94

TABLE OF CONTENTS

Subject Index 60–94 1021–1842
1991 Subject Classification S1–S36

Index of Mathematical Papers Volume 25
American Mathematical Society
Providence, Rhode Island USA
ISSN 0025-5629

1991 Mathematics Subject Classification

00 General
01 History and biography
03 Mathematical logic and foundations
04 Set theory
05 Combinatorics
06 Order, lattices, ordered algebraic structures
08 General algebraic systems
11 Number theory
12 Field theory and polynomials
13 Commutative rings and algebras
14 Algebraic geometry
15 Linear and multilinear algebra; matrix theory
16 Associative rings and algebras
17 Nonassociative rings and algebras
18 Category theory, homological algebra
19 K-theory
20 Group theory and generalizations
22 Topological groups, Lie groups
26 Real functions
28 Measure and integration
30 Functions of a complex variable
31 Potential theory
32 Several complex variables and analytic spaces
33 Special functions
34 Ordinary differential equations
35 Partial differential equations
39 Finite differences and functional equations
40 Sequences, series, summability
41 Approximations and expansions
42 Fourier analysis
43 Abstract harmonic analysis
44 Integral transforms, operational calculus
45 Integral equations
46 Functional analysis
47 Operator theory
49 Calculus of variations and optimal control; optimization
51 Geometry
52 Convex and discrete geometry
53 Differential geometry
54 General topology
55 Algebraic topology
57 Manifolds and cell complexes
58 Global analysis, analysis on manifolds
60 Probability theory and stochastic processes
62 Statistics
65 Numerical analysis
68 Computer science
70 Mechanics of particles and systems
73 Mechanics of solids
76 Fluid mechanics
78 Optics, electromagnetic theory
80 Classical thermodynamics, heat transfer
81 Quantum theory
82 Statistical mechanics, structure of matter
83 Relativity and gravitational theory
85 Astronomy and astrophysics
86 Geophysics
90 Economics, operations research, programming, games
92 Biology and other natural sciences, behavioral sciences
93 Systems theory; control
94 Information and communication, circuits

© *Copyright* 1993 *by the American Mathematical Society. All rights reserved.*
Typeset in TEX. Printed by Cushing-Malloy, Inc., Ann Arbor, MI, USA.
ISSN 0025-5629 ISBN 0-8218-4036-3
The paper used in this journal is acid-free and falls within the guidelines established to ensure permanence and durability.
Printed on recycled paper.
10 9 8 7 6 5 4 3 2 1 98 97 96 95 94 93

60-XX Probability theory and stochastic processes {For additional applications, see 11Kxx, 62-XX, 90-XX, 92-XX, 93-XX, 94-XX. For numerical results, see 65U05.}

60-00 General reference works (handbooks, dictionaries, bibliographies, etc.)

(Heyman, D. P.) *see* **Stochastic models, 93a:60001**
(Sobel, Matthew J.) *see* **Stochastic models, 93a:60001**

Items listed otherwise than by author

Stochastic models ★ Stochastic models. **93a:60001**

Items with secondary classifications in 60-00

Index:
Adv. in Appl. Probab. Applied probability. Complete author and subject index: 1989-91. **93f:00002**
J. Appl. Probab. Applied probability. Complete author and subject index: 1989-91. **93f:00002**

60-01 Instructional exposition (textbooks, tutorial papers, etc.)

Bachelier, Louis ★ Calcul des probabilités. (French) [Probability theory] **93m:60001**
Bauer, Heinz ★ Wahrscheinlichkeitstheorie. (German) [Probability theory] **93a:60002**
Berger, Marc A. ★ An introduction to probability and stochastic processes. **93k:60001**
Bocharov, P. P. (*with* Pechinkin, A. V.) ★ Теория вероятностей. (Russian. Russian summary) [Probability theory]
Breiman, Leo ★ Probability. **93d:60001**
Gillespie, Daniel T. ★ Markov processes. **93i:60001**
Gnedenko, B. V. ★ Einführung in die Wahrscheinlichkeitstheorie. (German) [Introduction to probability theory] **93h:60001**
Grimmett, Geoffrey R. (*with* Stirzaker, D. R.) ★ Probability and random processes. **93m:60002**
Jacobs, Konrad ★ Discrete stochastics. **93e:60001**
(Laue, Gabriele) *see* **Gnedenko, B. V., 93h:60001**
Lyakhu, A. K. *see* **Poshtaru, A. I., 93j:60001**
Parzen, Emanuel ★ Modern probability theory and its applications. **93a:60003**
Pechinkin, A. V. *see* **Bocharov, P. P.**
Poincaré, Henri ★ Calcul des probabilités. (French) [Probability theory] **93m:60003**
Poshtaru, A. I. (*with* Lyakhu, A. K.) ★ Probabilitate, procese aleatoare şi aplicaţii. (Moldavian. Russian and Moldavian summaries) [Probability theory, random processes and applications] **93j:60001**
Resnick, Sidney I. ★ Adventures in stochastic processes. **93m:60004**
(Roßberg, Hans-Joachim) *see* **Gnedenko, B. V., 93h:60001**
Stirzaker, D. R. *see* **Grimmett, Geoffrey R., 93m:60002**
Todorovic, Petar ★ An introduction to stochastic processes and their applications. **93i:60002**
Tutubalin, V. N. ★ Теория вероятностей и случайных процессов. (Russian. Russian summary) [Theory of probability and random processes] **93k:60002**
Whittle, Peter ★ Probability via expectation. **93m:60005**
Williams, David ★ Probability with martingales. **93d:60002**

Items with secondary classifications in 60-01

Biswas, Suddhendu ★ Topics in statistical methodology. **93m:62001**
Dillmann, Roland ★ Statistik. I. (German) [Statistics. I] **93d:62003a**
— ★ Statistik. II. (German) [Statistics. II] **93d:62003b**
(Sehgal, Vijay Kumar) *see* **Biswas, Suddhendu, 93m:62001**
Spătaru, Aurel ★ Elemente de analiză pentru probabilişti. (Romanian) [Elements of analysis for probability theorists] **93b:28001**

60-02 Research exposition (monographs, survey articles)

Alon, Noga (*with* Spencer, Joel H.) ★ The probabilistic method. **93h:60002**
(Erdős, Paul) *see* **Alon, Noga, 93h:60002**
Kigami, Jun On Laplacians on self-similar sets—analysis on fractals. (Japanese) **93k:60003**
Ledoux, Michel (*with* Talagrand, Michel) ★ Probability in Banach spaces. **93c:60001**
Lévy, Paul ★ Processus stochastiques et mouvement brownien. (French) [Stochastic processes and Brownian motion] **93i:60003**
(Loève, M.) *see* **Lévy, Paul, 93i:60003**
Spencer, Joel H. *see* **Alon, Noga, 93h:60002**
Stein, Charles A way of using auxiliary randomization. (English summary) **93i:60004**
Talagrand, Michel *see* **Ledoux, Michel, 93c:60001**

Items with secondary classifications in 60-02

Williams, David Transition functions, paths and path integrals. **93c:60118**

60-03 Historical (must also be assigned at least one classification number from Section 01)

Dale, Andrew I. ★ A history of inverse probability. **93d:60003**
Diaconis, Persi (*with* Zabell, S. L.) Closed form summation for classical distributions: variations on a theme of de Moivre. **93b:60001**
(de Moivre, Abraham) *see* **Diaconis, Persi, 93b:60001**
Zabell, S. L. *see* **Diaconis, Persi, 93b:60001**

Items with secondary classifications in 60-03

(Arnol'd, V. I.) *see* **Kolmogorov, A. N., 93d:01096**
Bingham, N. H. The work of Alfréd Rényi: some aspects in probability and number theory. **93k:01063**
(Braithwaite, R. B.) *see* **Keynes, John Maynard, 93c:01050**
(Bunyakovskiĭ, V. Ya.) *see* **Sheĭnin, O. B., 93g:01041**
Ibragimov, I. A. Yu. V. Linnik. Some of his work from the 1950s. (Russian) **93c:01044**
Keynes, John Maynard ★ The collected writings of John Maynard Keynes. Vol. VIII. **93c:01050**
Kolmogorov, A. N. ★ Selected works of A. N. Kolmogorov. Vol. I. **93d:01096**
(Linnik, Yu. V.) *see* **Ibragimov, I. A., 93c:01044**
(Rényi, Alfréd) *see* **Bingham, N. H., 93k:01063**
Seneta, Eugene On the history of the strong law of large numbers and Boole's inequality. (French and German summaries) **93b:01032**
Sheĭnin, O. B. On V. Ya. Buniakovsky's work in the theory of probability. **93g:01041**
(Skvortsov, V. A.) *see* **Kolmogorov, A. N., 93d:01096**
(Tikhomirov, V. M.) *see* **Kolmogorov, A. N., 93d:01096**
(Ul'yanov, P. L.) *see* **Kolmogorov, A. N., 93d:01096**
(Volosov, V. M.) *see* **Kolmogorov, A. N., 93d:01096**

Items listed otherwise than by author

Bibliography:
Bunyakovskiĭ, V. Ya. *see* **Sheĭnin, O. B., 93g:01041**
Kolmogorov, A. N. *see* **Kolmogorov, A. N., 93d:01096**
Biography:
Kolmogorov, A. N. *see* **Kolmogorov, A. N., 93d:01096**
Linnik, Yu. V. *see* **Ibragimov, I. A., 93c:01044**

60-04 Explicit machine computation and programs (not the theory of computation or programming)

Abate, Joseph (*with* Whitt, Ward) The Fourier-series method for inverting transforms of probability distributions. **93b:60002**
Grassmann, Winfried K. Computational methods in probability theory. (*see* **93a:60001**)
Whitt, Ward *see* **Abate, Joseph, 93b:60002**

Items with secondary classifications in 60-04

Abate, Joseph (*with* Whitt, Ward) Numerical inversion of probability generating functions. (English summary) **93g:65173**
— (*with* Whitt, Ward) Solving probability transform functional equations for numerical inversion. (English summary) **93i:60163**
Botta, Robert F. *see* **Harris, Carl M.; et al., 93b:60214**
Harris, Carl M. (*with* Marchal, William G.; Botta, Robert F.) A note on generalized hyperexponential distributions. **93b:60214**
Marchal, William G. *see* **Harris, Carl M.; et al., 93b:60214**
Whitt, Ward *see* **Abate, Joseph, 93g:65173** *and* **93i:60163**

60-06 Proceedings, conferences, collections, etc.

(Azéma, J.) *see* **Seminar: Probability Theory, 93g:60002**
(Basawa, Ishwar V.) *see* **Proceedings: Symposium on Applied Probability, 93f:60003** *and* **Queueing and related models, 93i:60006**
(Bhat, U. Narayan) *see* **Queueing and related models, 93i:60006**
(Butković, D.) *see* **Functional analysis, 93m:60008**
(Butsan, G. P.) *see* **Analytic problems for stochastic systems, 93m:60006**
(Chen, Louis H. Y.) *see* **Probability theory, 93e:60005**
(Cheng, Ping[1]) *see* **Probability and statistics, 93b:60004**
(Choi, Kwok Pui) *see* **Probability theory, 93e:60005**
(Chung, Kai Lai) *see* **Seminar: Stochastic Processes, 93b:60005**
(Çinlar, Erhan) *see* **Seminar: Stochastic Processes, 93b:60005**
(Dall'Aglio, G.) *see* **Advances in probability distributions with given marginals, 93k:60004**
(Da Prato, Giuseppe) *see* **Stochastic partial differential equations and applications, 93m:60010**
(Fukushima, Masatoshi) *see* **Probability theory and mathematical statistics, 93k:60008**
(Galambos, Janos) *see* **Probability theory and applications, 93i:60005**
(Heyer, Herbert) *see* **Probability measures on groups, 93f:60001**
(Hoffmann-Jørgensen, J.) *see* **Functional analysis, 93m:60008**
(Hornung, U.) *see* **Random partial differential equations, 93e:60007**
(Hu, Kaiyuan) *see* **Probability theory, 93e:60005**
(Jiang, Ze Pei) *see* **Probability and statistics, 93b:60004**
(Kasprzak, W.) *see* **Stochastic methods in experimental sciences, 93a:60004**
(Kátai, Imre) *see* **Probability theory and applications, 93i:60005**
(Körezlioğlu, H.) *see* **Stochastic analysis and related topics, 93h:60004**
(Korolyuk, V. S.) *see* **Asymptotic methods in problems in the theory of random evolutions, 93e:60002**; **Probability theory and mathematical statistics, 93k:60008** *and* **Random evolutions: theoretical and applied problems, 93m:60009**
(Kotelenez, Peter) *see* **Random partial differential equations, 93e:60007**
(Kotz, Samuel) *see* **Advances in probability distributions with given marginals, 93k:60004**
(Kraljević, H.) *see* **Functional analysis, 93m:60008**
(Kurepa, S.) *see* **Functional analysis, 93m:60008**
(Lou, Jiann Hua) *see* **Probability theory, 93e:60005**
(Meyer, P.-A.) *see* **Seminar: Probability Theory, 93g:60002**
(Miamee, A. G.) *see* **Nonstationary stochastic processes and their applications, 93e:60004**
(Mogyoródi, József) *see* **Probability theory and applications, 93i:60005**
(Mosler, K.) *see* **Stochastic orders and decision under risk, 93g:60003**
(Papanicolaou, G. C.) *see* **Random partial differential equations, 93e:60007**
(Pinsky, Mark A.) *see* **Diffusion processes and related problems in analysis, 93e:60003**
(Prokhorov, Yu. V.) *see* **New trends in probability and statistics, 93g:60001**
(Rozovskiĭ, B. L.) *see* **Stochastic partial differential equations and their applications, 93b:60006**

(Salinetti, Gabriella) *see* **Advances in probability distributions with given marginals, 93k:60004**
(Sazonov, Vyacheslav Vasil'evich) *see* **New trends in probability and statistics, 93g:60001**
(Scarsini, Marco) *see* **Stochastic orders and decision under risk, 93g:60003**
(Sharpe, Michael J.) *see* **Seminar: Stochastic Processes, 93b:60005**
(Shervashidze, T.) *see* **New trends in probability and statistics, 93g:60001**
(Shiryaev, A. N.) *see* **Probability theory and mathematical statistics, 93k:60008**
(Skorokhod, A. V.) *see* **Stochastic equations and boundary theorems, 93e:60008**
(Sowers, Richard B.) *see* **Stochastic partial differential equations and their applications, 93b:60006**
(Taylor, Robert Lee) *see* **Proceedings: Symposium on Applied Probability, 93f:60003**
(Tsar'kov, E. F.) *see* **Proceedings: Probability Seminar, 93e:60006**
(Tubaro, L.) *see* **Stochastic partial differential equations and applications, 93m:60010**
(Üstünel, Ali Süleyman) *see* **Stochastic analysis and related topics, 93h:60004**
(Venugopal, N.) *see* **Contributions to stochastics, 93m:60007**
(Watanabe, Shinzo) *see* **Probability theory and mathematical statistics, 93k:60008**
(Weron, Aleksander) *see* **Stochastic methods in experimental sciences, 93a:60004**
(Wihstutz, Volker) *see* **Diffusion processes and related problems in analysis, 93e:60003**
(Wu, Rong[1]) *see* **Probability and statistics, 93b:60004**
(Yan, Shi Jian) *see* **Probability and statistics, 93b:60004**
(Yor, Marc) *see* **Seminar: Probability Theory, 93g:60002**
(Zhulenev, S. V.) *see* **Probabilistic processes and their applications, 93b:60003**
(Zolotarev, V. M.) *see* **Seminar: Problems of the Stability of Stochastic Systems**

Items listed otherwise than by author

Advances in probability distributions with given marginals ★ Advances in probability distributions with given marginals. **93k:60004**
Analytic problems for stochastic systems ★ Аналитические вопросы стохастических систем. (Russian) [Analytic problems for stochastic systems] **93m:60006**
Asymptotic methods in problems in the theory of random evolutions ★ Асимптотические методы в задачах теории случайных эволюций. (Russian) [Asymptotic methods in problems in the theory of random evolutions] **93e:60002**
Bakuriani ★ New trends in probability and statistics. Vol. 1. **93g:60001**
Charlotte, NC ★ Stochastic partial differential equations and their applications. **93b:60006**
— ★ Diffusion processes and related problems in analysis. Vol. II. **93e:60003**
Colloquium:
Probability Theory and Mathematical Statistics ★ New trends in probability and statistics. Vol. 1. **93g:60001**
Conference:
Functional Analysis ★ Functional analysis. III. **93m:60008**
Probability ★ Probability theory. **93e:60005**
Probability Measures on Groups ★ Probability measures on groups. X. **93f:60001**
Random Mappings, Partitions, and Permutations International Conference on Random Mappings, Partitions, and Permutations. **93h:60003**
Random Partial Differential Equations ★ Random partial differential equations. **93e:60007**
Stochastic Flows ★ Diffusion processes and related problems in analysis. Vol. II. **93e:60003**
Stochastic Methods in Experimental Sciences ★ Stochastic methods in experimental sciences. **93a:60004**
Stochastic Partial Differential Equations and Applications ★ Stochastic partial differential equations and applications. **93m:60010**
Congress:
Bernoulli Society ★ Второй Всемирный Конгресс Общества Бернулли. Часть III. (Russian) [Second World Congress of the Bernoulli Society. Part III] **93k:60006**
— Второй Всемирный Конгресс Общества Бернулли. Часть I, II. (Russian) **93k:60005**
Contributions to stochastics ★ Contributions to stochastics. **93m:60007**
Diffusion processes and related problems in analysis ★ Diffusion processes and related problems in analysis. Vol. II. **93e:60003**
Dubrovnik ★ Functional analysis. III. **93m:60008**
Fascicule de probabilités ★ Fascicule de probabilités. (French) [Issue on probability theory] **93k:60007**
Functional analysis ★ Functional analysis. III. **93m:60008**
Hamburg ★ Stochastic orders and decision under risk. **93g:60003**
Hampton, VA ★ Nonstationary stochastic processes and their applications. **93e:60004**
IFIP Conference:
Stochastic Partial Differential Equations and their Applications ★ Stochastic partial differential equations and their applications. **93b:60006**
Issue on probability theory ★ Fascicule de probabilités. (French) [Issue on probability theory] **93k:60007**
Kiev ★ Probability theory and mathematical statistics. **93k:60008**
Lecture Notes in Control and Information Sciences ★ Stochastic partial differential equations and their applications. **93b:60006**
Lecture Notes in Mathematics ★ Séminaire de Probabilités. XXV. (French) [Seminar on Probability Theory. XXV] **93g:60002**
Los Angeles, CA ★ Seminar on Stochastic Processes, 1991. **93b:60005**
— International Conference on Random Mappings, Partitions, and Permutations. **93h:60003**
Meeting:
Institute of Mathematical Statistics ★ Второй Всемирный Конгресс Обществa Бернулли. Часть III. (Russian) [Second World Congress of the Bernoulli Society. Part III] **93k:60006**
— Второй Всемирный Конгресс Общества Бернулли. Часть I, II. (Russian) **93k:60005**
Stochastic Analysis and Related Topics ★ Stochastic analysis and related topics. **93h:60004**
New trends in probability and statistics ★ New trends in probability and statistics. Vol. 1. **93g:60001**
Nonstationary stochastic processes and their applications ★ Nonstationary stochastic processes and their applications. **93e:60004**
Oberwolfach ★ Random partial differential equations. **93e:60007**
— ★ Probability measures on groups. X. **93f:60001**
Perm' XVI Seminar on Problems of the Stability of Stochastic Systems. (Russian)
Probabilistic processes and their applications ★ Вероятностные процессы и их приложения. (Russian) [Probabilistic processes and their applications] **93b:60003**
Probability and statistics ★ Probability and statistics. **93b:60004**
Probability measures on groups ★ Probability measures on groups. X. **93f:60001**
Probability theory ★ Probability theory. **93e:60005**
Probability theory and applications ★ Probability theory and applications. **93i:60005**
Probability theory and mathematical statistics ★ Probability theory and mathematical statistics. **93k:60008**
Probability theory. Mathematical statistics. Theoretical cybernetics ★ Probability theory. Mathematical statistics. Theoretical cybernetics. Vol. 27. **93f:60002**
Proceedings:
Probability Seminar ★ Proceedings of the Latvian Probability Seminar. Vol. 1. **93e:60006**
Symposium on Applied Probability ★ Selected Proceedings of the Sheffield Symposium on Applied Probability. **93f:60003**
Queueing and related models ★ Queueing and related models. **93i:60006**
Random evolutions: theoretical and applied problems ★ Случайные эволюции: теоретические и прикладные задачи. (Russian) [Random evolutions: theoretical and applied problems] **93m:60009**
Random partial differential equations ★ Random partial differential equations. **93e:60007**
Riga ★ Proceedings of the Latvian Probability Seminar. Vol. 1. **93e:60006**
Rome ★ Advances in probability distributions with given marginals. **93k:60004**
Seminar:
Probability ★ Proceedings of the Latvian Probability Seminar. Vol. 1. **93e:60006**
Probability Theory ★ Séminaire de Probabilités. XXV. (French) [Seminar on Probability Theory. XXV] **93g:60002**
Problems of the Stability of Stochastic Systems XVI Seminar on Problems of the Stability of Stochastic Systems. (Russian)
Stochastic Processes ★ Seminar on Stochastic Processes, 1991. **93b:60005**
Sheffield ★ Selected Proceedings of the Sheffield Symposium on Applied Probability. **93f:60003**
Silivri ★ Stochastic analysis and related topics. **93h:60004**
Singapore ★ Probability theory. **93e:60005**
Special Year:
Probability and Statistics ★ Probability and statistics. **93b:60004**
Stochastic analysis and related topics ★ Stochastic analysis and related topics. **93h:60004**
Stochastic equations and boundary theorems ★ Стохастические уравнения и граничные теоремы. (Russian) [Stochastic equations and boundary theorems] **93e:60008**
Stochastic methods in experimental sciences ★ Stochastic methods in experimental sciences. **93a:60004**
Stochastic orders and decision under risk ★ Stochastic orders and decision under risk. **93g:60003**
Stochastic partial differential equations and applications ★ Stochastic partial differential equations and applications. **93m:60010**
Stochastic partial differential equations and their applications ★ Stochastic partial differential equations and their applications. **93b:60006**
Symposium:
Applied Probability ★ Selected Proceedings of the Sheffield Symposium on Applied Probability. **93f:60003**
Distributions with Given Marginals ★ Advances in probability distributions with given marginals. **93k:60004**
Probability Theory and Mathematical Statistics ★ Probability theory and mathematical statistics. **93k:60008**
Various Problems Related to Martingales ★ Martingale ni kanren suru shomondai. (Japanese) [Various problems related to martingales] **93m:60011**
Szklarska Poręba ★ Stochastic methods in experimental sciences. **93a:60004**
Tianjin ★ Probability and statistics. **93b:60004**
Trento ★ Stochastic partial differential equations and applications. **93m:60010**
Uppsala ★ Второй Всемирный Конгресс Общества Бернулли. Часть III. (Russian) [Second World Congress of the Bernoulli Society. Part III] **93k:60006**
— Второй Всемирный Конгресс Общества Бернулли. Часть I, II. (Russian) **93k:60005**
Various problems related to martingales ★ Martingale ni kanren suru shomondai. (Japanese) [Various problems related to martingales] **93m:60011**
Workshop:
Nonstationary Stochastic Processes and their Applications ★ Nonstationary stochastic processes and their applications. **93e:60004**
Stochastic Orders and Decision Under Risk ★ Stochastic orders and decision under risk. **93g:60003**

Items with secondary classifications in 60–06

(Accardi, Luigi) *see* **Quantum probability & related topics, 93e:81006**
(Albeverio, Sergio) *see* **Ideas and methods in mathematical analysis, stochastics, and applications, 93e:00033**
(Arnold, Ludwig) *see* **Lyapunov exponents, 93d:00037**
(Azencott, Robert) *see* **Simulated annealing, 93e:65003**
(Crauel, Hans) *see* **Lyapunov exponents, 93d:00037**
(Davies, Ian M.) *see* **Stochastics and quantum mechanics, 93c:81005**
(Dodge, Yadolah) *see* **L_1-statistical analysis and related methods, 93k:62005**
(Eckmann, J.-P.) *see* **Lyapunov exponents, 93d:00037**
(Fenstad, Jens Erik) *see* **Ideas and methods in mathematical analysis, stochastics, and applications, 93e:00033**
(Hoegh-Krohn, Raphael) *see* **Ideas and methods in mathematical analysis, stochastics, and applications, 93e:00033**
(Holden, Helge) *see* **Ideas and methods in mathematical analysis, stochastics, and applications, 93e:00033**
(den Hollander, Frank) *see* **Seminar: Probability and Physics, 93f:00019**
(Lindstrøm, Tom) *see* **Ideas and methods in mathematical analysis, stochastics, and applications, 93e:00033**

(Maassen, H.) *see* **Seminar: Probability and Physics, 93f:00019**
(Picardello, Massimo A.) *see* **Harmonic analysis and discrete potential theory, 93m:43001**
(Truman, Aubrey) *see* **Stochastics and quantum mechanics, 93c:81005**
(Zabczyk, Jerzy) *see* **Stochastic systems and optimization, 93d:93009**

Items listed otherwise than by author

Amsterdam ★ Mark Kac Seminar on Probability and Physics. Syllabus 1987–1992. **93f:00019**
Conference:
Lyapunov Exponents ★ Lyapunov exponents. **93d:00037**
Statistical Data Analysis Based on the L_1-Norm and Related Methods ★ L_1-statistical analysis and related methods. **93k:62005**
Frascati ★ Harmonic analysis and discrete potential theory. **93m:43001**
Harmonic analysis and discrete potential theory ★ Harmonic analysis and discrete potential theory. **93m:43001**
Ideas and methods in mathematical analysis, stochastics, and applications ★ Ideas and methods in mathematical analysis, stochastics, and applications. **93e:00033**
IFIP Conference:
Stochastic Systems and Optimization ★ Stochastic systems and optimization. **93d:93009**
Kochi ★ Proceedings of the Symposium on Distribution Theory. **93h:62004**
L_1-statistical analysis and related methods ★ L_1-statistical analysis and related methods. **93k:62005**
Lecture Notes in Control and Information Sciences ★ Stochastic systems and optimization. **93d:93009**
Lecture Notes in Mathematics ★ Lyapunov exponents. **93d:00037**
Lyapunov exponents ★ Lyapunov exponents. **93d:00037**
Meeting:
Harmonic Analysis and Discrete Potential Theory ★ Harmonic analysis and discrete potential theory. **93m:43001**
Stochastics and Quantum Mechanics ★ Stochastics and quantum mechanics. **93c:81005**
Neuchâtel ★ L_1-statistical analysis and related methods. **93k:62005**
Oberwolfach ★ Lyapunov exponents. **93d:00037**
Oslo ★ Ideas and methods in mathematical analysis, stochastics, and applications. **93e:00033**
Proceedings:
Symposium on Distribution Theory ★ Proceedings of the Symposium on Distribution Theory. **93h:62004**
Quantum probability & related topics ★ Quantum probability & related topics. **93e:81006**
Research into the structure of statistical models ★ Tōkeiteki moderu no kōzō no kenkyū. (Japanese) [Research into the structure of statistical models] **93g:62003**
Seminar:
Probability and Physics ★ Mark Kac Seminar on Probability and Physics. Syllabus 1987–1992. **93f:00019**
Simulated annealing ★ Simulated annealing. **93e:65003**
Stochastic systems and optimization ★ Stochastic systems and optimization. **93d:93009**
Stochastics and quantum mechanics ★ Stochastics and quantum mechanics. **93c:81005**
Swansea ★ Stochastics and quantum mechanics. **93c:81005**
Symposium:
Distribution Theory ★ Proceedings of the Symposium on Distribution Theory. **93h:62004**
Ideas and Methods in Mathematics and Physics ★ Ideas and methods in mathematical analysis, stochastics, and applications. **93e:00033**
Research into the Structure of Statistical Models ★ Tōkeiteki moderu no kōzō no kenkyū. (Japanese) [Research into the structure of statistical models] **93g:62003**
Warsaw ★ Stochastic systems and optimization. **93d:93009**

60Axx Foundations of probability theory

60A05 Axioms; other general questions

Ambroszkiewicz, Stanisław Kollektivs and finite random sequences. (English summary) **93m:60012**
Earman, John ★ Bayes or bust? **93f:60004**
Gilboa, Itzhak (*with* Schmeidler, David) Updating ambiguous beliefs. (English summary) **93k:60009**
Kreinovich, V. Ya. (*with* Quintana, Chris) How does new evidence change our estimates of probabilities? Carnap's formula revisited. **93c:60002**
Quintana, Chris *see* **Kreinovich, V. Ya., 93c:60002**
Schmeidler, David *see* **Gilboa, Itzhak, 93k:60009**
Shafer, Glenn R. *see* **Shenoy, Prakash P., 93b:60007**
Shenoy, Prakash P. (*with* Shafer, Glenn R.) Axioms for probability and belief-function propagation. **93b:60007**
Wakker, Peter Clarification of some mathematical misunderstandings about Savage's foundations of statistics, 1954. (English summary) **93m:60013**

Items with secondary classifications in 60A05

Accardi, Luigi Quantum probability and the foundations of quantum theory. **93a:81005**
(Braithwaite, R. B.) *see* **Keynes, John Maynard, 93c:01050**
Brunk, H. D. Fully coherent inference. **93a:62005**
Budbaeva, S. P. *see* **Pyatnitsyn, B. N., (93m:03039)**
Chuaqui, Rolando ★ Truth, possibility and probability. **93h:03021**
Cooke, Roger Marvin ★ Experts in uncertainty. **93a:62001**
Eells, Ellery ★ Probabilistic causality. **93e:00005**
Gillies, Donald A. Intersubjective probability and confirmation theory. **93a:03020**
Jeffrey, Richard ★ Probability and the art of judgment. **93e:00006**
Karni, Edi A definition of subjective probabilities with state-dependent preferences. (English summary) **93k:90012**
Keynes, John Maynard ★ The collected writings of John Maynard Keynes. Vol. VIII. **93c:01050**
Miller, David William Single-case probabilities. **93a:81015**
Pollock, John L. The theory of nomic probability. **93c:03028**
Popper, Karl R. ★ The logic of scientific discovery. **93g:01102**
Pyatnitsyn, B. N. (*with* Budbaeva, S. P.) Once again on probability. (Russian) (*see* **93m:03039**)
Shen, Shi Yi *see* **Yang, En Hui, 93e:68040** *and* **93f:68048**
Verbraak, H. L. F. ★ The logic of objective Bayesianism. **93g:62010**
Walley, Peter ★ Statistical reasoning with imprecise probabilities. **93d:62008**
Yang, En Hui (*with* Shen, Shi Yi) Chaitin complexity, Shannon information content of a single event and infinite random sequences. I. **93e:68040**
— (*with* Shen, Shi Yi) Chaitin complexity, Shannon information content of a single event, and infinite random sequences. II. **93f:68048**

60A10 Probabilistic measure theory {For ergodic theory, see 28Dxx and 60Fxx.}

Abdous, Belkacem *see* **Rémillard, Bruno; et al., 93i:60008**
Anastassiou, George A. Weak convergence and the Prokhorov radius. **93b:60008**
Bassily, N. L. (*with* Ishak, S.; Mogyoródi, József) On stable and mixing sequences of σ-fields. **93b:60009**
Cohen, Michael A. Necessary and sufficient conditions for existence and uniqueness of weak qualitative probability structures. **93d:60004**
Hall, Eric B. (*with* Wise, Gary L.) A result on multidimensional quantization. **93m:60014**
Ishak, S. *see* **Bassily, N. L.; et al., 93b:60009**
Kaijser, Sten Continuous functions of probability measures. **93i:60007**
Maturo, Antonio On some nonstandard finitely additive probability measures. **93k:60010**
Mogyoródi, József *see* **Bassily, N. L.; et al., 93b:60009**
Reischer, Corina *see* **Rémillard, Bruno; et al., 93i:60008**
Rémillard, Bruno (*with* Reischer, Corina; Abdous, Belkacem) A note on entropy. (English summary) **93i:60008**
Stinchcombe, Maxwell B. A further note on Bayesian information topologies. (English summary) **93k:60011**
Wise, Gary L. *see* **Hall, Eric B., 93m:60014**
Yan, Jia An Constructing kernels via stochastic measures. **93m:60015**

Items with secondary classifications in 60A10

Gurevich, B. M. On the joint distribution of random variables with given mutual conditional distributions (the discrete case). (Russian) **93e:60030**
Laskowski, Michael Chris Vapnik-Chervonenkis classes of definable sets. **93d:03039**
Luschgy, Harald Choquet type representation of transition kernels and applications. **93b:28017**
Plachky, D. On semiregular conditional distributions. (English summary) **93h:28006**
Propp, James Gary Coding Markov chains from the past. **93h:28026**
Shor, A. A. Probability characterization of some functional properties of sequence of random variables. (Russian) (*see* **93j:00003**)
Wakker, Peter Clarification of some mathematical misunderstandings about Savage's foundations of statistics, 1954. (English summary) **93m:60013**

60A99 None of the above, but in this section

Dubois, Didier (*with* Prade, Henri) When upper probabilities are possibility measures. (English summary)
Heilpern, Stanisław Fuzzy subsets of the space of probability measures and expected value of fuzzy variable. (English summary)
Khrennikov, A. Yu. Theory of probability and theory of numbers.
— Axiomatics of p-adic probability theory. (Russian)
Lim, Sook (*with* Um, Jung Koog) The concept of fuzzy probability. (English summary)
Nguyen, Hung T. On combining uncertainty measures. (*see* **93c:90002**)
Prade, Henri *see* **Dubois, Didier**
Stojaković, Mila Fuzzy conditional expectation. (English summary)
Um, Jung Koog *see* **Lim, Sook**

Items with secondary classifications in 60A99

Antipov, M. V. ★ О математической случайности. (Russian. English and Russian summaries) [Mathematical randomness] **93e:00003**
— ★ Границы случайности. (Russian. English and Russian summaries) [Limits of randomness] **93e:00004**
Baryshnikov, Yu. M. (*with* Eisenberg, Bennett) Independent events and independent experiments. **93g:60015**
Bożejko, Marek A q-deformed probability, Nelson's inequality and central limit theorems. **93a:81098**
Buckley, James J. A general theory of uncertainty based on t-conorms. (English summary) **93g:04002**
Costantini, Domenico (*with* Garibaldi, Ubaldo) A probabilistic formulation of Pauli's exclusion principle in the context of predictive inference. (Italian. English and Italian summaries) **93f:81008**
Daili, Noureddine ★ Contributions à l'étude des densités. (French. French summary) [Contributions to the study of densities] **93h:11013**
Darwiche, Adnan Y. (*with* Ginsberg, Matthew L.) A symbolic generalization of probability theory. (English summary) **93j:68200**
Eisenberg, Bennett *see* **Baryshnikov, Yu. M., 93g:60015**
Esogbue, Augustine O. *see* **Suh, Doug Y.**
Fagin, Ronald *see* **Halpern, Joseph Y., 93h:68132**
Garibaldi, Ubaldo *see* **Costantini, Domenico, 93f:81008**
Ginsberg, Matthew L. *see* **Darwiche, Adnan Y., 93j:68200**
Goodman, Irwin R. (*with* Nguyen, Hung T.; Walker, Elbert A.) ★ Conditional inference and logic for intelligent systems. **93j:03015**
Halpern, Joseph Y. (*with* Fagin, Ronald) Two views of belief: belief as generalized probability and belief as evidence. **93h:68132**
Kyburg, Henry E., Jr. Getting fancy with probability. **93a:03021**

Mabuchi, Shigeaki An interpretation of membership functions and the properties of general probabilistic operators as fuzzy set operators. I. Case of type 1 fuzzy sets. (English summary) **93f:04005**
Mesiar, Radko Characterisation of possibility measures of fuzzy events using Markov kernels. **93d:28035**
Nguyen, Hung T. *see* **Goodman, Irwin R.; et al., 93j:03015**
Piasecki, K. Fuzzy P-measures and their application in decision making. (*see* **93c:90002**)
Shafer, Glenn R. (*with* Shenoy, Prakash P.) Probability propagation. (English summary) **93k:68095**
Shenoy, Prakash P. *see* **Shafer, Glenn R., 93k:68095**
Stein, William E. (*with* Zwick, Rami) Fuzzy random variables. (*see* **93c:90002**)
Suh, Doug Y. (*with* Esogbue, Augustine O.) Transformation of mass function and joint mass function for evidence theory in the continuous domain. (English summary)
Šůstal, J. On the combination of vague evidence of the probabilistic origin. (*see* **93c:90002**)
Toth, Herbert Probabilities and fuzzy events: an operational approach. **93d:04003**
Türksen, I. B. Stochastic fuzzy sets: a survey. (*see* **93c:90002**)
Walker, Elbert A. *see* **Goodman, Irwin R.; et al., 93j:03015**
Yager, Ronald R. On the specificity of a possibility distribution. (English summary)
Zwick, Rami *see* **Stein, William E., (93c:90002)**

60Bxx Probability theory on algebraic and topological structures

Items with secondary classifications in 60Bxx

Ledoux, Michel (*with* Talagrand, Michel) ★ Probability in Banach spaces. **93c:60001**
Talagrand, Michel *see* **Ledoux, Michel, 93c:60001**

60B05 Probability measures on topological spaces

Beneš, Viktor Extremal and optimal solutions in the transshipment problem. **93g:60004**
Davidsen, Michael (*with* Jacobsen, Martin) Weak convergence of two-sided stochastic integrals, with an application to models for left truncated survival data. **93b:60010**
Jacobsen, Martin *see* **Davidsen, Michael, 93b:60010**
Rachev, Svetlozar T. (*with* Taksar, Michael I.) Kantorovich's functionals in space of measures. **93f:60005**
Raugi, Albert Théorie spectrale d'un opérateur de transition sur un espace métrique compact. (English summary) [Spectral theory of a transition operator on a compact metric space] **93i:60009**
Resnick, Sidney I. (*with* Roy, Rishin) Random usc functions, max-stable processes and continuous choice. **93e:60009**
Roy, Rishin *see* **Resnick, Sidney I., 93e:60009**
Taksar, Michael I. *see* **Rachev, Svetlozar T., 93f:60005**

Items with secondary classifications in 60B05

Abdous, Belkacem *see* **Rémillard, Bruno; et al., 93i:60008**
Bastero, Jesús (*with* Bernués, Julio) Applications of deviation inequalities on finite metric sets. **93a:46017**
Bernués, Julio *see* **Bastero, Jesús, 93a:46017**
Dinwoodie, I. H. Mesures dominantes et théorème de Sanov. (English and French summaries) [Dominant measures and Sanov's theorem] **93h:60038**
Downarowicz, Tomasz (*with* Mauldin, R. Daniel; Warnock, Tony T.) Random circle homeomorphisms. (English summary) **93m:54067**
Girotto, Bruno (*with* Holzer, Silvano) Regular and purely irregular bounded charges: a decomposition theorem. **93a:28011**
Herer, Wojciech Mathematical expectation and martingales of random subsets of a metric space. **93d:60016**
Holzer, Silvano *see* **Girotto, Bruno, 93a:28011**
Linde, Werner Gaussian measures of large balls in $\mathbb{R}^n$. **93c:60018**
Linhartová, Petra Extremal solutions of a general marginal problem. **93b:28015**
Mauldin, R. Daniel *see* **Downarowicz, Tomasz; et al., 93m:54067**
Prakasa Rao, B. L. S. ★ Identifiability in stochastic models. **93j:62034**
Rachev, Svetlozar T. (*with* Rüschendorf, L.) Recent results in the theory of probability metrics. **93c:60015**
Rębowski, R. A note on integral representatation of Feller kernels. **93a:60117**
Reischer, Corina *see* **Rémillard, Bruno; et al., 93i:60008**
Rémillard, Bruno (*with* Reischer, Corina; Abdous, Belkacem) A note on entropy. (English summary) **93i:60008**
Rüschendorf, L. *see* **Rachev, Svetlozar T., 93c:60015**
Talagrand, Michel A new isoperimetric inequality and the concentration of measure phenomenon. **93d:60095**
Warnock, Tony T. *see* **Downarowicz, Tomasz; et al., 93m:54067**
Zolotarev, V. M. On analogs of the Hellinger metric. **93h:60020**

60B10 Convergence of probability measures

Anastassiou, George A. Weak convergence and the Prokhorov radius for probability measures. (*see* **93a:41001**)
Bickel, Peter J. (*with* Millar, P. W.) Uniform convergence of probability measures on classes of functions. **93g:60005**
Bingham, Michael S. Convergence of approximate martingale arrays to mixtures of infinitely divisible distributions in locally compact abelian groups. (English summary) **93m:60016**
Buldygin, V. V. Semi-invariant conditions of weak convergence of random processes in the space of continuous functions. (English summary) **93m:60017**
Çapar, Ulug Empirical characteristic functional analysis and inference in sequence spaces. (English summary) **93f:60006**
Chernyavskii, I. Ya. *see* **Izrailevich, V. L., (93b:00016)**
Daffer, Peter Z. Convergence and weighted sums of random functions in $D[0, 1]$. **93b:60011**
Davydov, Yu. A. Convergence in variation of images of one-dimensional measures. (Russian. Russian summary) **93k:60012**
Fu, Yuan Lăe Stable weak convergence of random elements. (Chinese. English summary)
Gallardo, Léonard Le théorème de continuité de Paul Lévy dans un espace produit. (English summary) [Paul Lévy's continuity theorem on a product space] **93m:60018**
Izrailevich, V. L. (*with* Chernyavskii, I. Ya.) A metric approach to Khinchin convergence. (Russian) (*see* **93b:00016**)
Millar, P. W. *see* **Bickel, Peter J., 93g:60005**
Mora, Marianne La convergence des fonctions variance des familles exponentielles naturelles. (English and French summaries) [Convergence of the variance functions of natural exponential families] **93g:60006**
Rachev, Svetlozar T. ★ Probability metrics and the stability of stochastic models. **93b:60012**
— (*with* Rüschendorf, L.; Schief, A.) Uniformities for the convergence in law and in probability. **93a:60005**
Rüschendorf, L. *see* **Rachev, Svetlozar T.; et al., 93a:60005**
Schief, A. *see* **Rachev, Svetlozar T.; et al., 93a:60005**
Szczotka, Władysław A note on Skorokhod representation. (English summary) **93i:60010**
— Weak convergence under mapping. (English summary) **93m:60019**

Items with secondary classifications in 60B10

Amine, Saïda Loi des grands nombres et théorème de la limite centrale pour les distributions sur l'espace de Wiener. (English and French summaries) [Law of large numbers and central limit theorem for distributions on Wiener space] **93m:60110**
Anastassiou, George A. Weak convergence and the Prokhorov radius. **93b:60008**
Chen, Dong Ching A uniform central limit theorem for nonuniform φ-mixing random fields. **93a:60050**
Cohen, Michael A. Necessary and sufficient conditions for existence and uniqueness of weak qualitative probability structures. **93d:60004**
Hanlon, Philip J. A Markov chain on the symmetric group and Jack symmetric functions. **93j:60093**
Hoover, D. N. Convergence in distribution and Skorokhod convergence for the general theory of processes. **93c:60050**
Joyce, Paul (*with* Tavaré, Simon) A convergence theorem for symmetric functionals of random partitions. **93g:60018**
Kurtz, Thomas G. (*with* Protter, Philip) Characterizing the weak convergence of stochastic integrals. **93e:60104**
— Averaging for martingale problems and stochastic approximation. **93h:60070**
Major, Péter Poisson law for the number of lattice points in a random strip with finite area. **93g:60021**
Michta, M. Multivariate tail equivalence of distributions in extreme value theory. **93c:60025**
Mirzakhmedov, M. A. (*with* Tursunov, T. G.) On the rate of convergence of an empirical process constructed from a sample of random size. (Russian) **93d:60057**
Mukherjea, Arunava Convergence in distribution of a Markov process generated by i.i.d. random matrices. **93k:60164**
Protter, Philip *see* **Kurtz, Thomas G., 93e:60104**
Rachev, Svetlozar T. (*with* Taksar, Michael I.) Kantorovich's functionals in space of measures. **93f:60005**
Sribnaya, T. A. On a form of convergence for a sequence of measures. (Russian) (*see* **93k:47001**)
Szyszkowski, Ireneusz Semimartingales and stochastic integrals. (English summary) **93g:60093**
Taksar, Michael I. *see* **Rachev, Svetlozar T., 93f:60005**
Tavaré, Simon *see* **Joyce, Paul, 93g:60018**
Tudor, Constantin Periodic and almost periodic flows of periodic Itô equations. (English summary) **93j:60087**
Tursunov, T. G. *see* **Mirzakhmedov, M. A., 93d:60057**
Vitale, Richard A. On stochastic dependence and a class of degenerate distributions. (English summary) **93i:60030**

60B11 Probability theory on linear topological spaces [see also 28C20]

Bouleau, Nicolas Suite de points d'un espace de Hilbert distribuée selon la promesure gaussienne canonique. (English and French summaries) [Sequence of points in a Hilbert space distributed according to the canonical cylindrical Gaussian measure] **93h:60005**
Byczkowski, Tomasz On the density of log concave seminorms on vector spaces. **93b:60013**
Caponetti, Diana On an inequality of Edgar. **93a:60006**
Chuprunov, A. N. Spaces of sequences in a Banach space that are connected with a sequence of independent random variables. (Russian) **93e:60010**
De Santis, Alberto (*with* Gandolfi, Alberto; Germani, Alfredo; Tardelli, Paola) A representation theorem for Radon-Nikodým derivatives in the white-noise theory. (English summary) **93h:60006**
Elton, J. H. (*with* Hill, Theodore P.) Fusions of a probability distribution. **93a:60007**
Fernique, Xavier Sur les espaces de Fréchet ne contenant pas c_0. [On Fréchet spaces that do not contain c_0] **93d:60005**
Gandolfi, Alberto *see* **De Santis, Alberto; et al., 93h:60006**
Germani, Alfredo *see* **De Santis, Alberto; et al., 93h:60006**
Gnedin, A. V. On mean-square epsilon dimension. (English summary) **93i:60011**
Hill, Theodore P. *see* **Elton, J. H., 93a:60007**
Jurek, Zbigniew J. Operator exponents of probability measures and Lie semigroups. **93e:60011**
Koldobskii, A. L. The Fourier transform and convolution in the space l_1. (Russian. Russian summary) **93j:60002**
Kuelbs, James (*with* Li, Wenbo V.) Metric entropy and the small ball problem for Gaussian measures. (English and French summaries) **93g:60007**
León, Carlos Antonio (*with* Massé, Jean-Claude) A counterexample on the existence of the L_1-median. **93b:60014**
Li, Wenbo V. *see* **Kuelbs, James, 93g:60007**
Li, Ze Zhi A 0-1 law for convex measures. (Chinese. English summary)

Li, Zhu Xiang *see* **Yang, Xiao Yun, 93d:60008**
Lifshits, M. A. On the norm distribution of Gaussian and other stable vectors. **93f:60007**
Linde, Werner Gaussian measure of large balls in l_p. **93e:60012**
Luu, D. Q. Convergence and lattice properties of a class of martingale-like sequences. **93j:60003**
Lyons, T. J. (*with* Röckner, Michael) A note on tightness of capacities associated with Dirichlet forms. **93a:60008**
Massé, Jean-Claude *see* **León, Carlos Antonio, 93b:60014**
Nagaev, S. V. On a new approach to the study of the distribution of a norm of a random element in Hilbert space. **93d:60006**
Ostrovskiĭ, E. I. Two-sided exponential inequalities for the distribution of the norm of Banach space valued random variables. (English summary) **93h:60007**
Röckner, Michael *see* **Lyons, T. J., 93a:60008**
Siebert, Eberhard Strongly operator-decomposable probability measures on separable Banach spaces. **93b:60015**
— Operator-decomposability of Gaussian measures on separable Banach spaces. **93d:60007**
Siegel, G. Exponents of operator stable distributions in Banach spaces. **93e:60013**
Talagrand, Michel Some isoperimetric inequalities and their applications. **93g:60008**
Tardelli, Paola *see* **De Santis, Alberto; et al., 93h:60006**
Tarieladze, V. I. On stable measures in spaces of random variables. (Russian) **93a:60009**
Ul'yanov, Vladimir Vasil'evich Nonuniform estimates of the density of the squared norm of a Gaussian vector in Hilbert space. (English summary) **93i:60012**
Voloshina, I. A. An extremal formula in estimating an integral with respect to a Gaussian measure. (Russian. Russian summary) **93k:60013**
Yang, Xiao Yun (*with* Li, Zhu Xiang) A discussion on the moments of the number of times $\|S_n\|$ exceeds $\varepsilon(n \lg n)^{1/2}$, of the supremum of the excess, and of the last such time. (Chinese) **93d:60008**
Zerakidze, Z. S. Banach space of measures. **93b:60016**

Items with secondary classifications in 60B11

(Bogdanskiĭ, Yu. V.) *see* **Daletskiĭ, Yu. L., 93c:46071**
Braverman, M. Sh. The Rosenthal inequality in symmetric spaces. (Russian) **93a:46046**
Byczkowski, Tomasz (*with* Rajput, Balram S.) Tail behavior for semigroups of measures on groups. (English summary) **93m:60021**
Chuprunov, A. N. Spaces connected with sequences of independent random elements. (Russian) **93c:46043**
— Generalization of spaces of stable and Rademacher types p. (Russian) **93a:46026**
Csáki, Endre (*with* Csörgő, Miklós) Inequalities for increments of stochastic processes and moduli of continuity. **93c:60055**
Csörgő, Miklós *see* **Csáki, Endre, 93c:60055**
Cuesta, Juan Antonio (*with* Matrán, Carlos) A review on strong convergence of weighted sums of random elements based on Wasserstein metrics. **93h:60010**
Cutland, Nigel J. On large deviations in Hilbert space. **93g:60058**
Daletskiĭ, Yu. L. (*with* Steblovskaya, V. R.) The smooth measures in Banach spaces and their smooth mappings. **93c:46072**
— (*with* Fomin, S. V.) ★ Measures and differential equations in infinite-dimensional space. **93c:46071**
Đặng Hùng Thắng Sample paths of random linear operators in Banach spaces. (English summary) **93m:60137**
Defant, Martin (*with* Junge, Marius) Random variables in weak type p spaces. **93a:46018**
Fernique, Xavier Sur la régularité des fonctions aléatoires D'Ornstein-Uhlenbeck à valeurs dans l_p, $p \in [1, \infty)$. (English and French summaries) [On the regularity of Ornstein-Uhlenbeck random functions with values in l_p, $p \in [1, \infty)$] **93i:60079**
Feyel, Denis (*with* de La Pradelle, Arnaud) Capacités gaussiennes. (English summary) [Gaussian capacities] **93b:60174**
Fomin, S. V. *see* **Daletskiĭ, Yu. L., 93c:46071**
Gan, Shi Xin Banach space valued quasi-eventual martingales. (English summary) **93i:60088**
— (*with* Ren, Yao Feng) B-valued uniform asymptotic martingales over directed sets. (Chinese. Chinese summary) **93m:60087**
— Invariance of bounded linear operators and local convergence of quasimartingale transforms. (Chinese. English and Chinese summaries) **93i:46023**
— *see also* **Hu, Yi Jun, 93d:46038** *and* **Liu, Pei De, 93m:46007**
Gelbrich, Matthias On a formula for the L^2 Wasserstein metric between measures on Euclidean and Hilbert spaces. **93a:62081**
(Goncharuk, N. Yu.) *see* **Daletskiĭ, Yu. L., 93c:46071**
Hu, Yi Jun (*with* Gan, Shi Xin) The convex Φ-inequality and a characterization of Hilbert spaces. (Chinese. English summary) **93d:46038**
Junge, Marius *see* **Defant, Martin, 93a:46018**
Kirillov, A. I. Two mathematical problems of canonical quantization. III. Stochastic vacuum mechanics. (Russian. English and Russian summaries) **93k:81112**
Koldobskiĭ, A. L. Inverse problem for potentials of measures in Banach spaces. **93h:46051**
de La Pradelle, Arnaud *see* **Feyel, Denis, 93b:60174**
Li, Wenbo V. Comparison results for the lower tail of Gaussian seminorms. **93k:60088**
Lifshits, M. A. Gaussian large deviations of a smooth seminorm. (Russian. Russian summary) **93h:60060**
Liu, Pei De (*with* Gan, Shi Xin) A uniform integrability condition for B-valued martingales and geometric properties of Banach spaces. (Chinese. English and Chinese summaries) **93m:46007**
— Quasimartingale transformations and UMD spaces. (Chinese. Chinese summary) **93m:46029**
Łuczak, Andrzej Operator-semistable operator Lévy's measures on finite-dimensional vector spaces. **93a:60017**
Matrán, Carlos *see* **Cuesta, Juan Antonio, 93h:60010**
Mikhaĭlov, A. E. On the oscillation of Gaussian processes. II. (Russian. Russian summary) **93g:60078**
Nguyen Duc Tuan Classifying the infinitely divisible probability measures via generalized self-decomposable structure. (English summary) **93k:60037**
Portenier, Claude Le théorème de Prokhorov-Sazonov comme théorème de représentation. (English summary) [The Prokhorov-Sazonov theorem as a representation theorem] **93j:28019**
Rajput, Balram S. *see* **Byczkowski, Tomasz, 93m:60021**
Ren, Yao Feng *see* **Gan, Shi Xin, 93m:60087**
Rudowicz, Rafał Admissible translations of the Brownian motion on a Lie group. (English summary) **93j:60052**
Satô, Hiroshi[1] Absolute continuity of locally equivalent Markov chains. **93f:60055**
Schneider, W. R. Grey noise. (English summary) **93g:60083**
Sidorenko, A. F. An unimprovable inequality for the sum of two symmetrically distributed random vectors. (Russian) **93c:60021**
Smolyanov, O. G. (*with* Smolyanova, M. O.) Shifts of the Feynman measure along vector fields. (Russian. Russian summary) **93j:28020**
Smolyanova, M. O. *see* **Smolyanov, O. G., 93j:28020**
Starkloff, Hans-Jörg Über meßbare Vektorräume. [On measurable linear spaces] **93f:46070**
Steblovskaya, V. R. *see* **Daletskiĭ, Yu. L., 93c:46072** *and* **93c:46071**

60B12 Limit theorems for vector-valued random variables (infinite-dimensional case)

Adler, André (*with* Rosalsky, Andrew; Taylor, Robert Lee) On the Azlarov-Volodin theorem for sums of i.i.d. random elements in Banach spaces. (English summary) **93k:60014**
Bentkus, Vidmantas (*with* Götze, Friedrich; Paulauskas, Vygantas; Račkauskas, Alfredas) The accuracy of Gaussian approximation in Banach spaces. (Russian) **93e:60014**
— (*with* Liubinskas, K.) Convergence rates of moments and related functionals in the invariance principle in Banach spaces. (Russian and Lithuanian summaries) **93d:60009**
Berger, Erich A note on the strong law of large numbers for partial sums of independent random vectors. **93a:60010**
Bézandry, Paul Hubert ★ Régularité et propriétés limites des fonctions aléatoires à trajectoires dans $D([0, 1])$. (French) [Regularity and limit properties of random functions with trajectories in $D([0, 1])$] **93k:60015**
— (*with* Fernique, Xavier) Sur la propriété de la limite centrale dans $\mathscr{D}[0, 1]$. (English summary) [On the central limit property in $\mathscr{D}[0, 1]$] **93j:60004**
Borisov, I. S. (*with* Solov'yov, E. A.) Second-order approximation for distributions of smooth functionals of sums of independent random variables in Banach spaces. (English summary) **93h:60008**
Borovskikh, Yu. V. UB-statistics. (Russian) **93b:60017**
— *see also* **Korolyuk, V. S., 93a:60013**
Chen, Xia Moderate deviations of independent random vectors in a Banach space. (Chinese. English and Chinese summaries) **93m:60020**
Chuprunov, A. N. Limit theorems for stable laws in Banach spaces. (English summary) **93h:60009**
Cuesta, Juan Antonio (*with* Matrán, Carlos) A review on strong convergence of weighted sums of random elements based on Wasserstein metrics. **93h:60010**
Deng, Dian Liang The estimation of the superior limit in the law of iterated logarithm for tail sums. **93c:60003**
Einmahl, Uwe Exact convergence rates for the bounded law of the iterated logarithm in Hilbert space. **93i:60013**
Etemadi, N. A simple inequality for independent random vectors. (English summary) **93g:60009**
Fazekas, István Convergence rates in the law of large numbers for arrays. **93j:60005**
Fernique, Xavier *see* **Bézandry, Paul Hubert, 93j:60004**
Götze, Friedrich *see* **Bentkus, Vidmantas; et al., 93e:60014**
Gudynas, Pranas P. An estimate of the rate of convergence in the CLT for dependent Hilbert space valued random variables. (English summary) **93h:60011**
— An estimate for the rate of convergence in the central limit theorem for dependent random elements in a Hilbert space. (Russian. English and Lithuanian summaries) **93d:60010**
Khrennikov, A. Yu. The central limit theorem for a quasi-Gaussian distribution on an infinite-dimensional superspace. (Russian) **93a:60011**
Kolchinskiĭ, V. I. The entropy order of operators and limit theorems in Banach spaces. **93k:60016**
— On the accuracy of the approximation of an empirical process by a Brownian bridge. (Russian) **93a:60012**
Korolyuk, V. S. (*with* Borovskikh, Yu. V.) Weak convergence of distributions of UH-statistics to stable laws. (Russian) **93a:60013**
Ledoux, Michel Sur les déviations modérées des sommes de variables aléatoires vectorielles indépendantes de même loi. (English summary) [On moderate deviations of sums of i.i.d. vector random variables] **93k:60017**
Li, De Li (*with* Wu, Zhi Quan) The law of the iterated logarithm for B-valued I.I.D. random variables indexed by T_θ^d. (Chinese. English and Chinese summaries)
— (*with* Wang, Xiang Chen) Convergence rates for probabilities of moderate deviations for sums of B-valued random variables. (English summary) **93j:60006**
Liubinskas, K. *see* **Bentkus, Vidmantas, 93d:60009**
Matrán, Carlos *see* **Cuesta, Juan Antonio, 93h:60010**
Nguyễn Duy Tiến *see* **Nguyen Van Hung, 93e:60015**
Nguyen Van Hung (*with* Nguyễn Duy Tiến) On stability of quadratic forms in martingale differences in Banach spaces. **93e:60015**
Paulauskas, Vygantas (*with* Račkauskas, Alfredas) Nonuniform estimates in the central limit theorem in Banach spaces. (Russian and Lithuanian summaries) **93b:60018**
— *see also* **Bentkus, Vidmantas; et al., 93e:60014**
Puri, Madan L. (*with* Sazonov, Vyacheslav Vasil'evich) On Hilbert space valued U-statistics. **93d:60011a**
— *see also* **Sazonov, Vyacheslav Vasil'evich, 93d:60011b**
Račkauskas, Alfredas Uniform bounds in the central limit theorem for $C(S)$ valued martingales. (Russian and Lithuanian summaries) **93e:60016**
— *see also* **Paulauskas, Vygantas, 93b:60018** *and* **Bentkus, Vidmantas; et al., 93e:60014**
Rosalsky, Andrew *see* **Adler, André; et al., 93k:60014**
Salinetti, Gabriella (*with* Wets, Roger J.-B.) Glivenko-Cantelli type theorems: an application of the convergence theory of stochastic suprema. **93c:60004**

Sazonov, Vyacheslav Vasil'evich (*with* Ul'yanov, Vladimir Vasil'evich) Speed of convergence in the central limit theorem in Hilbert space under weakened moment conditions. **93e:60017**

— Letter to the editors: "On Hilbert space valued U-statistics" by M. L. Puri and Sazonov. (Russian) **93d:60011b**

— *see also* **Puri, Madan L., 93d:60011a**

Senatov, V. V. Some remarks on estimating the rate of convergence in the central limit theorem in a Hilbert space. (Russian) **93e:60018**

Solov'yov, E. A. *see* **Borisov, I. S., 93h:60008**

Su, Kuo Liang (*with* Taylor, Robert Lee) Marcinkiewicz strong laws of large numbers and convergence rates for arrays of independent random elements in Banach spaces. **93d:60012**

Su, Zhong Gen How big are the increments of trimmed sums of B-valued random variables? (Chinese. English and Chinese summaries) **93g:60010**

Taylor, Robert Lee *see* **Su, Kuo Liang, 93d:60012** *and* **Adler, André; et al., 93k:60014**

Tikhomirov, A. N. On the normal approximation of sums of weakly dependent Hilbert-valued random variables. **93e:60019**

— On the accuracy of the normal approximation of the probability of sums of weakly dependent Hilbert-space-valued random variables hitting a ball. I. (Russian) **93e:60020**

— On the rate of convergence in the central limit theorem for sequences of weakly dependent Hilbert-space-valued random variables. (Russian. Russian summary)

Ul'yanov, Vladimir Vasil'evich *see* **Sazonov, Vyacheslav Vasil'evich, 93e:60017**

Wang, Xiang Chen *see* **Li, De Li, 93j:60006**

Weber, Michel Jean Georges New sufficient conditions for the law of the iterated logarithm in Banach spaces. **93k:60018**

Wets, Roger J.-B. *see* **Salinetti, Gabriella, 93c:60004**

Wu, Zhi Quan *see* **Li, De Li**

Yang, Xiao Yun The rate of convergence of moments of partial sums of B-valued random variable sequences. (Chinese. English summary)

Yukich, J. E. Weak convergence of smoothed empirical processes. (English summary) **93k:60019**

Yurinskiĭ, V. V. Osipov's theorem revisited. **93b:60019**

— Exponential estimates of Bernstein type. (Russian) **93b:60020**

— On the asymptotics of large deviations in a Hilbert space. I. (Russian) **93e:60021**

— On the asymptotics of large deviations in a Hilbert space. II. (Russian) **93e:60022**

Items with secondary classifications in 60B12

Albin, J. M. P. On the general law of iterated logarithm with application to selfsimilar processes and to Gaussian processes in $\mathbf{R}^n$ and Hilbert space. **93c:60039**

Andrews, Donald W. K. Generic uniform convergence. (English summary) **93i:60068**

Arcones, Miguel A. Large deviations for U-statistics. (English summary) **93h:60036**

Bagro, S. V. Some probabilistic inequalities and a central limit theorem in function spaces. (Russian) **93h:60026**

Bentkus, Vidmantas Theorems of large deviations in the multivariate invariance principle. **93j:60029**

Bosq, Denis Propriétés asymptotiques des processus autorégressifs banachiques. Applications. (English and French summaries) [Asymptotic properties of autoregressive processes in Banach spaces. Applications] **93k:60081**

Bryc, Włodzimierz On large deviations for uniformly strong mixing sequences. **93h:60037**

Byczkowski, Tomasz (*with* Rajput, Balram S.) Tail behavior for semigroups of measures on groups. (English summary) **93m:60021**

Daffer, Peter Z. Convergence and weighted sums of random functions in $D[0, 1]$. **93b:60011**

Dümbgen, Lutz Limit theorems for the simplicial depth. **93m:60063**

Freidlin, Mark I. (*with* Sowers, Richard B.) Central limit theorem results for a reaction-diffusion equation with fast-oscillating boundary perturbations. **93i:60150**

Hess, Christian On multivalued martingales whose values may be unbounded: martingale selectors and Mosco convergence. **93e:60090**

Kazumi, Tetsuya Refinement in terms of capacities of certain limit theorems on an abstract Wiener space. **93c:60081**

Koval', V. A. Laws of large numbers and the iterated logarithm for solutions of stochastic difference equations in a Banach space. (Russian. Russian summary) **93k:60162**

Li, De Li (*with* Rao, M. Bhaskara; Wang, Xiang Chen) The law of the iterated logarithm for independent random variables with multidimensional indices. **93d:60047**

— (*with* Wang, Xiang Chen; Rao, M. Bhaskara) Almost sure behaviour of **F**-valued random fields. (English summary) **93h:60049**

Liu, Pei De Fefferman's inequalities and the conjugate space of ${}_a\widetilde{H}_p(X)$. (Chinese) **93d:46024**

Neuenschwander, Daniel Limits of commutative triangular systems on simply connected step 2-nilpotent Lie groups. **93b:60023**

Norvaiša, R. Weighted multivariate empirical processes as random measures. **93d:60049**

Papageorgiou, Nikolaos S. Convergence theorems for set-valued martingales and semimartingales. (Russian summary) **93k:60119**

Rajput, Balram S. *see* **Byczkowski, Tomasz, 93m:60021**

Rao, M. Bhaskara *see* **Li, De Li; et al., 93d:60047** *and* **93h:60049**

Sowers, Richard B. *see* **Freidlin, Mark I., 93i:60150**

Su, Zhong Gen The bounded law of the iterated logarithm for weighted sums of independent random variables. (Chinese. English summary) **93e:60062**

Talagrand, Michel On vector-valued random Fourier series. **93k:60137**

Wang, Xiang Chen *see* **Li, De Li; et al., 93d:60047** *and* **93h:60049**

Yin, Gang George On H-valued stochastic approximation: finite-dimensional projections. **93e:62211**

60B15 Probability measures on groups, Fourier transforms, factorization

Alexopoulos, G. A lower estimate for central probabilities on polycyclic groups. (English summary) **93j:60007**

Bingham, Michael S. An approximate martingale convergence theorem on locally compact abelian groups. (English summary) **93k:60020**

— Approximate martingale characterization of Wiener processes on locally compact abelian groups. **93d:60013**

Budzban, Greg (*with* Mukherjea, Arunava) Convolution products of nonidentical distributions on a topological semigroup. **93e:60023**

Byczkowski, Tomasz (*with* Rajput, Balram S.) Tail behavior for semigroups of measures on groups. (English summary) **93m:60021**

Dani, Shrikrishna Gopalrao Invariance groups and convergence of types of measures on Lie groups. **93f:60008**

Diaconis, Persi Finite Fourier methods: access to tools. **93a:60014**

Eisele, Peter On shifted convolution powers of a probability measure. **93j:60008**

Feinsilver, Philip (*with* Schott, René) Appell systems on Lie groups. **93i:60014**

Fel'dman, G. M. The Cauchy distribution on abelian groups and its characterization. (Russian) **93a:60015**

— ★ Arithmetic of probability distributions, and characterization problems on abelian groups. (English. English summary) **93m:60022**

Gabrielyan, S. S. Characterization of the Cauchy distribution on abelian groups. (Russian. English summary) **93b:60021**

Gebuhrer, Marc-Olivier Critère de transience d'un semi groupe de probabilités sur une classe d'hypergroupes commutatifs. (English summary) [The transience criterion for semigroups of probability measures on a class of commutative hypergroups] **93i:60015**

Graczyk, Piotr A central limit theorem on the space of positive definite symmetric matrices. (English and French summaries) **93m:60023**

Hazod, W. Semistability and domains of attraction on compact extensions of nilpotent groups. **93k:60021**

Hora, Akihito Remarks on the shuffling problem for finite groups. (English summary) **93m:60024**

Kapitonov, V. M. Joint distribution of the products of random variables on a compact group that are distinguishable by a permutation of multipliers. (Russian) **93m:60025**

Khokhlov, Yu. S. The domain of normal attraction of a stable probability measure on a nilpotent group. **93k:60022**

Kholevo, A. S. An analog of the Itô decomposition for multiplicative processes with values in a Lie group. (English summary) **93i:60016**

Liu, Jin E *see* **Xu, Kan**

Lo, Chi-Chang (*with* Mukherjea, Arunava) Convergence in distribution of products of $d \times d$ random matrices. **93b:60022**

(Lyubarskiĭ, Yu. I.) *see* **Fel'dman, G. M., 93m:60022**

McCrudden, M. An example of a solvable Lie group admitting an absolutely continuous Gauss semigroup with incomparable supports. **93h:60012**

Mukherjea, Arunava Recurrent random walks in nonnegative matrices: attractors of certain iterated function systems. **93e:60024**

— *see also* **Lo, Chi-Chang, 93b:60022** *and* **Budzban, Greg, 93e:60023**

Neuenschwander, Daniel Limits of commutative triangular systems on simply connected step 2-nilpotent Lie groups. **93b:60023**

Ohring, Peter A central limit theorem on Heisenberg type groups. II. **93j:60009**

Pap, Gyula Rate of convergence in CLT on stratified groups. **93b:60024**

Rajput, Balram S. *see* **Byczkowski, Tomasz, 93m:60021**

Ressel, Paul Semigroups in probability theory. **93k:60023**

Ruzsa, Imre Z. Infinite convolution of distributions on discrete commutative semigroups. **93h:60013**

Schott, René *see* **Feinsilver, Philip, 93i:60014**

Shur, M. G. On the compactness of a family of functions that are harmonic for a random walk on a group. (Russian) **93f:60009**

Voit, Michael Pseudoisotropic random walks on free groups and semigroups. **93g:60011**

— Strong laws of large numbers for random walks associated with a class of one-dimensional convolution structures. **93h:60014**

Xu, Kan (*with* Liu, Jin E) Limit behavior of convolution sequences of probability measures on compact commutative semigroups. (Chinese. English summary)

Zabell, S. L. A note on translation continuity of probability measures. **93b:60025**

Zhdanova, Yu. D. A central limit theorem on a finite solvable group. (Russian. Russian summary) (*see* **93e:60002**)

Items with secondary classifications in 60B15

Arratia, Richard (*with* Tavaré, Simon) The cycle structure of random permutations. (English summary) **93g:60013**

Bayer, Dave (*with* Diaconis, Persi) Trailing the dovetail shuffle to its lair. **93d:60014**

Bercovici, Hari (*with* Voiculescu, Dan) Lévy-Hinčin type theorems for multiplicative and additive free convolution. **93k:46052**

Bingham, Michael S. Convergence of approximate martingale arrays to mixtures of infinitely divisible distributions in locally compact abelian groups. (English summary) **93m:60016**

Bisch, Dietmar Entropy of groups and subfactors. **93e:46076**

Diaconis, Persi (*with* Fill, James Allen; Pitman, James W.) Analysis of top to random shuffles. (English summary) **93f:60011**

— *see also* **Bayer, Dave, 93d:60014**

Estrade, Anne Exponentielle stochastique et intégrale multiplicative discontinues. (English summary) [Discontinuous stochastic exponential and multiplicative integral] **93k:60116**

Fill, James Allen *see* **Diaconis, Persi; et al., 93f:60011**

Heyer, Herbert (*with* Wang, Yan) Measures of finite energy on a commutative hypergroup. (Italian summary) **93c:43008**

Hora, Akihito Quasi-invariant measures on the infinite product of SU(2). **93g:22008**

Kalpazidou, Sofia Circulation distribution on groups. **93d:60115**

Kerov, S. V. Gaussian limit for the Plancherel measure of the symmetric group. (English and French summaries) **93k:20106**

Kuhn, M. Gabriella Random walks on free products. (French summary) **93a:43008**

Marques, Mauro S. de F. (*with* San Martin, Luiz) Quasi-invariance of product measures under Lie group perturbations: Fisher information and L^2-differentiability. (English summary) **93h:60065**

Pap, Gyula A new proof of the central limit theorem on stratified Lie groups. **93m:60047**

Peigné, Marc Marches de Markov sur le semi-groupe des contractions de $\mathbf{R}^d$. Cas de la marche aléatoire à pas markoviens sur $(\mathbf{R}^+)^d$ avec chocs élastiques sur les axes. (English

summary) [Markov walks on a contraction semigroup in $\mathbf{R}^d$. The case of a random walk with Markov steps in $(\mathbf{R}^+)^d$ with elastic collisions on the axes] **93f:60106**
Pitman, James W. *see* **Diaconis, Persi; et al., 93f:60011**
Rawlings, Don Bernoulli trials and permutation statistics. **93b:60026**
Rębowski, R. Most random walks on nilpotent groups are mixing. (English summary) **93j:60094**
San Martin, Luiz *see* **Marques, Mauro S. de F., 93h:60065**
Schürmann, Michael Realization of unitary q-white noise on Fock space. (English summary) **93j:81057**
Shur, M. G. On harmonic functions of random walks on groups. **93c:60104**
— Absolutely continuously and singularly generated harmonic functions for random walks on groups. (Russian) **93e:60144**
Stein, Charles A way of using auxiliary randomization. (English summary) **93i:60004**
Tavaré, Simon *see* **Arratia, Richard, 93g:60013**
Voiculescu, Dan Entropy of random walks on groups and the Macaev norm. **93m:47077**
— *see also* **Bercovici, Hari, 93k:46052**
Wang, Yan *see* **Heyer, Herbert, 93c:43008**
Woess, Wolfgang Behaviour at infinity and harmonic functions of random walks on graphs. **93g:60152**

60B99 None of the above, but in this section

Goleţ, I. Remarks on the approximation of functions with values in random normed spaces. (Romanian summary)
— On functions with values in random normed spaces and its applications. (Romanian summary)
Peres, Yuval Domains of analytic continuation for the top Lyapunov exponent. (French summary) **93g:60012**

Items with secondary classifications in 60B99

Bouhaik, Mostafa (*with* Gallardo, Léonard) Un théorème limite central dans un hypergroupe bidimensionnel. (English summary) [A central limit theorem in a two-dimensional hypergroup] **93e:43001**
Bożejko, Marek A q-deformed probability, Nelson's inequality and central limit theorems. **93a:81098**
Daher, Mohamed Convergence des martingales pluri-sous-harmoniques vectorielles à deux indices. (English and French summaries) [Convergence of two-parameter plurisubharmonic vector martingales] **93j:60060**
Denisov, L. V. Convolution semigroups in noncommutative probability theory. (Russian) **93d:46108**
Dettweiler, Egbert Stochastic integration relative to Brownian motion on a general Banach space. (Turkish summary) **93b:60112**
Gallardo, Léonard *see* **Bouhaik, Mostafa, 93e:43001**
Hassenforder, Claudie A study of some stationary Gaussian processes indexed by the homogeneous tree. **93g:60076**
Lenczewski, Romuald (*with* Podgórski, Krzysztof) A q-analog of the quantum central limit theorem for $SU_q(2)$. **93m:81082**
Podgórski, Krzysztof *see* **Lenczewski, Romuald, 93m:81082**
Ruiz, César On subspaces of Orlicz function spaces spanned by sequences of independent symmetric random variables. **93b:46050**
Samorodnitsky, Gennady (*with* Taqqu, Murad S.) Construction of multiple stable measures and integrals using LePage representation. **93a:60084**
Tan, Kok-Keong (*with* Yuan, Xian Zhi) On deterministic and random fixed points. **93m:47065**
Taqqu, Murad S. *see* **Samorodnitsky, Gennady, 93a:60084**
Trimèche, Khélifa Opérateurs de permutation et théorème de la centrale associés à des opérateurs aux dérivées partielles. (English summary) [Permutation operators and the central limit theorem associated with partial differential operators] **93k:43009**
Yuan, Xian Zhi *see* **Tan, Kok-Keong, 93m:47065**

60C05 Combinatorial probability

Aldous, David J. The continuum random tree. II. An overview. **93f:60010**
Arratia, Richard (*with* Tavaré, Simon) The cycle structure of random permutations. (English summary) **93g:60013**
— (*with* Tavaré, Simon) Limit theorems for combinatorial structures via discrete process approximations. **93g:60014**
Balakrishnan, Narayanaswamy *see* **Balasubramanian, Krishnaswami, 93k:60024**
Balasubramanian, Krishnaswami (*with* Balakrishnan, Narayanaswamy) A log-concavity property of probability of occurrence of exactly r arbitrary events. (English summary) **93k:60024**
Barbour, A. D. Refined approximations for the Ewens sampling formula. **93k:60025**
Baryshnikov, Yu. M. (*with* Eisenberg, Bennett) Independent events and independent experiments. **93g:60015**
Bayer, Dave (*with* Diaconis, Persi) Trailing the dovetail shuffle to its lair. **93d:60014**
Berg, Sven (*with* Jaworski, Jerzy) Probability distributions related to the local structure of a random mapping. **93d:60015**
Bykov, S. I. Conditions for asymptotic normality of the statistics μ_r in a multinomial scheme. (Russian) (*see* **93b:60003**)
Chan, Wenyaw A sum for ratios of combinations in sequential sampling.
Chen, Robert W. (*with* Zame, Alan) An urn model with some applications. **93h:60015**
Diaconis, Persi (*with* Fill, James Allen; Pitman, James W.) Analysis of top to random shuffles. (English summary) **93f:60011**
— *see also* **Bayer, Dave, 93d:60014**
Di Crescenzo, A. (*with* Giorno, Virginia; Nobile, Amelia G.) On some first-crossing-time probabilities for a two-dimensional random walk with correlated components. **93g:60016**
Eisenberg, Bennett *see* **Baryshnikov, Yu. M., 93g:60015**
Ènat-skaya, N. Yu. *see* **Khakimullin, E. R., (93b:60003)**
Fan, Da Yin A discussion of the probability field of a denumerable equiprobable scheme. (Chinese. English and Chinese summaries)
Fill, James Allen *see* **Diaconis, Persi; et al., 93f:60011**
Gardy, Danièle Méthode de col et lois limites en analyse combinatoire. [The saddle method and limit laws in combinatorial analysis] **93f:60012**
Giorno, Virginia *see* **Di Crescenzo, A.; et al., 93g:60016**
Godbole, Anant P. The exact and asymptotic distribution of overlapping success runs. **93h:60016**
— (*with* Gornowicz, Michelle C.) Exact and approximate runs distributions. (English summary) **93m:60026**
Gornowicz, Michelle C. *see* **Godbole, Anant P., 93m:60026**
Gutjahr, Walter J. (*with* Pflug, G. Ch.) The asymptotic contour process of a binary tree is a Brownian excursion. **93i:60017**
Holst, Lars On the number of vertices in the complete graph with a given vertex as nearest neighbor. **93g:60017**
Ivanova, T. V. (*with* Lutfullina, S. I.) Asymptotics of the moments of the number of cells containing a given number of particles in an occupancy scheme with evolution. (Russian) (*see* **93b:60003**)
Ivchenko, G. I. (*with* Morozova, N. M.) The negative multinomial distribution and its probabilistic analysis. (Russian) (*see* **93b:60003**)
Jaworski, Jerzy *see* **Berg, Sven, 93d:60015**
Joyce, Paul (*with* Tavaré, Simon) A convergence theorem for symmetric functionals of random partitions. **93g:60018**
Khakimullin, E. R. (*with* Ènat-skaya, N. Yu.) The rate of convergence of the distribution of waiting time to the limit distribution in an equiprobable scheme for the allocation of particles in groups. (Russian) (*see* **93b:60003**)
Kudlaev, È. M. Classification of decomposable statistics. (Russian) (*see* **93b:60003**)
Leader, Imre Discrete isoperimetric inequalities. **93j:60010**
Leite, José Galvão (*with* Pereira, Carlos Alberto de Bragança; Rodrigues, Flávio Wagner) Waiting time to exhaust lottery numbers. (English summary)
Lindsay, Jeffrey D. A new solution for the probability of completing sets in random sampling: definition of a "two-dimensional factorial". (English summary) **93h:60017**
Ling, K. D. A generalization of the sooner and later waiting time problems for Bernoulli trials: frequency quota. (English summary)
Lutfullina, S. I. *see* **Ivanova, T. V., (93b:60003)**
Mahmoud, Hosam M. Limiting distributions for path lengths in recursive trees. (English summary) **93g:60019**
Mase, Shigeru Approximations to the birthday problem with unequal occurrence probabilities and their application to the surname problem in Japan. (English summary) **93i:60018**
Masol, V. I. On the distribution of the number of l-steps of a binary random sequence with constraints. (Russian. Ukrainian summary) **93c:60005**
Móri, Tamás F. Asymptotic independence of maximum waiting times for increasing alphabet. (English summary) **93k:60026**
Morozova, N. M. *see* **Ivchenko, G. I., (93b:60003)**
Nechepurenko, M. I. ★ Интервальные оценки вероятностей с учетом степени зависимости событий. (Russian. English and Russian summaries) [Interval estimates for probabilities taking into account the degree of dependence of events] **93m:60027**
Nobile, Amelia G. *see* **Di Crescenzo, A.; et al., 93g:60016**
Nowicki, Krzysztof Asymptotic distributions in random graphs with applications to social networks. **93a:60016**
Pereira, Carlos Alberto de Bragança *see* **Leite, José Galvão; et al.**
Pflug, G. Ch. *see* **Gutjahr, Walter J., 93i:60017**
Pitman, James W. *see* **Diaconis, Persi; et al., 93f:60011**
Pittel, Boris On likely solutions of a stable marriage problem. **93k:60027**
Rawlings, Don Bernoulli trials and permutation statistics. **93b:60026**
Rodrigues, Flávio Wagner *see* **Leite, José Galvão; et al.**
Ruciński, Andrzej Proving normality in combinatorics. **93k:60028**
Saran, Jagdish On some joint laws in fluctuations of sums of random variables. **93f:60013**
Szalkai, István (*with* Velleman, Dan) Versatile coins. **93m:60028**
Takács, Lajos Limit theorems for random trees. **93c:60006**
Talagrand, Michel Matching random samples in many dimensions. (English summary) **93j:60011**
Tavaré, Simon *see* **Arratia, Richard, 93g:60013; 93g:60014** *and* **Joyce, Paul, 93g:60018**
Velleman, Dan *see* **Szalkai, István, 93m:60028**
Zame, Alan *see* **Chen, Robert W., 93h:60015**

Items with secondary classifications in 60C05

Aki, Sigeo Waiting time problems for a sequence of discrete random variables. (English summary) **93k:60041**
Aldous, David J. A random tree model associated with random graphs. **93a:05111**
— Random walk covering of some special trees. **93b:60147**
Alon, Noga (*with* Spencer, Joel H.) ★ The probabilistic method. **93h:60002**
Antzoulakos, Demetris L. *see* **Philippou, Andreas N., 93f:11015**
Barbour, A. D. (*with* Holst, Lars; Janson, Svante) ★ Poisson approximation. **93g:60043**
Barry, Micheel J. J. (*with* Lo Bello, Anthony J.) The moment generating function of the geometric distribution of order k.
Berg, Sven (*with* Lepelley, Dominique) Note sur le calcul de la probabilité des paradoxes du vote. (English and French summaries) [Note on the computation of the voting paradox probability] **93j:90026**
— *see also* **Gehrlein, William V.**
Bollobás, Béla Random graphs. **93i:05114**
Branson, David An urn model and the coalescent in neutral infinite-alleles genetic processes. (English summary) **93g:92013**
Britikov, V. E. On the distribution of the maximum size of a tree in a random graph. (Russian) (*see* **93b:60003**)
Chung, Fan R. K. (*with* Graham, R. L.) Cohomological aspects of hypergraphs. **93a:05097**
Cooper, Colin 1-pancyclic Hamilton cycles in random graphs. **93d:05135**
Diaconis, Persi (*with* Graham, R. L.) An affine walk on the hypercube. (English summary) **93i:60124**
Dobbs, David E. (*with* Lancaster, Mark J.) The expected dimension of a sum of vector subspaces. **93h:15002**
Eisenberg, Bennett A variation of a theorem of Sparre-Andersen. **93g:60148**

(Erdős, Paul) *see* **Alon, Noga, 93h:60002**
Fishburn, Peter C. Correlation in partially ordered sets. (English summary) **93k:06005**
Flajolet, Philippe (*with* Gardy, Danièle; Thimonier, Loÿs) Birthday paradox, coupon collectors, caching algorithms and self-organizing search. (English summary) **93i:68107**
Galambos, Janos (*with* Xu, Yuan) Some optimal bivariate Bonferroni-type bounds. **93d:60026**
Gardy, Danièle *see* **Flajolet, Philippe; et al., 93i:68107**
Gehrlein, William V. (*with* Berg, Sven) The effect of social homogeneity on coincidence probabilities for pairwise proportional lottery and simple majority rules. (English summary)
Grable, David A. Sharpened Bonferroni inequalities. (English summary) **93m:60036**
Graham, R. L. *see* **Chung, Fan R. K., 93a:05097** *and* **Diaconis, Persi, 93i:60124**
Gupta, J. M. *see* **Sen, Kanwar; et al., 93j:60147**
Holst, Lars *see* **Barbour, A. D.; et al., 93g:60043**
Jaillet, Patrick Rates of convergence for quasi-additive smooth Euclidean functionals and application to combinatorial optimization problems. (English summary) **93k:90076**
Jain, J. L. *see* **Sen, Kanwar; et al., 93j:60147** *and* **93j:60148**
Janson, Svante Poisson approximation for large deviations. **93a:60041**
— (*with* Nowicki, Krzysztof) The asymptotic distributions of generalized U-statistics with applications to random graphs. **93b:62021**
— Multicyclic components in a random graph process. (English summary) **93i:05117**
— *see also* **Barbour, A. D.; et al., 93g:60043**
Lancaster, Mark J. *see* **Dobbs, David E., 93h:15002**
Lepelley, Dominique *see* **Berg, Sven, 93j:90026**
Lo Bello, Anthony J. *see* **Barry, Michael J. J.**
Logunov, P. L. Asymptotic properties of random matrices that are expressed in terms of conditional probabilities. (Russian) **93e:60066**
Louchard, G. Robust variations of interpolation search: an asymptotic analysis. (German summary) **93c:68017**
Łuczak, Tomasz On the number of sparse connected graphs. **93a:05012**
Mahmoud, Hosam M. ★ Evolution of random search trees. **93f:68045**
— (*with* Smythe, Robert T.) Asymptotic joint normality of outdegrees of nodes in random recursive trees. **93d:05139**
McDiarmid, Colin J. H. On a correlation inequality of Farr. (English summary) **93h:05145**
Meir, Amram (*with* Moon, J. W.) On nodes of large out-degree in random trees. **93f:05092**
Mnatsakanov, R. M. Limit theorems for some random processes based on frequencies. (English summary) **93h:60033**
Moon, J. W. *see* **Meir, Amram, 93f:05092**
Mutafchiev, Lyuben R. Local limit theorems for sums of power series distributed random variables and for the number of components in labelled relational structures. (English summary) **93k:60060**
Newman, Charles M. Chain lengths in certain random directed graphs. **93h:05146**
Nowicki, Krzysztof *see* **Janson, Svante, 93b:62021**
Palacios, José Luis Expected cover times of random walks on symmetric graphs. (English summary) **93g:60144**
Philippou, Andreas N. (*with* Antzoulakos, Demetris L.) Multivariate Fibonacci polynomials of order k and the multiparameter negative binomial distribution of the same order. **93f:11015**
Sen, Kanwar (*with* Jain, J. L.; Gupta, J. M.) Lattice path approach to transient solution of $M/M/1$ with $(0, k)$ control policy. (English summary) **93j:60147**
— (*with* Jain, J. L.) Combinatorial approach to Markovian queueing models. (English summary) **93j:60148**
Shafer, Glenn R. (*with* Shenoy, Prakash P.) Probability propagation. (English summary) **93k:68095**
Shenoy, Prakash P. *see* **Shafer, Glenn R., 93k:68095**
Sinclair, Alistair ★ Algorithms for random generation and counting. (English. English summary) **93j:65011**
Smythe, Robert T. *see* **Mahmoud, Hosam M., 93d:05139**
Snyder, Timothy Law (*with* Steele, J. Michael) Convex hulls of random walks. **93j:60013**
Spencer, Joel H. *see* **Alon, Noga, 93h:60002**
Steele, J. Michael *see* **Snyder, Timothy Law, 93j:60013**
Stein, Charles A way of using auxiliary randomization. (English summary) **93i:60004**
Suck, Reinhard Geometric and combinatorial properties of the polytope of binary choice probabilities. **93e:90010**
Thimonier, Loÿs *see* **Flajolet, Philippe; et al., 93i:68107**
Tikhomirova, M. I. Asymptotic normality of the number of nonappearing s-chains. (Russian. Russian summary) **93i:60047**
Vantsyan, A. G. Probability of the connectivity of a random inhomogeneous hypergraph. (Russian) (*see* **93b:60003**)
Xu, Yuan *see* **Galambos, Janos, 93d:60026**

60D05 Geometric probability, stochastic geometry, random sets [see also 52A22, 53C65]

Aldous, David J. (*with* Steele, J. Michael) Asymptotics for Euclidean minimal spanning trees on random points. **93c:60007**
Avram, Florin (*with* Bertsimas, Dimitris J.) The minimum spanning tree constant in geometrical probability and under the independent model: a unified approach. **93b:60027**
Ben Nasr, Fathi Ensembles aléatoires self-affines en loi. (English summary) [Random sets self-affine in law] **93c:60008**
Bertsimas, Dimitris J. *see* **Avram, Florin, 93b:60027**
Cowan, Richard A constraint on the random packing of disks. (English summary) **93j:60012**
Cressie, Noel Modeling growth with random sets. (English summary) (*see* **93g:62004**)
Dryden, I. L. (*with* Mardia, Kanti V.) Theoretical and distributional aspects of shape analysis. (English summary) **93k:60029**
Farhane, Lotfi Espacements multivariés généralisés et recouvrements aléatoires. [Generalized multivariate spacings and random coverings] **93g:60020**
Herer, Wojciech Mathematical expectation and martingales of random subsets of a metric space. **93d:60016**
Hlawka, Edmund Buffons Nadelproblem und verwandte Probleme behandelt mit der Theorie der Gleichverteilung. (English summary) [Buffon's needle problem and related problems treated with the theory of uniform distribution] **93e:60025**
— Buffons Nadelproblem und verwandte Probleme behandelt mit der Theorie der Gleichverteilung. II. (English summary) [Buffon's needle problem and related problems treated with the theory of uniform distribution. II] **93m:60029**
Itoh, Yoshiaki *see* **Komaki, Fumiyasu, 93c:60009**
Kahane, Jean-Pierre Recouvrements aléatoires. [Random coverings] **93k:60030**
Kendall, David G. Spherical triangles revisited. (English summary) **93f:60014**
Kent, John T. New directions in shape analysis. (English summary) (*see* **93b:62003**)
Komaki, Fumiyasu (*with* Itoh, Yoshiaki) A unified model for Kakutani's interval splitting and Rényi's random packing. **93c:60009**
Le, Hui Ling The shapes of nongeneric figures, and applications to collinearity testing. (English summary) **93k:60031**
Major, Péter Poisson law for the number of lattice points in a random strip with finite area. **93g:60021**
Mardia, Kanti V. *see* **Dryden, I. L., 93k:60029**
Mase, Shigeru (*with* Ogata, Yosihiko; Tanemura, Masaharu) Statistical point configuration data—the present state of theory and applications. (Japanese)
Molchanov, I. S. Random sets. A survey of some results and applications. (Russian. Ukrainian summary) **93e:60026**
— Characterization of random closed sets that are stable with respect to union. (Ukrainian. Russian and Ukrainian summaries) **93k:60032**
Muche, Lutz (*with* Stoyan, Dietrich) Contact and chord length distributions of the Poisson Voronoi tessellation. **93f:60015**
Ogata, Yosihiko *see* **Mase, Shigeru; et al.**
Petunin, Yu. I. (*with* Semeiko, N. G.) Random cap process and generalized Wicksell problem on the surface of a sphere. **93c:60010**
Puri, Prem S. (*with* Yackel, James) On a generalized stochastic model for estimating the sizes of spheres from profiles in thin slices and an associated problem of nonidentifiability. (English summary) **93c:60011**
Rathie, P. N. On the volume distribution of the typical Poisson-Delaunay cell. **93f:60016**
Rhee, WanSoo T. (*with* Talagrand, Michel) On the long edges in the shortest tour through n random points. (English summary) **93i:60019**
— (*with* Talagrand, Michel) Packing random items of three colors. (English summary) **93i:60020**
Semeiko, N. G. *see* **Petunin, Yu. I., 93c:60010**
Small, Christopher G. Reconstructing convex bodies from random projected images. (French summary) **93g:60022**
Snyder, Timothy Law (*with* Steele, J. Michael) Convex hulls of random walks. **93j:60013**
Sporyshev, P. V. *see* **Vershik, A. M., 93d:60017**
Steele, J. Michael *see* **Aldous, David J., 93c:60007** *and* **Snyder, Timothy Law, 93j:60013**
Stoyan, Dietrich *see* **Muche, Lutz, 93f:60015**
Talagrand, Michel *see* **Rhee, WanSoo T., 93i:60019** *and* **93i:60020**
Tanemura, Masaharu *see* **Mase, Shigeru; et al.**
Tsujii, Yoshiki Markov-self-similar sets. **93e:60027**
Vassallo, Salvatore Some problems of nonuniform geometric probability relative to plane lattices. **93b:60028**
— Some problems of geometric probability relative to hyperspheres in the Euclidean space E_n. **93f:60017**
Venini, Eugenio Random segments in the Euclidean plane. (French summary) **93j:60014**
Vershik, A. M. (*with* Sporyshev, P. V.) Asymptotic behavior of the number of faces of random polyhedra and the neighborliness problem. **93d:60017**
Yackel, James *see* **Puri, Prem S., 93c:60011**
Zhou, Jia Zu A note on an article by E. F. Schuster on Buffon's needle experiment. (Chinese. English summary)

Items with secondary classifications in 60D05

Abraham, D. B. (*with* Newman, Charles M.) Remarks on a random surface. (English summary) **93h:60160**
Affentranger, Fernando Random approximation of convex bodies. (Spanish. English summary) **93g:52003**
Arbeiter, E. (*with* Zähle, M.) Kinematic relations for Hausdorff moment measures in spherical spaces. **93f:52006**
Ayala, G. (*with* Ferrándiz, Juan; Montes, F.) On parametric estimation in Boolean models. (English summary) (*see* **93m:62007**)
Bán, J. Ergodic theorems for random compact sets and fuzzy variables in Banach spaces. **93a:46147**
Ben Nasr, Fathi Dimension de Hausdorff de certains fractals aléatoires. (English and French summaries) [Hausdorff dimension of some random fractals] **93h:28008**
Blackwell, Paul Convex hulls of selected subsets of a Poisson process. (English summary) **93h:60075**
Chu, David P. T. Exact distribution of random volume from beta type-2 random points. **93e:62045**
Dyer, Martin (*with* Frieze, A. M.) Computing the volume of convex bodies: a case where randomness provably helps. **93a:52004**
Edwards, S. F. *see* **Oakeshott, R. B. S., 93f:52009** *and* **93f:52010**
Ferrándiz, Juan *see* **Ayala, G.; et al., (93m:62007)**
Frieze, A. M. *see* **Dyer, Martin, 93a:52004**
Gastaldi, Tommaso On the mean and the variance of a generalized oscillation index derived via the Minkowski metric, and of a spatial correlation index. (Italian. English and Italian summaries)
Glandt, Eduardo D. *see* **Thompson, Aidan P., 93d:82081**
Goodey, Paul (*with* Weil, Wolfgang) The determination of convex bodies from the mean of random sections. **93i:52008**
König, Dieter (*with* Schmidt, Volker) Directional distributions for multi-dimensional random point processes. (English summary) **93j:60063**
Kosygin, D. V. (*with* Sinai, Ya. G.) On the number of lattice points inside a random domain. **93g:11102**

Kōzaki, Masanori On mean value theorems for small geodesic spheres in Riemannian manifolds. **93g:53065**
Montes, F. *see* **Ayala, G.; et al., (93m:62007)**
Mori, Toshio Representation of linearly additive random fields. **93b:60103**
Mountford, Thomas S. (*with* Port, Sidney C.) Random splittings of an interval. (English summary) **93m:60068**
Newman, Charles M. *see* **Abraham, D. B., 93h:60160**
Oakeshott, R. B. S. (*with* Edwards, S. F.) Local theory of the statistics of sphere packings. (English summary) **93f:52009**
— (*with* Edwards, S. F.) On the stereology of ellipsoids and cylinders. (English summary) **93f:52010**
Ogura, Hisanao *see* **Takahashi, Nobuyuki, 93k:60130**
Patzschke, N. (*with* Zähle, M.) Fractional differentiation in the self-affine case. III. The density of the Cantor set. **93m:28009**
Peri, Carla An integral formula for convex sets in the Euclidean plane. (English summary) **93m:52006**
Port, Sidney C. *see* **Mountford, Thomas S., 93m:60068**
Rösler, Uwe A fixed point theorem for distributions. (English summary) **93k:60038**
Sato, Yumiko (*with* Takenaka, Shigeo) On determinism of symmetric α-stable processes of generalized Chentsov type. **93k:60136**
Schmidt, Volker *see* **König, Dieter, 93j:60063**
Schmitt, Michel On two inverse problems in mathematical morphology. **93j:68223**
Shemyakin, A. E. On estimating parameters of a distribution concentrated in a circle. (English summary) **93i:62047**
Sinai, Ya. G. *see* **Kosygin, D. V., 93g:11102**
Takahashi, Nobuyuki (*with* Ogura, Hisanao) Probability distribution of maxima of random surface. (English summary) **93k:60130**
Takenaka, Shigeo Integral-geometric construction of self-similar stable processes. **93d:60070**
— *see also* **Sato, Yumiko, 93k:60136**
Thompson, Aidan P. (*with* Glandt, Eduardo D.) The length of intersection lines and the number of cusps in assemblies of interpenetrating spheres. **93d:82081**
Weil, Wolfgang *see* **Goodey, Paul, 93i:52008**
Zähle, M. *see* **Arbeiter, E., 93f:52006** *and* **Patzschke, N., 93m:28009**

60Exx Distribution theory [see also 62Exx, 62Hxx]

60E05 Distributions: general theory

Aalen, Odd O. Modelling heterogeneity in survival analysis by the compound Poisson distribution. (English summary) **93i:60021**
Arnold, Barry C. (*with* Castillo, Enrique; Sarabia Alegría, José María) ★ Conditionally specified distributions. **93h:60018**
Athreya, K. B. On measures of nondegeneracy. **93g:60023**
Bar-Lev, Shaul K. (*with* Bshouty, Daoud; Letac, Gérard) Natural exponential families and self-decomposability. **93c:60012**
Barlow, Richard E. (*with* Pereira, Carlos Alberto de Bragança) Conditional independence and probabilistic influence diagrams. (English summary) **93g:60024**
Barndorff-Nielsen, Ole E. (*with* Klüppelberg, Claudia) A note on the tail accuracy of the univariate saddlepoint approximation. (English and French summaries) **93k:60033**
Beneš, Viktor (*with* Štěpán, Josef) Extremal solutions in the marginal problem. (English summary) **93m:60030**
Bobkov, S. G. Logarithmically concave measures and their application to random processes that are linearly generated by independent variables. (Russian. Russian summary) **93g:60025**
Bragin, O. B. Singular distributions of random variables defined by means of continued fractions. (Russian. Russian summary) (*see* **93m:60009**)
Bshouty, Daoud *see* **Bar-Lev, Shaul K.; et al., 93c:60012**
Buchberger, Steven G. *see* **Song, Ruiguang; et al., 93i:60029**
Cacoullos, Theophilos Two LDF characterizations of the normal as a spherical distribution. **93f:60018**
Castillo, Enrique *see* **Arnold, Barry C.; et al., 93h:60018**
Cheng, Shi Xue Characterization for binomial sequences among renewal sequences. **93f:60019**
Cline, Daren B. H. (*with* Resnick, Sidney I.) Multivariate subexponential distributions. **93i:60022**
Deddens, James A. *see* **Song, Ruiguang; et al., 93i:60029**
Fuchs, Aimé (*with* Letta, Giorgio) Un résultat élémentaire de fiabilité. Application à la formule de Weierstrass sur la fonction gamma. (French summary) [An elementary reliability result. Application to the Weierstrass formula on the gamma function] **93k:60034**
Geluk, J. L. Second order tail behaviour of a subordinated probability distribution. **93e:60028**
Gurevich, B. M. On joint distributions of random elements with given mutual conditional distributions. **93e:60029**
— On the joint distribution of random variables with given mutual conditional distributions (the discrete case). (Russian) **93e:60030**
Hassairi, Abdelhamid La classification des familles exponentielles naturelles sur $\mathbf{R}^n$ par l'action du groupe linéaire de $\mathbf{R}^{n+1}$. (English and French summaries) [Classification of natural exponential families in $\mathbf{R}^n$ by the action of the linear group in $\mathbf{R}^{n+1}$] **93i:60023**
Jankovic, S. Preservation of type under mixing. (English summary) **93m:60031**
Jensen, D. R. Invariance under dependence by mixing. (English summary) **93i:60024**
Kakosyan, A. V. *see* **Zinger, A. A.; et al., 93g:60031**
Kemperman, J. H. B. Mixtures with a limited number of modal intervals. **93f:60020**
Khanin, L. G. (*with* Rachev, Svetlozar T.; Yakovlev, A. Yu.) On the optimal control of cancer radiotherapy for nonhomogeneous cell populations. (English summary) **93j:60015**
Kijima, Masaaki Further monotonicity properties of renewal processes. **93g:60026**
Klebanov, L. B. (*with* Melamed, Joseph A.) Generalized Marcinkiewicz's theorem and asymptotic expansions in the central limit theorem. (English summary) **93h:60019**
— *see also* **Zinger, A. A.; et al., 93g:60031**
Klüppelberg, Claudia *see* **Barndorff-Nielsen, Ole E., 93k:60033**
Kong, Fan Chao (*with* Zhang, Shu Guang) Some notes on properties of multivariate distribution functions. (Chinese. English summary) **93c:60013**
Lau, Ka-Sing *see* **Ramachandran, Balasubrahmanyan, 93c:60016**
Letac, Gérard *see* **Bar-Lev, Shaul K.; et al., 93c:60012**
Letta, Giorgio *see* **Fuchs, Aimé, 93k:60034**
Liu, Qun Sheng Functional dependence of random variables. (Chinese. English and Chinese summaries)
Logunov, P. L. On estimates of the probability of domination with fixed marginal distributions. **93f:60021**
Longford, N. T. Classes of multivariate exponential and multivariate geometric distributions derived from Markov processes. (English summary) **93g:60027**
Luczak, Andrzej Operator-semistable operator Lévy's measures on finite-dimensional vector spaces. **93a:60017**
Ma, W. T. (*with* Sandri, G. v. H.; Sarkar, Sarben) Analysis of the Luria-Delbrück distribution using discrete convolution powers. **93c:60014**
Malatsion, A. S. Finite sums of random variables with independent identically distributed n-adic digits. (Russian. Russian summary) (*see* **93m:60009**)
Marco, J. M. (*with* Ruiz-Rivas, C.) On the construction of multivariate distributions with given nonoverlapping multivariate marginals. (English summary) **93k:60035**
Marshall, Albert W. (*with* Olkin, Ingram) Multivariate distributions generated from mixtures of convolution and product families. (English summary) **93i:60025**
Meilijson, Isaac Sharp bounds on the largest of some linear combinations of random variables with given marginal distributions. (English summary) **93i:60026**
Melamed, Joseph A. *see* **Klebanov, L. B., 93h:60019**
Mikusiński, Piotr (*with* Sherwood, H.; Taylor, M. D.) The Fréchet bounds revisited. **93g:60028**
Misiewicz, J. K. Some remarks on measures with n-dimensional versions. (English summary) **93k:60036**
Mogul'skiĭ, A. A. de Finetti-type results for l_p. (Russian) **93b:60029**
Móri, Tamás F. Essential correlatedness and almost independence. (English summary) **93i:60027**
Nayak, S. S. On the tail behaviour of record values. (English summary) **93d:60018**
Neupokoeva, M. V. On the recovery of a distribution from the moments of sums of independent random variables. **93d:60019**
Nguyen Duc Tuan Classifying the infinitely divisible probability measures via generalized self-decomposable structure. (English summary) **93k:60037**
Olkin, Ingram *see* **Marshall, Albert W., 93i:60025**
Ostrovs'ka, S. İ. (*with* Ryabokon', V. A.) On a class of random variables that are close to Gaussian. (Ukrainian. Russian summary) (*see* **93e:00014**)
Ostrovskiĭ, I. V. (*with* Ulanovskiĭ, A. M.) Probability distributions and Borel measures uniquely determined by their restrictions to a half-space. **93a:60018**
Pakes, Anthony G. A characterization of gamma mixtures of stable laws motivated by limit theorems. (English summary) **93i:60028**
Pereira, Carlos Alberto de Bragança *see* **Barlow, Richard E., 93g:60024**
Rachev, Svetlozar T. Mass transhipment problems and ideal metrics. **93b:60030**
— (*with* Rüschendorf, L.) Recent results in the theory of probability metrics. **93c:60015**
— *see also* **Khanin, L. G.; et al., 93j:60015**
Ramachandran, Balasubrahmanyan (*with* Lau, Ka-Sing) ★ Functional equations in probability theory. **93c:60016**
Rao, M. Bhaskara *see* **Subramanyam, K., 93g:60030**
Ravi, S. Tail equivalence of distribution functions belonging to the max domains of attraction of univariate p-max stable laws. **93e:60031**
Resnick, Sidney I. *see* **Cline, Daren B. H., 93i:60022**
Rojo, Javier A pure-tail ordering based on the ratio of the quantile functions. **93c:60017**
Rösler, Uwe A fixed point theorem for distributions. (English summary) **93k:60038**
Ruiz-Rivas, C. *see* **Marco, J. M., 93k:60035**
Rüschendorf, L. *see* **Rachev, Svetlozar T., 93c:60015**
Ryabokon', V. A. *see* **Ostrovs'ka, S. İ., (93e:00014)**
Sandri, G. v. H. *see* **Ma, W. T.; et al., 93c:60014**
Sarabia Alegría, José María *see* **Arnold, Barry C.; et al., 93h:60018**
Sarkar, Sarben *see* **Ma, W. T.; et al., 93c:60014**
Scozzafava, P. Sum and difference modulo m between two independent random variables. (English, French and Italian summaries)
Sherwood, H. *see* **Mikusiński, Piotr; et al., 93g:60028**
Song, Ruiguang (*with* Buchberger, Steven G.; Deddens, James A.) Moments of variables summing to normal order statistics. (English summary) **93i:60029**
Stepakhno, V. I. On large samples of observations of random vectors of large dimension. (Russian. Ukrainian summary) **93b:60031**
— Sets of independent vectors in spaces of unboundedly increasing dimension. (Russian. Russian and Ukrainian summaries) **93j:60016**
Štěpán, Josef *see* **Beneš, Viktor, 93m:60030**
Stoikova, L. S. Consequences of necessary conditions for the extremum of the Stieltjes integral in a class of distribution functions. (Russian. English and Russian summaries) **93g:60029**
Subramanyam, K. (*with* Rao, M. Bhaskara) On the structure of $2 \times \infty$ bivariate distributions which are totally positive of order two. (English summary) **93g:60030**
— Some comments on positive quadrant dependence in three dimensions. (English summary) (*see* **93f:62004**)
Taylor, M. D. *see* **Mikusiński, Piotr; et al., 93g:60028**
Ulanovskiĭ, A. M. *see* **Ostrovskiĭ, I. V., 93a:60018**
Velikoivanenko, A. I. One-dimensional and multidimensional distributions of Pólya type. (Russian) **93f:60022**
Vitale, Richard A. On stochastic dependence and a class of degenerate distributions. (English summary) **93i:60030**
Yakovlev, A. Yu. *see* **Khanin, L. G.; et al., 93j:60015**

Yang, Xin Jian L^p integrability of densities of random vectors and its applications. (Chinese. English summary) **93d:60020**
Yanushkevichius, R. On the stability of characterizations of a mixture of probability distributions. **93k:60039**
Zhang, Shu Guang *see* **Kong, Fan Chao, 93c:60013**
Zinger, A. A. (*with* Kakosyan, A. V.; Klebanov, L. B.) A characterization of distributions by mean values of statistics and certain probabilistic metrics. **93g:60031**
Zolotarev, V. M. On analogs of the Hellinger metric. **93h:60020**

Items with secondary classifications in 60E05

Arnold, Barry C. (*with* Norton, Robert M.) On Cauchy-like distributions. (English summary) **93f:62012**
Barbour, A. D. (*with* Chen, Louis H. Y.) On the binary expansion of a random integer. **93g:11084**
Basalykas, Alfredas Some properties of distributions of polynomial forms. (Russian. English and Lithuanian summaries) **93e:60040**
Bhattacharyya, A. On a geometrical representation of probability distributions and its use in statistical inference. **93i:62014**
Casalis, Muriel Les familles exponentielles sur $\mathbf{R}^2$ de fonction-variance $V(m) = am \otimes m + B(m) + C$. (English summary) [Natural exponential families on $\mathbf{R}^2$ with variance-function $V(m) = am \otimes m + B(m) + C$] **93c:62021**
Chen, Louis H. Y. *see* **Barbour, A. D., 93g:11084**
Choi, Ki-Heon Asymptotic density of quadratic forms. (Korean summary) **93b:60040**
Chukova, S. (*with* Dimitrov, B.) On distributions having the almost-lack-of-memory property. **93k:62026**
Diaconis, Persi (*with* Zabell, S. L.) Closed form summation for classical distributions: variations on a theme of de Moivre. **93b:60001**
Dimitrov, B. *see* **Chukova, S., 93k:62026**
Fang, Kai Tai (*with* Kotz, Samuel; Ng, Kai W.) On the L_1-norm distributions. (English summary) (*see* **93k:62005**)
Fel'dman, G. M. ★ Arithmetic of probability distributions, and characterization problems on abelian groups. (English. English summary) **93m:60022**
Galambos, Janos (*with* Xu, Yuan) Regularly varying expected residual life and domains of attraction of extreme value distributions. **93c:60074**
van Harn, K. (*with* Steutel, F. W.) On a characterization of the exponential distribution. **93a:62014**
Jayakumar, K. (*with* Pillai, R. N.) The first-order autoregressive Mittag-Leffler process. (English summary)
Koldobskiĭ, A. L. The Schoenberg problem on positive-definite functions. (Russian) **93c:42014**
Kotz, Samuel *see* **Fang, Kai Tai; et al., (93k:62005)**
Lehmann, Erich Leo (*with* Rojo, Javier) Invariant directional orderings. (English summary) **93m:62010**
(Lyubarskiĭ, Yu. I.) *see* **Fel'dman, G. M., 93m:60022**
(de Moivre, Abraham) *see* **Diaconis, Persi, 93b:60001**
Mora, Marianne La convergence des fonctions variance des familles exponentielles naturelles. (English and French summaries) [Convergence of the variance functions of natural exponential families] **93g:60006**
Ng, Kai W. *see* **Fang, Kai Tai; et al., (93k:62005)**
Norton, Robert M. *see* **Arnold, Barry C., 93f:62012**
Pillai, R. N. *see* **Jayakumar, K.**
Prawitz, Håkan Noch einige Ungleichungen für charakteristische Funktionen. (English summary) [Inequalities for characteristic functions revisited] **93i:60032**
Razpet, Marko An application of elliptic integrals. (English summary) **93f:62019**
Rojo, Javier *see* **Lehmann, Erich Leo, 93m:62010**
Sato, Ken-iti On unimodality and mode behavior of Lévy processes. (*see* **93k:60008**)
Seshadri, Vanamamalai Finite mixtures of natural exponential families. (French summary) **93g:62024**
— General exponential models on the unit simplex and related multivariate inverse Gaussian distributions. (English summary) **93h:62023**
Steutel, F. W. *see* **van Harn, K., 93a:62014**
Xu, Yuan *see* **Galambos, Janos, 93c:60074**
Yanushkevichius, R. ★ Устойчивость характеризаций вероятностных распределений. (Russian) [Stability of characterizations of probability distributions] **93g:60056**
Zabell, S. L. *see* **Diaconis, Persi, 93b:60001**

60E07 Infinitely divisible distributions; stable distributions

Anderson, Dale N. A multivariate Linnik distribution. (English summary) **93e:60032**
Bar-Lev, Shaul K. (*with* Bshouty, Daoud; Enis, Peter; Ohayon, Avital Y.) Compositions and products of infinitely divisible variance functions. **93h:60021**
Braverman, M. Sh. Sequences of independent stable random variables with different exponents. (Russian) **93h:60022**
Bshouty, Daoud *see* **Bar-Lev, Shaul K.; et al., 93h:60021**
Cambanis, Stamatis (*with* Wu, Wei) Multiple regression on stable vectors. **93g:60032**
Christoph, Gerd (*with* Wolf, Werner) ★ Convergence theorems with a stable limit law. (English. English and German summaries) **93m:60032**
Csörgő, Sándor (*with* Dodunekova, Rositsa D.) Infinitely divisible laws partially attracted to a Poisson law. **93g:60033**
Dodunekova, Rositsa D. *see* **Csörgő, Sándor, 93g:60033**
Enis, Peter *see* **Bar-Lev, Shaul K.; et al., 93h:60021**
Gawronski, Wolfgang (*with* Wiessner, Martin) Asymptotics and inequalities for the mode of stable laws. **93d:60021**
Ghosh, Pankaj Multivariate stable distributions, a natural generalization of Cauchy law and some related questions. **93d:60022**
Jakševičius, Šarūnas On the values of the derivatives of a generating function at the origin. (Russian. English and Lithuanian summaries) **93h:60023**
Linde, Werner Gaussian measures of large balls in $\mathbf{R}^n$. **93c:60018**
Lisitskiĭ, A. D. The asymptotics of stable measures on $\mathbf{R}^n$ for small values of the exponent. **93m:60033**
Łuczak, Andrzej On some symmetry properties of infinitely divisible and operator-semistable measures. **93b:60032**
Melamed, Joseph A. Inequalities for the moments of ν-infinitely divisible laws and the characterization of probability distributions. **93g:60034**
Ohayon, Avital Y. *see* **Bar-Lev, Shaul K.; et al., 93h:60021**
Rachev, Svetlozar T. (*with* Sen Gupta, Ashis) Geometric stable distributions and Laplace-Weibull mixtures. (English summary) **93k:60040**
Samorodnitsky, Gennady (*with* Taqqu, Murad S.) Conditional moments and linear regression for stable random variables. **93b:60033**
Sen Gupta, Ashis *see* **Rachev, Svetlozar T., 93k:60040**
Shkol'nik, S. M. Modal properties of stable, nearly symmetric distributions. **93g:60035**
Takano, Katsuo On relations between the Pareto distribution and a differential equation. **93h:60024**
Taqqu, Murad S. *see* **Samorodnitsky, Gennady, 93b:60033**
Ulanovskiĭ, A. M. One-sided infinitely divisible measures uniquely determined by restrictions. (Russian) **93h:60025**
— Sets of uniqueness of infinitely divisible laws, and limit theorems on a half-line. (Russian. English summary) **93d:60023**
Watanabe, Toshiro On unimodal Lévy processes on the nonnegative integers. **93e:60033**
Wiessner, Martin *see* **Gawronski, Wolfgang, 93d:60021**
Wolf, Werner *see* **Christoph, Gerd, 93m:60032**
Wu, Wei *see* **Cambanis, Stamatis, 93g:60032**
Yamazato, Makoto On subclasses of infinitely divisible distributions on R related to hitting time distributions of 1-dimensional generalized diffusion processes. **93m:60034**
Zaitsev, A. Yu. On the approximation of convolutions by infinitely divisible distributions. **93i:60031**
Zeng, Wei Bin A note on stability of multivariate distributions. **93f:60023**

Items with secondary classifications in 60E07

Astrauskas, A. (*with* Lévy, J. B.; Taqqu, Murad S.) The asymptotic dependence structure of the linear fractional Lévy motion. (Russian and Lithuanian summaries) **93f:60049**
Bingham, Michael S. Convergence of approximate martingale arrays to mixtures of infinitely divisible distributions in locally compact abelian groups. (English summary) **93m:60016**
Čekanavičius, Vydas Approximation of mixtures of distributions. (Russian. English and Lithuanian summaries) **93d:60031**
Chistyakov, G. P. Approach of n-fold convolutions of distributions to infinitely divisible distributions. (Russian) **93b:60039**
Dattatraya, Kirkire Prashant A CLT when summands come randomly from r populations. (English summary) **93j:60021**
Florio, A. *see* **Lavenda, B. H., 93g:82049**
Koldobskiĭ, A. L. Generalized Lévy representation of norms and isometric embeddings into L_p-spaces. (English and French summaries) **93f:46040**
Kôno, Norio (*with* Maejima, Makoto) Hölder continuity of sample paths of some self-similar stable processes. **93a:60062**
Lavenda, B. H. (*with* Florio, A.) Derivation of a new class of distributions for the microcanonical ensemble. (English summary) **93g:82049**
Lee, Mei Ling Ting (*with* Whitmore, G. Alex) Stochastic processes directed by randomized time. (English summary) **93k:60183**
Levy, J. B. *see* **Astrauskas, A.; et al., 93f:60049**
Lifshits, M. A. On the norm distribution of Gaussian and other stable vectors. **93f:60007**
Łuczak, Andrzej Operator-semistable operator Lévy's measures on finite-dimensional vector spaces. **93a:60017**
Maejima, Makoto *see* **Kôno, Norio, 93a:60062**
Mori, Toshio Representation of linearly additive random fields. **93b:60103**
Nguyen Duc Tuan Classifying the infinitely divisible probability measures via generalized self-decomposable structure. (English summary) **93k:60037**
Pakes, Anthony G. A characterization of gamma mixtures of stable laws motivated by limit theorems. (English summary) **93i:60028**
Perman, Mihael (*with* Pitman, James W.; Yor, Marc) Size-biased sampling of Poisson point processes and excursions. **93d:60088**
Pitman, James W. *see* **Perman, Mihael; et al., 93d:60088**
Ravi, S. Tail equivalence of distribution functions belonging to the max domains of attraction of univariate p-max stable laws. **93e:60031**
Samorodnitsky, Gennady (*with* Taqqu, Murad S.) Construction of multiple stable measures and integrals using LePage representation. **93a:60084**
Sato, Ken-iti Distributions of class L and self-similar processes with independent increments. **93e:60081**
— Self-similar processes with independent increments. **93c:60056**
Sato, Yumiko (*with* Takenaka, Shigeo) On determinism of symmetric α-stable processes of generalized Chentsov type. **93k:60136**
Siebert, Eberhard Strongly operator-decomposable probability measures on separable Banach spaces. **93b:60015**
— Operator-decomposability of Gaussian measures on separable Banach spaces. **93d:60007**
Siegel, G. Exponents of operator stable distributions in Banach spaces. **93e:60013**
Takenaka, Shigeo *see* **Sato, Yumiko, 93k:60136**
Talagrand, Michel Necessary and sufficient conditions for sample continuity of random Fourier series and of harmonic infinitely divisible processes. **93g:60074**
Taqqu, Murad S. *see* **Samorodnitsky, Gennady, 93a:60084** *and* **Astrauskas, A.; et al., 93f:60049**
Tarieladze, V. I. On stable measures in spaces of random variables. (Russian) **93a:60009**
Urbanik, K. Limit laws for generalized convolutions. (English summary) **93m:60049**
Whitmore, G. Alex *see* **Lee, Mei Ling Ting, 93k:60183**
Yor, Marc *see* **Perman, Mihael; et al., 93d:60088**

60E10 Characteristic functions; other transforms

Aki, Sigeo Waiting time problems for a sequence of discrete random variables. (English summary) **93k:60041**

Barry, Michael J. J. (*with* Lo Bello, Anthony J.) The moment generating function of the geometric distribution of order k.
Chistyakov, G. P. *see* **Golinskiĭ, L. B., 93k:60042**
Gamkrelidze, N. G. On an inequality for a multidimensional characteristic function. (Russian) **93e:60034**
Gerstenkorn, Tadeusz Application of the compounding of distributions to the determination of characteristic function. (English summary) **93e:60035**
Golinskiĭ, L. B. (*with* Chistyakov, G. P.) On stability estimates in the Marcinkiewicz theorem and its generalization. **93k:60042**
Kosarchin, V. M. *see* **Kvīt, Ĭ. D.**
Kvīt, Ĭ. D. (*with* Kosarchin, V. M.) A random process as a convolution or an amplification. (Ukrainian. Russian summary)
Lo Bello, Anthony J. *see* **Barry, Michael J. J.**
Mattner, L. Completeness of location families, translated moments, and uniqueness of charges. **93f:60024**
Pakes, Anthony G. On characterizations through mixed sums. (English summary) **93k:60043**
Pillai, R. N. (*with* Satheesh, S.) α-inverse Gaussian distributions. (English summary)
Prawitz, Håkan Noch einige Ungleichungen für charakteristische Funktionen. (English summary) [Inequalities for characteristic functions revisited] **93i:60032**
Satheesh, S. *see* **Pillai, R. N.**
Streit, Franz On the characteristic functions of the Kotz type distributions. **93c:60019**

Items with secondary classifications in 60E10

Abate, Joseph (*with* Whitt, Ward) Solving probability transform functional equations for numerical inversion. (English summary) **93i:60163**
— (*with* Whitt, Ward) The Fourier-series method for inverting transforms of probability distributions. **93b:60002**
Aoshima, Makoto Asymptotic distributions of quasi-Wishart matrix and its latent roots in the heteroscedastic case. **93d:62102**
Botta, Robert F. *see* **Harris, Carl M.; et al., 93b:60214**
Brüggemann, Franz (*with* Jank, Gerhard; Volkmann, Lutz) A generalization of a theorem of Marcinkiewicz. **93e:30068**
Cambanis, Stamatis (*with* Wu, Wei) Multiple regression on stable vectors. **93g:60032**
Çapar, Uluğ Empirical characteristic functional analysis and inference in sequence spaces. (English summary) **93f:60006**
Csenki, Attila The joint distribution of sojourn times in finite semi-Markov processes. **93g:60188**
Gawronski, Wolfgang (*with* Wiessner, Martin) Asymptotics and inequalities for the mode of stable laws. **93d:60021**
Ghosh, Pankaj Multivariate stable distributions, a natural generalization of Cauchy law and some related questions. **93d:60022**
Harris, Carl M. (*with* Marchal, William G.; Botta, Robert F.) A note on generalized hyperexponential distributions. **93b:60214**
Jank, Gerhard *see* **Brüggemann, Franz; et al., 93e:30068**
Kuznětsova, O. M. On the extension of positive-definite functions on a ball in an infinite-dimensional sphere. (Russian. Russian and Ukrainian summaries) **93f:43005**
Lin, Kuo Tung Characterizations of distributions via moments. (English summary) **93j:62032**
Ma, Chung Sheng The order of a univariate elliptical distribution. (English summary) **93j:62033**
Marchal, William G. *see* **Harris, Carl M.; et al., 93b:60214**
Nishii, Ryuei Saddlepoint approximation for the distribution function of the mean of random variables. **93e:62051**
Shkol'nik, S. M. Modal properties of stable, nearly symmetric distributions. **93g:60035**
Teugels, Jozef L. *see* **Vanmarcke, Ann, 93h:60053**
Tikhomirov, A. N. On the accuracy of the normal approximation of the probability of sums of weakly dependent Hilbert-space-valued random variables hitting a ball. I. (Russian) **93e:60020**
Vanmarcke, Ann (*with* Teugels, Jozef L.) The region of convergence of the Laplace transform: almost sure estimation. **93h:60053**
Volkmann, Lutz *see* **Brüggemann, Franz; et al., 93e:30068**
Whitt, Ward *see* **Abate, Joseph, 93b:60002** *and* **93i:60163**
Wiessner, Martin *see* **Gawronski, Wolfgang, 93d:60021**
Wu, Wei *see* **Cambanis, Stamatis, 93g:60032**
Yurinskiĭ, V. V. On the asymptotics of large deviations in a Hilbert space. II. (Russian) **93e:60022**

60E15 Inequalities (Chebyshev, Kolmogorov, etc.)

Abu-Dayyeh, Walid (*with* Ahmed, Muhammad Salahuddin) A double inequality for the tail probability of standard normal distribution. (English summary)
Agbeko, N. K. On an inequality of Longnecker and Serfling. (Russian summary) **93a:60019**
Ahmed, Muhammad Salahuddin *see* **Abu-Dayyeh, Walid**
Bagro, S. V. Some probabilistic inequalities and a central limit theorem in function spaces. (Russian) **93h:60026**
Barbour, A. D. (*with* Chen, Louis H. Y.; Loh, Wei-Liem) Compound Poisson approximation for nonnegative random variables via Stein's method. (English summary) **93k:60044**
Bassan, Bruno (*with* Scarsini, Marco) On the comparison of pure jump processes. (French summary) **93g:60036**
Bélisle, Claude Odd central moments of unimodal distributions. **93a:60020**
Benjamini, Itai (*with* Peres, Yuval) A correlation inequality for tree-indexed Markov chains. **93g:60037**
Bergmann, Reinhard Stochastic orders and their application to a unified approach to various concepts of dependence and association. (English summary) **93k:60045**
Block, Henry W. (*with* Chhetry, D.; Fang, Zhao Ben; Sampson, Allan R.) Some new partial orderings on S_n and $S_n \times S_n$. **93c:60020**
Boland, Philip J. (*with* Proschan, Frank; Tong, Yung Liang) Some majorization inequalities for functions of exchangeable random variables. (English summary) **93i:60033**
— (*with* Proschan, Frank; Tong, Yung Liang) A stochastic ordering of partial sums of independent random variables and of some random processes. **93m:60035**
Borisov, I. S. Exponential inequalities for the distributions of von Mises and U-statistics. **93d:60024**
Brown, Mark On a correlation inequality and its applications. (English summary) **93i:60034**
Burton, Robert M., Jr. (*with* Dabrowski, André Robert) Positive dependence of exchangeable sequences. (English summary) **93g:60038**
Cacoullos, Theophilos (*with* Papathanasiou, V.) Lower variance bounds and a new proof of the central limit theorem. (English summary) **93k:60046**
Chan, Wai (*with* Proschan, Frank; Sethuraman, Jayaram) Convex-ordering among functions, with applications to reliability and mathematical statistics. (English summary) **93i:60035**
Chang, Cheng-Shang A new ordering for stochastic majorization: theory and applications. **93g:60039**
Chen, Louis H. Y. *see* **Barbour, A. D.; et al., 93k:60044**
Chhetry, D. *see* **Block, Henry W.; et al., 93c:60020**
Dabrowski, André Robert *see* **Burton, Robert M., Jr., 93g:60038**
Diaconis, Persi (*with* Perlman, Michael D.) Bounds for tail probabilities of weighted sums of independent gamma random variables. (English summary) **93i:60036**
Eaton, Morris L. (*with* Perlman, Michael D.) Multivariate probability inequalities: convolution theorems, composition theorems, and concentration inequalities. (English summary) **93h:60027**
Etemadi, N. Maximal inequalities for partial sums of independent random vectors with multi-dimensional time parameters. **93d:60025**
Fang, Zhao Ben *see* **Block, Henry W.; et al., 93c:60020**
Finner, Helmut A generalization of Hölder's inequality and some probability inequalities. (English summary) **93k:60047**
Fotopoulos, S. B. A note on the Doeblin-Lévy-Kolmogorov-Rogozin inequality for concentration functions with stationary random variables. (English summary) **93j:60017**
Galambos, Janos (*with* Xu, Yuan) Some optimal bivariate Bonferroni-type bounds. **93d:60026**
Glaz, Joseph A comparison of Bonferroni-type and product-type inequalities in presence of dependence. (English summary) **93j:60018**
Gonzacenco, Florin (*with* Mărgăritescu, Eugen; Vodă, Viorel Gh.) Statistical consequences of some old and new algebraic inequalities. (English summary) **93k:60048**
Grable, David A. Sharpened Bonferroni inequalities. (English summary) **93m:60036**
Hu, Nan Hua A note on stochastic ordering ($\leq_d$). (English and Chinese summaries) **93m:60037**
Hu, Tai Zhong Monotonicity of the probability of a rectangular region under a multinormal distribution with nonzero means. (English and Chinese summaries) **93m:60038**
Karlin, Samuel Stochastic comparisons between means and medians for i.i.d. random variables. (English summary) **93m:60039**
Khan, Rasul A. A remark on Dubins-Savage inequality. **93d:60027**
Koicheva, Maia On an inequality and the related characterization of the gamma distribution. (English summary) **93k:60049**
Kolchin, A. V. Some extremal properties of sums of independent random variables. (Russian) **93e:60036**
Łagodowski, Zbigniew A. Fuk inequalities for random fields of backward martingales. (Russian) **93a:60021**
Lee, Min-Young Bivariate Bonferroni inequalities. (English summary) **93h:60028**
Loh, Wei-Liem *see* **Barbour, A. D.; et al., 93k:60044**
Makowski, Armand M. (*with* Philips, Thomas K.) Stochastic convexity of sums of i.i.d. nonnegative random variables with applications. **93b:60034**
Mărgăritescu, Eugen *see* **Gonzacenco, Florin; et al., 93k:60048**
Metzger, C. (*with* Rüschendorf, L.) Conditional variability ordering of distributions. **93d:60028**
Naiman, Daniel Q. (*with* Wynn, Henry P.) Inclusion-exclusion-Bonferroni identities and inequalities for discrete tube-like problems via Euler characteristics. **93b:60035**
Papathanasiou, V. *see* **Cacoullos, Theophilos, 93k:60046**
de la Peña, Victor H. Decoupling and Khintchine's inequalities for U-statistics. (English summary) **93j:60019**
Peres, Yuval *see* **Benjamini, Itai, 93g:60037**
Perlman, Michael D. *see* **Eaton, Morris L., 93h:60027** *and* **Diaconis, Persi, 93i:60036**
Petrov, Valentin Vladimirovich Some inequalities for moments of sums of independent random variables. **93e:60037**
— Generalizations of Rosenthal's inequalities. **93d:60029**
Philips, Thomas K. *see* **Makowski, Armand M., 93b:60034**
Prakasa Rao, B. L. S. On mixing for flows of σ-algebras. (English summary) **93g:60040**
Proschan, Frank *see* **Boland, Philip J.; et al., 93i:60033; Chan, Wai; et al., 93i:60035** *and* **Boland, Philip J.; et al., 93m:60035**
Qian, Neng Sheng An inequality for partial sums of nonindependent random variables and its applications. (Chinese. English and Chinese summaries)
Righter, Rhonda (*with* Shanthikumar, J. George) Extension of the bivariate characterization for stochastic orders. **93b:60036**
Rüschendorf, L. *see* **Metzger, C., 93d:60028**
Sampson, Allan R. *see* **Block, Henry W.; et al., 93c:60020**
Scarsini, Marco *see* **Bassan, Bruno, 93g:60036**
Schmidt, Jeanette P. (*with* Siegel, Alan; Srinivasan, Aravind) Chernoff-Hoeffding bounds for applications with limited independence. (English summary) (*see* **93k:05002**)
Schmuckenschläger, M. Bernstein inequalities for a class of random variables. **93e:60038**
Seaman, John W., Jr. *see* **Turner, Danny W.; et al., 93g:60041**
Sethuraman, Jayaram *see* **Chan, Wai; et al., 93i:60035**
Shaked, Moshe (*with* Shanthikumar, J. George) Regular, sample path and strong stochastic convexity: a review. (English summary) **93h:60029**
Shanthikumar, J. George (*with* Yao, David D.) Bivariate characterization of some stochastic order relations. **93d:60030**
— *see also* **Righter, Rhonda, 93b:60036** *and* **Shaked, Moshe, 93h:60029**
Sidorenko, A. F. An unimprovable inequality for the sum of two symmetrically distributed random vectors. (Russian) **93c:60021**

Siegel, Alan *see* **Schmidt, Jeanette P.; et al., (93k:05002)**
Soms, Andrew P. A note on equality in Anderson's theorem. **93c:60022**
Srinivasan, Aravind *see* **Schmidt, Jeanette P.; et al., (93k:05002)**
Tong, Yung Liang *see* **Boland, Philip J.; et al., 93i:60033** *and* **93m:60035**
Turner, Danny W. (*with* Young, Dean M.; Seaman, John W., Jr.) Improved Kolmogorov inequalities for the binomial distribution. **93g:60041**
Vodă, Viorel Gh. *see* **Gonzacenco, Florin; et al., 93k:60048**
Wynn, Henry P. *see* **Naiman, Daniel Q., 93b:60035**
Xu, Yuan *see* **Galambos, Janos, 93d:60026**
Yao, David D. *see* **Shanthikumar, J. George, 93d:60030**
Young, Dean M. *see* **Turner, Danny W.; et al., 93g:60041**
Zheng, Yao Hui The new better than used in convex ordering properties of increasing Markov processes. (Chinese. English and Chinese summaries)
Zhu, Li Xing The probability inequalities for the supreme of the empirical processes and applications to the testing of data structure. **93e:60039**

Items with secondary classifications in 60E15

Alam, Khursheed (*with* Kulasekera, K. B.) Truncation error in the expansion of the distribution of a quadratic form. (English summary) **93k:62033**
Arjas, Elja (*with* Norros, Ilkka) Stochastic order and martingale dynamics in multivariate life length models: a review. (English summary) **93j:60061**
Bassily, N. L. On an inequality of M. J. Klass. **93b:60087**
— On two-sided inequalities for stopped random walks in Orlicz-spaces. **93d:60080**
Block, Henry W. (*with* Langberg, Naftali A.; Savits, Thomas H.) Repair replacement policies. (English summary) **93j:60129**
Borovskikh, Yu. V. *U-B*-statistics. (Russian) **93b:60017**
Braverman, M. Sh. Independent random variables in symmetric spaces. (Russian) **93h:60073**
Bryc, Włodzimierz (*with* Smoleński, W.) Moment conditions for almost sure convergence of weakly correlated random variables. **93k:60071**
Cao, Jin Hua (*with* Wang, Yue Dong) Correction: "The NBUC and NWUC classes of life distributions" [J. Appl. Probab. **28** (1991), no. 2, 473–479; MR 92h:62156]. **Chatterjee, Aditya** *see* **Mukherjee, S. P., 93e:62251**
Christoph, Gerd (*with* Wolf, Werner) ★ Convergence theorems with a stable limit law. (English. English and German summaries) **93m:60032**
Daley, D. J. (*with* Kreinin, A. Ya.; Trengove, C. D.) Inequalities concerning the waiting-time in single-server queues: a survey. (English summary) **93k:60224**
Defant, Martin (*with* Junge, Marius) Random variables in weak type p spaces. **93a:46018**
Dickey, James M. *see* **Lad, Frank; et al.**
Dow, Alan (*with* Simon, Petr) Thin-tall Boolean algebras and their automorphism groups. **93c:03065**
Dulá, José H. An upper bound on the expectation of simplicial functions of multivariate random variables. **93c:90050**
Eaton, Morris L. (*with* Perlman, Michael D.) Concentration inequalities for multivariate distributions. I. Multivariate normal distributions. **93d:62098**
Fang, Zhao Ben (*with* Joe, Harry) Further developments on some dependence orderings for continuous bivariate distributions. (English summary) **93j:62038**
Fishburn, Peter C. (*with* Shepp, Larry A.) On the FKB conjecture for disjoint intersections. **93a:05124**
Gaede, Karl-Walter Stochastic orderings in reliability. (English summary) (*see* **93g:60003**)
Gilat, David Some maximal moment-inequalities for martingales. **93f:60057**
Gordon, Yehoram Majorization of Gaussian processes and geometric applications. **93a:60059**
Heilmann, Wolf-Rüdiger (*with* Schröter, Klaus J.) Orderings of risks and their actuarial applications. (English summary) **93h:62187**
Joe, Harry *see* **Fang, Zhao Ben, 93j:62038**
Junge, Marius *see* **Defant, Martin, 93a:46018**
Kreinin, A. Ya. *see* **Daley, D. J.; et al., 93k:60224**
Kulasekera, K. B. *see* **Alam, Khursheed, 93k:62033**
Kuritsyn, Yu. G. *see* **Petunin, Yu. I.; et al., 93h:62060**
Lad, Frank (*with* Dickey, James M.; Rahman, Mohammad A.) Numerical application of the fundamental theorem of prevision. (English summary)
Langberg, Naftali A. *see* **Block, Henry W.; et al., 93j:60129**
Leader, Imre Discrete isoperimetric inequalities. **93j:60010**
Mamunya, L. A. *see* **Petunin, Yu. I.; et al., 93h:62060**
Massey, William A. Stochastic ordering for Markov processes on partially ordered spaces with applications to queueing networks. (English summary) **93h:60116**
Mattner, L. Covariance bounds for multivariate unimodal distributions and a characterization of uniformity. **93h:62104**
Melamed, Joseph A. Inequalities for the moments of ν-infinitely divisible laws and the characterization of probability distributions. **93g:60034**
Min'ko, A. A. *see* **Petunin, Yu. I.; et al., 93h:62060**
Mogul'skiĭ, A. A. de Finetti-type results for l_p. (Russian) **93b:60029**
Mukherjee, S. P. (*with* Chatterjee, Aditya) Stochastic dominance of higher orders and its implications. **93e:62251**
Nagaev, S. V. On a new approach to the study of the distribution of a norm of a random element in Hilbert space. **93d:60006**
Nechepurenko, M. I. ★ Интервальные оценки вероятностей с учетом степени зависимости событий. (Russian. English and Russian summaries) [Interval estimates for probabilities taking into account the degree of dependence of events] **93m:60027**
Nguyen Ngoc Cu On stopped random walks. **93b:60100**
Norros, Ilkka *see* **Arjas, Elja, 93j:60061**
Omey, E. (*with* Rachev, Svetlozar T.) Rates of convergence in multivariate extreme value theory. **93a:60033**
Perlman, Michael D. *see* **Eaton, Morris L., 93d:62098**
Petunin, Yu. I. (*with* Mamunya, L. A.; Min'ko, A. A.; Kuritsyn, Yu. G.; Yakut, L. I.) Confidence intervals that contain the main distributed mass of values of a general population. I. (Russian) **93h:62060**
Rachev, Svetlozar T. *see* **Omey, E., 93a:60033**
Rahman, Mohammad A. *see* **Lad, Frank; et al.**
Rojo, Javier A pure-tail ordering based on the ratio of the quantile functions. **93c:60017**
Samuel-Cahn, Ester A difference prophet inequality for bounded i.i.d. variables, with cost for observations. (English summary) **93h:60068**
Savits, Thomas H. *see* **Block, Henry W.; et al., 93j:60129**
Schmitz, Norbert J. Games against a prophet. **93b:90133**
Schröter, Klaus J. *see* **Heilmann, Wolf-Rüdiger, 93h:62187**
Shepp, Larry A. *see* **Fishburn, Peter C., 93a:05124**
Simon, Petr *see* **Dow, Alan, 93c:03065**
Smoleński, W. *see* **Bryc, Włodzimierz, 93k:60071**
Sreehari, M. *see* **Srivastava, Deo Kumar, 93f:62013**
Srivastava, Deo Kumar (*with* Sreehari, M.) Characterization results based on variance bounds. (English summary) **93f:62013**
Trengove, C. D. *see* **Daley, D. J.; et al., 93k:60224**
Vitale, Richard A. Covariances of symmetric statistics. **93f:62100**
Wang, Gang² Sharp inequalities for the conditional square function of a martingale. **93e:60087**
Wang, Yue Dong *see* **Cao, Jin Hua**
Wolf, Werner *see* **Christoph, Gerd, 93m:60032**
Yakut, L. I. *see* **Petunin, Yu. I.; et al., 93h:62060**
Yanagimoto, Takemi Dependence ordering in statistical models and other notions. (English summary) **93g:62026**
Yurinskiĭ, V. V. Exponential estimates of Bernstein type. (Russian) **93b:60020**

60E99 None of the above, but in this section

Baxter, Laurence A. (*with* Rachev, Svetlozar T.) The stability of a characterization of the bivariate Marshall-Olkin distribution. **93a:60022**
Dharmadhikari, A. D. (*with* Naik-Nimbalkar, U. V.) The importance of an item in a multistate system. **93a:60023**
Joag-Dev, Kumar Conditional negative dependence in stochastic ordering and interchangeable random variables. (English summary) **93g:60042**
Knott, Martin *see* **Smith, Cyril, 93a:60024**
Massey, William A. (*with* Whitt, Ward) A probabilistic generalization of Taylor's theorem. (English summary) **93m:60040**
Naik-Nimbalkar, U. V. *see* **Dharmadhikari, A. D., 93a:60023**
Rachev, Svetlozar T. *see* **Baxter, Laurence A., 93a:60022**
Smith, Cyril (*with* Knott, Martin) On Hoeffding-Fréchet bounds and cyclic monotone relations. **93a:60024**
Whitt, Ward *see* **Massey, William A., 93m:60040**

Items with secondary classifications in 60E99

Abdous, Belkacem (*with* Theodorescu, Radu) Note on the spatial quantile of a random vector. **93d:62094**
Baxter, Martin (*with* Williams, David) Symmetry characterizations of certain distributions. I. **93c:60121**
Goldreich, Oded (*with* Krawczyk, Hugo) Sparse pseudorandom distributions. **93b:68029**
Hanlon, Philip J. (*with* Stanley, Richard P.; Stembridge, John R.) Some combinatorial aspects of the spectra of normally distributed random matrices. **93j:05164**
Krawczyk, Hugo *see* **Goldreich, Oded, 93b:68029**
Lau, Ka-Sing (*with* Prakasa Rao, B. L. S.) Letter to the editor: "Characterization of the exponential distribution by the relevation transform" [J. Appl. Probab. **27** (1990), no. 3, 726–729; MR 91i:62026]. **93j:62031**
Maĭboroda, R. E. Projective estimates for changing concentrations of mixtures. (Ukrainian. Russian and Ukrainian summaries) **93j:62102**
Michta, M. Multivariate tail equivalence of distributions in extreme value theory. **93c:60025**
Prakasa Rao, B. L. S. *see* **Lau, Ka-Sing, 93j:62031**
Stanley, Richard P. *see* **Hanlon, Philip J.; et al., 93j:05164**
Stembridge, John R. *see* **Hanlon, Philip J.; et al., 93j:05164**
Theodorescu, Radu *see* **Abdous, Belkacem, 93d:62094**
Williams, David *see* **Baxter, Martin, 93c:60121**

60Fxx Limit theorems [see also 28Dxx, 60B12]

Items with secondary classifications in 60Fxx

Ledoux, Michel (*with* Talagrand, Michel) ★ Probability in Banach spaces. **93c:60001**
Talagrand, Michel *see* **Ledoux, Michel, 93c:60001**

60F05 Central limit and other weak theorems

Adler, André (*with* Rosalsky, Andrew) On the norming constants in the Feller-Khintchine-Lévy central limit theorem. (English summary) **93k:60050**
Babu, Gutti Jogesh *see* **Serinko, Regis J., 93k:60062**
Barbour, A. D. (*with* Holst, Lars; Janson, Svante) ★ Poisson approximation. **93g:60043**
Bartmańska, Barbara (*with* Szynal, Dominik) On Berry-Esseen theorem for some functions of U-statistics. **93b:60037**
Basalykas, Alfredas Some properties of distributions of polynomial forms. (Russian. English and Lithuanian summaries) **93e:60040**
Beirlant, Jan (*with* Teugels, Jozef L.) Limit distributions for compounded sums of extreme order statistics. **93k:60051**
— (*with* Vanmarcke, Ann) A note on Bahadur-Kiefer-type expansions for the inverse empirical Laplace transform. (English summary) **93j:60020**
Berman, Simeon M. Spectral conditions for sojourn and extreme value limit theorems for Gaussian processes. **93i:60037**
Besklinskaya, E. P. (*with* Kozachenko, Yu. V.) On the convergence of sums of Baxter type in Orlicz spaces. (Ukrainian. Russian and Ukrainian summaries)
— (*with* Kozachenko, Yu. V.) On the rate of convergence for sub-Gaussian random vectors of strict type in Lévy-Baxter-type theorems. (Russian)

Bhattacharya, Rabi N. (*with* Ghosh, Jayanta K.) A class of U-statistics and asymptotic normality of the number of k-clusters. (English summary) **93m:60041**

Borisov, I. S. Approximation of distributions of von Mises statistics with multidimensional kernels. (Russian) **93b:60038**

Bryc, Włodzimierz (*with* Peligrad, Magda) The central limit theorem for Tukey's $3R$ smoother. **93a:60025**

Buldygin, V. V. (*with* Zayats, V. V.) A limit theorem for an estimate for a correlation function under dual passage to the limit. (Russian. Russian summary) (*see* **93e:60002**)

Bulinskiĭ, A. V. Central limit theorem for the solution of the multidimensional Burgers equation with random data. **93f:60025**

Carrera, A. R. (*with* Martinez, M.; González, J. M.) Poisson approximation for independent Bernoulli summands using the semi-group operators theory. **93g:60044**

Čekanavičius, Vydas An approximation of integer-valued measures by generalized Poisson measures. **93g:60045**

— Approximation of mixtures of distributions. (Russian. English and Lithuanian summaries) **93d:60031**

Chandra, Tapas K. On extensions of a result of S. W. Dharmadhikari. **93a:60026**

Chen, Wen Zhong (*with* Zeng, Xiao Ming[2]) A local saturation theorem for the Feller-Trotter operator. (Chinese. English and Chinese summaries)

Chistyakov, G. P. Approach of n-fold convolutions of distributions to infinitely divisible distributions. (Russian) **93b:60039**

Choi, Ki-Heon Asymptotic density of quadratic forms. (Korean summary) **93b:60040**

Chow, Yuan Shih On the law of iterated logarithm and the central limit theorem for the numbers of runs. (English summary) **93i:60038**

Csáki, Endre On the increments of additive functionals. **93i:60039**

Csörgő, Miklós (*with* Gombay, Edit; Horváth, Lajos) Central limit theorems for L_p distances of kernel estimators of densities under random censorship. **93d:60032**

Csörgő, Sándor (*with* Viharos, László) Asymptotic distributions for vectors of power sums. **93i:60040**

Dasgupta, Ratan Nonuniform rates of convergence to the Poisson distribution. (English summary) **93k:60052**

— Rates of convergence to normality for some variables with entire characteristic function. (English summary) **93m:60042**

Dattatraya, Kirkire Prashant A CLT when summands come randomly from r populations. (English summary) **93j:60021**

Davidovich, M. I. Convergence of the Weibull-Gnedenko distribution to the extreme value distribution. (Russian. English and Russian summaries) **93j:60022**

Davidson, James A central limit theorem for globally nonstationary near-epoch dependent functions of mixing processes. (English summary) **93m:60043**

Deheuvels, Paul (*with* Einmahl, John H. J.) Approximations and two-sample tests based on P-P and Q-Q plots of the Kaplan-Meier estimators of lifetime distributions. (English summary) **93k:60053**

Dembo, Amir *see* **Karlin, Samuel, 93b:60042**

Deo, Chandrakant M. Weak convergence of empirical processes of dependent random vectors under logarithmic mixing rates. (English summary) **93k:60054**

Einmahl, John H. J. (*with* Mason, David M.) Generalized quantile processes. **93c:60023**

— Limit theorems for tail processes with application to intermediate quantile estimation. (English summary) **93m:60044**

— *see also* **Deheuvels, Paul, 93k:60053**

Ekisheva, S. V. (*with* Tikhomirov, A. N.) Normal approximation of the probability of sums of dependent random variables hitting a ball. (Russian. Russian summary) (*see* **93m:00034**)

Fenstad, Grete *see* **Hjort, Nils Lid, 93f:60029**

Frees, Edward W. Linear regression and U-statistics. (English summary) **93g:60046**

Gänssler, Peter (*with* Joos, Konrad) Another view on martingale central limit theorems. **93f:60026**

Ghosh, Jayanta K. *see* **Bhattacharya, Rabi N., 93m:60041**

Giraitis, L. (*with* Surgailis, Donatas) On shot noise processes attracted to fractional Lévy motion. **93a:60027**

Glynn, Peter W. (*with* Sigman, Karl) Uniform Cesàro limit theorems for synchronous processes with applications to queues. **93b:60041**

Gombay, Edit *see* **Csörgő, Miklós; et al., 93d:60032**

González, J. M. *see* **Carrera, A. R.; et al., 93g:60044**

Gudynas, Pranas P. Refinements of the central limit theorem for homogeneous Markov chains. (Russian) **93f:60027**

Gut, Allan The weak law of large numbers for arrays. **93a:60028**

Hahn, Marjorie G. (*with* Weiner, Daniel Charles) Asymptotic behavior of self-normalized trimmed sums: nonnormal limits. **93e:60041**

— (*with* Weiner, Daniel Charles) Asymptotic behavior of self-normalized trimmed sums: nonnormal limits. II. **93e:60042**

Hall, Peter Gavin Convergence rates in the central limit theorem for means of autoregressive and moving average sequences. (English summary) **93m:60045**

Han, Dong A limit theorem for sums of independent random variables under the condition of asymptotic infinite smallness. (Chinese. English and Chinese summaries)

Hebda-Grabowska, Halina On the rate of convergence to Brownian motion of the partial sums of infima of independent random variables. **93f:60028**

Herrmann, Horst Continuation of convergence for distribution functions of sums of weakly dependent random variables. **93a:60029**

Hildebrand, Adolf A note on the convergence of sums of independent random variables. (English summary) **93g:60047**

Hjort, Nils Lid (*with* Fenstad, Grete) On the last time and the number of times an estimator is more than ε from its target value. **93f:60029**

den Hollander, Frank (*with* Hooghiemstra, G.; Keane, Michael S.; Resing, J.) Strong law and central limit theorem for a process between maxima and sums. **93a:60030**

Holst, Lars *see* **Barbour, A. D.; et al., 93g:60043**

Hooghiemstra, G. *see* **den Hollander, Frank; et al., 93a:60030**

Horváth, Lajos Weak convergence of discrete scattering processes. **93a:60031**

— *see also* **Csörgő, Miklós; et al., 93d:60032**

Huang, Da Wei Central limit theorem for two-parameter martingale differences with application to stationary random fields. (English summary) **93j:60023**

Hüsler, J. Dependence in multivariate extreme values. (English summary) **93g:60048**

İnal, Ceyhan On the limiting distribution for Bernoulli trials within a Markov chain context. (English summary)

Iosifescu, Marius On U-statistics and von Mises statistics for a special class of Markov chains. **93h:60030**

Janson, Svante *see* **Barbour, A. D.; et al., 93g:60043**

Januškevičienė, O. On limit distributions of inhomogeneous random symmetric polynomials of degree three. **93f:60030**

Joos, Konrad *see* **Gänssler, Peter, 93f:60026**

Kanagawa, S. (*with* Mochizuki, Y.; Tanaka, Hiroshi[1]) Limit theorems for the minimum interpoint distance between any pair of i.i.d. random points in $\mathbf{R}^d$. **93h:60031**

Karlin, Samuel (*with* Dembo, Amir) Limit distributions of maximal segmental score among Markov-dependent partial sums. **93b:60042**

Kartashov, N. V. Inequalities in the Rényi theorem. (Russian) **93k:60055**

Kasahara, Yuji (*with* Maejima, Makoto) Limit theorems for trimmed sums. (English summary) **93k:60056**

Keane, Michael S. *see* **den Hollander, Frank; et al., 93a:60030**

Kennedy, Douglas P. (*with* Kertz, Robert P.) Comparisons of optimal stopping values and expected suprema for i.i.d. r.v.'s with costs and discounting. **93j:60024**

Kersting, Götz Asymptotic Γ-distribution for stochastic difference equations. **93d:60033**

Kertz, Robert P. *see* **Kennedy, Douglas P., 93j:60024**

Kir'yanova, L. V. Nonclassical estimates for the accuracy of the normal approximation for martingales. (Russian. Russian summary) **93m:60046**

Klebanov, L. B. (*with* Melamed, Joseph A.; Umarov, A. Yu.) An analogue of A. N. Kolmogorov's uniform limit theorem under summation of a geometric number of random variables. (Russian. English and Georgian summaries)

Kohatsu-Higa, Arturo Weak convergence of infinite order U-processes. **93a:60032**

Korolev, V. Yu. The asymptotics of randomly indexed random sequences: independent indices. **93g:60049**

Kozachenko, Yu. V. (*with* Stadnik, A. I.) Convergence of some functionals of Gaussian vectors in Orlicz spaces. (Russian) **93d:60034**

— *see also* **Besklinskaya, E. P.**

Kratz, Marie-France Approximation poissonnienne relative du processus empirique. (English and French summaries) [Relative Poisson approximation of the empirical process]

Kubilius, K. On the rate of convergence of the distributions of semimartingales to the distribution of stable process. **93c:60024**

— On the rate of convergence in the multidimensional CLT for martingales. (Russian and Lithuanian summaries) **93g:60050**

Leonenko, N. N. Limit distributions of measures of sojourns of vector Gaussian fields with strong dependence. **93e:60043**

— (*with* Olenko, A. Ya.) Tauberian and abelian theorems for Hankel-type transformations, and limit theorems for functionals of random fields. (Russian. English summary) **93b:60043**

López-Mimbela, J. Alfredo Fluctuation limits of multitype branching random fields. **93b:60044**

Lotov, V. I. Asymptotic expansions for the CUSUM procedure in a change point problem. (English summary) **93k:60057**

Lu, Chuan Rong A uniform central limit theorem for set-indexed partial sum processes when the variance is infinite. **93e:60044**

Lu, Wei[2] (*with* Shi, Xi Quan[1]) Berry-Esseen bound for jackknifing function of U-statistics. (English summary) **93g:60051**

Maejima, Makoto (*with* Morita, Yuko) Trimmed sums of mixing triangular arrays with stationary rows. (English summary) **93i:60041**

— *see also* **Kasahara, Yuji, 93k:60056**

Maesono, Yoshihiko (*with* Yamato, Hajime) U-statistics and related topics. (Japanese) **93h:60032**

Majsnerowska, M. A note on mixed Poisson approximation. (English summary) **93k:60058**

Maksimov, K. N. Limit distribution of the terms of the order statistics of runs in a Markov chain. (Russian. Russian summary) **93g:60052**

Martinez, M. *see* **Carrera, A. R.; et al., 93g:60044**

Mason, David M. (*with* Shorack, Galen R.) Necessary and sufficient conditions for asymptotic normality of L-statistics. (English summary) **93k:60059**

— *see also* **Einmahl, John H. J., 93c:60023**

Melamed, Joseph A. *see* **Klebanov, L. B.; et al.**

Michta, M. Multivariate tail equivalence of distributions in extreme value theory. **93c:60025**

Mirakhmedov, Sh. A. Probabilities of moderate deviations in limit theorems for conditional distributions of sums of independent random variables. (Russian) **93g:60053**

Mnatsakanov, R. M. Limit theorems for some random processes based on frequencies. (English summary) **93h:60033**

Mochizuki, Y. *see* **Kanagawa, S.; et al., 93h:60031**

Mohan, N. R. (*with* Ravi, S.) On scale and exponent functions of a class of limiting processes. (English summary) **93g:60054**

— A unified criterion for the local uniform convergence of the density of the maximum. **93i:60042**

Morita, Yuko *see* **Maejima, Makoto, 93i:60041**

Mukhin, A. B. Local limit theorems for lattice random variables. (Russian) **93e:60045**

Mutafchiev, Lyuben R. Local limit theorems for sums of power series distributed random variables and for the number of components in labelled relational structures. (English summary) **93k:60060**

Nakhapetyan, B. S. ★ Limit theorems and some applications in statistical physics. **93b:60045**

Nechaev, S. K. (*with* Sinaĭ, Ya. G.) Limiting-type theorem for conditional distributions of products of independent unimodular 2×2 matrices. **93d:60035**

Nieuwenhuis, Gert Central limit theorems for sequences with $m(n)$-dependent main part. (English summary) **93i:60043**

Novak, S. Yu. The rate of convergence in a problem on the maximum of the lengths of runs of "successes". (Russian) **93c:60026**

— Longest runs in a sequence of m-dependent random variables. **93b:60046**

N'zi, Modeste (*with* Theodorescu, Radu) Anscombe's condition revisited. (English summary) **93i:60044**
Olenko, A. Ya. *see* **Leonenko, N. N., 93b:60043**
Oliveira, M. F. *see* **Turkman, K. F., 93a:60035**
Omey, E. (*with* Rachev, Svetlozar T.) Rates of convergence in multivariate extreme value theory. **93a:60033**
Ostrovskiĭ, E. I. Exact asymptotics of the density of the distribution of multiple stochastic integrals. (Russian. Russian summary) **93j:60025**
Pan, Jia Zhu The joint limiting distribution of maxima and minima of weakly mixing sequences. (Chinese. English and Chinese summaries)
Pap, Gyula A new proof of the central limit theorem on stratified Lie groups. **93m:60047**
Peligrad, Magda *see* **Bryc, Włodzimierz, 93a:60025**
Petrov, Valentin Vladimirovich Limit theorems of classical type for sums of independent random variables. (Russian) **93b:60047**
Phillips, Peter C. B. (*with* Solo, Victor) Asymptotics for linear processes. **93k:60061**
Plucińska, Agnieszka (*with* Pluciński, E.) A note on central limit theorem for processes with the linear regression. (*see* **93a:60004**)
— Some limit properties of processes with the linear regression. **93b:60048**
Pluciński, E. *see* **Plucińska, Agnieszka, (93a:60004)**
Pollard, David ★ Empirical processes: theory and applications. **93e:60046**
Pratelli, Luca Sur la convergence vers la loi de Poisson. (English summary) [On convergence to the Poisson distribution] **93f:60031**
— Une condition nécessaire et suffisante pour la convergence vers la loi normale. (English and French summaries) [A necessary and sufficient condition for convergence to the normal distribution] **93i:60045**
Presman, È. L. (*with* Rachkova, S. B.) On the best parameter of Poisson approximation of a sum by independent Bernoulli variables. (Russian) (*see* **93b:60003**)
Prokhorov, Yu. V. Estimation of the variation of generalized measures that arise in connection with the central limit theorem. (Russian) **93b:60049**
Puri, Prem S. (*with* Robertson, James B.; Sinha, Kalyan B.) A matrix limit theorem with applications to probability theory. (English summary) **93f:60032**
Rachev, Svetlozar T. *see* **Omey, E., 93a:60033**
Rachkova, S. B. *see* **Presman, È. L., (93b:60003)**
Ravi, S. *see* **Mohan, N. R., 93g:60054**
Resing, J. *see* **den Hollander, Frank; et al., 93a:60030**
Robertson, James B. *see* **Puri, Prem S.; et al., 93f:60032**
Rosalsky, Andrew *see* **Adler, André, 93k:60050**
Rosen, Jay Renormalization and limit theorems for self-intersections of superprocesses. (English summary) **93h:60034**
Rotar', V. I. (*with* Sholomitskiĭ, A. G.) A condition for the convergence of convolutions. (Russian)
Rozovskiĭ, L. V. On the accuracy of the approximation of the distribution function of the sum of independent random variables. (Russian) **93i:60046**
— Once again on the rate of convergence in the weak law of large numbers. (Russian. Russian summary) **93e:60047**
Sadooghi-Alvandi, S. M. A proof of the continuity theorem for characteristic functions. (English summary) **93j:60026**
Serinko, Regis J. (*with* Babu, Gutti Jogesh) Weak limit theorems for univariate k-mean clustering under a nonregular condition. **93k:60062**
Sharakhmetov, Sh. r-independent random variables and multiplicative systems. (Russian. English and Ukrainian summaries)
Shergin, V. V. The central limit theorem for finitely dependent random variables. **93c:60027**
Shi, Xi Quan[1] *see* **Lu, Wei[2], 93g:60051**
Sholomitskiĭ, A. G. *see* **Rotar', V. I.**
Shorack, Galen R. *see* **Mason, David M., 93k:60059**
Sigman, Karl *see* **Glynn, Peter W., 93b:60041**
Sinai, Ya. G. *see* **Nechaev, S. K., 93d:60035**
Sinha, Kalyan B. *see* **Puri, Prem S.; et al., 93f:60032**
Skorokhod, A. V. (*with* Stepakhno, V. I.) Asymptotic properties of the correlation operator for the multivariate random vectors. (*see* **93k:60008**)
Solo, Victor *see* **Phillips, Peter C. B., 93k:60061**
Stadnik, A. I. *see* **Kozachenko, Yu. V., 93d:60034**
Stepakhno, V. I. Limit distributions for Hermite polynomials of independent Gaussian vectors. (Russian. English summary) **93c:60028**
— *see also* **Skorokhod, A. V., (93k:60008)**
Stute, Winfried Conditional U-statistics. **93e:60048**
Sunklodas, Jonas Approximation of distributions of sums of weakly dependent random variables by the normal distribution. (Russian) **93b:60050**
Surgailis, Donatas *see* **Giraitis, L., 93a:60027**
Szynal, Dominik *see* **Bartmańska, Barbara, 93b:60037**
Szyszkowicz, Barbara Asymptotic distributions of weighted pontograms under contiguous alternatives. **93g:60055**
— Asymptotic distributions of weighted compound Poisson bridges. **93m:60048**
Tanaka, Hiroshi[1] *see* **Kanagawa, S.; et al., 93h:60031**
Taqqu, Murad S. *see* **Terrin, Norma, 93a:60034** *and* **93d:60036**
Terrin, Norma (*with* Taqqu, Murad S.) Quadratic forms with long-range dependence. **93a:60034**
— (*with* Taqqu, Murad S.) Convergence to a Gaussian limit as the normalization exponent tends to $\frac{1}{2}$. **93d:60036**
Teugels, Jozef L. *see* **Beirlant, Jan, 93k:60051**
Theodorescu, Radu *see* **N'zi, Modeste, 93i:60044**
Tikhomirov, A. N. *see* **Ekisheva, S. V., (93m:00034)**
Tikhomirova, M. I. Asymptotic normality of the number of nonappearing s-chains. (Russian. Russian summary) **93i:60047**
Touati, A. Sur la convergence en loi fonctionnelle de suites de semimartingales vers un mélange de mouvements browniens. **93f:60033**
Turkman, K. F. (*with* Oliveira, M. F.) Limit laws for the maxima of chain-dependent sequences with positive extremal index. **93a:60035**
Umarov, A. Yu. *see* **Klebanov, L. B.; et al.**
Urbanik, K. Spectrum trimming operations. **93i:60048**
— Limit laws for generalized convolutions. (English summary) **93m:60049**
Utev, S. A. Central limit theorem for dependent random variables. **93a:60036**
Valkeila, Esko A note on the convergence of moments and the martingale central limit theorem. **93e:60049**
Vanmarcke, Ann *see* **Beirlant, Jan, 93j:60020**
Viharos, László *see* **Csörgő, Sándor, 93i:60040**
Vilimas, V. On limiting behaviour of sums and maxima when tails are slowly varying. (Lithuanian summary) **93m:60050**
Vinogradov, V. V. On logarithmic refining terms in limit theorems taking into account large deviations of sums of independent random variables. **93i:60049**
Volný, Dalibor The central limit problem for composed arrays of martingale differences. (English summary) **93k:60063**
Volodin, N. A. Random summation of independent identically distributed random vectors with zero means. **93c:60029**
Wang, Qi Ying Two-sided bounds for the rate of convergence to asymptotic normality of U-statistics. (Chinese. English summary)
Wang, Xiao Ming Joint asymptotic distributions of order statistics with variable ranks from stationary random sequences. (Chinese. English and Chinese summaries) **93j:60027**
Weiner, Daniel Charles Center, scale and asymptotic normality for censored sums of independent, non-identically distributed random variables. **93b:60051**
— *see also* **Hahn, Marjorie G., 93e:60041** *and* **93e:60042**
Woodroofe, Michael A central limit theorem for functions of a Markov chain with applications to shifts. **93d:60037**
Wu, Tiee-Jian Contiguous alternatives which preserve L_1-nonuniform central limit bounds for a general class of statistics. (English summary) **93j:60028**
Yamato, Hajime *see* **Maesono, Yoshihiko, 93h:60032**
Yanushkevichius, R. ★ Устойчивость характеризаций вероятностных распределений. (Russian) [Stability of characterizations of probability distributions] **93g:60056**
Yoshihara, Ken-ichi Limiting behavior of generalized quadratic forms generated by regular sequences. III. (English summary) **93m:60051**
Zaitsev, A. Yu. Approximation of convolutions of probability distributions by infinitely divisible laws under weakened moment constraints. (Russian. Russian summary) **93k:60064**
Zayats, V. V. *see* **Buldygin, V. V., (93e:60002)**
Zeng, Xiao Ming[2] *see* **Chen, Wen Zhong**
Zhang, Yi[3] The nonuniform rate of the U-statistics distribution. (Chinese. English and Chinese summaries)
Zolotarev, V. M. Reflection on the classical theory of limit theorems. I. (Russian) **93b:60052**
Zuparov, T. M. The rate of convergence in the central limit theorem for weakly dependent variables. (Russian) **93c:60030**

Items with secondary classifications in 60F05

Abadov, Z. A. *see* **Sil'vestrov, D. S., 93h:60104**
Alimov, D. A remark on limit distributions of integral functionals of an ergodic Markov process. (Russian. Ukrainian summary) **93b:60158**
— Convergence of integral functionals of limit-degenerate Markov functionals. (Russian. English and Russian summaries) **93g:60154**
— Three examples of Markovian functionals. (Russian. Russian and Ukrainian summaries) **93j:60101**
Alsmeyer, Gerold On generalized renewal measures and certain first passage times. (English summary) **93i:60089**
Aly, Emad-Eldin A. A. On the convergence of an Anderson-Darling statistic based on normalized spacings. **93b:62070**
Anisimov, Vladimir Vladislavovich The averaging principle for switching processes. (Ukrainian. Russian and Ukrainian summaries) **93k:60219**
Arcones, Miguel A. (*with* Giné, Evarist) On the bootstrap of U and V statistics. **93f:62021**
Arratia, Richard (*with* Tavaré, Simon) Limit theorems for combinatorial structures via discrete process approximations. **93g:60014**
Arzumanyan, V. A. (*with* Nakhapetyan, B. S.; Pogosyan, S. K.) A local limit theorem for the number of particles in lattice spin systems. (Russian. English summary) **93d:82007**
Asmussen, Søren On coupling and weak convergence to stationarity. (English summary) **93k:60180**
Athreya, K. B. (*with* Fuh, C. D.) Bootstrapping Markov chains: countable case. (English summary) **93j:62113**
Babu, Gutti Jogesh (*with* Rao, Calyampudi Radhakrishna) Expansions for statistics involving the mean absolute deviations. (English summary) **93m:62038**
Basu, Sujit Kumar (*with* Mukerjee, Rahul) Optimum ordering policy in a bicomponent inventory model: statistical aspects.
Beirlant, Jan (*with* Deheuvels, Paul; Einmahl, John H. J.; Mason, David M.) Bahadur-Kiefer theorems for uniform spacings processes. **93g:60061**
Berman, Simeon M. Central limit theorems for extreme sojourns of stationary Gaussian processes. **93b:60073**
Berred, Mohamed On record values and the exponent of a distribution with regularly varying upper tail. **93h:60079**
Bickel, Peter J. (*with* Millar, P. W.) Uniform convergence of probability measures on classes of functions. **93g:60005**
Bleher, Pavel M. (*with* Major, Péter) Renormalization of Dyson's vector-valued hierarchical model at low temperatures. **93k:82024**
— Statistical properties of a particle moving in a periodic scattering billiard. **93f:58131**
Bloznelis, M. On the distribution of the norm for a multidimensional Brownian bridge. (Russian and Lithuanian summaries) **93g:60171**
Booth, James G. A note on a one-compartment model with clustering. **93j:60138**
Borovskikh, Yu. V. UB-statistics. (Russian) **93b:60017**
— *see also* **Korolyuk, V. S., 93a:60013**
Bouhaik, Mostafa (*with* Gallardo, Léonard) Un théorème limite central dans un hypergroupe bidimensionnel. (English summary) [A central limit theorem in a two-dimensional hypergroup] **93e:43001**
Bradley, Richard C. On the spectral density and asymptotic normality of weakly dependent

random fields. **93e:60094**

Braverman, M. Sh. Sequences of independent stable random variables with different exponents. (Russian) **93h:60022**

Buldygin, V. V. (*with* Mel′nik, V. N.) Lévy-Baxter theorems for stochastic integrals. (Russian. English summary) **93b:60110**

Bulinskiĭ, A. V. (*with* Molchanov, S. A.) Asymptotic Gaussian property of the solution of the Burgers equation with random initial data. (Russian) **93c:60090**

Bunge, J. A. (*with* Nagaraja, H. N.) Dependence structure of Poisson-paced records. **93m:60100**

Bykov, S. I. Conditions for asymptotic normality of the statistics μ_r in a multinomial scheme. (Russian) (*see* **93b:60003**)

Cacoullos, Theophilos (*with* Papathanasiou, V.) Lower variance bounds and a new proof of the central limit theorem. (English summary) **93k:60046**

Chen, Louis H. Y. (*with* Choi, Kwok Pui) Some asymptotic and large deviation results in Poisson approximation. (English summary) **93k:60067**

Choi, Kwok Pui *see* **Chen, Louis H. Y., 93k:60067**

Christoph, Gerd (*with* Wolf, Werner) ★ Convergence theorems with a stable limit law. (English. English and German summaries) **93m:60032**

Cogburn, R. (*with* Ellison, J. A.) A stochastic theory of adiabatic invariance. (English summary) **93j:34083**

Csörgő, Miklós (*with* Horváth, Lajos) Invariance principles for logarithmic averages. **93e:60057**

Csörgő, Sándor (*with* Dodunekova, Rositsa D.) Infinitely divisible laws partially attracted to a Poisson law. **93g:60033**

— (*with* Mason, David M.) Intermediate- and extreme-sum processes. **93d:60092**

Davydov, Yu. A. Convergence in variation of images of one-dimensional measures. (Russian. Russian summary) **93k:60012**

Deheuvels, Paul On the limiting behavior of the Pickands estimator for bivariate extreme-value distributions. **93g:62069**

— (*with* Steinebach, Josef) On the limiting behavior of the Bahadur-Kiefer statistic for partial sums and renewal processes when the fourth moment does not exist. **93d:60041**

— *see also* **Beirlant, Jan; et al., 93g:60061**

Deriev, I. I. A central limit theorem for nonlinear functionals of Gaussian random fields. (Russian) (*see* **93k:00038**)

Dodunekova, Rositsa D. *see* **Csörgő, Sándor, 93g:60033**

Doney, R. A. (*with* O'Brien, George L.) Thickened renewal processes. (English summary) **93k:60215**

Doukhan, Paul (*with* Gassiat, Élisabeth) Quadratic deviation of penalized mean squares regression estimates. **93i:62042**

Einmahl, John H. J. The a.s. behavior of the weighted empirical process and the LIL for the weighted tail empirical process. **93e:60058**

— *see also* **Beirlant, Jan; et al., 93g:60061**

Ellis, Richard S. (*with* Wang, Kong Ming) Limit theorems for maximum likelihood estimators in the Curie-Weiss-Potts model. **93c:62046**

Ellison, J. A. *see* **Cogburn, R., 93j:34083**

Foster, Damien P. (*with* Vanderzande, Carlo; Yeomans, Julia) Zero-temperature properties of randomly self-interacting polymers. (English summary) **93j:82031**

Freidlin, Mark I. (*with* Sowers, Richard B.) Central limit theorem results for a reaction-diffusion equation with fast-oscillating boundary perturbations. **93i:60150**

Fuh, C. D. *see* **Athreya, K. B., 93j:62113**

Gallardo, Léonard *see* **Bouhaik, Mostafa, 93e:43001**

Gamkrelidze, N. G. On an inequality for a multidimensional characteristic function. (Russian) **93e:60034**

Gardy, Danièle Normal limiting distributions for projection and semijoin sizes. **93a:05011**

— Méthode de col et lois limites en analyse combinatoire. [The saddle method and limit laws in combinatorial analysis] **93f:60012**

Gassiat, Élisabeth *see* **Doukhan, Paul, 93i:62042**

Gill, Richard D. *see* **Heesterman, C. C., 93h:62055**

Giné, Evarist *see* **Arcones, Miguel A., 93f:62021**

Glynn, Peter W. (*with* Heidelberger, Philip) Analysis of initial transient deletion for parallel steady-state simulations. **93c:68110**

Godbole, Anant P. (*with* Gornowicz, Michelle C.) Exact and approximate runs distributions. (English summary) **93m:60026**

Gornowicz, Michelle C. *see* **Godbole, Anant P., 93m:60026**

Gudynas, Pranas P. (*with* Sakalauskas, L. L.) Distribution of extrema of multidimensional Gaussian sequences. (Russian. Russian and Lithuanian summaries) **93k:60131**

Gut, Allan Limit theorems for record times. **93c:60075**

Haario, Heikki (*with* Saksman, Eero) Simulated annealing process in general state space. **93e:60146**

Hahn, Marjorie G. (*with* Weiner, Daniel Charles) On joint estimation of an exponent of regular variation and an asymmetry parameter for tail distributions. **93f:62053**

Hallin, Marc (*with* Puri, Madan L.) Some asymptotic results for a broad class of nonparametric statistics. (English summary) **93k:62030**

Hamana, Yuji On the central limit theorem for the multiple point range of random walk. (English summary) **93h:60112**

— The variance of the single point range of two-dimensional recurrent random walk. **93k:60173**

Hambly, B. M. On the limiting distribution of a supercritical branching process in a random environment. **93h:60132**

Harel, Michel (*with* O'Cinneide, Colm A.; Schneider, Helmut) Comportement asymptotique de la fonction de renouvellement. (English and French summaries) [Asymptotic behavior of the sample renewal function] **93g:60186**

Hazod, W. Semistability and domains of attraction on compact extensions of nilpotent groups. **93k:60021**

Heesterman, C. C. (*with* Gill, Richard D.) A central limit theorem for M-estimators by the von Mises method. (English summary) **93h:62055**

Heidelberger, Philip *see* **Glynn, Peter W., 93c:68110**

Horváth, Lajos *see* **Csörgő, Miklós, 93e:60057**

Hu, Nan Hua A note on stochastic ordering ($\leq_d$). (English and Chinese summaries) **93m:60037**

Inoue, Tomoki (*with* Ishitani, Hiroshi) Ergodic properties of nonsingular transformations with asymptotically periodic densities. **93g:28016**

Ishitani, Hiroshi *see* **Inoue, Tomoki, 93g:28016**

Janson, Svante (*with* Nowicki, Krzysztof) The asymptotic distributions of generalized U-statistics with applications to random graphs. **93b:62021**

Janžura, Martin Asymptotic normality of linear-quadratic statistics for Gaussian random fields. **93i:62084**

Jensen, D. R. Invariance under dependence by mixing. (English summary) **93i:60024**

Ji, D. M. (*with* Yin, Gang George) Weak convergence of term structure movements and the connection of prices and interest rates. (English summary)

Kallenberg, Wilbert C. M. *see* **Kroese, Dirk P., 93k:60217**

Kallianpur, Gopinath (*with* Mitoma, Itaru) A Segal-Langevin type stochastic differential equation on a space of generalized functionals. (English summary) **93m:46044**

Kel′bert, M. Ya. (*with* Sukhov, Yu. M.) Nonlinear law of large numbers and Gaussian fluctuation for star-like networks. **93b:60219**

Keller, Gerhard (*with* Nowicki, Tomasz) Spectral theory, zeta functions and the distribution of periodic points for Collet-Eckmann maps. (English summary) **93i:58123**

Key, Eric S. Rare numbers. **93e:60060**

Kinateder, John G. An invariance principle applicable to the bootstrap. **93m:62095**

Klebanov, L. B. (*with* Melamed, Joseph A.) Generalized Marcinkiewicz's theorem and asymptotic expansions in the central limit theorem. (English summary) **93h:60019**

Kolchinskiĭ, V. I. On the accuracy of the approximation of an empirical process by a Brownian bridge. (Russian) **93a:60012**

Korolev, V. Yu. *see* **Kruglov, V. M., 93c:60048**

Korolyuk, V. S. (*with* Borovskikh, Yu. V.) Weak convergence of distributions of UH-statistics to stable laws. (Russian) **93a:60013**

Kroese, Dirk P. (*with* Kallenberg, Wilbert C. M.) Second-order asymptotics in level crossing for differences of renewal processes. **93k:60217**

Kruglov, V. M. (*with* Korolev, V. Yu.) Convergence of moments of randomly indexed random sequences. **93c:60048**

Kudlaev, È. M. Classification of decomposable statistics. (Russian) (*see* **93b:60003**)

Kuroda, Koji (*with* Tanemura, Hideki) Limit theorem and large deviation principle for the Voronoĭ tessellation generated by a Gibbs point process. **93c:60161**

Kushnir, A. O. A limit theorem for the time of ε-convergence of two independent renewal processes. (Russian) **93h:60139**

Lachout, Petr Linear rescaling of the stochastic process. (English summary) **93m:60102**

Laskowski, Michael Chris Vapnik-Chervonenkis classes of definable sets. **93d:03039**

Le Breton, Alain Propriétés asymptotiques des martingales gaussiennes et application. (English and French summaries) [Asymptotic properties of Gaussian martingales and application] **93f:60061**

Lenczewski, Romuald (*with* Podgórski, Krzysztof) A q-analog of the quantum central limit theorem for $SU_q(2)$. **93m:81082**

LePage, Raoul Bootstrapping signs. (English summary) **93m:62097**

Levizov, S. V. On the central limit theorem for series with respect to periodical multiplicative systems. I. **93c:42025**

— Lacunary series in the Walsh system. (Russian) **93d:42032**

Lo, Chi-Chang (*with* Mukherjea, Arunava) Convergence in distribution of products of $d \times d$ random matrices. **93b:60022**

Logunov, P. L. On estimates of the probability of domination with fixed marginal distributions. **93f:60021**

Mahmoud, Hosam M. (*with* Smythe, Robert T.) Asymptotic joint normality of outdegrees of nodes in random recursive trees. **93d:05139**

Major, Péter *see* **Bleher, Pavel M., 93k:82024**

Mammen, Enno Bootstrap, wild bootstrap, and asymptotic normality. (English summary) **93h:62090**

Mason, David M. A note on weighted approximations to the uniform empirical and quantile processes. **93b:60070**

— *see also* **Csörgő, Sándor, 93d:60092** *and* **Beirlant, Jan; et al., 93g:60061**

Mehra, K. L. (*with* Rao, M. Sudhakara; Upadrasta, S. P.) A smooth conditional quantile estimator and related applications of conditional empirical processes. **93d:62119**

Melamed, Joseph A. *see* **Klebanov, L. B., 93h:60019**

Mel′nik, V. N. *see* **Buldygin, V. V., 93b:60110**

Millar, P. W. *see* **Bickel, Peter J., 93g:60005**

Mitoma, Itaru *see* **Kallianpur, Gopinath, 93m:46044**

Molchanov, S. A. *see* **Bulinskiĭ, A. V., 93c:60090**

Móri, Tamás F. Asymptotic independence of maximum waiting times for increasing alphabet. (English summary) **93k:60026**

Mukerjee, Hari Estimating conditional quantiles at the root of a regression function. (English summary) **93j:62103**

Mukerjee, Rahul *see* **Basu, Sujit Kumar**

Mukherjea, Arunava *see* **Lo, Chi-Chang, 93b:60022**

Nagaev, S. V. On a new approach to the study of the distribution of a norm of a random element in Hilbert space. **93d:60006**

Nagai, Hideo Ergodic control problems on the whole Euclidean space and convergence of symmetric diffusions. **93b:60178**

Nagaraja, H. N. *see* **Bunge, J. A., 93m:60100**

Nakhapetyan, B. S. (*with* Petrosyan, A. N.) Martingale-difference Gibbs random fields and central limit theorem. **93d:60090**

— *see also* **Arzumanyan, V. A.; et al., 93d:82007**

Nowicki, Krzysztof Asymptotic distributions in random graphs with applications to social networks. **93a:60016**

— *see also* **Janson, Svante, 93b:62021**

Nowicki, Tomasz *see* **Keller, Gerhard, 93i:58123**

O'Brien, George L. *see* **Doney, R. A., 93k:60215**

O'Cinneide, Colm A. *see* **Harel, Michel; et al., 93g:60186**

Oliveira, M. F. (*with* Turkman, K. F.) A note on the asymptotic independence of maximum and minimum of stationary sequences with extremal index. **93e:60100**

Owen, Art B. A central limit theorem for Latin hypercube sampling. **93j:62047**

Pakes, Anthony G. Limit theorems for the numbers of rare mutants: a branching process model. (English summary) **93j:60122**

Pap, Gyula Rate of convergence in CLT on stratified groups. **93b:60024**
Papathanasiou, V. *see* **Cacoullos, Theophilos, 93k:60046**
Peligrad, Magda On the central limit theorem for weakly dependent sequences with a decomposed strong mixing coefficient. (English summary) **93j:60044**
Petit, Frédérique Quelques extensions de la loi de l'arcsinus. (English and French summaries) [Some extensions of the arcsine law] **93g:60176**
Petrosyan, A. N. *see* **Nakhapetyan, B. S., 93d:60090**
Podgórski, Krzysztof *see* **Lenczewski, Romuald, 93m:81082**
Pogosyan, S. K. *see* **Arzumanyan, V. A.; et al., 93d:82007**
Puri, Madan L. (*with* Sazonov, Vyacheslav Vasil'evich) On Hilbert space valued U-statistics. **93d:60011a**
— *see also* **Hallin, Marc, 93k:62030** *and* **Sazonov, Vyacheslav Vasil'evich, 93d:60011b**
Rachev, Svetlozar T. ★ Probability metrics and the stability of stochastic models. **93b:60012**
— (*with* Sen Gupta, Ashis) Geometric stable distributions and Laplace-Weibull mixtures. (English summary) **93k:60040**
Ralescu, Stefan S. A remainder estimate for the normal approximation of perturbed sample quantiles. **93m:62083**
Rao, Calyampudi Radhakrishna (*with* Zhao, Lin Cheng) On the consistency of M-estimate in a linear model obtained through an estimating equation. **93h:62056**
— Current trends of research in statistics: small sample asymptotics, resampling techniques and robustness. (English summary) (*see* **93m:00047**)
— *see also* **Babu, Gutti Jogesh, 93m:62038**
Rao, M. Sudhakara *see* **Mehra, K. L.; et al., 93d:62119**
Rosen, Jay Second order limit laws for the local times of stable processes. **93k:60196**
— The asymptotics of stable sausages in the plane. **93a:60063**
Ruciński, Andrzej Proving normality in combinatorics. **93k:60028**
Sabirov, Sh. O. *see* **Zavadnīkova, V. B., 93f:60073**
Sakalauskas, L. L. *see* **Gudynas, Pranas P., 93k:60131**
Sakhanenko, A. I. Estimates of Berry-Esseen type for the probabilities of large deviations. (Russian) **93e:60054**
Saksman, Eero *see* **Haario, Heikki, 93e:60146**
Sazonov, Vyacheslav Vasil'evich (*with* Ul'yanov, Vladimir Vasil'evich) Speed of convergence in the central limit theorem in Hilbert space under weakened moment conditions. **93e:60017**
— Letter to the editors: "On Hilbert space valued U-statistics" by M. L. Puri and Sazonov. (Russian) **93d:60011b**
— *see also* **Puri, Madan L., 93d:60011a**
Schneider, Helmut *see* **Harel, Michel; et al., 93g:60186**
Sen Gupta, Ashis *see* **Rachev, Svetlozar T., 93k:60040**
Sil'vestrov, D. S. (*with* Abadov, Z. A.) Uniform representations of exponential moments of sums of random variables defined on a Markov chain and of distributions of the times of attainment. I. (Russian) **93h:60104**
Smythe, Robert T. *see* **Mahmoud, Hosam M., 93d:05139**
Sowers, Richard B. *see* **Freidlin, Mark I., 93i:60150**
Speicher, Roland A noncommutative central limit theorem. **93a:46125**
Stein, Charles A way of using auxiliary randomization. (English summary) **93i:60004**
Steinebach, Josef *see* **Deheuvels, Paul, 93d:60041**
Stepakhno, V. I. On large samples of observations of random vectors of large dimension. (Russian. Ukrainian summary) **93b:60031**
Sukhov, Yu. M. *see* **Kel'bert, M. Ya., 93b:60219**
Szczotka, Władysław Weak convergence under mapping. (English summary) **93m:60019**
Szeidl, László On the limit distributions of multi-sample von Mises functionals with variable polynomial kernels. **93h:62031**
Szulga, Jerzy Limit distributions of U-statistics resampled by symmetric stable laws. (English summary) **93m:60108**
Takács, Lajos Conditional limit theorems for branching processes. **93e:60175**
Tanemura, Hideki *see* **Kuroda, Koji, 93c:60161**
Tavaré, Simon *see* **Arratia, Richard, 93g:60014**
Teicher, Henry Convergence of self-normalized generalized U-statistics. **93d:60051**
Tikhomirov, A. N. On the normal approximation of sums of weakly dependent Hilbert-valued random variables. **93e:60019**
Tomkins, R. J. Refinements of Kolmogorov's law of the iterated logarithm. (English summary) **93h:60052**
Trimèche, Khélifa Opérateurs de permutation et théorème de la centrale associés à des opérateurs aux dérivées partielles. (English summary) [Permutation operators and the central limit theorem associated with partial differential operators] **93k:43009**
Turkman, K. F. *see* **Oliveira, M. F., 93e:60100**
Tutakov, A. O. A limit theorem for random walks on the line with reflection at zero. (Russian. Russian summary) **93k:60178**
Ulanovskiĭ, A. M. Sets of uniqueness of infinitely divisible laws, and limit theorems on a half-line. (Russian. English summary) **93d:60023**
Ul'yanov, Vladimir Vasil'evich *see* **Sazonov, Vyacheslav Vasil'evich, 93e:60017**
Upadrasta, S. P. *see* **Mehra, K. L.; et al., 93d:62119**
Vanderzande, Carlo *see* **Foster, Damien P.; et al., 93j:82031**
Voiculescu, Dan Free noncommutative random variables, random matrices and the II_1 factors of free groups. **93c:46119**
Voit, Michael Pseudoisotropic random walks on free groups and semigroups. **93g:60011**
Volný, Dalibor Approximating martingales and the central limit theorem for strictly stationary processes. (English summary) **93m:28021**
Wang, Jing Fang Limit distributions of random empirical distributions of projection pursuit for two classes of distribution functions. (Chinese. English and Chinese summaries)
Wang, Kong Ming *see* **Ellis, Richard S., 93c:62046**
Weiner, Daniel Charles *see* **Hahn, Marjorie G., 93f:62053**
Wolf, Werner *see* **Christoph, Gerd, 93m:60032**
Wu, Li Ming Grandes déviations pour les processus de Markov essentiellement irréductibles. II. Temps continu. (English summary) [Large deviations for essentially irreducible Markov processes. II. Continuous-time case] **93f:60107**
Wu, Yao Hua Convergence of regression quantile processes. (Chinese. Chinese summary) **93m:62042**
Yang, Song Minimum Hellinger distance estimation of parameter in the random censorship model. **93a:62048**
Yang, Yong Xin Asymptotic distributions of order statistics with variable ranks from exchangeable sequences. (Chinese. English and Chinese summaries)
Yeomans, Julia *see* **Foster, Damien P.; et al., 93j:82031**
Yin, Gang George *see* **Ji, D. M.**
Zaĭtsev, A. Yu. On the approximation of convolutions by infinitely divisible distributions. **93i:60031**
Zavadnīkova, V. B. (*with* Sabirov, Sh. O.) On the convergence to the normal law of some functionals of Gaussian random fields. (Ukrainian. Russian and Ukrainian summaries) **93f:60073**
Zhao, Lin Cheng *see* **Rao, Calyampudi Radhakrishna, 93h:62056**
Zhu, Yun Min ★ Asymptotic normality for a vector stochastic difference equation with applications in stochastic approximation. (English. English summary) **93j:62045**

60F10 Large deviations

de Acosta, Alejandro D. (*with* Ney, Peter E.; Nummelin, Esa) Large deviation lower bounds for general sequences of random variables. **93b:60053**
Aebi, Robert (*with* Nagasawa, Masao) Large deviations and the propagation of chaos for Schrödinger processes. (English summary) **93i:60050**
Aleškevičienė, Aldona Large and moderate deviations for L-statistics. (Russian. English and Lithuanian summaries) **93h:60035**
Amosova, N. N. On the necessity of Cramér's condition in local limit theorems. **93b:60054**
Arcones, Miguel A. Large deviations for U-statistics. (English summary) **93h:60036**
Baldi, Paolo (*with* Sanz, Marta) Une remarque sur la théorie des grandes déviations. [A remark on the theory of large deviations] **93k:60065**
— (*with* Ben Arous, Gérard; Kerkyacharian, Gérard) Large deviations and the Strassen theorem in Hölder norm. **93f:60034**
Baxter, J. R. (*with* Jain, Naresh C.; Varadhan, S. R. S.) Some familiar examples for which the large deviation principle does not hold. **93d:60038**
Ben Arous, Gérard (*with* Deuschel, Jean-Dominique; Stroock, Daniel W.) Precise asymptotics in large deviations. **93m:60052**
— *see also* **Baldi, Paolo; et al., 93f:60034**
Bentkus, Vidmantas Theorems of large deviations in the multivariate invariance principle. **93j:60029**
Bjambajav, D. (*with* Mogul'skiĭ, A. A.) Large deviations for the minimum point of a Gaussian random field. **93d:60039**
Blount, Douglas Law of large numbers in the supremum norm for a chemical reaction with diffusion. **93a:60037**
Borovkov, A. A. (*with* Mogul'skiĭ, A. A.) Large deviations and testing statistical hypotheses. I. Large deviations of sums of random vectors. (English summary) **93k:60066**
Bryc, Włodzimierz Large deviations by the asymptotic value method. **93b:60055**
— On the large deviation principle for stationary weakly dependent random fields. **93c:60031**
— On large deviations for uniformly strong mixing sequences. **93h:60037**
Bucklew, James A. ★ Large deviation techniques in decision, simulation, and estimation. **93a:60038**
Catoni, Olivier Sharp large deviations estimates for simulated annealing algorithms. (French summary) **93c:60032**
— Applications of sharp large deviations estimates to optimal cooling schedules. (French summary) **93g:60057**
Chen, Louis H. Y. (*with* Choi, Kwok Pui) Some asymptotic and large deviation results in Poisson approximation. (English summary) **93k:60067**
Choi, Han Sik (*with* Kim, Chi Yong; Kim, Woo Chul; Jeon, Jong Woo) A strong large deviations theorem for the ratio of independent random variables. **93e:60050**
Choi, Kwok Pui *see* **Chen, Louis H. Y., 93k:60067**
Chow, Pao Liu Exponential estimates of large deviation type for Itô processes in Hilbert spaces. **93c:60033**
— Large deviation problem for some parabolic Itô equations. **93e:60051**
Comets, Francis (*with* Gidas, Basilis) Parameter estimation for Gibbs distributions from partially observed data. **93b:60056**
Cutland, Nigel J. On large deviations in Hilbert space. **93g:60058**
Deheuvels, Paul Large deviations by Poisson approximations. (English summary) **93k:60068**
Deuschel, Jean-Dominique *see* **Ben Arous, Gérard; et al., 93m:60052**
Dinwoodie, I. H. Mesures dominantes et théorème de Sanov. (English and French summaries) [Dominant measures and Sanov's theorem] **93h:60038**
— (*with* Zabell, S. L.) Large deviations for exchangeable random vectors. (English summary) **93g:60059**
Dupuis, Paul (*with* Ellis, Richard S.) Large deviations for Markov processes with discontinuous statistics. II. Random walks. **93c:60034**
Èbralidze, Sh. S. On the bounds for the probabilities of large deviations for random variables and vectors. (English summary) **93h:60039**
Ellis, Richard S. *see* **Dupuis, Paul, 93c:60034**
Feng, Shui Large deviations for Markov processes with mean field interaction and unbounded jumps. **93a:60039**
Fleming, Wendell H. (*with* James, Matthew R.) Asymptotic series and exit time probabilities. (English summary) **93k:60069**
Gaĭvoronskiĭ, È. I. (*with* Ostrovskiĭ, E. I.) Nonasymptotic estimation of the deviation of a multidimensional empirical distribution function. (Russian) **93a:60040**
Gantert, Nina ★ Einige grosse Abweichungen der Brownschen Bewegung. (German) [Some large deviations of Brownian motion] **93h:60040**
Gao, Fu Qing Large deviations for stationary Gaussian fields. (English summary) **93i:60051**
Gidas, Basilis *see* **Comets, Francis, 93b:60056**
Godovan'chuk, V. V. (*with* Vinogradov, V. V.) On large deviations for trimmed sums of independent random variables. **93f:60035**
Hornik, K. On some large deviation probabilities for finite Markov processes. (English summary) **93h:60041**

Inglot, Tadeusz (*with* Kallenberg, Wilbert C. M.; Ledwina, Teresa) Strong moderate deviation theorems. **93e:60052**
Jain, Naresh C. *see* **Baxter, J. R.; et al., 93d:60038**
James, Matthew R. *see* **Fleming, Wendell H., 93k:60069**
Janson, Svante Poisson approximation for large deviations. **93a:60041**
Jeon, Jong Woo *see* **Choi, Han Sik; et al., 93e:60050**
Jiang, Tie Feng (*with* Wang, Xiang Chen; Rao, M. Bhaskara) Moderate deviations for some weakly dependent random processes. (English summary) **93m:60053**
Kallenberg, Wilbert C. M. *see* **Inglot, Tadeusz; et al., 93e:60052**
Kerkyacharian, Gérard *see* **Baldi, Paolo; et al., 93f:60034**
Kim, Chi Yong *see* **Choi, Han Sik; et al., 93e:60050**
Kim, Woo Chul *see* **Choi, Han Sik; et al., 93e:60050**
Korostelëv, A. P. (*with* Leonov, S. L.) Action functional for diffusions in discontinuous media. (English summary) **93j:60030**
Kuczmaszewska, Anna (*with* Szynal, Dominik) On complete convergence for partial sums of independent identically distributed random variables. **93b:60057**
Ledwina, Teresa *see* **Inglot, Tadeusz; et al., 93e:60052**
Lee, Tzong-Yow Some large-deviation theorems for branching diffusions. (English summary) **93i:60052**
Leonov, S. L. *see* **Korostelëv, A. P., 93j:60030**
Liptser, R. Sh. (*with* Shiryaev, A. N.) Large deviation for martingales with independent and homogeneous increments. **93c:60035**
Malinovskiĭ, V. K. Large deviations for recurrent Markov renewal processes. (Russian) **93c:60036**
Mal'tseva, I. S. *see* **Zhulenev, S. V., (93b:60003)**
Manabe, Shojiro Large deviation for a class of current-valued processes. **93c:60037**
Mansmann, Ulrich Strong coupling limit for a certain class of polaron models. **93b:60058**
Menzel, Peter A limit theorem for one-dimensional Gibbs measures under conditions on the empirical field. (English summary) **93m:60054**
Mogul'skiĭ, A. A. *see* **Bjambajav, D., 93d:60039** *and* **Borovkov, A. A., 93k:60066**
Mustafi, C. K. A note on the covariance kernel of the residual mean and residual median processes. (English summary) **93e:60053**
Nagaev, A. V. Lower bounds for large deviations in $\mathbf{R}^d$, $d > 1$. **93c:60038**
Nagasawa, Masao *see* **Aebi, Robert, 93i:60050**
Ney, Peter E. *see* **de Acosta, Alejandro D.; et al., 93b:60053**
Nummelin, Esa *see* **de Acosta, Alejandro D.; et al., 93b:60053**
Ostrovskiĭ, E. I. *see* **Gaĭvoronskiĭ, Ë. I., 93a:60040**
Rao, M. Bhaskara *see* **Jiang, Tie Feng; et al., 93m:60053**
Roelly-Coppoletta, Sylvie (*with* Zessin, Hans) Sur la mécanique statistique d'une particule brownienne sur le tore. [On the statistical mechanics of a Brownian particle on the torus] **93m:60055**
Roynette, Bernard Grandes déviations du temps local brownien. (English summary) [Large deviations for the Brownian local time] **93b:60059**
Rudzkis, R. Probabilities of large excursions of empirical processes and fields. (Russian) **93d:60040**
Sadowsky, John S. On the optimality and stability of exponential twisting in Monte Carlo estimation. (English summary)
Sakhanenko, A. I. Estimates of Berry-Esseen type for the probabilities of large deviations. (Russian) **93e:60054**
Sanz, Marta *see* **Baldi, Paolo, 93k:60065**
Saulis, Leonas (*with* Statulevičius, Vytautas) ★ Предельные теоремы о больших уклонениях. (Russian) [Limit theorems for large deviations] **93e:60055a**
— General lemmas on the distribution density for large deviations of a random vector. **93a:60042**
— (*with* Statulevičius, Vytautas) ★ Limit theorems for large deviations. **93e:60055b**
— Asymptotic expansions in large deviation zones for the distribution density of sums of independent random variables. (English summary) **93h:60042**
— (*with* Statulevičius, Vytautas) Limit theorems on large deviations. (Russian) **93i:60053**
— Probabilities of large deviations for random vectors. (Russian) **93b:60060**
Shiryaev, A. N. *see* **Liptser, R. Sh., 93c:60035**
Skorokhod, A. V. (*with* Stepakhno, V. I.) A class of distributions and related theorems on large deviations. (Russian. English summary) **93a:60043**
Sowers, Richard B. Large deviations for the invariant measure of a reaction-diffusion equation with non-Gaussian perturbations. **93h:60043**
Statulevičius, Vytautas *see* **Saulis, Leonas, 93e:60055a; 93e:60055b** *and* **93i:60053**
Stepakhno, V. I. *see* **Skorokhod, A. V., 93a:60043**
Stroock, Daniel W. *see* **Ben Arous, Gérard; et al., 93m:60052**
Szynal, Dominik *see* **Kuczmaszewska, Anna, 93b:60057**
Tolmachev, A. I. On estimates of the probability of large deviations using pseudomoments. **93j:60031**
Trouvé, Alain Convergence optimale pour les algorithmes de recuits généralisés. (English and French summaries) [Optimal convergence rate for generalized simulated annealing] **93j:60032**
Varadhan, S. R. S. *see* **Baxter, J. R.; et al., 93d:60038**
Veretennikov, A. Yu. On large deviations for ergodic process empirical measures. **93m:60056**
Vinogradov, V. V. On asymptotic expansions in limit theorems on large deviations for sums of independent random variables in the case of power tails. **93b:60061**
— A nonuniform estimate taking into account large deviations in the limit theorem on nonnormal convergence to the normal law. (English summary) **93j:60033**
— *see also* **Godovan'chuk, V. V., 93f:60035**
Wang, Xiang Chen *see* **Jiang, Tie Feng; et al., 93m:60053**
Wolf, Werner Some large deviation results for U-statistics. **93e:60056**
Yao, Qi Wei Boundary-crossing probabilities of some random fields related to likelihood ratio tests for epidemic alternatives. (English summary) **93j:60034**
Zabczyk, Jerzy On large deviations for stochastic evolution equations. (*see* **93d:93009**)
Zabell, S. L. *see* **Dinwoodie, I. H., 93g:60059**
Zessin, Hans *see* **Roelly-Coppoletta, Sylvie, 93m:60055**
Zhulenev, S. V. Probabilities of large deviations in the binomial case. (Russian) (*see* **93b:60003**)
— (*with* Mal'tseva, I. S.) Binomial quantiles in a domain of large deviations. (Russian) (*see* **93b:60003**)
Zitikis, R. Cramér type large deviations for a class of statistics. (Russian and Lithuanian summaries) **93f:60036**

Items with secondary classifications in 60F10

Algoet, Paul H. (*with* Marcus, Brian H.) Large deviation theorems for empirical types of Markov chains constrained to thin sets. **93c:60097**
Anantharam, Venkat On fast simulation of the time to saturation of slotted ALOHA. **93g:60206**
Baxendale, Peter H. Invariant measures for nonlinear stochastic differential equations. **93m:60162**
Ben Arous, Gérard (*with* Léandre, Rémi) Décroissance exponentielle du noyau de la chaleur sur la diagonale. I. (English summary) [Exponential decay of the heat kernel on the diagonal. I] **93b:60136a**
— (*with* Léandre, Rémi) Décroissance exponentielle du noyau de la chaleur sur la diagonale. II. (English summary) [Exponential decay of the heat kernel on the diagonal. II] **93b:60136b**
Biggins, J. D. Uniform convergence of martingales in the branching random walk. **93b:60094**
Borisov, I. S. Approximation of distributions of von Mises statistics with multidimensional kernels. (Russian) **93b:60038**
Bramson, Maury D. (*with* Ney, Peter E.; Tao, J.) The population composition of a multitype branching random walk. (English summary) **93h:60130**
Bucklew, James A. (*with* Ney, Peter E.) Asymptotically optimal hypothesis testing with memory constraints. **93b:62028**
— (*with* Sadowsky, John S.) A contribution to the theory of Chernoff bounds. (English summary) **93m:94001**
Catoni, Olivier Rates of convergence for sequential annealing: a large deviation approach. **93k:65006**
— Rough large deviation estimates for simulated annealing: application to exponential schedules. (English summary) **93j:60092**
Chen, Xia Moderate deviations of independent random vectors in a Banach space. (Chinese. English and Chinese summaries) **93m:60020**
Choi, Byoung Seon On the conditional probability density functions of multivariate uniform random vectors and multivariate normal random vectors. **93a:62013**
Christoph, Gerd (*with* Wolf, Werner) ★ Convergence theorems with a stable limit law. (English. English and German summaries) **93m:60032**
Comets, Francis Statistical analysis of Markov random fields using large deviation estimates. (English summary) (*see* **93e:62005**)
Csáki, Endre (*with* Csörgő, Miklós) Inequalities for increments of stochastic processes and moduli of continuity. **93c:60055**
Csörgő, Miklós *see* **Csáki, Endre, 93c:60055**
Dai Pra, P. Space-time large deviations for interacting particle systems. (English summary) **93k:60233**
Dasgupta, Ratan Rates of convergence to normality for some variables with entire characteristic function. (English summary) **93m:60042**
Deheuvels, Paul Functional Erdős-Rényi laws. (English summary) **93i:60056**
Doss, Halim (*with* Stroock, Daniel W.) Nouveaux résultats concernant les petites perturbations de systèmes dynamiques. (English summary) [New results concerning small perturbations of dynamical systems] **93i:60148**
Dzhaparidze, K. O. (*with* Valkeila, Esko) On large deviation probabilities for the maximum likelihood estimators. **93g:62045**
Ellis, Richard S. A unified approach to large deviations for Markov chains and applications to statistical mechanics. **93b:60138**
Evans, Lawrence C. (*with* Souganidis, P. E.) A PDE approach to certain large deviation problems for systems of parabolic equations. (English summary) (*see* **93h:49003**)
Frolov, A. N. The Erdős-Rényi law of large numbers when the Cramér condition is violated. (Russian. English summary) **93b:60063**
— On the Erdős-Rényi law of large numbers for non-identically distributed random variables under violation of Cramér's condition. (Russian. English summary) **93m:60058**
Graham, Robert *see* **Hamm, Andreas, 93c:58188**
Grill, Karl A note on randomness. **93i:60059**
Haario, Heikki (*with* Saksman, Eero) Simulated annealing process in general state space. **93e:60146**
Hallin, Marc (*with* Puri, Madan L.) Some asymptotic results for a broad class of nonparametric statistics. (English summary) **93k:62030**
Hamm, Andreas (*with* Graham, Robert) Quasipotentials for simple noisy maps with complicated dynamics. **93c:58188**
den Hollander, Frank (*with* Shuler, Kurt E.) Random walks in a random field of decaying traps. **93f:82048**
Huang, Ch'i Jui (*with* Sheu, Shuenn Jyi) Singular perturbed Markov chains and exact behaviors of simulated annealing processes. **93f:60101**
Jacquot, S. Comportement asymptotique de la seconde valeur propre des processus de Kolmogorov. (English summary) [Asymptotic behavior of the second eigenvalue of Kolmogorov processes] **93e:60129**
Jona-Lasinio, G. Large deviations for weak solutions of stochastic differential equations. (English summary) (*see* **93e:00033**)
Keller, Gerhard (*with* Nowicki, Tomasz) Spectral theory, zeta functions and the distribution of periodic points for Collet-Eckmann maps. (English summary) **93i:58123**
Kifer, Yuri Large deviations for random expanding maps. (English summary) **93g:28021**
— Averaging in dynamical systems and large deviations. (English summary) **93m:60118**
Krajka, Andrzej (*with* Rychlik, Z.) The order of approximation in the invariance principle for H-valued random sums. (English summary) **93c:60044**
Kuroda, Koji (*with* Tanemura, Hideki) Limit theorem and large deviation principle for the Voronoi tessellation generated by a Gibbs point process. **93c:60161**
Kusuoka, Shigeo (*with* Stroock, Daniel W.) Precise asymptotics of certain Wiener functionals. **93a:60085**
Léandre, Rémi *see* **Ben Arous, Gérard, 93b:60136a** *and* **93b:60136b**
Ledoux, Michel Sur les déviations modérées des sommes de variables aléatoires vectorielles

indépendantes de même loi. (English summary) [On moderate deviations of sums of i.i.d. vector random variables] **93k:60017**

Lee, Tzong-Yow (*with* Rémillard, Bruno) Occupation times in systems of null recurrent Markov processes. **93a:60095**

Lehtonen, Tapani (*with* Nyrhinen, Harri) Simulating level-crossing probabilities by importance sampling. (English summary) **93j:65009**

— (*with* Nyrhinen, Harri) On asymptotically efficient simulation of ruin probabilities in a Markovian environment. (English summary) **93h:60144**

Lifshits, M. A. Gaussian large deviations of a smooth seminorm. (Russian. Russian summary) **93h:60060**

Linde, Werner Gaussian measure of large balls in l_p. **93e:60012**

Loader, Clive R. Boundary crossing probabilities for locally Poisson processes. **93f:60064**

Louani, D. Limit laws of Erdős-Rényi-type indexed by sets. (English summary) **93h:60050**

Lyons, Russell (*with* Pemantle, Robin) Random walk in a random environment and first-passage percolation on trees. **93c:60103**

Maier, Robert S. A path integral approach to data structure evolution. **93a:68028**

Makhno, S. Ya. On large deviations for a class of stochastic equations. (Russian. English summary) **93b:60135**

Mansmann, Ulrich The free energy of the Dirac polaron, an explicit solution. **93e:82006**

Marcus, Brian H. *see* **Algoet, Paul H., 93c:60097**

Mikhaleva, T. L. Probabilities of large deviations for vector-valued Gaussian processes. (Russian)

— Probabilities of large deviations of two-dimensional Gaussian processes with non-identically distributed independent components. (Russian)

Millet, Annie (*with* Nualart, David; Sanz, Marta) Large deviations for a class of anticipating stochastic differential equations. (English summary) **93i:60112**

Misevičius, G. The optimal zone for large deviations of the denominators of continued fractions. (English summary) **93m:11075**

Mueller, Carl Limit results for two stochastic partial differential equations. **93e:60121**

Nayak, S. S. On the tail behaviour of record values. (English summary) **93d:60018**

Ney, Peter E. *see* **Bucklew, James A., 93b:62028** *and* **Bramson, Maury D.; et al., 93h:60130**

Nowicki, Tomasz *see* **Keller, Gerhard, 93i:58123**

Nualart, David *see* **Millet, Annie; et al., 93i:60112**

Nyrhinen, Harri *see* **Lehtonen, Tapani, 93h:60144** *and* **93j:65009**

Pemantle, Robin *see* **Lyons, Russell, 93c:60103**

Pfister, Charles-Edouard Large deviations and phase separation in the two-dimensional Ising model. **93c:82011**

Pogosyan, S. K. Probabilities of large deviations for Gibbs random fields. (Russian. English and Armenian summaries) **93e:60098**

Puri, Madan L. *see* **Hallin, Marc, 93k:62030**

Qian, Zhong Min (*with* Wei, Guo Qiang) Large deviation property for reflecting Brownian motion in a convex domain. (English and Chinese summaries) **93k:60209**

Rémillard, Bruno *see* **Lee, Tzong-Yow, 93a:60095**

Rychlik, Z. *see* **Krajka, Andrzej, 93c:60044**

Sadowsky, John S. *see* **Bucklew, James A., 93m:94001**

Saksman, Eero *see* **Haario, Heikki, 93e:60146**

Sanz, Marta *see* **Millet, Annie; et al., 93i:60112**

Seaman, John W., Jr. *see* **Turner, Danny W.; et al., 93g:60041**

Shepp, Larry A. (*with* Zeitouni, Ofer) A note on conditional exponential moments and Onsager-Machlup functionals. **93d:60067**

Sheu, Shuenn Jyi *see* **Huang, Ch'i Jui, 93f:60101**

Shuler, Kurt E. *see* **den Hollander, Frank, 93f:82048**

Souganidis, P. E. *see* **Evans, Lawrence C., (93h:49003)**

Stroock, Daniel W. *see* **Kusuoka, Shigeo, 93a:60085** *and* **Doss, Halim, 93i:60148**

Tanemura, Hideki *see* **Kuroda, Koji, 93c:60161**

Tao, J. *see* **Bramson, Maury D.; et al., 93h:60130**

Turner, Danny W. (*with* Young, Dean M.; Seaman, John W., Jr.) Improved Kolmogorov inequalities for the binomial distribution. **93g:60041**

Valkeila, Esko *see* **Dzhaparidze, K. O., 93g:62045**

Veretennikov, A. Yu. On large deviations in averaging principle for stochastic differential equations with periodic coefficients. I. **93e:60115a**

— On large deviations in the averaging principle for stochastic differential equations with periodic coefficients. II. (Russian) **93e:60115b**

— Large deviations for systems of Itô stochastic equations. (Russian) **93c:60089**

Vinogradov, V. V. Limit theorems for extreme order statistics: large deviations and asymptotic expansions with nonuniform estimates of remainders. (English summary) **93g:60113**

Wei, Guo Qiang *see* **Qian, Zhong Min, 93k:60209**

Wolf, Werner *see* **Christoph, Gerd, 93m:60032**

Young, Dean M. *see* **Turner, Danny W.; et al., 93g:60041**

Yurinskiĭ, V. V. On the asymptotics of large deviations in a Hilbert space. I. (Russian) **93e:60021**

— On the asymptotics of large deviations in a Hilbert space. II. (Russian) **93e:60022**

Zeitouni, Ofer *see* **Shepp, Larry A., 93d:60067**

60F15 Strong theorems

Adler, André The "fair" games problem for multidimensionally indexed random variables. (English summary) **93h:60044**

— One-sided limit theorems for sums of multidimensional indexed random variables. (English summary) **93i:60054**

Albin, J. M. P. On the general law of iterated logarithm with application to selfsimilar processes and to Gaussian processes in $\mathbf{R}^n$ and Hilbert space. **93c:60039**

Archambault, Sylvain *see* **Moore, Marc, 93j:60038**

Atlagh, Mohamed (*with* Weber, Michel Jean Georges) Un théorème central limite presque sûr relatif à des sous-suites. (English and French summaries) [An almost sure central limit theorem relative to subsequences] **93g:60060**

Bacro, Jean-Noël (*with* Brito, Margarida) Comportement asymptotique presque sûr de la différence de statistiques d'ordre uniformes. (English summary) [Almost sure asymptotic behavior of the difference of uniform order statistics] **93a:60044**

Baker, B. Mitchell (*with* Handelman, David) Positive polynomials and time dependent integer-valued random variables. **93f:60037**

Beirlant, Jan (*with* Deheuvels, Paul; Einmahl, John H. J.; Mason, David M.) Bahadur-Kiefer theorems for uniform spacings processes. **93g:60061**

Berkes, István (*with* Dehling, H. G.; Móri, Tamás F.) Counterexamples related to the a.s. central limit theorem. **93i:60055**

— Critical LIL behavior of the trigonometric system. **93j:60035**

Bhattacharjee, S. K. Tests of equality of parameters of two normal populations in Bayesian viewpoint. (English summary)

Bingham, N. H. (*with* Rogers, L. C. G.) Summability methods and almost-sure convergence. **93b:60062**

Birkel, Thomas Laws of large numbers under dependence assumptions. (English summary) **93k:60070**

Brito, Margarida *see* **Bacro, Jean-Noël, 93a:60044**

Bryc, Włodzimierz (*with* Smoleński, W.) Moment conditions for almost sure convergence of weakly correlated random variables. **93k:60071**

Cai, Zong Wu Remarks on the strong convergence of weighted sums of random variables. (Chinese. English summary) **93a:60045**

— Strong approximation of partial sums of independent random variables and generalized Erdős-Rényi laws of large numbers. (Chinese. English and Chinese summaries) **93h:60045**

Chandra, Tapas K. Extensions of Rajchman's strong law of large numbers. (English summary) **93g:60062**

Chen, Bin *see* **Hong, Xiao, 93a:60047**

Christofides, Tasos C. A strong law of large numbers for U-statistics. **93k:60072**

Csáki, Endre (*with* Csörgő, Miklós; Földes, Antónia; Révész, Pál) Strong approximation of additive functionals. (English summary) **93k:60073**

Csörgő, Miklós (*with* Horváth, Lajos) Invariance principles for logarithmic averages. **93e:60057**

— *see also* **Csáki, Endre; et al., 93k:60073**

Csörgő, Sándor On the law of large numbers for the bootstrap mean. **93g:60063**

Deheuvels, Paul Functional Erdős-Rényi laws. (English summary) **93i:60056**

— (*with* Mason, David M.) Functional laws of the iterated logarithm for the increments of empirical and quantile processes. (English summary) **93h:60046**

— A functional law of the iterated logarithm for tail quantile processes. (English summary) **93i:60057**

— (*with* Steinebach, Josef) On the limiting behavior of the Bahadur-Kiefer statistic for partial sums and renewal processes when the fourth moment does not exist. **93d:60041**

— Functional laws of the iterated logarithm for large increments of empirical and quantile processes. (English summary) **93m:60057**

— *see also* **Beirlant, Jan; et al., 93g:60061**

Dehling, H. G. *see* **Berkes, István; et al., 93i:60055**

Deo, Chandrakant M. Almost sure convergence of a class of random fields. (English summary) **93k:60074**

Egorov, V. A. The law of the iterated logarithm and order statistics. **93d:60042**

Einmahl, John H. J. The a.s. behavior of the weighted empirical process and the LIL for the weighted tail empirical process. **93e:60058**

— *see also* **Beirlant, Jan; et al., 93g:60061**

Fisher, Evan On the law of the iterated logarithm for martingales. **93d:60043**

Földes, Antónia *see* **Csáki, Endre; et al., 93k:60073**

Frolov, A. N. The Erdős-Rényi law of large numbers when the Cramér condition is violated. (Russian. English summary) **93b:60063**

— On the Erdős-Rényi law of large numbers for non-identically distributed random variables under violation of Cramér's condition. (Russian. English summary) **93m:60058**

Gilat, David (*with* Hill, Theodore P.) One-sided refinements of the strong law of large numbers and the Glivenko-Cantelli theorem. (English summary) **93g:60064**

Giuliano Antonini, Rita Sur le comportement asymptotique du processus de Ornstein-Uhlenbeck multidimensionnel. [Asymptotic behavior of the multidimensional Ornstein-Uhlenbeck process] **93h:60047**

Grill, Karl On the increments of the Wiener process. (English summary) **93i:60058**

— Exact rate of convergence in Strassen's law of the iterated logarithm. **93a:60046**

— A note on randomness. **93i:60059**

Guan, Zhong An extended Glivenko-Cantelli theorem.

Gut, Allan Anscombe laws of the iterated logarithm. **93c:60040**

— Complete convergence for arrays. (English summary) **93m:60059**

Haiman, George A strong invariance principle for the extremes of multivariate stationary m-dependent sequences. (English summary) **93h:60048**

Handelman, David *see* **Baker, B. Mitchell, 93f:60037**

Hansen, Bruce E. Strong laws for dependent heterogeneous processes. **93b:60064**

— Erratum: "Strong laws for dependent heterogeneous processes" [Econometric Theory 7 (1991), no. 2, 213–221; MR 93b:60064]. **93j:60036**

Henze, N. (*with* Voigt, B.) Almost sure convergence of certain slowly changing symmetric one- and multi-sample statistics. **93e:60059**

Hill, Theodore P. *see* **Gilat, David, 93g:60064**

Hong, Sheng Yan Local oscillation modulus of the uniform empirical process. (English summary) **93i:60060**

Hong, Xiao (*with* Chen, Bin) How small are the increments of partial sums of sequences of independent random variables with different distributions? (Chinese. English summary) **93a:60047**

Horváth, Lajos *see* **Csörgő, Miklós, 93e:60057**

Hu, Shu He A law of the iterated logarithm for double array sum of φ-mixing sequence. **93b:60065**

Hu, Tien Chung (*with* Weber, N. C.) On the rate of convergence in the strong law of large numbers for arrays. **93d:60044**

Isopi, Marco (*with* Newman, Charles M.) The triangle law for Lyapunov exponents of large random matrices. **93d:60045**

Kersting, Götz A law of large numbers for stochastic difference equations. **93a:60048**

Key, Eric S. Rare numbers. **93e:60060**

Kiesel, Rüdiger Power series methods and almost sure convergence. **93i:60061**

Klesov, O. I. Multiple sums of random variables and laws of large numbers. (Russian) (*see*

93j:00003)

Lacey, Michael On almost sure noncentral limit theorems. **93j:60037**

Le Gac, B. Blocks of orthogonal random variables and the strong law of large numbers. (Russian summary) **93k:60075**

Levizov, S. V. The law of the iterated logarithm for lacunary series in the Walsh system. (Russian) **93d:60046**

Lewis, Thomas M. A self-normalized law of the iterated logarithm for random walk in random scenery. (English summary) **93i:60062**

Li, De Li (*with* Rao, M. Bhaskara; Wang, Xiang Chen) The law of the iterated logarithm for independent random variables with multidimensional indices. **93d:60047**

— (*with* Wang, Xiang Chen; Rao, M. Bhaskara) Almost sure behaviour of F-valued random fields. (English summary) **93h:60049**

— (*with* Rao, M. Bhaskara; Wang, Xiang Chen) Complete convergence of moving average processes. **93g:60065**

Li, Wenbo V. Limit theorems for the square integral of Brownian motion and its increments. **93e:60061**

Lin, Zheng Yan (*with* Lu, Chuan Rong) ★ Strong limit theorems. **93k:60076**

Louani, D. Limit laws of Erdős-Rényi-type indexed by sets. (English summary) **93h:60050**

Lu, Chuan Rong *see* **Lin, Zheng Yan, 93k:60076**

Lu, Jun[1] Convergence rates for the law of the iterated logarithm for independent random variables. (Chinese. English summary)

Martikainen, A. I. A remark on the strong law of large numbers for sums of pairwise independent random variables. (Russian. Russian summary) **93i:60063**

Mason, David M. *see* **Beirlant, Jan; et al., 93g:60061** *and* **Deheuvels, Paul, 93h:60046**

Matsak, I. K. Summation of independent random variables by the Riesz method. (Russian. Russian and Ukrainian summaries) **93i:60064**

Matuła, Przemysław A note on the almost sure convergence of sums of negatively dependent random variables. (English summary) **93i:60065**

Mikosch, Thomas *see* **Skovoroda, B. F., 93c:60041**

Moore, Marc (*with* Archambault, Sylvain) On the asymptotic behavior of some statistics based on morphological operations. (English summary) **93j:60038**

Móri, Tamás F. *see* **Berkes, István; et al., 93i:60055**

Móricz, Ferenc Strong limit theorems for quasi-orthogonal random fields. II. **93a:60049**

Newman, Charles M. *see* **Isopi, Marco, 93d:60045**

Nguyễn Duy Tiến *see* **Nguyễn Văn Giang, 93d:60048**

Nguyễn Văn Giang (*with* Nguyễn Duy Tiến) The strong law of large numbers for multiparametric independent random variables. (Russian. English and Lithuanian summaries) **93d:60048**

Niculescu, Ştefan P. (*with* Viertl, Reinhard) Bernoulli's law of large numbers for vague data. (English summary) **93f:60038**

Norvaiša, R. Weighted multivariate empirical processes as random measures. **93d:60049**

Oulidi, Abderrahim Loi du logarithme itéré uniforme dilatée. Applications. (English and French summaries) [Uniform expanded law of iterated logarithm. Applications] **93k:60077**

Pan, Jia Zhu Strong limit laws for maxima of uniformly mixing sequences. (Chinese. English summary)

Petrov, Valentin Vladimirovich On the law of the iterated logarithm for a sequence of independent random variables. (Russian. Russian summary) **93g:60066**

Rama Krishnaiah, Y. S. On convergence rates in strong law for weighted sums of bounded mixing random variables. (English summary) **93m:60060**

Rao, M. Bhaskara *see* **Li, De Li; et al., 93d:60047; 93g:60065** *and* **93h:60049**

Révész, Pál *see* **Csáki, Endre; et al., 93k:60073**

Rogers, L. C. G. *see* **Bingham, N. H., 93b:60062**

Rothmann, Mark D. (*with* Russo, Ralph P.) On boundary crossings of the sample pth quantile. **93d:60050**

Russo, Ralph P. *see* **Rothmann, Mark D., 93d:60050**

Savitha, S. *see* **Vasudeva, R., 93i:60066**

Schatte, Peter On a uniform law of the iterated logarithm for sums mod 1 and Benford's law. (Russian and Lithuanian summaries) **93g:60067**

— Two remarks on the almost sure central limit theorem. **93b:60066**

Shao, Qi Man How small are the increments of partial sums of non-i.i.d. random variables. (English summary) **93m:60061**

— *see also* **Su, Chun, 93g:60068**

Shields, Paul C. String matching: the ergodic case. (English summary) **93m:60062**

Skovoroda, B. F. (*with* Mikosch, Thomas) A strong law of large numbers for ruled sums. **93c:60041**

Smoleński, W. *see* **Bryc, Włodzimierz, 93k:60071**

Solntsev, S. A. On strong relative stability of linearly transformed random walk. (*see* **93k:60008**)

Steinebach, Josef *see* **Deheuvels, Paul, 93d:60041**

Su, Chun (*with* Shao, Qi Man) An investigation of conditions for complete convergence of U-statistics. (Chinese) **93g:60068**

Su, Zhong Gen The bounded law of the iterated logarithm for weighted sums of independent random variables. (Chinese. English summary) **93e:60062**

Takahata, Hiroshi Strong laws for the Poisson sampled stochastic processes. **93c:60042**

Teicher, Henry Convergence of self-normalized generalized U-statistics. **93d:60051**

Teugels, Jozef L. *see* **Vanmarcke, Ann, 93h:60053**

Tomkins, R. J. (*with* Wang, Hong[6]) Stability theorems for large order statistics with varying ranks. **93h:60051**

— Refinements of Kolmogorov's law of the iterated logarithm. (English summary) **93h:60052**

Vanmarcke, Ann (*with* Teugels, Jozef L.) The region of convergence of the Laplace transform: almost sure estimation. **93h:60053**

Vasudeva, R. (*with* Savitha, S.) Law of the iterated logarithm for random subsequences. (English summary) **93i:60066**

Viertl, Reinhard *see* **Niculescu, Ştefan P., 93f:60038**

Voigt, B. *see* **Henze, N., 93e:60059**

Wang, Hong[6] *see* **Tomkins, R. J., 93h:60051**

Wang, Xiang Chen *see* **Li, De Li; et al., 93d:60047; 93g:60065** *and* **93h:60049**

Weber, Michel Jean Georges *see* **Atlagh, Mohamed, 93g:60060**

Weber, N. C. *see* **Hu, Tien Chung, 93d:60044**

Wu, Zong Qi A moment inequality for multidimensionally indexed arrays of mixing martingales and a convergence theorem. (Chinese. English and Chinese summaries)

Zhang, Hong Bo Some limit results on increments of partial sums of independent random variables. (Chinese. English and Chinese summaries)

Zygo, Józef Strassen's invariance principle for random subsequences. (Russian and Polish summaries) **93c:60043**

Items with secondary classifications in 60F15

Adler, André Accumulation points of a particular normalized random walk. (English summary) **93i:60129**

— (*with* Rosalsky, Andrew; Taylor, Robert Lee) On the Azlarov-Volodin theorem for sums of i.i.d. random elements in Banach spaces. (English summary) **93k:60014**

Álvarez-Andrade, Sergio Sur les accroissements du processus de Poisson doublement stochastique. (English and French summaries) [On the increments of doubly stochastic Poisson processes] **93g:60099**

— Accroissements du processus de renouvellement et conditions sur les moments des vecteurs aléatoires. (English and French summaries) [Moment conditions on random vectors and increments of the renewal process] **93i:60158**

Bai, Zhi Dong *see* **Chen, Xi Ru; et al., 93m:62148**

Bentkus, Vidmantas (*with* Götze, Friedrich; Paulauskas, Vygantas; Račkauskas, Alfredas) The accuracy of Gaussian approximation in Banach spaces. (Russian) **93e:60014**

Berger, Erich A note on the strong law of large numbers for partial sums of independent random vectors. **93a:60010**

Bickel, Peter J. (*with* Millar, P. W.) Uniform convergence of probability measures on classes of functions. **93g:60005**

Borisov, I. S. Exponential inequalities for the distributions of von Mises and U-statistics. **93d:60024**

Bouleau, Nicolas On numerical integration by the shift and application to Wiener space. **93f:60096**

Boutahar, Mohamed (*with* Deniau, Claude) Almost sure convergence of least squares estimates for regular multivariate ARX systems. (English summary) **93f:62122**

Bùi Kho'i-Đàm On the strong law of large numbers for amarts. **93b:60099**

Chanda, Kamal C. Bahadur-Kiefer representation properties of intermediate order statistics. **93k:62116**

Chen, Xi Ru (*with* Bai, Zhi Dong; Zhao, Lin Cheng; Wu, Yue Hua) Consistency of minimum L_1-norm estimates in linear models. **93m:62148**

Chen, Xiong Hölder continuous for local times of the two-parameter Ornstein-Uhlenbeck process. **93i:60143**

Chou, Yün Hsiung (*with* Hsieh, Chung) On occupation times of annealing processes. **93m:60154**

Chow, Yuan Shih On the law of iterated logarithm and the central limit theorem for the numbers of runs. (English summary) **93i:60038**

Csáki, Endre A note on: "Three problems on the random walk in Z^{d}" by P. Erdős and P. Révész [Studia Sci. Math. Hungar. **26** (1991), no. 2-3, 309–320; MR 93k:60171]. **93k:60172**

Csörgő, Miklós (*with* Shao, Qi Man; Szyszkowicz, Barbara) A note on local and global functions of a Wiener process and some Rényi-type statistics. (English summary) **93i:60078**

— (*with* Révész, Pál) Long random walk excursions and local time. **93g:60172**

Deng, Dian Liang The estimation of the superior limit in the law of iterated logarithm for tail sums. **93c:60003**

Deniau, Claude *see* **Boutahar, Mohamed, 93f:62122**

Dümbgen, Lutz Limit theorems for the simplicial depth. **93m:60063**

Einmahl, John H. J. (*with* van Zuijlen, Martien C. A.) Glivenko-Cantelli-type theorems for weighted empirical distribution functions based on uniform spacings. (English summary) **93m:62119**

Einmahl, Uwe Exact convergence rates for the bounded law of the iterated logarithm in Hilbert space. **93i:60013**

Erdős, Paul (*with* Révész, Pál) Three problems on the random walk in Z^{d}. (English summary) **93k:60171**

— *see also* **Csáki, Endre, 93k:60172**

Etemadi, N. A simple inequality for independent random vectors. (English summary) **93g:60009**

Farhane, Lotfi Espacements multivariés généralisés et recouvrements aléatoires. [Generalized multivariate spacings and random coverings] **93g:60020**

Fazekas, István Convergence rates in the law of large numbers for arrays. **93j:60005**

Fisher, Evan A Skorohod representation and an invariance principle for sums of weighted i.i.d. random variables. **93e:60065**

Gao, Ji Ti *see* **Hong, Sheng Yan, 93m:62077**

Götze, Friedrich *see* **Bentkus, Vidmantas; et al., 93e:60014**

Gut, Allan Limit theorems for record times. **93c:60075**

den Hollander, Frank (*with* Hooghiemstra, G.; Keane, Michael S.; Resing, J.) Strong law and central limit theorem for a process between maxima and sums. **93a:60030**

Hong, Sheng Yan (*with* Gao, Ji Ti) The rate of convergence of the nearest neighbour regression function estimator. (Chinese. English and Chinese summaries) **93m:62077**

Hooghiemstra, G. *see* **den Hollander, Frank; et al., 93a:60030**

Hsieh, Chung *see* **Chou, Yün Hsiung, 93m:60154**

Huang, Yen Kun Random sets for the pointwise ergodic theorem. **93g:28015**

Keane, Michael S. *see* **den Hollander, Frank; et al., 93a:60030**

Khoshnevisan, Davar Local asymptotic laws for the Brownian convex hull. (English summary) **93k:60096**

Koning, Alex J. Approximation of stochastic integrals with applications to goodness-of-fit tests. **93d:62090**

Li, Wenbo V. Lim inf results for the Wiener process and its increments under the L_2-norm. **93g:60077**

Liu, Wen An extension of a strong law of large numbers of Markov chains. **93b:60144**

McCormick, William P. A strong law for the maxima of isotropic Gaussian random fields. (English summary) **93j:60047**

Millar, P. W. *see* **Bickel, Peter J., 93g:60005**

Mukerjee, Hari Convergence rates of monotone conditional quantile estimators. (English summary) **93j:62104**
Nayak, S. S. (*with* Sujatha, D.) Boundary crossings of partial maxima of i.i.d. sequences. **93g:60110**
— (*with* Wali, K. S.) On the number of boundary crossings related to LIL and SLLN for record values and partial maxima of i.i.d. sequences and extremes of uniform spacings. (English summary) **93k:60079**
Nguyễn Văn Giang On moments of the supremum of normed partial sums of random variables indexed by $\mathbf{N}^k$. **93i:60090**
Paulauskas, Vygantas *see* **Bentkus, Vidmantas; et al., 93e:60014**
Petrov, Valentin Vladimirovich Limit theorems of classical type for sums of independent random variables. (Russian) **93b:60047**
Petz, Dénes Entropy, the central limit theorem and the algebra of the canonical commutation relation. **93g:81063**
Pollard, David Bracketing methods in statistics and econometrics. **93m:62056**
Poznyak, A. S. A new form of the strong law of large numbers for dependent sequences and its application in the analysis of identification algorithms. (Russian)
Račkauskas, Alfredas *see* **Bentkus, Vidmantas; et al., 93e:60014**
Ralescu, Stefan S. Asymptotic deviations between perturbed empirical and quantile processes. (English summary) **93j:62145**
Resing, J. *see* **den Hollander, Frank; et al., 93a:60030**
Révész, Pál *see* **Csörgő, Miklós, 93g:60172**; **Erdős, Paul, 93k:60171** *and* **Csáki, Endre, 93k:60172**
Rosalsky, Andrew *see* **Adler, André; et al., 93k:60014**
Shao, Qi Man An Erdős-Révész type law of the iterated logarithm for stationary Gaussian processes. (English summary) **93k:60092**
— On the law of the iterated logarithm for infinite-dimensional Ornstein-Uhlenbeck processes. (English summary) **93j:60049**
— *see also* **Csörgő, Miklós; et al., 93i:60078**
Steele, J. Michael Euclidean semi-matchings of random samples. **93b:05157**
Stoica, Gheorghe Functional LILs for the Ornstein-Uhlenbeck process. (English and French summaries) **93i:60077**
Stute, Winfried Conditional U-statistics. **93e:60048**
Su, Kuo Liang (*with* Taylor, Robert Lee) Marcinkiewicz strong laws of large numbers and convergence rates for arrays of independent random elements in Banach spaces. **93d:60012**
Sujatha, D. *see* **Nayak, S. S., 93g:60110**
Szyszkowicz, Barbara *see* **Csörgő, Miklós; et al., 93i:60078**
Taylor, Robert Lee *see* **Su, Kuo Liang, 93d:60012** *and* **Adler, André; et al., 93k:60014**
Voit, Michael Pseudoisotropic random walks on free groups and semigroups. **93g:60011**
Wali, K. S. *see* **Nayak, S. S., 93k:60079**
Weber, Michel Jean Georges New sufficient conditions for the law of the iterated logarithm in Banach spaces. **93k:60018**
Wee, In Suk The law of the iterated logarithm for local time of a Lévy process. **93a:60115**
— The law of the iterated logarithm for local time of a Lévy process. (English summary) **93i:60138**
Wu, Yue Hua *see* **Chen, Xi Ru; et al., 93m:62148**
Yin, Gang George On H-valued stochastic approximation: finite-dimensional projections. **93e:62211**
Zhao, Lin Cheng *see* **Chen, Xi Ru; et al., 93m:62148**
Zhou, Zhan Gong Infinite series of independent two-parameter Ornstein-Uhlenbeck processes. (Chinese. English and Chinese summaries) **93f:60047**
Zhu, Yun Min ★ On Lyapunov function approach to analyzing almost sure convergence in stochastic approximation. (English. English summary) **93k:62170**
Zolotarev, V. M. Asymptotic expansions with probability 1 of sums of independent random variables. (Russian) **93c:60067**
van Zuijlen, Martien C. A. *see* **Einmahl, John H. J., 93m:62119**

60F17 Functional limit theorems; invariance principles

Anisimov, Vladimir Vladislavovich The averaging principle for recurrent switching sequences. (Russian) **93d:60052**
Avram, Florin (*with* Taqqu, Murad S.) Weak convergence of sums of moving averages in the α-stable domain of attraction. **93b:60067**
Chen, Dong Ching A uniform central limit theorem for nonuniform φ-mixing random fields. **93a:60050**
Csörgő, Miklós (*with* Horváth, Lajos) Rényi-type empirical processes. **93g:60069**
Dell'Antonio, Gianfausto (*with* Posilicano, Andrea) Convergence of Nelson diffusions. **93e:60063**
Donnelly, Peter (*with* Kurtz, Thomas G.; Tavaré, Simon) On the functional central limit theorem for the Ewens sampling formula. **93e:60064**
— (*with* Joyce, Paul) Weak convergence of population genealogical processes to the coalescent with ages. **93d:60053**
Dümbgen, Lutz Limit theorems for the simplicial depth. **93m:60063**
Einmahl, Uwe (*with* Mason, David M.) Approximations to permutation and exchangeable processes. **93a:60051**
Fernández, Begoña (*with* Gorostiza, Luis G.) A criterion of convergence of generalized processes and an application to a supercritical branching particle system. **93d:60054**
— (*with* Gorostiza, Luis G.) Stability of a class of transformations of distribution-valued processes and stochastic evolution equations. (English summary) **93m:60064**
Fisher, Evan A Skorohod representation and an invariance principle for sums of weighted i.i.d. random variables. **93e:60065**
Gorostiza, Luis G. *see* **Fernández, Begoña, 93d:60054** *and* **93m:60064**
Hall, Peter Gavin (*with* Welsh, A. H.) Corrigendum: "Normal approximation in regression" [J. Multivariate Anal. **39** (1991), no. 1, 87–105; MR 92h:60049]. **93h:60054**
Harel, Michel Weak invariance of the multidimensional rank statistic with unbounded scores for nonstationary absolutely regular processes. (English summary) **93j:60039**
He, Sheng Wu (*with* Wang, Jia Gang; Xia, Ai Hua) Weak convergence of Markov jump processes. (Chinese. English and Chinese summaries) **93m:60065**
Horváth, Lajos Short distances on the line. **93b:60068**
— Strong approximations of open queueing networks. **93d:60055**
— *see also* **Csörgő, Miklós, 93g:60069**
Joyce, Paul *see* **Donnelly, Peter, 93d:60053**
Koul, Hira L. A weak convergence result useful in robust autoregression. **93d:60056**
Krajka, Andrzej (*with* Rychlik, Z.) The order of approximation in the invariance principle for H-valued random sums. (English summary) **93c:60044**
Kunita, Hiroshi Central limit theorems on random measures and stochastic difference equations. **93h:60055**
— Limits on random measures and stochastic difference equations related to mixing array of random variables. **93f:60039**
Kurtz, Thomas G. *see* **Donnelly, Peter; et al., 93e:60064**
Lachout, Petr On asymptotic behaviour of empirical processes. (English summary) **93i:60067**
Lewicki, Paweł Infinite interacting particle systems: the fluctuation phenomenon. **93m:60066**
Loh, Wei-Liem Stein's method and multinomial approximation. (English summary) **93f:60040**
Mason, David M. *see* **Einmahl, Uwe, 93a:60051**
Mirzakhmedov, M. A. (*with* Tursunov, T. G.) On the rate of convergence of an empirical process constructed from a sample of random size. (Russian) **93d:60057**
Posilicano, Andrea *see* **Dell'Antonio, Gianfausto, 93e:60063**
Rychlik, Z. (*with* Zygo, Józef) Strassen's invariance principle for random subsequences. **93f:60041**
— *see also* **Krajka, Andrzej, 93c:60044**
Sil'vestrov, D. S. The invariance principle for accumulation processes with semi-Markov switchings in a scheme of arrays. (Russian) **93c:60045**
Szyszkowicz, Barbara Weighted asymptotics of partial sum processes in $D[1,\infty)$. (English summary) **93m:60067**
Taqqu, Murad S. *see* **Avram, Florin, 93b:60067**
Tavaré, Simon *see* **Donnelly, Peter; et al., 93e:60064**
Tursunov, T. G. *see* **Mirzakhmedov, M. A., 93d:60057**
Wang, Jia Gang *see* **He, Sheng Wu; et al., 93m:60065**
Wells, Martin T. The weak approximation of the empirical characteristic function process when parameters are estimated. **93f:60042**
Welsh, A. H. *see* **Hall, Peter Gavin, 93h:60054**
Xia, Ai Hua *see* **He, Sheng Wu; et al., 93m:60065**
Yoshihara, Ken-ichi Limiting behavior of U-statistics for strongly mixing sequences. **93c:60046**
Zhang, Bu Cheng Weak invariance principles under basic dependence assumptions or exhangeability assumptions. (Chinese. English and Chinese summaries)
Zygo, Józef *see* **Rychlik, Z., 93f:60041**

Items with secondary classifications in 60F17

Arratia, Richard (*with* Tavaré, Simon) The cycle structure of random permutations. (English summary) **93g:60013**
Bagro, S. V. Some probabilistic inequalities and a central limit theorem in function spaces. (Russian) **93h:60026**
Bass, Richard F. (*with* Khoshnevisan, Davar) Local times on curves and uniform invariance principles. **93e:60161**
Beirlant, Jan (*with* Deheuvels, Paul; Einmahl, John H. J.; Mason, David M.) Bahadur-Kiefer theorems for uniform spacings processes. **93g:60061**
Bentkus, Vidmantas (*with* Liubinskas, K.) Convergence rates of moments and related functionals in the invariance principle in Banach spaces. (Russian and Lithuanian summaries) **93d:60009**
Biggins, J. D. Uniform convergence of martingales in the one-dimensional branching random walk. (English summary) **93k:60211**
Borodin, A. N. On the convergence of functionals of random walks to the local times of Bessel processes. **93a:60099**
Buldygin, V. V. Semi-invariant conditions of weak convergence of random processes in the space of continuous functions. (English summary) **93m:60017**
Chen, Hong[3] (*with* Mandelbaum, Avi) Stochastic discrete flow networks: diffusion approximations and bottlenecks. **93a:60143**
Csörgő, Miklós (*with* Horváth, Lajos) Invariance principles for logarithmic averages. **93e:60057**
Dawson, Donald A. *see* **Rémillard, Bruno, 93c:60124**
Deheuvels, Paul Laws of the iterated logarithm for density estimators. **93b:62058**
— Functional Erdős-Rényi laws. (English summary) **93i:60056**
— (*with* Einmahl, John H. J.) Approximations and two-sample tests based on P-P and Q-Q plots of the Kaplan-Meier estimators of lifetime distributions. (English summary) **93k:60053**
— Functional laws of the iterated logarithm for large increments of empirical and quantile processes. (English summary) **93m:60057**
— *see also* **Beirlant, Jan; et al., 93g:60061**
Deo, Chandrakant M. Weak convergence of empirical processes of dependent random vectors under logarithmic mixing rates. (English summary) **93k:60054**
Einmahl, John H. J. (*with* Koning, Alex J.) Limit theorems for a general weighted process under random censoring. (French summary) **93h:62100**
— *see also* **Beirlant, Jan; et al., 93g:60061** *and* **Deheuvels, Paul, 93k:60053**
Fernández, Begoña (*with* Gorostiza, Luis G.) Hydrodynamic and fluctuation limits of branching particle systems with changes of mass. **93f:60066**
Fujiwara, Tsukasa (*with* Kunita, Hiroshi) Limit theorems for stochastic difference-differential equations. **93m:60132**
Glynn, Peter W. Diffusion approximations. (*see* **93a:60001**)
Gorostiza, Luis G. (*with* López-Mimbela, J. Alfredo) The demographic variation process of multitype branching random fields. **93j:60065**
— *see also* **Fernández, Begoña, 93f:60066**
Grill, Karl Exact rate of convergence in Strassen's law of the iterated logarithm. **93a:60046**
de Haan, L. A Brownian bridge connected with extreme values. (English summary) **93d:60093**
Horváth, Lajos Weak convergence of discrete scattering processes. **93a:60031**

— Rate of convergence in limit theorems for Brownian excursions. **93b:60175**
— *see also* **Csörgő, Miklós, 93e:60057**
Inglot, Tadeusz (*with* Kallenberg, Wilbert C. M.; Ledwina, Teresa) Strong moderate deviation theorems. **93e:60052**
Kallenberg, Wilbert C. M. *see* **Inglot, Tadeusz; et al., 93e:60052**
Kasahara, Yuji (*with* Maejima, Makoto) Limit theorems for trimmed sums. (English summary) **93k:60056**
Katzenberger, G. S. Solutions of a stochastic differential equation forced onto a manifold by a large drift. **93d:60102**
Khoshnevisan, Davar *see* **Bass, Richard F., 93e:60161**
Koning, Alex J. *see* **Einmahl, John H. J., 93h:62100**
Kunita, Hiroshi *see* **Fujiwara, Tsukasa, 93m:60132**
Kurtz, Thomas G. (*with* Protter, Philip) Characterizing the weak convergence of stochastic integrals. **93e:60104**
Ledwina, Teresa *see* **Inglot, Tadeusz; et al., 93e:60052**
Lewicki, Paweł Non-Markovian fluctuation limits of infinite particle systems. **93d:60071**
Li, Wenbo V. Limit theorems for the square integral of Brownian motion and its increments. **93e:60061**
Liubinskas, K. *see* **Bentkus, Vidmantas, 93d:60009**
López-Mimbela, J. Alfredo *see* **Gorostiza, Luis G., 93j:60065**
Maejima, Makoto *see* **Kasahara, Yuji, 93k:60056**
Makhno, S. Ya. Diffusion approximation for a class of random processes. (Ukrainian. Russian and Ukrainian summaries) **93m:60134**
Mandelbaum, Avi *see* **Chen, Hong[3], 93a:60143**
Mason, David M. A note on weighted approximations to the uniform empirical and quantile processes. **93b:60070**
— *see also* **Beirlant, Jan; et al., 93g:60061**
Müller, Hans-Georg (*with* Prewitt, Kathy) Applications of multiparameter weak convergence for adaptive nonparametric curve estimation. **93d:62077**
Pollard, David ★ Empirical processes: theory and applications. **93e:60046**
Prewitt, Kathy *see* **Müller, Hans-Georg, 93d:62077**
Protter, Philip *see* **Kurtz, Thomas G., 93e:60104**
Ravi, S. A note on weak convergence to extremal processes. **93g:60112**
Rémillard, Bruno (*with* Dawson, Donald A.) A limit theorem for Brownian motion in a random scenery. **93c:60124**
Resnick, Sidney I. Point processes and Tauberian theory. **93d:60089**
Shimura, Michio A limit theorem for two-dimensional random walk conditioned to stay in a cone. **93b:60153**
Su, Zhong Gen Strong approximation of set-indexed processes for φ-mixing random fields. (Chinese) **93f:60072**
Tavaré, Simon *see* **Arratia, Richard, 93g:60013**
Tomisaki, Matsuyo Homogenization of càdlàg processes. **93e:60145**
Touati, A. Méthodes de changement de temps pour la convergence en loi des martingales. (English summary) [Time-change methods for the convergence in law of martingales] **93a:60072**
— Sur la convergence en loi fonctionnelle de suites de semimartingales vers un mélange de mouvements browniens. **93f:60033**
Zanzotto, Pio Andrea An extension of a K. Yamada's theorem to equations "with memory". (Russian and Lithuanian summaries) **93f:60092**
— Letter to editors: "An extension of a K. Yamada's theorem to equations 'with memory' " [Litovsk. Mat. Sb. **31** (1991), no. 2, 282–301; MR 93f:60092]. **93m:60126**
Zygo, Józef Strassen's invariance principle for random subsequences. (Russian and Polish summaries) **93c:60043**

60F20 Zero-one laws

Csáki, Endre Lim inf results for the standardized empirical distribution function. **93b:60069**

Items with secondary classifications in 60F20

Bogachev, L. V. (*with* Molchanov, S. A.; Pastur, L. A.) On the density of states of random band matrices. (Russian) **93b:82032**
Csörgő, Miklós (*with* Shao, Qi Man; Szyszkowicz, Barbara) A note on local and global functions of a Wiener process and some Rényi-type statistics. (English summary) **93i:60078**
Kahane, Jean-Pierre Recouvrements aléatoires. [Random coverings] **93k:60030**
Khorunzhii, A. M. *see* **Molchanov, S. A.; et al., 93g:82056**
McGill, Paul Borel-Cantelli lemmas in continuous time. **93h:60071**
Molchanov, S. A. (*with* Pastur, L. A.; Khorunzhii, A. M.) Distribution of the eigenvalues of random band matrices in the limit of their infinite order. (Russian. English and Russian summaries) **93g:82056**
— *see also* **Bogachev, L. V.; et al., 93b:82032**
Pastur, L. A. *see* **Bogachev, L. V.; et al., 93b:82032** *and* **Molchanov, S. A.; et al., 93g:82056**
Shao, Qi Man *see* **Csörgő, Miklós; et al., 93i:60078**
Szyszkowicz, Barbara *see* **Csörgő, Miklós; et al., 93i:60078**

60F25 L^p-limit theorems

Cealera, Constantin Contributions to the study of dependent random variables. (Romanian. English and Romanian summaries) **93g:60070**
Chandra, Tapas K. Uniform integrability in the Cesàro sense and the weak law of large numbers. (English summary) **93c:60047**
Davidson, James An L_1-convergence theorem for heterogeneous mixingale arrays with trending moments. (English summary) **93k:60078**
Korolev, V. Yu. *see* **Kruglov, V. M., 93c:60048**
Kruglov, V. M. (*with* Korolev, V. Yu.) Convergence of moments of randomly indexed random sequences. **93c:60048**
Nayak, S. S. (*with* Wali, K. S.) On the number of boundary crossings related to LIL and SLLN for record values and partial maxima of i.i.d. sequences and extremes of uniform spacings. (English summary) **93k:60079**
Szyszkowicz, Barbara L_p-functionals of weighted partial sum processes. **93a:60052**
Wali, K. S. *see* **Nayak, S. S., 93k:60079**

Items with secondary classifications in 60F25

Dasgupta, Ratan Rates of convergence to normality for some variables with entire characteristic function. (English summary) **93m:60042**
Nguyễn Văn Giang On moments of the supremum of normed partial sums of random variables indexed by $\mathbf{N}^k$. **93i:60090**
Rosen, Jay Renormalization and limit theorems for self-intersections of superprocesses. (English summary) **93h:60034**

60F99 None of the above, but in this section

Andrews, Donald W. K. Generic uniform convergence. (English summary) **93i:60068**
Chaika, O. G. *see* **Girko, V. L., 93d:60058**
Chao, Min Te From animal trapping to type-token. **93a:60053**
Cheng, He Ping[2] Convergence of sequences of fuzzy random variables. (Chinese. English summary)
Chiang, Tsu Shu (*with* Chou, Yün Hsiung; Hsieh, Chung) Some limit theorems on simulated annealing. (*see* **93e:62005**)
Chou, Yün Hsiung *see* **Chiang, Tsu Shu; et al., (93e:62005)**
Fullér, Róbert (*with* Triesch, Eberhard) A note on the law of large numbers for fuzzy variables. (English summary)
Girko, V. L. (*with* Chaika, O. G.) Moments of spectral distribution functions of the distances between neighboring eigenvalues of random matrices. (Russian) **93d:60058**
Hsieh, Chung *see* **Chiang, Tsu Shu; et al., (93e:62005)**
Koumandos, Stamatis A class of equivalent measures. (English summary) **93g:60071**
Levit-skaya, A. A. Invariance theorems for the rank of a random Boolean matrix with a fixed number of units in the rows. (Russian. English summary) **93c:60049**
Logunov, P. L. Asymptotic properties of random matrices that are expressed in terms of conditional probabilities. (Russian) **93e:60066**
Mason, David M. A note on weighted approximations to the uniform empirical and quantile processes. **93b:60070**
Mountford, Thomas S. (*with* Port, Sidney C.) Random splittings of an interval. (English summary) **93m:60068**
Norkin, V. I. Normalized convergence of random variables. (Russian. English, Russian and Ukrainian summaries) **93k:60080**
Port, Sidney C. *see* **Mountford, Thomas S., 93m:60068**
Shor, A. A. Probability characterization of some functional properties of sequence of random variables. (Russian) (*see* **93j:00003**)
Triesch, Eberhard *see* **Fullér, Róbert**

Items with secondary classifications in 60F99

Barbour, A. D. (*with* Brown, Timothy C.) The Stein-Chen method, point processes and compensators. (English summary) **93g:60100**
Brown, Timothy C. *see* **Barbour, A. D., 93g:60100**
Chang, Joseph T. On moments of the first ladder height of random walks with small drift. (English summary) **93i:60130**
Cline, Daren B. H. (*with* Resnick, Sidney I.) Multivariate subexponential distributions. **93i:60022**
Girko, V. L. ★ Теория эмпирических систем уравнений. (Russian) [Theory of empirical systems of equations] **93d:60106**
— Limit theorems for maximal and minimal eigenvalues of random matrices. (Russian) **93j:62147**
— Systems of linear algebraic equations with random coefficients. (Russian) **93e:60128**
Griniv, O. O. A central limit theorem for the Burgers equation. (Russian. English summary) **93f:35202**
Gutiérrez Jáimez, Ramón (*with* Ruiz Medina, M. D.; Valderrama Bonnet, Mariano J.) Stochastic analysis of the Kiefer field. (Spanish. English summary) **93m:60098**
Hall, Peter Gavin (*with* Teugels, Jozef L.; Vanmarcke, Ann) The abscissa of convergence of the Laplace transform. **93e:62107**
Kesten, Harry (*with* Lawler, Gregory F.) A necessary condition for making money from fair games. **93e:60140**
Khorunzhii, A. M. *see* **Pastur, L. A., 93k:82007**
Laurinčikas, Antanas Limit theorems for the Riemann zeta-function in the complex space. **93b:11107**
Lawler, Gregory F. *see* **Kesten, Harry, 93e:60140**
Mazel', A. E. (*with* Sinai, Ya. G.) A limiting distribution connected with fractional parts of linear forms. **93m:11067**
Mykland, Per Aslak Asymptotic expansions and bootstrapping distributions for dependent variables: a martingale approach. **93e:62050**
Noble, Chris Equilibrium behavior of the sexual reproduction process with rapid diffusion. **93f:60152**
Pastur, L. A. (*with* Khorunzhii, A. M.) Integrated density of states of a deformed Wigner ensemble. (Russian. English and Russian summaries) **93k:82007**
Resnick, Sidney I. *see* **Cline, Daren B. H., 93i:60022**
Ruiz Medina, M. D. *see* **Gutiérrez Jáimez, Ramón; et al., 93m:60098**
Safarov, M. M. Limit theorems for queueing networks with multichannel stations. (Russian. Russian and Ukrainian summaries) **93j:60187**
Sinai, Ya. G. *see* **Mazel', A. E., 93m:11067**
Stepakhno, V. I. Sets of independent vectors in spaces of unboundedly increasing dimension. (Russian. Russian and Ukrainian summaries) **93j:60016**
Teugels, Jozef L. *see* **Hall, Peter Gavin; et al., 93e:62107**
Valderrama Bonnet, Mariano J. *see* **Gutiérrez Jáimez, Ramón; et al., 93m:60098**
Vanmarcke, Ann *see* **Hall, Peter Gavin; et al., 93e:62107**

60Gxx Stochastic processes

Items with secondary classifications in 60Gxx

Ledoux, Michel (*with* Talagrand, Michel) ★ Probability in Banach spaces. **93c:60001**
Talagrand, Michel *see* **Ledoux, Michel, 93c:60001**

60G05 Foundations of stochastic processes

Knight, Frank B. Forms of inclusion between processes. **93i:60069**

Items with secondary classifications in 60G05

Bassily, N. L. A short note on uniform integrability and Orlicz spaces. **93d:46045**
Çapar, Uluğ Empirical characteristic functional analysis and inference in sequence spaces. (English summary) **93f:60006**
Costantini, Domenico (*with* Garibaldi, Ubaldo) A probabilistic formulation of Pauli's exclusion principle in the context of predictive inference. (Italian. English and Italian summaries) **93f:81008**
Fernique, Xavier Les fonctions aléatoires à valeurs dans les espaces lusiniens et leurs modifications régulières. [Random functions with values in a Luzin space and their regular modifications] **93e:60078**
Garibaldi, Ubaldo *see* **Costantini, Domenico, 93f:81008**
Lee, Mei Ling Ting (*with* Whitmore, G. Alex) Stochastic processes directed by randomized time. (English summary) **93k:60183**
Lévy, Paul ★ Processus stochastiques et mouvement brownien. (French) [Stochastic processes and Brownian motion] **93i:60003**
(Loève, M.) *see* **Lévy, Paul, 93i:60003**
Sudakov, V. N. Remarks on modifications of random processes. (Russian. Russian summary) **93j:60050**
Whitmore, G. Alex *see* **Lee, Mei Ling Ting, 93k:60183**

60G07 General theory of processes

Ceci, Claudia (*with* Mazliak, Laurent) Une propriété forte de branchements. (English and French summaries) [A strong branching property] **93i:60070**
Chen, Pei De Multi-parameter stochastic processes. **93a:60054**
Hoover, D. N. Convergence in distribution and Skorokhod convergence for the general theory of processes. **93c:60050**
Jacka, S. D. Orlicz and Luxemburg norm inequalities. **93b:60071**
Mazliak, Laurent *see* **Ceci, Claudia, 93i:60070**
Roitgarts, A. D. A section theorem for weakly predictable sets in the plane. (Russian) **93g:60072**

Items with secondary classifications in 60G07

Kramkov, D. O. On a class of filtered spaces arising in filtered statistical problems. (Russian)
Leizarowitz, Arie On infinite products of stochastic matrices. **93b:15023**
Nguyen Minh Duc (*with* Nualart, David; Sanz, Marta) The Doob-Meyer decomposition for anticipating processes. **93a:60083**
Nualart, David Randomized stopping points and optimal stopping on the plane. **93d:60078**
— *see also* **Nguyen Minh Duc; et al., 93a:60083**
Sanz, Marta *see* **Nguyen Minh Duc; et al., 93a:60083**
Sharpe, Michael J. Closing values of martingales with finite lifetimes. **93g:60092**

60G09 Exchangeability

Atanasiu, Dragu Sur les variables aléatoires échangeables. (English and French summaries) [On exchangeable random variables] **93e:60067**
Bryc, Włodzimierz On a measure of symmetry for stationary random sequences. (English summary) **93m:60069**
Letta, Giorgio (*with* Pratelli, Luca) Sur une forme faible d'échangeabilité. (Italian summary) [On a weak form of exchangeability] **93b:60072**
Pratelli, Luca *see* **Letta, Giorgio, 93b:60072**
Wood, G. R. Binomial mixtures and finite exchangeability. (English summary) **93f:60043**

Items with secondary classifications in 60G09

Diaconis, Persi Sufficiency as statistical symmetry. (English summary) **93g:60137**
Einmahl, Uwe (*with* Mason, David M.) Approximations to permutation and exchangeable processes. **93a:60051**
Eisenberg, Bennett A variation of a theorem of Sparre-Andersen. **93g:60148**
Mason, David M. *see* **Einmahl, Uwe, 93a:60051**
Zhang, Bu Cheng Weak invariance principles under basic dependence assumptions or exhangeability assumptions. (Chinese. English and Chinese summaries)

60G10 Stationary processes

Albin, J. M. P. Extremes and crossings for differentiable stationary processes with application to Gaussian processes in $\mathbf{R}^m$ and Hilbert space. **93h:60056**
Berman, Simeon M. Central limit theorems for extreme sojourns of stationary Gaussian processes. **93b:60073**
— ★ Sojourns and extremes of stochastic processes. **93a:60055**
Bofill, F. *see* **Egozcue, J. J.; et al., (93j:00009)**
Borovkov, A. A. On the ergodicity of iterations of random Lipschitz transformations. (Russian) **93m:60070**
Bosq, Denis Propriétés asymptotiques des processus autorégressifs banachiques. Applications. (English and French summaries) [Asymptotic properties of autoregressive processes in Banach spaces. Applications] **93k:60081**
Bougerol, Philippe (*with* Picard, Nico) Strict stationarity of generalized autoregressive processes. (English summary) **93i:60071**
Chapman, G. Robert *see* **Kim, Peter T., 93j:60042**
Cheng, Qian Sheng On the unique representation of non-Gaussian linear processes. **93d:60059**
Cheng, Raymond A strong mixing condition for second-order stationary random fields. **93e:60068**
— On the rate of strong mixing in stationary Gaussian random fields. **93e:60069**
Egozcue, J. J. (*with* Bofill, F.; Griful, E.) Orthogonal decomposition of stationary processes into nondeterministic components. (Spanish) (*see* **93j:00009**)
Endow, Yasushi Dyadic differentiability conditions for dyadic stationary processes. (English summary) **93k:60082**
Ėndzhirgli, M. V. Estimates for the distribution of the supremum of a class of stationary random processes. (Russian. Ukrainian summary) **93h:60057**
Fiebig, Doris Mixing properties of a class of Bernoulli-processes. **93j:60040**
Flaminio, L. Mixing k-fold independent processes of zero entropy. **93j:60041**
Foss, S. G. On the ergodicity conditions for stochastically recursive sequences. (English summary) **93m:60071**
Griful, E. *see* **Egozcue, J. J.; et al., (93j:00009)**
Gross, Aaron (*with* Robertson, James B.) Ergodic properties of stationary Poisson sequences. **93g:60073**
Hardin, Jay C. *see* **Miamee, A. G., 93e:60070**
Hõsel, Volker (*with* Lasser, Rupert) One-step prediction for P_n-weakly stationary processes. **93f:60044**
Inoue, Akihiko The Alder-Wainwright effect for stationary processes with reflection positivity. II. **93b:60074**
Kim, Peter T. (*with* Chapman, G. Robert) Group action on a lattice and an application to time series analysis. (English summary) **93j:60042**
Lasser, Rupert *see* **Hõsel, Volker, 93f:60044**
Leitner, Martin Regularity and singularity of weakly stationary processes indexed by a commutative hypergroup. **93j:60043**
Levy, Bernard C. Regular and reciprocal multivariate stationary Gaussian processes over $\mathbf{Z}$ are necessarily Markov. **93c:60051**
Makagon, A. (*with* Miamee, A. G.; Salehi, Habib) Periodically correlated processes and their spectrum. (English summary) **93k:60083**
Miamee, A. G. (*with* Hardin, Jay C.) On a class of nonstationary stochastic processes. (English summary) **93e:60070**
— *see also* **Pourahmadi, Mohsen, 93i:60073** *and* **Makagon, A.; et al., 93k:60083**
Okabe, Yasunori Langevin equations and causal analysis. (Japanese) **93e:60071**
Peligrad, Magda On the central limit theorem for weakly dependent sequences with a decomposed strong mixing coefficient. (English summary) **93j:60044**
Peruničić, P. *see* **Pogány, Tibor, 93i:60072**
Picard, Nico *see* **Bougerol, Philippe, 93i:60071**
Podgórski, Krzysztof (*with* Weron, Aleksander) Characterizations of ergodic stationary stable processes via the dynamical functional. **93e:60072**
Pogány, Tibor Singularity as L_2-regularity and vice versa. (Serbo-Croatian summary) **93e:60073**
— (*with* Peruničić, P.) On the spectral representation of the sampling cardinal series expansion of weakly stationary stochastic processes. (English summary) **93i:60072**
Pourahmadi, Mohsen (*with* Miamee, A. G.) Computation of canonical correlation between past and future of a time series. **93i:60073**
Rajarshi, M. B. *see* **Ramanathan, T. V., (93h:62004)**
Ramanathan, T. V. (*with* Rajarshi, M. B.) Stationary distribution of random coefficient autoregressive models: some approximations and numerical evaluations. (English summary) (*see* **93h:62004**)
Robertson, James B. *see* **Gross, Aaron, 93g:60073**
Salehi, Habib *see* **Makagon, A.; et al., 93k:60083**
Samek, Pavel (*with* Volný, Dalibor) Uniqueness of a martingale-coboundary decomposition of stationary processes. **93i:60074**
Solev, V. N. A condition for local regularity. (Russian. Russian summary) **93d:60060**
Talagrand, Michel Necessary and sufficient conditions for sample continuity of random Fourier series and of harmonic infinitely divisible processes. **93g:60074**
Volný, Dalibor *see* **Samek, Pavel, 93i:60074**
Weron, Aleksander *see* **Podgórski, Krzysztof, 93e:60072**

Items with secondary classifications in 60G10

Aaronson, Jon (*with* Gilat, David; Keane, Michael S.) On the structure of 1-dependent Markov chains. (English summary) **93i:60123**
Adke, S. R. (*with* Balakrishna, N.) Estimation of the mean of some stationary Markov sequences. **93e:62213**
Algoet, Paul H. Universal schemes for prediction, gambling and portfolio selection. **93d:60075**
An, Hong Zhi Nonnegative autoregressive models. **93j:62218**
Baccelli, François (*with* Konstantopoulos, Panagiotis) Estimates of cycle times in stochastic Petri nets. **93f:68071**
— Ergodic theory of stochastic Petri networks. **93a:68110**
Balakrishna, N. *see* **Adke, S. R., 93e:62213**
Benedetto, John J. Stationary frames and spectral estimation. (English summary) **93g:42010**
Berman, Simeon M. Estimation of the tail of the spectral distribution by means of high level sojourn times. **93e:62240**
— Spectral conditions for sojourn and extreme value limit theorems for Gaussian processes. **93i:60037**
Borovkov, A. A. (*with* Foss, S. G.) Stochastically recursive sequences and their generalizations. **93f:60097**
Bryc, Włodzimierz On a measure of symmetry for stationary random sequences. (English summary) **93m:60069**
— (*with* Peligrad, Magda) The central limit theorem for Tukey's $3R$ smoother. **93a:60025**
Bustos, Oscar H. (*with* Frery, Alejandro C.) A contribution to the study of Markovian degraded images: an extension of a theorem by Geman and Geman. (English and Portuguese summaries) **93i:68187**
Cambanis, Stamatis (*with* Miamee, A. G.) On prediction of harmonizable stable processes. (English summary) **93c:60058**
Chevallier, Nicolas Un théorème ergodique stochastique pour certaines moyennes non décroissantes. (English summary) [A stochastic ergodic theorem for some nondecreasing averages] **93d:28020**

Daley, D. J. (*with* Rolski, Tomasz) Finiteness of waiting-time moments in general stationary single-server queues. (English summary) **93m:60181**
Demesh, N. N. Some properties of a modified periodogram of observations of a discrete stable stationary process. (Russian) **93a:62132**
Dorogovtsev, A. Ya. Stationary and periodic solutions of stochastic difference and differential equations in Banach space. (English summary) **93m:60117**
Foss, S. G. *see* **Borovkov, A. A., 93f:60097**
Fotopoulos, S. B. A note on the Doeblin-Lévy-Kolmogorov-Rogozin inequality for concentration functions with stationary random variables. (English summary) **93j:60017**
Frery, Alejandro C. *see* **Bustos, Oscar H., 93i:68187**
Gao, Fu Qing Large deviations for stationary Gaussian fields. (English summary) **93i:60051**
Gerencsér, László (*with* Vágó, Zsuzsanna) A strong approximation theorem for parameter estimators in continuous time. **93c:62047**
Gilat, David *see* **Aaronson, Jon; et al., 93i:60123**
Gnedin, A. V. On mean-square epsilon dimension. (English summary) **93i:60011**
Haiman, George A strong invariance principle for the extremes of multivariate stationary m-dependent sequences. (English summary) **93h:60048**
Hall, Peter Gavin Convergence rates in the central limit theorem for means of autoregressive and moving average sequences. (English summary) **93m:60045**
Hill, Theodore P. (*with* Krengel, Ulrich) On the construction of generalized measure preserving transformations with given marginals. (English summary) **93j:28024**
Houdré, Christian On the linear prediction of multivariate $(2, p)$-bounded processes. **93a:60056**
Kakihara, Yûichirô A classification of vector harmonizable processes. **93g:60075**
Keane, Michael S. *see* **Aaronson, Jon; et al., 93i:60123**
Konstantopoulos, Panagiotis *see* **Baccelli, François, 93f:68071**
Kowalski, Aleksander (*with* Szynal, Dominik) On general ARMA models and regularity conditions. (English summary) (*see* **93d:93009**)
Krengel, Ulrich *see* **Hill, Theodore P., 93j:28024**
Kuznětsova, O. M. Prediction problems for an isotropic random field on a Hilbert space. (Russian) **93f:60054**
Lachout, Petr Linear rescaling of the stochastic process. (English summary) **93m:60102**
Liu, Jian³ Spectral radius, Kronecker products and stationarity. **93k:62187**
Maejima, Makoto (*with* Morita, Yuko) Trimmed sums of mixing triangular arrays with stationary rows. (English summary) **93i:60041**
Manabe, Shojiro Large deviation for a class of current-valued processes. **93c:60037**
Mehlman, Marc H. Prediction and fundamental moving averages for discrete multidimensional harmonizable processes. (English summary) **93k:60086**
Miamee, A. G. *see* **Cambanis, Stamatis, 93c:60058**
Mladenović, Pavle On covariance of spectral estimates of stationary random sequence. **93b:62130**
Molchan, G. M. Exact resolution thresholds for close frequencies. **93a:62133**
Morita, Yuko *see* **Maejima, Makoto, 93i:60041**
Muraoka, Hiroshi A fractional Brownian motion and the canonical representations of its coefficient processes. (English summary) **93i:60075**
Nakhapetyan, B. S. ★ Limit theorems and some applications in statistical physics. **93b:60045**
Nayak, S. S. On the tail behaviour of record values. (English summary) **93d:60018**
Oliveira, M. F. (*with* Turkman, K. F.) A note on the asymptotic independence of maximum and minimum of stationary sequences with extremal index. **93e:60100**
Peligrad, Magda *see* **Bryc, Włodzimierz, 93a:60025**
Pogány, Tibor Almost sure sampling reconstruction of non-band-limited homogeneous random fields. **93f:60071**
Rolski, Tomasz *see* **Daley, D. J., 93m:60181**
Shao, Qi Man On the law of the iterated logarithm for infinite-dimensional Ornstein-Uhlenbeck processes. (English summary) **93j:60049**
Shor, A. A. (*with* Shor, A. È.) Characterization of residual σ-algebras. (Russian. Russian and Ukrainian summaries) **93i:28014**
Shor, A. È. *see* **Shor, A. A., 93i:28014**
Sim, C. H. First-order autoregressive logistic processes. (English summary)
Szynal, Dominik *see* **Kowalski, Aleksander**, (**93d:93009**)
Tikhomirov, A. N. On the accuracy of the normal approximation of the probability of sums of weakly dependent Hilbert-space-valued random variables hitting a ball. I. (Russian) **93e:60020**
Trofimov, E. I. A new look on semimartingale distributions with several examples. **93c:60066**
Turkman, K. F. *see* **Oliveira, M. F., 93e:60100**
Vágó, Zsuzsanna *see* **Gerencsér, László, 93c:62047**
Veretennikov, A. Yu. On large deviations for ergodic process empirical measures. **93m:60056**
Volný, Dalibor The central limit problem for composed arrays of martingale differences. (English summary) **93k:60063**
— Approximating martingales and the central limit theorem for strictly stationary processes. (English summary) **93m:28021**
Woodroofe, Michael A central limit theorem for functions of a Markov chain with applications to shifts. **93d:60037**

60G12 General second-order processes

Anh, V. V. (*with* Lunney, K. E.) Spectral representation and ergodicity of asymptotically stationary processes. **93b:60075**
Barrush, Filipp A class of nonstationary curves in a Hilbert space. (Russian)
Benhenni, Karim (*with* Cambanis, Stamatis) Sampling designs for estimating integrals of stochastic processes. **93e:60074**
Bhagavan, C. S. K. Spectral class of processes. (*see* **93m:60007**)
Cambanis, Stamatis *see* **Benhenni, Karim, 93e:60074**
Dehay, Dominique (*with* Moché, Raymond) Trace measures of a positive definite bimeasure. **93d:60061**
Deniau, Claude (*with* Viano, Marie-Claude; Oppenheim, Georges) Une classe de processus fractionnaires à temps continu. (English and French summaries) [A class of fractional continuous-time processes] **93h:60058**
Hardin, Jay C. (*with* Makagon, A.; Miamee, A. G.) Correlation autoregressive sequences: a summary. (English summary) **93h:60059**
Houdré, Christian On the linear prediction of multivariate $(2, p)$-bounded processes. **93a:60056**
— A note on the dilation of second order processes. (English summary) **93k:60084**
Istas, Jacques Wavelet coefficients of a Gaussian process and applications. (English and French summaries) **93k:60085**
Kakihara, Yûichirô A classification of vector harmonizable processes. **93g:60075**
Kowalski, Aleksander (*with* Szynal, Dominik) On general ARMA models and regularity conditions. (English summary) (*see* **93d:93009**)
Li, Ze Zhi A notable example of a nonstationary ARMA process. (Chinese. English summary) **93d:60062**
Lunney, K. E. *see* **Anh, V. V., 93b:60075**
Makagon, A. *see* **Hardin, Jay C.; et al., 93h:60059**
Meaux, Laurie M. *see* **Terdik, György, 93b:60077**
Mehlman, Marc H. Prediction and fundamental moving averages for discrete multidimensional harmonizable processes. (English summary) **93k:60086**
Miamee, A. G. (*with* Salehi, Habib) An example of a harmonizable process whose spectral domain is not complete. **93a:60057**
— *see also* **Hardin, Jay C.; et al., 93h:60059**
Moché, Raymond *see* **Dehay, Dominique, 93d:60061**
N'yugore Mariuki, Dzhon Curves in Hilbert spaces with nonstationary increments. (Russian)
Oppenheim, Georges *see* **Deniau, Claude; et al., 93h:60058**
Petruševski, Ljiljana On some equivalence transformations of Hilbert space valued standard Wiener process. **93b:60076**
Salehi, Habib *see* **Miamee, A. G., 93a:60057**
Słociński, M. (*with* Stochel, Jan) Weighted square summable and generalized harmonizable sequences. **93k:60087**
Stochel, Jan *see* **Słociński, M., 93k:60087**
Szynal, Dominik *see* **Kowalski, Aleksander**, (**93d:93009**)
Terdik, György (*with* Meaux, Laurie M.) The exact bispectra for bilinear realizable processes with Hermite degree 2. **93b:60077**
Vasof, Akhmed Linear transformations of curves in Hilbert spaces. (Russian)
Viano, Marie-Claude *see* **Deniau, Claude; et al., 93h:60058**

Items with secondary classifications in 60G12

Brillinger, David R. The digital rainbow: some history and applications of numerical spectrum analysis. (English and French summaries)
Lévy, Paul ★ Processus stochastiques et mouvement brownien. (French) [Stochastic processes and Brownian motion] **93i:60003**
(Loève, M.) *see* **Lévy, Paul, 93i:60003**
Rao, Malempati M. Sampling and prediction for harmonizable isotropic random fields. (English summary) **93g:60107**
Terdik, György Stationarity in fourth order and the marginal bispectrum for bilinear models with Gaussian residuals. (English summary) **93m:62203**
Yadrenko, M. I. *see* **Zaika, I. V., 93m:60096**
Yantsevich, A. A. *see* **Zolotarev, V. A., 93c:47086**
Zaika, I. V. (*with* Yadrenko, M. I.) Homogeneous and isotropic random measures. (Russian) **93m:60096**
Zolotarev, V. A. (*with* Yantsevich, A. A.) Nonstationary curves in Hilbert spaces and nonlinear operator equations. (Russian) **93c:47086**

60G15 Gaussian processes

Arcones, Miguel A. On the arg max of a Gaussian process. (English summary) **93j:60045**
Benassi, Albert Analyse multi-échelle et probabilités. [Multiscale analysis and probability theory] (*see* **93k:65002**)
Chan, Terence Indefinite quadratic functionals of Gaussian processes and least-action paths. (French summary) **93d:60063**
Csáki, Endre (*with* Csörgő, Miklós; Lin, Zheng Yan; Révész, Pál) On infinite series of independent Ornstein-Uhlenbeck processes. **93a:60058**
Csörgő, Miklós *see* **Csáki, Endre; et al., 93a:60058**
Dmitrovskiĭ, V. A. On the integrability of the maximum and the local properties of Gaussian fields. **93d:60064**
Gordon, Yehoram Majorization of Gaussian processes and geometric applications. **93a:60059**
Guyon, Xavier Variations et identification de champs gaussiens sur $\mathbf{R}^2$. [Variations and identification of Gaussian fields in $\mathbf{R}^2$] (*see* **93k:65002**)
Hassenforder, Claudie A study of some stationary Gaussian processes indexed by the homogeneous tree. **93g:60076**
Helfer, Adam D. (*with* Zhao, Zhong Xin) Gaussian integrals on Wiener spaces. **93e:60075**
Hitsuda, Masuyuki Canonical representations of Gaussian processes and integral operators. **93j:60046**
Inoue, Akihiko *see* **Okabe, Yasunori, 93m:60072**
Khaoulani, B. A vectorial Slepian type inequality. Applications. **93f:60045**
Knight, Frank B. Regular, stationary Gaussian processes with the Markov property of infinite order, and diffusive filtrations. **93e:60076**
Kozachenko, L. F. *see* **Kozachenko, Yu. V., 93c:60052**
Kozachenko, Yu. V. (*with* Stadnik, A. I.) Pre-Gaussian processes and convergence in $C(T)$ of estimates for covariance functions. (Russian) **93d:60065**
— (*with* Kozachenko, L. F.) On the accuracy of modeling stationary Gaussian random processes in $L^2(0, T)$. (Russian) **93c:60052**
Leonenko, N. N. (*with* Parkhomenko, V. N.) Comparison theorems for measures of the sojourn time inside a "small" sphere of a vector Gaussian field. (Russian) **93f:60046**
León R., José Rafael (*with* Ortega, Joaquín) Crossings and local times for regularized Gaussian processes: L^2 convergence. (French summary) **93a:60060**
Li, Wenbo V. Comparison results for the lower tail of Gaussian seminorms. **93k:60088**
— Lim inf results for the Wiener process and its increments under the L_2-norm. **93g:60077**

Liese, Friedrich Every continuous first order autoregressive stochastic process is a Gaussian process. **93e:60077**

Lifshits, M. A. Gaussian large deviations of a smooth seminorm. (Russian. Russian summary) **93h:60060**

Lin, Zheng Yan *see* **Csáki, Endre; et al., 93a:60058**

Marcus, Michael B. Continuity in l^p of certain Ornstein-Uhlenbeck processes. **93a:60061**

— (*with* Rosen, Jay) Sample path properties of the local times of strongly symmetric Markov processes via Gaussian processes. (English summary) **93k:60089**

— (*with* Rosen, Jay) Moduli of continuity of local times of strongly symmetric Markov processes via Gaussian processes. (English summary) **93k:60090**

McCormick, William P. A strong law for the maxima of isotropic Gaussian random fields. (English summary) **93j:60047**

— An iterated logarithm law result for extreme values from Gaussian sequences. (English summary) **93k:60091**

Mikhaĭlov, A. E. On the oscillation of Gaussian processes. II. (Russian. Russian summary) **93g:60078**

Mikhaleva, T. L. Probabilities of large deviations for vector-valued Gaussian processes. (Russian)

— Probabilities of large deviations of two-dimensional Gaussian processes with non-identically distributed independent components. (Russian)

Millet, Annie (*with* Smoleński, W.) On the continuity of Ornstein-Uhlenbeck processes in infinite dimensions. **93d:60066**

Muraoka, Hiroshi A fractional Brownian motion and the canonical representations of its coefficient processes. (English summary) **93i:60075**

Ogawa, Shigeyoshi Pseudorandom functions whose asymptotic distributions are asymptotically Gaussian. **93b:60078**

Okabe, Yasunori (*with* Inoue, Akihiko) On the exponential decay of the correlation functions for KMO-Langevin equations. **93m:60072**

Ortega, Joaquín *see* **León R., José Rafael, 93a:60060**

Parkhomenko, V. N. *see* **Leonenko, N. N., 93f:60046**

Pashko, A. A. Estimation of the distribution of the supremum of sub-Gaussian integrals. (Ukrainian. Russian and Ukrainian summaries) **93j:60048**

Płucińska, Agnieszka A characterization of Gaussian processes by infinitesimal moments. **93h:60061**

Révész, Pál *see* **Csáki, Endre; et al., 93a:60058**

Rosen, Jay *see* **Marcus, Michael B., 93k:60089** *and* **93k:60090**

Roux, Daniel Analyse multi-échelle d'un processus gaussien markovien au voisinage d'une singularité. (English and French summaries) [Multiscale analysis of a Markov Gaussian process around a singularity] **93i:60076**

Shao, Qi Man An Erdős-Révész type law of the iterated logarithm for stationary Gaussian processes. (English summary) **93k:60092**

— On the law of the iterated logarithm for infinite-dimensional Ornstein-Uhlenbeck processes. (English summary) **93j:60049**

Shepp, Larry A. (*with* Zeitouni, Ofer) A note on conditional exponential moments and Onsager-Machlup functionals. **93d:60067**

Smoleński, W. *see* **Millet, Annie, 93d:60066**

Song, Shiqui Inégalités relatives aux processus d'Ornstein-Uhlenbeck à n-paramètres et capacité gausienne $c_{n,2}$. (English and French summaries) [Inequalities relative to n-parameter Ornstein-Uhlenbeck processes and the Gaussian capacity $c_{n,2}$] **93k:60093**

Stadnik, A. I. *see* **Kozachenko, Yu. V., 93d:60065**

Stoica, Gheorghe Functional LILs for the Ornstein-Uhlenbeck process. (English and French summaries) **93i:60077**

Xiao, Yi Min Some properties of the image sets of two-parameter Ornstein-Uhlenbeck processes. (Chinese. Chinese summary)

Zeitouni, Ofer *see* **Shepp, Larry A., 93d:60067**

Zeng, Lu Chuan Exponential integrability of some random vectors analogous to a ν-sub-Gaussian vector. (Chinese. English and Chinese summaries) **93k:60094**

Zhao, Zhong Xin *see* **Helfer, Adam D., 93e:60075**

Zhou, Xian Yin The intersection local time of the Westwater process. **93c:60053**

Zhou, Zhan Gong Infinite series of independent two-parameter Ornstein-Uhlenbeck processes. (Chinese. English and Chinese summaries) **93f:60047**

Items with secondary classifications in 60G15

Albin, J. M. P. Extremes and crossings for differentiable stationary processes with application to Gaussian processes in $\mathbf{R}^m$ and Hilbert space. **93h:60056**

Benassi, Albert (*with* Jaffard, Stéphane; Roux, Daniel) Module de continuité des champs aléatoires gaussiens étudiés au moyen d'ondelettes appropriées. (English and French summaries) [Modulus of continuity of Gaussian random fields decomposed in an appropriate wavelet basis] **93f:60067**

Berman, Simeon M. Spectral conditions for sojourn and extreme value limit theorems for Gaussian processes. **93i:60037**

Besklinskaya, E. P. (*with* Kozachenko, Yu. V.) On the rate of convergence for sub-Gaussian random vectors of strict type in Lévy-Baxter-type theorems. (Russian)

Bjambajav, D. (*with* Mogul'skiĭ, A. A.) Large deviations for the minimum point of a Gaussian random field. **93d:60039**

Bogachev, V. I. (*with* Röckner, Michael) Les capacités gaussiennes sont portées par des compacts métrisables. (English and French summaries) [Gaussian capacities are supported by metrizable compacts] **93i:60104**

Buldygin, V. V. Semi-invariant conditions of weak convergence of random processes in the space of continuous functions. (English summary) **93m:60017**

— (*with* Kozachenko, Yu. V.) Exponential estimates for the distribution of the supremum of a class of random processes. (Russian. English and Russian summaries) **93g:60079**

Byczkowski, Tomasz On the density of log concave seminorms on vector spaces. **93b:60013**

Chang, Seung Jun (*with* Kang, Si-Ho) A sequential approach to conditional Wiener integrals. **93m:28016**

Chen, Xiong A property of sample paths of the N-parameter d-dimensional Ornstein-Uhlenbeck process. (Chinese. English and Chinese summaries) **93m:60097**

— (*with* Xia, Pan) On Lévy-Baxter theorem for general two-parameter Gaussian processes. (English summary) **93i:60094**

Chizeck, Howard Jay *see* **Ji, Yuandong, 93m:93098**

Csáki, Endre (*with* Csörgő, Miklós; Shao, Qi Man) Fernique type inequalities and moduli of continuity for l^2-valued Ornstein-Uhlenbeck processes. (English and French summaries) **93k:60095**

Csörgő, Miklós (*with* Gombay, Edit; Horváth, Lajos) Central limit theorems for L_p distances of kernel estimators of densities under random censorship. **93d:60032**

— *see also* **Csáki, Endre; et al., 93k:60095**

Evans, Steven N. Equivalence and perpendicularity of local field Gaussian measures. **93m:60078**

Fernique, Xavier Sur la régularité des fonctions aléatoires D'Ornstein-Uhlenbeck à valeurs dans l_p, $p \in [1, \infty)$. (English and French summaries) [On the regularity of Ornstein-Uhlenbeck random functions with values in l_p, $p \in [1, \infty)$] **93i:60079**

Gao, Fu Qing Large deviations for stationary Gaussian fields. (English summary) **93i:60051**

Giuliano Antonini, Rita Sur le comportement asymptotique du processus de Ornstein-Uhlenbeck multidimensionnel. [Asymptotic behavior of the multidimensional Ornstein-Uhlenbeck process] **93h:60047**

Gombay, Edit *see* **Csörgő, Miklós; et al., 93d:60032**

Gorostiza, Luis G. (*with* López-Mimbela, J. Alfredo) The demographic variation process of multitype branching random fields. **93j:60065**

Gutiérrez Jáimez, Ramón (*with* Valderrama Bonnet, Mariano J.) A note about the Gaussian property of the Brownian bridge. (English summary) **93e:60163**

Hegerfeldt, Gerhard C. A quantum characterization of Gaussianness. (English summary) **93k:81121**

Hida, Takeyuki (*with* Si Si) Variational calculus for Gaussian random fields. **93j:49029**

Horváth, Lajos *see* **Csörgő, Miklós; et al., 93d:60032**

Jaffard, Stéphane *see* **Benassi, Albert; et al., 93f:60067**

Ji, Yuandong (*with* Chizeck, Howard Jay) Jump linear quadratic Gaussian control in continuous time. (English summary) **93m:93098**

Kang, Si-Ho *see* **Chang, Seung Jun, 93m:28016**

Kozachenko, Yu. V. (*with* Stadnik, A. I.) Convergence of some functionals of Gaussian vectors in Orlicz spaces. (Russian) **93d:60034**

— *see also* **Buldygin, V. V., 93g:60079; Zaĭtsev, I. I.** *and* **Besklinskaya, E. P.**

Kuelbs, James (*with* Li, Wenbo V.) Metric entropy and the small ball problem for Gaussian measures. (English and French summaries) **93g:60007**

Lacey, Michael On almost sure noncentral limit theorems. **93j:60037**

Leonenko, N. N. Limit distributions of measures of sojourns of vector Gaussian fields with strong dependence. **93e:60043**

Levy, Bernard C. Regular and reciprocal multivariate stationary Gaussian processes over **Z** are necessarily Markov. **93c:60051**

Li, Wenbo V. Limit theorems for the square integral of Brownian motion and its increments. **93e:60061**

— *see also* **Kuelbs, James, 93g:60007**

Linde, Werner Gaussian measures of large balls in $\mathbf{R}^n$. **93c:60018**

— Gaussian measure of large balls in l_p. **93e:60012**

López-Mimbela, J. Alfredo *see* **Gorostiza, Luis G., 93j:60065**

Luschgy, Harald Ordering regression models of Gaussian processes. (English summary) **93m:62015**

Mogul'skiĭ, A. A. *see* **Bjambajav, D., 93d:60039**

Nagaev, S. V. On a new approach to the study of the distribution of a norm of a random element in Hilbert space. **93d:60006**

Noda, Akio Lévy's Brownian motion and stochastic variational equation. **93h:60126**

Peszat, Szymon Law equivalence of solutions of some linear stochastic equations in Hilbert spaces. **93k:60158**

Petruševski, Ljiljana On some equivalence transformations of Hilbert space valued standard Wiener process. **93b:60076**

Richter, Matthias ★ Approximation of Gaussian random elements and statistics. **93m:62190**

Röckner, Michael *see* **Bogachev, V. I., 93i:60104**

Roux, Daniel *see* **Benassi, Albert; et al., 93f:60067**

Rychlik, Igor The two-barrier problem for continuously differentiable processes. **93b:60106**

Sabirov, Sh. O. *see* **Zavadníkova, V. B., 93f:60073**

Sakhno, L. M. Local times of a class of random fields. (Russian) **93j:60113**

Shao, Qi Man *see* **Csáki, Endre; et al., 93k:60095**

Si Si *see* **Hida, Takeyuki, 93j:49029**

Stadnik, A. I. *see* **Kozachenko, Yu. V., 93d:60034**

Sudakov, V. N. Remarks on modifications of random processes. (Russian. Russian summary) **93j:60050**

Takács, Lajos On the distribution of the integral of the absolute value of the Brownian motion. (English summary) **93i:60154**

Talagrand, Michel A simple proof of the majorizing measure theorem. **93b:60079**

Tempelman, A. A. *see* **Žalys, Albertas, 93f:60053**

Valderrama Bonnet, Mariano J. *see* **Gutiérrez Jáimez, Ramón, 93e:60163**

Voloshina, I. A. An extremal formula in estimating an integral with respect to a Gaussian measure. (Russian. Russian summary) **93k:60013**

Weber, Michel Jean Georges Radiance variation relative to the solar-inclination over a Gaussian model of relief. **93c:60078**

Xia, Pan *see* **Chen, Xiong, 93i:60094**

Yao, Qi Wei Boundary-crossing probabilities of some random fields related to likelihood ratio tests for epidemic alternatives. (English summary) **93j:60034**

Zaĭtsev, I. I. (*with* Kozachenko, Yu. V.) Distributions of errors in measurements by the impulse method. (Russian)

Žalys, Albertas (*with* Tempelman, A. A.) Generalized Gaussian fields with local interaction. (Russian. English and Lithuanian summaries) **93f:60053**

Zavadníkova, V. B. (*with* Sabirov, Sh. O.) On the convergence to the normal law of some functionals of Gaussian random fields. (Ukrainian. Russian and Ukrainian summaries) **93f:60073**

Zhang, Chun Sheng On the recurrence of Ornstein-Uhlenbeck processes. (English summary) **93i:60098**

Zimmerman, G. J. Sobolev derivatives and Itô decomposition formula for Gaussian processes using properties of their RKHSs. (English summary) **93k:60145**

60G17 Sample path properties

Arak, T. (*with* Surgailis, Donatas) Markov random graphs and polygonal fields with Y-shaped nodes. **93c:60054**

Buldygin, V. V. (*with* Kozachenko, Yu. V.) Exponential estimates for the distribution of the supremum of a class of random processes. (Russian. English and Russian summaries) **93g:60079**

Csáki, Endre (*with* Csörgő, Miklós; Shao, Qi Man) Fernique type inequalities and moduli of continuity for l^2-valued Ornstein-Uhlenbeck processes. (English and French summaries) **93k:60095**

— (*with* Csörgő, Miklós) Inequalities for increments of stochastic processes and moduli of continuity. **93c:60055**

Csörgő, Miklós (*with* Shao, Qi Man; Szyszkowicz, Barbara) A note on local and global functions of a Wiener process and some Rényi-type statistics. (English summary) **93i:60078**

— *see also* **Csáki, Endre, 93c:60055** *and* **93k:60095**

Daniev, Yu. F. (*with* Kushch, I. A.) Estimates for the probability of a random process staying in a band. (Russian. Russian and Ukrainian summaries)

Fernique, Xavier Les fonctions aléatoires à valeurs dans les espaces lusiniens et leurs modifications régulières. [Random functions with values in a Luzin space and their regular modifications] **93e:60078**

— Sur la régularité des fonctions aléatoires D'Ornstein-Uhlenbeck à valeurs dans l_p, $p \in [1, \infty)$. (English and French summaries) [On the regularity of Ornstein-Uhlenbeck random functions with values in l_p, $p \in [1, \infty)$] **93i:60079**

Hsieh, Nan Jui *see* **Kôno, Norio, 93m:60073**

Khoshnevisan, Davar Moment inequalities for functionals of the Brownian convex hull. **93e:60079**

— Local asymptotic laws for the Brownian convex hull. (English summary) **93k:60096**

Kôno, Norio (*with* Maejima, Makoto) Hölder continuity of sample paths of some self-similar stable processes. **93a:60062**

— (*with* Hsieh, Nan Jui) Local times and related sample path properties of certain self-similar processes. **93m:60073**

Kozachenko, Yu. V. *see* **Buldygin, V. V., 93g:60079**; **Vovk, L. B., 93k:60097** *and* **Zaĭtsev, I. I.**

Kushch, I. A. *see* **Daniev, Yu. F.**

Maejima, Makoto *see* **Kôno, Norio, 93a:60062**

Nagornii, V. N. An interpolation representation of random processes with equidistant interpolation nodes. (Ukrainian. Russian and Ukrainian summaries)

Nolan, John P. Bounded stationary stable processes and entropy. **93d:60068**

— Correction: "Path properties of index-β stable fields" [Ann. Probab. **16** (1988), no. 4, 1596–1607; MR 89i:60086]. **93f:60048**

Ragimov, F. G. Tangent approximation for the density of the time of first crossing of a stable process over a nonlinear boundary. II. (Russian. English and Azerbaijani summaries) **93g:60080**

Rosen, Jay The asymptotics of stable sausages in the plane. **93a:60063**

Shao, Qi Man *see* **Csörgő, Miklós; et al., 93i:60078** *and* **Csáki, Endre; et al., 93k:60095**

Soltani, A. Reza On local fluctuations of stable moving average processes. **93h:60062**

Sudakov, V. N. Remarks on modifications of random processes. (Russian. Russian summary) **93j:60050**

Surgailis, Donatas *see* **Arak, T., 93c:60054**

Szyszkowicz, Barbara *see* **Csörgő, Miklós; et al., 93i:60078**

Talagrand, Michel A simple proof of the majorizing measure theorem. **93b:60079**

Vovk, L. B. (*with* Kozachenko, Yu. V.) On the rate of convergence in Lévy-Baxter theorems for some classes of random processes. (Ukrainian. Russian and Ukrainian summaries) **93k:60097**

Wright, A. Larry A strong limit theorem for processes with associated increments. (English summary) **93j:60051**

Zaĭtsev, I. I. (*with* Kozachenko, Yu. V.) Distributions of errors in measurements by the impulse method. (Russian)

Zhou, Xian Yin The Hölder continuity of Westwater process and its applications. **93b:60080**

— Hausdorff dimension of the double point set of the Westwater process. **93e:60080**

Items with secondary classifications in 60G17

Albin, J. M. P. Extremes and crossings for differentiable stationary processes with application to Gaussian processes in $\mathbf{R}^m$ and Hilbert space. **93h:60056**

Baccelli, François (*with* Konstantopoulos, Panagiotis) Estimates of cycle times in stochastic Petri nets. **93f:68071**

— Ergodic theory of stochastic Petri networks. **93a:68110**

Basak, Gopal K. Stability for temporally nonhomogeneous singular diffusion. (English summary) **93i:60146**

Berman, Simeon M. ★ Sojourns and extremes of stochastic processes. **93a:60055**

Bertoin, Jean Increase of a Lévy process with no positive jumps. **93e:60149**

— An extension of Pitman's theorem for spectrally positive Lévy processes. (English summary) **93k:60191**

Bézandry, Paul Hubert ★ Régularité et propriétés limites des fonctions aléatoires à trajectoires dans $D([0, 1])$. (French) [Regularity and limit properties of random functions with trajectories in $D([0, 1])$] **93k:60015**

— (*with* Fernique, Xavier) Sur la propriété de la limite centrale dans $\mathcal{D}[0, 1]$. (English summary) [On the central limit property in $\mathcal{D}[0, 1]$] **93j:60004**

Bishop, Christopher J. Brownian motion in Denjoy domains. **93a:60125**

Chen, Bin The maximum of a Wiener process and its location. (Chinese. English summary) **93c:60122**

Chen, Pei De Multi-parameter stochastic processes. **93a:60054**

Chen, Xiong A property of sample paths of the N-parameter d-dimensional Ornstein-Uhlenbeck process. (Chinese. English and Chinese summaries) **93m:60097**

Dmitrovskiĭ, V. A. On the integrability of the maximum and the local properties of Gaussian fields. **93d:60064**

Dovgalyuk, V. V. (*with* Piterbarg, V. I.) Large deviations of the trajectories of a Poisson process. (Russian) (*see* **93b:60003**)

Duplantier, Bertrand (*with* Lawler, Gregory F.; Le Gall, Jean-François; Lyons, T. J.) The geometry of the Brownian curve. (English and French summaries) **93k:60205**

El-Taha, Muhammad On conditional ASTA: a sample-path approach. **93e:60181**

Epstein-Feldman, Raisa Autoregressive processes and first-hit probabilities for randomized random walks. **93a:60100**

Evans, Steven N. Polar and nonpolar sets for a tree indexed process. **93e:60156**

Fernique, Xavier À propos d'un exemple d'équation différentielle stochastique en dimension infinie. [On an example of an infinite-dimensional stochastic differential equation] (*see* **93b:60006**)

— *see also* **Bézandry, Paul Hubert, 93j:60004**

Földes, Antónia (*with* Puri, Madan L.) The time spent by the Wiener process in a narrow tube before leaving a wide tube. **93d:60131**

Fristedt, Bert E. (*with* Taylor, Samuel James) The packing measure of a general subordinator. **93e:60150**

Giuliano Antonini, Rita Sur le comportement asymptotique du processus de Ornstein-Uhlenbeck multidimensionnel. [Asymptotic behavior of the multidimensional Ornstein-Uhlenbeck process] **93h:60047**

Grill, Karl On the increments of the Wiener process. (English summary) **93i:60058**

Hsieh, Nan Jui Multiple points of sample paths of Markov processes. **93e:60151**

Ibragimov, I. A. Remarks on variations of random functions of several variables. (Russian. Russian summary) **93i:60097**

Jagerman, David L. (*with* Melamed, Benjamin) The transition and autocorrelation structure of TES processes. I. General theory. **93h:62159**

— (*with* Melamed, Benjamin) The transition and autocorrelation structure of TES processes. II. Special cases. (English summary) **93h:62160**

Kalinauskaitė, N. On multiple points of some stable random fields. (Russian and Lithuanian summaries) **93e:60097**

Konstantopoulos, Panagiotis *see* **Baccelli, François, 93f:68071**

Lawler, Gregory F. *see* **Duplantier, Bertrand; et al., 93k:60205**

Le Gall, Jean-François *see* **Duplantier, Bertrand; et al., 93k:60205**

León R., José Rafael (*with* Ortega, Joaquín) Crossings and local times for regularized Gaussian processes: L^2 convergence. (French summary) **93a:60060**

Li, Wenbo V. Lim inf results for the Wiener process and its increments under the L_2-norm. **93g:60077**

Lin, Zheng Yan (*with* Lu, Chuan Rong) ★ Strong limit theorems. **93k:60076**

Lu, Chuan Rong *see* **Lin, Zheng Yan, 93k:60076**

Lyons, T. J. (*with* Röckner, Michael) A note on tightness of capacities associated with Dirichlet forms. **93a:60008**

— *see also* **Duplantier, Bertrand; et al., 93k:60205**

Mao, Xuerong Lyapunov functions and almost sure polynomial stability. **93j:60086**

Marcus, Michael B. Continuity in l^p of certain Ornstein-Uhlenbeck processes. **93a:60061**

— (*with* Rosen, Jay) Moduli of continuity of local times of strongly symmetric Markov processes via Gaussian processes. (English summary) **93k:60090**

Melamed, Benjamin *see* **Jagerman, David L., 93h:62159** *and* **93h:62160**

Millet, Annie (*with* Smoleński, W.) On the continuity of Ornstein-Uhlenbeck processes in infinite dimensions. **93d:60066**

Ortega, Joaquín *see* **León R., José Rafael, 93a:60060**

Ostrovskiĭ, E. I. Two-sided exponential estimates for the distribution of the maximum of a random field. (Russian)

Piterbarg, V. I. *see* **Dovgalyuk, V. V., (93b:60003)**

Pruitt, William E. An integral test for subordinators. **93b:60168**

Puri, Madan L. *see* **Földes, Antónia, 93d:60131**

Röckner, Michael *see* **Lyons, T. J., 93a:60008**

Rosen, Jay *see* **Marcus, Michael B., 93k:60090**

Rudzkis, R. Probabilities of large excursions of empirical processes and fields. (Russian) **93d:60040**

Rychlik, Igor The two-barrier problem for continuously differentiable processes. **93b:60106**

Saran, Jagdish On some joint laws in fluctuations of sums of random variables. **93f:60013**

Shao, Qi Man On the law of the iterated logarithm for infinite-dimensional Ornstein-Uhlenbeck processes. (English summary) **93j:60049**

Shermatov, A. A. (*with* Yarova, N. V.) Cumulant conditions for the Lipschitz property of fields of shot effect type. (Ukrainian. Russian and Ukrainian summaries) **93k:60128**

Smoleński, W. *see* **Millet, Annie, 93d:60066**

Szlenk, P. Hitting time of the positive semi-axis for Wiener process in $\mathbf{R}^2$. **93d:60133**

Sznitman, Alain-Sol On long excursions of Brownian motion among Poissonian obstacles. **93e:60167**

Talagrand, Michel Approximating a helix in finitely many dimensions. (English and French summaries) **93f:46056**

— Necessary and sufficient conditions for sample continuity of random Fourier series and of harmonic infinitely divisible processes. **93g:60074**

Taylor, Samuel James *see* **Fristedt, Bert E., 93e:60150**

Wschebor, Mario Sur les accroissements du processus de Wiener. (English and French summaries) [On the increments of the Wiener process] **93h:60128**

Xiao, Yi Min Multiple points of fractional Brownian motion and Hausdorff dimension. (Chinese) **93b:60186**

Yang, Xin Jian L^p integrability of densities of random vectors and its applications. (Chinese. English summary) **93d:60020**

Yarova, N. V. *see* **Shermatov, A. A., 93k:60128**

Zhou, Xian Yin Hausdorff dimension of the sample path of the Westwater process. **93g:60180**

— The intersection local time of the Westwater process. **93c:60053**

60G18 Self-similar processes

Astrauskas, A. (*with* Levy, J. B.; Taqqu, Murad S.) The asymptotic dependence structure of the linear fractional Lévy motion. (Russian and Lithuanian summaries) **93f:60049**

Giraitis, L. (*with* Surgailis, Donatas) On shot noise processes with long range dependence. **93d:60069**

Hsieh, Nan Jui Local nondeterminism and self-intersections of certain self-similar stable processes. (*see* **93k:60008**)

Levy, J. B. *see* **Astrauskas, A.; et al., 93f:60049**

Sato, Ken-iti Distributions of class L and self-similar processes with independent increments. **93e:60081**
— Self-similar processes with independent increments. **93c:60056**
Surgailis, Donatas *see* **Giraitis, L., 93d:60069**
Takenaka, Shigeo Integral-geometric construction of self-similar stable processes. **93d:60070**
Taqqu, Murad S. *see* **Astrauskas, A.; et al., 93f:60049**
Vervaat, Wim Properties of general self-similar processes. **93m:60074**

Items with secondary classifications in 60G18

Albin, J. M. P. On the general law of iterated logarithm with application to selfsimilar processes and to Gaussian processes in $\mathbf{R}^n$ and Hilbert space. **93c:60039**
Giraitis, L. (*with* Surgailis, Donatas) On shot noise processes attracted to fractional Lévy motion. **93a:60027**
Hsieh, Nan Jui *see* **Kôno, Norio, 93m:60073**
Kôno, Norio Recent development on random fields and their sample paths. III. Self-similar processes. **93c:60071**
— (*with* Maejima, Makoto) Hölder continuity of sample paths of some self-similar stable processes. **93a:60062**
— (*with* Hsieh, Nan Jui) Local times and related sample path properties of certain self-similar processes. **93m:60073**
Maejima, Makoto *see* **Kôno, Norio, 93a:60062**
Muraoka, Hiroshi A fractional Brownian motion and the canonical representations of its coefficient processes. (English summary) **93i:60075**
Surgailis, Donatas *see* **Giraitis, L., 93a:60027**

60G20 Generalized stochastic processes

Betounes, David (*with* Redfern, Mylan) Differential forms with values in $(L^2)^-$. **93f:60050**
— (*with* Redfern, Mylan) Wiener distributions and white noise analysis. **93k:60098**
Hida, Takeyuki (*with* Potthoff, Jürgen) White noise analysis—an overview. **93g:60081**
— Stochastic variational calculus. (*see* **93b:60006**)
— (*with* Kuo, Hui-Hsiung) Semigroups associated with generalized Brownian functionals. **93i:60080**
Hsieh, Nan Jui (*with* Yokoi, Yoshitaka) Positivity of Donsker's delta function. **93m:60075**
Kuo, Hui-Hsiung Lectures on white noise analysis. **93k:60099**
— *see also* **Hida, Takeyuki, 93i:60080**
Lewicki, Paweł Non-Markovian fluctuation limits of infinite particle systems. **93d:60071**
Lindstrøm, Tom (*with* Øksendal, Bernt; Ubøe, Jan) Stochastic differential equations involving positive noise. **93f:60051**
Lozanov-Crvenković, Z. (*with* Pilipović, Stevan) Representation theorems for Gaussian generalized random processes on $\Omega \times C[0,1]$ and $\Omega \times L^1(G)$. (English summary) **93i:60081**
Øksendal, Bernt *see* **Lindstrøm, Tom; et al., 93f:60051**
Pilipović, Stevan *see* **Lozanov-Crvenković, Z., 93i:60081**
Potthoff, Jürgen Introduction to white noise analysis. **93g:60082**
— (*with* Yan, Jia An) Some results about test and generalized functionals of white noise. **93k:60100**
— *see also* **Hida, Takeyuki, 93g:60081**
Rao, Malempati M. $L^{2,2}$-boundedness, harmonizability, and filtering. **93i:60082**
Razafimanantena, Edouard A. Construction of a general class of Dirichlet forms in terms of white noise analysis. **93b:60081**
Redfern, Mylan *see* **Betounes, David, 93f:60050** *and* **93k:60098**
Saitô, Kimiaki Itô's formula and Lévy's Laplacian. II. **93c:60057**
Schneider, W. R. Grey noise. (English summary) **93g:60083**
Streit, Ludwig White noise analysis theory and applications. (*see* **93e:81006**)
Tempelman, A. A. *see* **Žalys, Albertas, 93f:60053**
Ubøe, Jan *see* **Lindstrøm, Tom; et al., 93f:60051**
Watanabe, Hisao The local time of self-intersections of Brownian motions as generalized Brownian functionals. **93b:60082**
Yan, Jia An *see* **Potthoff, Jürgen, 93k:60100**
Yang, Yong Xin Asymptotic distributions of order statistics with variable ranks from exchangeable sequences. (Chinese. English and Chinese summaries)
Yokoi, Yoshitaka Positive generalized Brownian functionals. **93f:60052**
— *see also* **Hsieh, Nan Jui, 93m:60075**
Žalys, Albertas (*with* Tempelman, A. A.) Generalized Gaussian fields with local interaction. (Russian. English and Lithuanian summaries) **93f:60053**

Items with secondary classifications in 60G20

Albeverio, Sergio (*with* Röckner, Michael) Infinite-dimensional diffusions connected with positive generalized white noise functionals. **93g:60165**
Amine, Saïda Loi des grands nombres et théorème de la limite centrale pour les distributions sur l'espace de Wiener. (English and French summaries) [Law of large numbers and central limit theorem for distributions on Wiener space] **93m:60110**
Dalang, Robert C. (*with* Walsh, John B.) The sharp Markov property of the Brownian sheet and related processes. **93f:60068**
De Santis, Alberto (*with* Gandolfi, Alberto; Germani, Alfredo; Tardelli, Paola) A representation theorem for Radon-Nikodým derivatives in the white-noise theory. (English summary) **93h:60006**
Einmahl, Uwe (*with* Mason, David M.) Approximations to permutation and exchangeable processes. **93a:60051**
Fagnola, Franco A Lévy theorem for free noises. **93a:46120**
de Faria, M. (*with* Potthoff, Jürgen; Streit, Ludwig) The Feynman integrand as a Hida distribution. **93f:81068**
Fernández, Begoña (*with* Gorostiza, Luis G.) A criterion of convergence of generalized processes and an application to a supercritical branching particle system. **93d:60054**
— (*with* Gorostiza, Luis G.) Stability of a class of transformations of distribution-valued processes and stochastic evolution equations. (English summary) **93m:60064**
Fernique, Xavier Les fonctions aléatoires à valeurs dans les espaces lusiniens et leurs modifications régulières. [Random functions with values in a Luzin space and their regular modifications] **93e:60078**
Freidlin, Mark I. (*with* Sowers, Richard B.) Central limit theorem results for a reaction-diffusion equation with fast-oscillating boundary perturbations. **93i:60150**
Gandolfi, Alberto *see* **De Santis, Alberto; et al., 93h:60006**
Germani, Alfredo *see* **De Santis, Alberto; et al., 93h:60006**
Gorostiza, Luis G. *see* **Fernández, Begoña, 93d:60054** *and* **93m:60064**
Hida, Takeyuki (*with* Si Si) Variational calculus for Gaussian random fields. **93j:49029**
Ito, Yoshifusa (*with* Kubo, Izumi; Takenaka, Shigeo) Calculus on Gaussian white noise and Kuo's Fourier transform. **93m:46043**
Kallianpur, Gopinath Traces, natural extensions and Feynman distributions. **93k:60143**
Khandekar, Dinkar C. (*with* Streit, Ludwig) Constructing the Feynman integrand. **93a:60081**
Kondrat'ev, Yu. G. (*with* Streit, Ludwig) A remark about a norm estimate for white noise distributions. (English and Ukrainian summaries) **93m:46047**
Körezlioğlu, H. (*with* Üstünel, Ali Süleyman) Distributions, Girsanov and degree theorems on Wiener spaces. **93f:60082**
Kubo, Izumi *see* **Ito, Yoshifusa; et al., 93m:46043**
Lewicki, Paweł Infinite interacting particle systems: the fluctuation phenomenon. **93m:60066**
López-Mimbela, J. Alfredo Fluctuation limits of multitype branching random fields. **93b:60044**
Mason, David M. *see* **Einmahl, Uwe, 93a:60051**
Potthoff, Jürgen (*with* Streit, Ludwig) Generalized Radon-Nikodým derivatives and Cameron-Martin theory. **93f:46069**
— White noise methods for stochastic partial differential equations. (*see* **93b:60006**)
— *see also* **de Faria, M.; et al., 93f:81068**
Röckner, Michael *see* **Albeverio, Sergio, 93g:60165**
Si Si Variational calculus for Lévy's Brownian motion and a generalization. **93g:60108**
— *see also* **Hida, Takeyuki, 93j:49029**
Sowers, Richard B. *see* **Freidlin, Mark I., 93i:60150**
Streit, Ludwig *see* **Khandekar, Dinkar C., 93a:60081**; **Potthoff, Jürgen, 93f:46069**; **de Faria, M.; et al., 93f:81068** *and* **Kondrat'ev, Yu. G., 93m:46047**
Takenaka, Shigeo *see* **Ito, Yoshifusa; et al., 93m:46043**
Tardelli, Paola *see* **De Santis, Alberto; et al., 93h:60006**
Tempelman, A. A. *see* **Žalys, Albertas, 93d:60171**
Üstünel, Ali Süleyman *see* **Körezlioğlu, H., 93f:60082**
Walsh, John B. *see* **Dalang, Robert C., 93f:60068**
Watanabe, Shinzo Donsker's δ-functions in the Malliavin calculus. **93c:60084**
(Yan, Jia An) *see* **Errata: "Generalizations of Gross' and Minlos' theorems", 93h:28022**
Žalys, Albertas (*with* Tempelman, A. A.) Generalized Gaussian fields with local interaction that are stationary over a space. (Russian) **93d:60171**

Items listed otherwise than by author

Errata:
"Generalizations of Gross' and Minlos' theorems" Correction: "Generalizations of Gross' and Minlos' theorems" [in *Séminaire de Probabilités, XXIII*, 395–404, Lecture Notes in Math., 1372, Springer, Berlin, 1989; MR 91e:28011] by J. A. Yan. (French) **93h:28022**

60G25 Prediction theory [see also 62M20]

Bensaïd, Nadia Méthode hilbertienne pour la prévision non paramétrique d'un processus ponctuel. (English summary) [Hilbert method for the nonparametric prediction of a point process] **93b:60083**
Cambanis, Stamatis (*with* Miamee, A. G.) On prediction of harmonizable stable processes. (English summary) **93c:60058**
Cheng, Raymond On the prediction error for two-parameter stationary random fields. **93h:60063**
— Hölder classes of vector-valued functions and convergence of the best predictor. (English summary) **93h:60064**
Jeske, Daniel R. Predicting the value of an integer-valued random variable. (English summary) **93m:60076**
Kowalski, Aleksander (*with* Szynal, Dominik) On prediction in time-dependent L^1-ARMA models. **93b:60084**
Kuznětsova, O. M. Prediction problems for an isotropic random field on a Hilbert space. (Russian) **93f:60054**
Loubaton, Philippe A regularity criterion for lexicographical prediction of multivariate wide-sense stationary processes on $\mathbf{Z}^2$ with non-full-rank spectral densities. **93b:60085**
Miamee, A. G. *see* **Cambanis, Stamatis, 93c:60058**
Moklyachuk, M. P. Linear prediction of random processes under conditions of uncertainty. (Russian) **93d:60072**
— On the problem of minimax extrapolation of vector sequences that are perturbed by white noise. (Ukrainian. Russian and Ukrainian summaries) **93k:60101**
Pourahmadi, Mohsen Robust prediction of multivariate stationary processes. (English summary) **93e:60082**
— Alternating projections and interpolation of stationary processes. (English summary) **93m:60077**
Szynal, Dominik *see* **Kowalski, Aleksander, 93b:60084**
Xu, Ye Ji Linear prediction of a homogeneous random field with discrete parameters and its asymptotic behavior. (Chinese. English and Chinese summaries)

Items with secondary classifications in 60G25

Benedetto, John J. Stationary frames and spectral estimation. (English summary) **93g:42010**
Cheng, Raymond Rational spectral densities and strong mixing. (English summary) **93i:60095**
— Weakly and strongly outer functions on the bidisc. **93e:32004**
Epstein-Feldman, Raisa Autoregressive processes and first-hit probabilities for randomized random walks. **93a:60100**
Gabardo, Jean-Pierre Two problems in multidimensional prediction theory. **93f:42026**
Hardin, Jay C. *see* **Miamee, A. G., 93e:60070**

Hösel, Volker (*with* Lasser, Rupert) One-step prediction for P_n-weakly stationary processes. **93f:60044**
Houdré, Christian On the linear prediction of multivariate $(2, p)$-bounded processes. **93a:60056**
Lasser, Rupert *see* **Hösel, Volker, 93f:60044**
Leitner, Martin Regularity and singularity of weakly stationary processes indexed by a commutative hypergroup. **93j:60043**
Mehlman, Marc H. Prediction and fundamental moving averages for discrete multidimensional harmonizable processes. (English summary) **93k:60086**
Miamee, A. G. (*with* Hardin, Jay C.) On a class of nonstationary stochastic processes. (English summary) **93e:60070**
Pogány, Tibor Sharp truncation error bound in the sampling reconstruction of homogeneous random fields. (English summary) **93g:60106**
Rao, Malempati M. Sampling and prediction for harmonizable isotropic random fields. (English summary) **93g:60107**
Słociński, M. (*with* Stochel, Jan) Weighted square summable and generalized harmonizable sequences. **93k:60087**
Stochel, Jan *see* **Słociński, M., 93k:60087**

60G30 Continuity and singularity of induced measures

Afanas'ev, A. A. On the Hellinger process for binary experiments. (Russian) **93d:60073**
Elliott, Robert James (*with* Kopp, P. Ekkehard) Equivalent martingale measures for bridge processes. **93a:60064**
Evans, Steven N. Equivalence and perpendicularity of local field Gaussian measures. **93m:60078**
Fernique, Xavier Sur l'équivalence de certaines mesures produit. (English and French summaries) [On the equivalence of some product measures] **93e:60083**
Kopp, P. Ekkehard *see* **Elliott, Robert James, 93a:60064**
Marques, Mauro S. de F. (*with* San Martin, Luiz) Quasi-invariance of product measures under Lie group perturbations: Fisher information and L^2-differentiability. (English summary) **93h:60065**
Mortimer, T. M. (*with* Williams, David) Change of measure up to a random time: theory. **93a:60065**
Muraoka, Hiroshi Equivalence problems for Gaussian multiple Markov processes and their canonical representations. (English summary) **93m:60079**
Peszat, Szymon Equivalence of distributions of some Ornstein-Uhlenbeck processes taking values in Hilbert space. (English summary) **93m:60080**
Rudowicz, Rafał Admissible translations of the Brownian motion on a Lie group. (English summary) **93j:60052**
San Martin, Luiz *see* **Marques, Mauro S. de F., 93h:60065**
Satô, Hiroshi[1] Absolute continuity of locally equivalent Markov chains. **93f:60055**
Williams, David *see* **Mortimer, T. M., 93a:60065**
Zabczyk, Jerzy Law equivalence of Ornstein-Uhlenbeck processes. **93j:60053**

Items with secondary classifications in 60G30

Airault, Hélène Formules de Cameron-Martin-Girsanov-Kusuoka-Buckdahn. Application à l'étude des retractes. (English and French summaries) [Cameron-Martin-Girsanov-Kusuoka-Buckdahn formulas, and the study of retracts] **93m:60109**
Bouleau, Nicolas (*with* Hirsch, Francis) ★ Dirichlet forms and analysis on Wiener space. **93e:60107**
Chaleyat-Maurel, Mireille (*with* Nualart, David) The Onsager-Machlup functional for a class of anticipating processes. (English summary) **93i:60105**
Fuchs, Aimé (*with* Letta, Giorgio) Un résultat élémentaire de fiabilité. Application à la formule de Weierstrass sur la fonction gamma. (French summary) [An elementary reliability result. Application to the Weierstrass formula on the gamma function] **93k:60034**
Govindarajulu, Z. *see* **de la Peña, Victor H., 93i:60085**
Graczyk, Piotr Malliavin calculus for stable processes on homogeneous groups. **93i:60106**
Hewitt, Edwin *see* **Ritter, Gunter, 93i:28003**
Hirsch, Francis *see* **Bouleau, Nicolas, 93e:60107**
Hora, Akihito Quasi-invariant measures on the infinite product of SU(2). **93g:22008**
Inoue, Kazuyuki (*with* Takeda, Hiroshi) An elementary construction of processes with independent increments. **93a:60111**
Körezlioğlu, H. (*with* Üstünel, Ali Süleyman) Distributions, Girsanov and degree theorems on Wiener spaces. **93f:60082**
Koumandos, Stamatis A class of equivalent measures. (English summary) **93g:60071**
Letta, Giorgio *see* **Fuchs, Aimé, 93k:60034**
Nualart, David *see* **Chaleyat-Maurel, Mireille, 93i:60105**
de la Peña, Victor H. (*with* Govindarajulu, Z.) A note on second moment of a randomly stopped sum of independent variables. (English summary) **93i:60085**
Pogány, Tibor Singularity as L_2-regularity and vice versa. (Serbo-Croatian summary) **93e:60073**
Ritter, Gunter (*with* Hewitt, Edwin) Elliott-Morse measures and Kakutani's dichotomy theorem. **93i:28003**
Takeda, Hiroshi *see* **Inoue, Kazuyuki, 93a:60111**
Üstünel, Ali Süleyman *see* **Körezlioğlu, H., 93f:60082**

60G35 Applications (signal detection, filtering, etc.) [see also 62M20, 93E10, 93E11, 94Axx]

Arjas, Elja (*with* Haara, Pentti; Norros, Ilkka) Filtering the histories of a partially observed marked point process. **93j:60054**
Belitser, E. N. (*with* Korostelëv, A. P.) Pseudovalues and minimax filtering algorithms for the nonparametric median. **93k:60102**
Björk, Tomas (*with* Johansson, Björn) Adaptive prediction and reverse martingales. (English summary) **93m:60081**
Cambanis, Stamatis Random filters which preserve the normality of nonstationary random inputs. (English summary) **93k:60103**
Demin, N. S. Extrapolation of random processes in continuous-discrete observation channels with memory. (Russian. Russian summary)
Dinten, J. M. (*with* Guyon, Xavier; Yao, Jian Feng) On the choice of the regularization parameter: the case of binary images in the Bayesian restoration framework. (English summary) **93j:60055**
Golubev, G. A. (*with* Pisarev, O. V.) Linear filtering of stationary discrete-time processes. (Russian. Russian summary) **93k:60104**
Golubev, G. K. Quasilinear filtering of Gaussian stationary sequences. (Russian) **93e:60084**
Guyon, Xavier *see* **Dinten, J. M.; et al., 93j:60055**
Haara, Pentti *see* **Arjas, Elja; et al., 93j:60054**
Houdré, Christian Some recent results on the sampling theorem. (English summary) (*see* **93e:00029**)
Johansson, Björn *see* **Björk, Tomas, 93m:60081**
Kallianpur, Gopinath A skeletal theory of filtering. **93d:60074**
Kedem, Benjamin (*with* Lopes, Silvia) Fixed points in mixed spectrum analysis. (English summary) (*see* **93e:00029**)
Khas'minskii, R. Z. (*with* Lazareva, B. V.) On some filtration procedure for jump Markov process observed in white Gaussian noise. (English summary) **93m:60082**
Korostelëv, A. P. *see* **Belitser, E. N., 93k:60102**
Kul'man, N. K. Asymptotically optimal linear filtering of a Gaussian process in a channel with delay. (Russian) (*see* **93b:60003**)
Kuznětsova, O. M. On the problem of filtering an isotropic random field in a Hilbert space. (Ukrainian. Russian and Ukrainian summaries) **93k:60105**
Lacaze, Bernard L'interpolation des suites de variables aléatoires et la stationnarité. (English and French summaries) [Interpolation of random sequences and stationarity]
Lazareva, B. V. *see* **Khas'minskii, R. Z., 93m:60082**
Lopes, Silvia *see* **Kedem, Benjamin, (93e:00029)**
Moklyachuk, M. P. Minimax filtering of linear transformations of stationary processes. (Russian) **93g:60084**
— (*with* Tatarinov, S. V.) Minimax filtering of homogeneous random fields. (Russian) **93i:60083**
— (*with* Tatarinov, S. V.) On the problem of robust filtering of homogeneous random fields. (Ukrainian. Russian and Ukrainian summaries) **93k:60106**
— (*with* Tatarinov, S. V.) Minimax filtering of homogeneous random fields with white noise. (Russian) **93c:60059**
Norros, Ilkka *see* **Arjas, Elja; et al., 93j:60054**
Pisarev, O. V. *see* **Golubev, G. A., 93k:60104**
Stettner, Łukasz Invariant measures of the pair: state, approximate filtering process. **93a:60066**
Tatarinov, S. V. *see* **Moklyachuk, M. P., 93c:60059; 93i:60083** *and* **93k:60106**
Trần Hùng Thao Note on filtering from point process. **93b:60086**
Yao, Jian Feng *see* **Dinten, J. M.; et al., 93j:60055**

Items with secondary classifications in 60G35

Benassi, Albert Analyse multi-échelle et probabilités. [Multiscale analysis and probability theory] (*see* **93k:65002**)
Bensoussan, Alain ★ Stochastic control of partially observable systems. **93i:93001**
Bukhalev, V. A. Optimal smoothing in systems with a randomly switching structure. (Russian. Russian summary) **93i:93126**
Cipra, Tomáš (*with* Rubio, Asunción; Trujillo, J.) Time series analysis: recursive methods and their modifications for time series with outliers and missing observations. (English summary)
Dzhamburiya, L. G. *see* **Glonti, O. A., 93d:94011**
Enchev, Ognian Nonlinear filtering for signal correlated with the noise. (*see* **93d:93009**)
Ershov, L. A. (*with* Mazmanishvili, A. S.; Tolmachev, V. I.) Application of methods of continual integration with respect to a dissipative measure in problems of optimal filtering of random processes. (Russian) **93d:93082**
Feliachi, Ali Distributed filtering. (English summary) **93j:93144**
de Figueiredo, Rui J. P. *see* **Yu, Yao Qi, 93m:94009**
Florchinger, Patrick Existence of a smooth density for the filter in nonlinear filtering on manifolds. (English summary) **93d:60099**
Glonti, O. A. (*with* Dzhamburiya, L. G.) Optimal transmission of Gaussian signals involving cost of feedback. **93d:94011**
Helfer, Adam D. (*with* Zhao, Zhong Xin) Gaussian integrals on Wiener spaces. **93e:60075**
James, Matthew R. (*with* Le Gland, François) Numerical approximation for nonlinear filtering and finite-time observers. **93f:93127**
Kallianpur, Gopinath (*with* Xiong, Jie) A nuclear space-valued stochastic differential equation driven by Poisson random measures. (*see* **93b:60006**)
— (*with* Karandikar, Rajeeva L.) An introduction to white-noise analysis and nonlinear filtering. (*see* **93g:93003**)
Karandikar, Rajeeva L. *see* **Kallianpur, Gopinath, (93g:93003)**
Krasheninnikov, V. R. *see* **Vasil'ev, K. K., 93h:93004**
Le Gland, François Splitting-up approximation for SPDEs and SDEs with application to nonlinear filtering. (English summary) (*see* **93b:60006**)
— *see also* **James, Matthew R., 93f:93127**
Mazmanishvili, A. S. *see* **Ershov, L. A.; et al., 93d:93082**
Meng, Qing Sheng Random sequency analysis. **93d:73050**
Minamide, Nariyasu (*with* Nikiforuk, Peter N.) Conditional entropy theorem for recursive parameter estimation and its application to state estimation problems. (English summary) **93k:93107**
Nikiforuk, Peter N. *see* **Minamide, Nariyasu, 93k:93107**
Pardoux, Étienne (*with* Roubaud, M. C.) Finite-dimensional approximate filters in the case of high signal-to-noise ratio. **93a:93108**
Potselnev, A. V. Fundamentals of statistical analysis and synthesis of complicated dynamic systems. **93c:93009**
Roubaud, M. C. *see* **Pardoux, Étienne, 93a:93108**
Rubio, Asunción *see* **Cipra, Tomáš; et al.**
Rychlik, Igor The two-barrier problem for continuously differentiable processes. **93b:60106**
Sklyar, M. V. *see* **Zgurovskii, M. Z., 93f:93121**
Tolmachev, V. I. *see* **Ershov, L. A.; et al., 93d:93082**

Trujillo, J. *see* **Cipra, Tomáš; et al.**
Vasil'ev, K. K. (*with* Krasheninnikov, V. R.) ★ Методы фильтрации многомерных случайных полей. (Russian. Russian summary) [Methods for filtering multidimensional random fields] **93h:93004**
Xiong, Jie *see* **Kallianpur, Gopinath**, (**93b:60006**)
Yu, Yao Qi (*with* de Figueiredo, Rui J. P.) Convergence of the calculation of the innovation process. (English summary) **93m:94009**
Zgurovskii, M. Z. (*with* Sklyar, M. V.) ★ Оценивание состояний и параметров стохастических сингулярно возмущенных по времени систем с распределенными параметрами. (Russian) [Estimation of the states and parameters of stochastic systems, singularly perturbed with respect to time, with distributed parameters] **93f:93121**
Zhao, Zhong Xin *see* **Helfer, Adam D.**, **93e:60075**

60G40 Stopping times; optimal stopping problems; gambling theory [see also 62L15, 90D60]

Algoet, Paul H. Universal schemes for prediction, gambling and portfolio selection. **93d:60075**
Ano, Katsunori A secretary problem with restricted offering chances and random number of applications. **93c:60060**
Bakia, I. A. On the payoff convergence rate estimation in the problem of optimal stopping of random processes in the Kalman-Bucy scheme. (Russian and Georgian summaries)
Bassily, N. L. On an inequality of M. J. Klass. **93b:60087**
— (*with* Ishak, S.) Applications of Wald's identity with some famous stopping times. **93i:60084**
Boshuizen, Frans A. Multivariate prophet inequalities for negatively dependent random vectors. **93g:60085**
— (*with* Hill, Theodore P.) Moment-based minimax stopping functions for sequences of random variables. (English summary) **93j:60056**
Bruss, F. Thomas Optimal selection, learning and machine implementation. **93f:60056**
Dalal, S. R. (*with* Mallows, Colin L.) Buying with exact confidence. (English summary) **93k:60107**
El Karoui, Nicole (*with* Karatzas, Ioannis) A new approach to the Skorohod problem, and its applications. **93b:60088a**
— (*with* Karatzas, Ioannis) Correction: "A new approach to the Skorohod problem, and its applications". **93b:60088b**
— (*with* Lepeltier, J.-P.; Millet, Annie) A probabilistic approach to the reduite in optimal stopping. (English summary) **93k:60108**
Ferenstein, Elżbieta Z. Two-person non-zero-sum sequential games with priorities. **93k:60109**
Ferguson, Thomas S. Best-choice problems with dependent criteria. **93g:60086**
— (*with* Hardwick, J. P.; Tamaki, M.) Maximizing the duration of owning a relatively best object. **93h:60066**
Gilat, David Some maximal moment-inequalities for martingales. **93f:60057**
Gnedin, A. V. (*with* Sakaguchi, Minoru) On a best choice problem related to the Poisson process. **93d:60076**
— Multicriteria extensions of the best choice problem: sequential selection without linear order. **93g:60087**
Govindarajulu, Z. The secretary problem: optimal selection from two streams of candidates. **93g:60088**
— The secretary problem: optimal selection with batch-interviewing and cost. (English and French summaries) **93m:60083**
— *see also* **de la Peña, Victor H.**, **93i:60085**
Hardwick, J. P. *see* **Ferguson, Thomas S.; et al.**, **93h:60066**
Harenbrock, Marion (*with* Schmitz, Norbert J.) Optional sampling of submartingales with scanned index sets. **93e:60085**
Hill, Theodore P. (*with* Krengel, Ulrich) A prophet inequality related to the secretary problem. **93b:60089**
— (*with* Kertz, Robert P.) A survey of prophet inequalities in optimal stopping theory. **93g:60089**
— (*with* Kennedy, Douglas P.) Sharp inequalities for optimal stopping with rewards based on ranks. **93f:60058**
— *see also* **Boshuizen, Frans A.**, **93j:60056**
Ikuta, Seizo The optimal stopping problem in which the sum of the accepted offer's value and the remaining search budget is an objective function. (English summary) **93j:60057**
Ishak, S. Remarks on a theorem of Burkholder and Gundy. **93b:60090**
— *see also* **Bassily, N. L.**, **93i:60084**
Jin, Zhi Ming The optimal stopping problem of a continuous parameter process. **93h:60067**
Karatzas, Ioannis *see* **El Karoui, Nicole**, **93b:60088a** *and* **93b:60088b**
Kennedy, Douglas P. *see* **Hill, Theodore P.**, **93f:60058**
Kertz, Robert P. *see* **Hill, Theodore P.**, **93g:60089**
Krengel, Ulrich *see* **Hill, Theodore P.**, **93b:60089**
Lehtinen, Aarni Recognizing the three best of a sequence. **93g:60090**
— The best choice problem with an unknown number of objects. (English summary) **93m:60084**
Lepeltier, J.-P. *see* **El Karoui, Nicole; et al.**, **93k:60108**
Maitra, Ashok (*with* Purves, R.; Sudderth, William D.) A capacitability theorem in finitely additive gambling. (Italian summary) **93d:60077**
Majumdar, A. A. K. (*with* Matin, M. A.) The OLA policy for optimal stopping for a generalized secretary problem with three stops and linear travel cost. (English summary) **93g:60091**
Mallows, Colin L. *see* **Dalal, S. R.**, **93k:60107**
Matin, M. A. *see* **Majumdar, A. A. K.**, **93g:60091**
Millet, Annie *see* **El Karoui, Nicole; et al.**, **93k:60108**
Moriguti, Sigeiti A selection problem with cost—"secretary problem" when unlimited recall is allowed. **93k:60110**
Nakagami, Junichi Game-theoretic analysis for an optimal stopping problem by means of moments of a distribution function. **93e:60086**
Nakai, Teruhisa An optimal stopping problem in the excavation of archaeological remains. **93a:60067**
Nualart, David Randomized stopping points and optimal stopping on the plane. **93d:60078**
de la Peña, Victor H. (*with* Govindarajulu, Z.) A note on second moment of a randomly stopped sum of independent variables. (English summary) **93i:60085**
Porosiński, Zdzisław (*with* Szajowski, Krzysztof) On some selection problem. **93a:60068**
— Full-information best choice problems with imperfect observation and a random number of observations. **93c:60061**
Purves, R. *see* **Maitra, Ashok; et al.**, **93d:60077**
Qian, Neng Sheng A prophet compared to a gambler: an inequality for transforms of processes. (Chinese. English and Chinese summaries) **93i:60086**
Rhee, WanSoo T. (*with* Talagrand, Michel) A note on the selection of random variables under a sum constraint. **93d:60079**
Robbins, Herbert Remarks on the secretary problem. **93b:60091**
Rose, John S. Optimal selection from randomly arriving offers with variable holding period. **93f:60059**
Saario, Vesa (*with* Sakaguchi, Minoru) Multistop best choice games related to the Poisson process. **93c:60062**
Sakaguchi, Minoru (*with* Sakai, Setsuko) Multistage poker with random amount of bets. (English summary) **93k:60111**
— *see also* **Saario, Vesa**, **93c:60062** *and* **Gnedin, A. V.**, **93d:60076**
Sakai, Setsuko *see* **Sakaguchi, Minoru**, **93k:60111**
Samuel-Cahn, Ester A difference prophet inequality for bounded i.i.d. variables, with cost for observations. (English summary) **93h:60068**
Samuels, Stephen M. Secretary problems. (*see* **93g:62102**)
Schmitz, Norbert J. *see* **Harenbrock, Marion**, **93e:60085**
Stadje, Wolfgang A stochastic model for a researcher's problem. **93b:60092**
Sudderth, William D. (*with* Weerasinghe, A. P. N.) Using fuel to control a process to a goal. **93b:60093**
— *see also* **Maitra, Ashok; et al.**, **93d:60077**
Szajowski, Krzysztof Optimal on-line detection of outside observations. **93f:60060**
— *see also* **Porosiński, Zdzisław**, **93a:60068**
Talagrand, Michel *see* **Rhee, WanSoo T.**, **93d:60079**
Tamaki, M. *see* **Ferguson, Thomas S.; et al.**, **93h:60066**
Vanderbei, Robert J. Optimal switching among several Brownian motions. (English summary) **93k:60112**
Weber, Richard R. On the Gittins index for multiarmed bandits. (English summary) **93h:60069**
Weerasinghe, A. P. N. *see* **Sudderth, William D.**, **93b:60093**
Wilson, John G. Optimal choice and assignment of the best m of n randomly arriving items. **93a:60069**
Wittmann, Rainer On the prophet inequality for subadditive processes. (English summary) **93k:60113**
Zhou, Xiao Yang A probabilistic optimal stopping time problem. (Chinese. English and Chinese summaries)

Items with secondary classifications in 60G40

Alsmeyer, Gerold On generalized renewal measures and certain first passage times. (English summary) **93i:60089**
Bassily, N. L. (*with* Ishak, S.) Wald's identity, Blackwell's theorem, and Gut and Janson's theorem using martingale techniques. **93c:60063**
Bather, J. A. Search models. **93i:90056**
Boshuizen, Frans A. Minimax stopping times for i.i.d. random variables. (English summary) **93k:62169**
Ceci, Claudia (*with* Mazliak, Laurent) Une propriété forte de branchements. (English and French summaries) [A strong branching property] **93i:60070**
Cohen, J. W. On the random walk with zero drifts in the first quadrant of $\mathbf{R}_2$. (English summary) **93i:60131**
Dalal, S. R. (*with* Mallows, Colin L.) When to stop testing software? Some exact results. (English summary) **93k:62201**
Enns, E. G. *see* **Ravindran, K.**, **93h:90116**
Fill, James Allen Strong stationary duality for continuous-time Markov chains. I. Theory. **93b:60163**
Ishak, S. *see* **Bassily, N. L.**, **93c:60063**
Keener, Robert W. (*with* Woodroofe, Michael) Fixed width interval estimation for the reciprocal drift of Brownian motion. **93c:62134**
Kennedy, Douglas P. (*with* Kertz, Robert P.) Comparisons of optimal stopping values and expected suprema for i.i.d. r.v.'s with costs and discounting. **93j:60024**
— (*with* Kertz, Robert P.) Limit theorems for suprema, threshold-stopped random variables and last exits of i.i.d. random variables with costs and discounting, with applications to optimal stopping. **93k:60132**
Kertz, Robert P. *see* **Kennedy, Douglas P.**, **93j:60024** *and* **93k:60132**
Khan, Rasul A. On the monotonicity of a certain expectation. **93b:62114**
Loader, Clive R. Boundary crossing probabilities for locally Poisson processes. **93f:60064**
Longford, N. T. Classes of multivariate exponential and multivariate geometric distributions derived from Markov processes. (English summary) **93g:60027**
Mallows, Colin L. *see* **Dalal, S. R.**, **93k:62201**
Mazliak, Laurent Mixed control problem under partial observation. (English summary) **93j:93155**
— *see also* **Ceci, Claudia**, **93i:60070**
Nguyen Ngoc Cu On stopped random walks. **93b:60100**
Oprea, Ana Gabriela A method of generalising the Itô-Clifford integral. (English and Romanian summaries) **93m:81084**
Ravindran, G. (*with* Szajowski, Krzysztof) Nonzero sum game with priority as Dynkin's game. **93f:90197**
Ravindran, K. (*with* Enns, E. G.) A two Poisson stream competitive decision problem. (English summary) **93h:90116**
Sakaguchi, Minoru Sequential deception games. (English summary) **93i:90121**
Schmitz, Norbert J. Games against a prophet. **93b:90133**

Stadje, Wolfgang The expected value of the one-sided cusum stopping time. (English summary) **93j:60066**
— Distribution of first-exit times for empirical counting and Poisson processes with moving boundaries. (English summary) **93m:60094**
Sudderth, William D. (*with* Weerasinghe, A. P. N.) A bang-bang strategy for a finite fuel stochastic control problem. **93e:93071**
Szajowski, Krzysztof On nonzero sum game with priority in the secretary problem. **93f:90198**
— *see also* **Ravindran, G., 93f:90197**
Takada, Yoshikazu A sequential procedure with asymptotically negative regret for estimating a normal mean. **93d:62152**
Weerasinghe, A. P. N. *see* **Sudderth, William D., 93e:93071**
Wijsman, Robert A. Stopping times: termination, moments, distribution. (*see* **93g:62102**)
Woodroofe, Michael *see* **Keener, Robert W., 93c:62134**
Yasuda, Masami On a separation of a stopping game problem for standard Brownian motion. **93f:90199**

60G42 Martingales with discrete parameter

Abdel-Fattah, A. M. *see* **Bassily, N. L., 93c:60064**
Bassily, N. L. (*with* Ishak, S.) Wald's identity, Blackwell's theorem, and Gut and Janson's theorem using martingale techniques. **93c:60063**
— On two-sided inequalities for stopped random walks in Orlicz-spaces. **93d:60080**
— (*with* Abdel-Fattah, A. M.) On the duality of some martingale spaces. **93c:60064**
Biggins, J. D. Uniform convergence of martingales in the branching random walk. **93b:60094**
Chao, J.-A. (*with* Long, Rui Lin) Martingale transforms and Hardy spaces. **93d:60081**
Fan, Ai Hua Équivalence et orthogonalité des mesures aléatoires engendrées par martingales positives homogènes. (English summary) [Equivalence and orthogonality of random measures generated by homogeneous positive martingales] **93d:60082**
Hong, Fang Quan A class of martingale Φ-inequalities for $q = 1$. (Chinese. Chinese summary) **93m:60085**
Ishak, S. *see* **Bassily, N. L., 93c:60063**
Kurtz, Thomas G. Averaging for martingale problems and stochastic approximation. **93h:60070**
Long, Rui Lin *see* **Chao, J.-A., 93d:60081**
Novikov, I. Ya. Martingale inequalities in rearrangement invariant function spaces. **93d:60083**
Taylor, Howard M. Martingales and random walks. (*see* **93a:60001**)
Wang, Gang[2] Sharp inequalities for the conditional square function of a martingale. **93e:60087**

Items with secondary classifications in 60G42

Biggins, J. D. Uniform convergence of martingales in the one-dimensional branching random walk. (English summary) **93k:60211**
Bùi Kho'i-Đàm On the strong law of large numbers for amarts. **93b:60099**
Christofides, Tasos C. A strong law of large numbers for U-statistics. **93k:60072**
Elton, J. H. (*with* Hill, Theodore P.) Fusions of a probability distribution. **93a:60007**
Fisher, Evan On the law of the iterated logarithm for martingales. **93d:60043**
Gan, Shi Xin *see* **Hu, Yi Jun, 93d:46038** *and* **Liu, Pei De, 93m:46007**
Gänssler, Peter (*with* Joos, Konrad) Another view on martingale central limit theorems. **93f:60026**
Gushchin, A. A. *see* **Mishura, Yu. S., 93e:60089**
Hill, Theodore P. *see* **Elton, J. H., 93a:60007**
Hu, Yi Jun (*with* Gan, Shi Xin) The convex Φ-inequality and a characterization of Hilbert spaces. (Chinese. English summary) **93d:46038**
Huang, Da Wei Central limit theorem for two-parameter martingale differences with application to stationary random fields. (English summary) **93j:60023**
Joos, Konrad *see* **Gänssler, Peter, 93f:60026**
Kersting, Götz A law of large numbers for stochastic difference equations. **93a:60048**
Khan, Rasul A. A remark on Dubins-Savage inequality. **93d:60027**
Kubilius, K. On the rate of convergence in the multidimensional CLT for martingales. (Russian and Lithuanian summaries) **93g:60050**
Lagodowski, Zbigniew A. Fuk inequalities for random fields of backward martingales. (Russian) **93a:60021**
Liu, Pei De (*with* Gan, Shi Xin) A uniform integrability condition for B-valued martingales and geometric properties of Banach spaces. (Chinese. English and Chinese summaries) **93m:46007**
Menon, V. V. (*with* Rai, V. N.) U-statistics, conditional independence and graph theory. (English summary) **93f:62075**
Mishura, Yu. S. (*with* Gushchin, A. A.) Two-parameter strong martingales: inequalities for quadratic variation and some decompositions. **93e:60089**
Mortimer, T. M. (*with* Williams, David) Change of measure up to a random time: theory. **93a:60065**
Ovsepyan, R. I. Some uniqueness theorems for the Haar system and for systems of continuous functions with the finite intersection property. (Russian. English and Armenian summaries) **93c:42028**
Račkauskas, Alfredas Uniform bounds in the central limit theorem for $C(S)$ valued martingales. (Russian and Lithuanian summaries) **93e:60016**
Rai, V. N. *see* **Menon, V. V., 93f:62075**
Valkeila, Esko A note on the convergence of moments and the martingale central limit theorem. **93e:60049**
Volný, Dalibor The central limit problem for composed arrays of martingale differences. (English summary) **93k:60063**
Williams, David ★ Probability with martingales. **93d:60002**
— *see also* **Mortimer, T. M., 93a:60065**
Wu, Zong Qi A moment inequality for multidimensionally indexed arrays of mixing martingales and a convergence theorem. (Chinese. English and Chinese summaries)

60G44 Martingales with continuous parameter

Arnaudon, Marc Propriétés asymptotiques des semi-martingales à valeurs dans des variétés à bord peu régulier. (English and French summaries) [Asymptotic properties of semimartingales with values in manifolds with nonsmooth boundary] **93k:60114**
Denis, Laurent Comportement des martingales positives sur l'espace de Wiener vis-à-vis de la capacité. (English summary) [Behavior of nonnegative martingales on Wiener space with respect to capacity] **93b:60095**
Dettweiler, Egbert The martingale problem on Banach spaces. **93e:60088**
Grigelionis, B. Hellinger integrals and Hellinger processes for solutions of martingale problems. **93i:60087**
Gushchin, A. A. *see* **Mishura, Yu. S., 93e:60089**
Imkeller, Peter The transformation theorem for two-parameter pure jump martingales. **93d:60084**
Ivković, Zoran A. Representation for a class of nonlinear functionals of Gaussian martingales. (Serbo-Croatian summary) **93a:60070**
Karandikar, Rajeeva L. Multiplicative decomposition of nonsingular matrix valued semimartingales. **93m:60086**
Karatzas, Ioannis *see* **Ocone, Daniel L., 93b:60098**
Kendall, Wilfrid S. A remark on the proof of Itô's formula for C^2 functions of continuous semimartingales. **93b:60096**
Kikuchi, Masato Improved ratio inequalities for martingales. **93b:60097**
Koval'chuk, L. V. Some properties of matrix-valued martingales. (Russian. Russian summary) **93k:60115**
Kramkov, D. O. On a class of filtered spaces arising in filtered statistical problems. (Russian)
Le Breton, Alain Propriétés asymptotiques des martingales gaussiennes et application. (English and French summaries) [Asymptotic properties of Gaussian martingales and application] **93f:60061**
McGill, Paul Borel-Cantelli lemmas in continuous time. **93h:60071**
Mikulevičius, Remigius (*with* Pragarauskas, H.) On the martingale problem associated with integro-differential operators. **93a:60071**
Mishura, Yu. S. (*with* Gushchin, A. A.) Two-parameter strong martingales: inequalities for quadratic variation and some decompositions. **93e:60089**
Ocone, Daniel L. (*with* Karatzas, Ioannis) A generalized Clark representation formula, with application to optimal portfolios. **93b:60098**
Pragarauskas, H. *see* **Mikulevičius, Remigius, 93a:60071**
Rajeev, B. Crossing of Brownian motion: a semi-martingale approach. (English summary) **93c:60065**
Sharpe, Michael J. Closing values of martingales with finite lifetimes. **93g:60092**
Szyszkowski, Ireneusz Semimartingales and stochastic integrals. (English summary) **93g:60093**
Touati, A. Méthodes de changement de temps pour la convergence en loi des martingales. (English summary) [Time-change methods for the convergence in law of martingales] **93a:60072**
Trofimov, E. I. A new look on semimartingale distributions with several examples. **93c:60066**
Valiukevičius, G. Estimates for the smooth functional in the classical case. **93a:60073**
Wesołowski, Jacek A martingale characterization of the Poisson process. (English summary) **93g:60094**
Xue, Xing Xiong Martingale representation for a class of processes with independent increments and its applications. **93g:60095**
Yashin, A. I. An extension of the Cameron-Martin result. (English summary) **93j:60058**
Zanoun, Mohamed A. Sur quelques propriétés des zéros d'une martingale pseudocontinue. (English and French summaries) [On some properties of the zero set of a pseudocontinuous martingale] **93g:60096**

Items with secondary classifications in 60G44

Bassan, Bruno (*with* Çinlar, Erhan; Scarsini, Marco) Stochastic comparisons of Itô processes. (English summary) **93m:60161**
Brémaud, Pierre (*with* Kannurpatti, Raghavan; Mazumdar, Ravi R.) Event and time averages: a review. **93i:60092**
van Casteren, Jan A. W. On martingales and Feller semigroups. **93h:60115**
Castrigiano, Domenico P. L. (*with* Stärk, Florian) Intrinsic clock as a tool for path integration: an example. **93b:81128**
Chauvin, Brigitte Product martingales and stopping lines for branching Brownian motion. **93b:60188**
Chen, Zhen Qing On reflected Dirichlet spaces. (English summary) **93m:31014**
Chou, Ch'ing Sung La formule d'intégration par parties de l'intégration stochastiques non monotones avec paramètre du type Itô. (English summary) [An integration-by-parts formula for Itô-type nonmonotonic stochastic integration with parameter] **93h:60085**
Çinlar, Erhan *see* **Bassan, Bruno; et al., 93m:60161**
Cohen, Serge Géométrie différentielle stochastique avec sauts. (English summary) [Stochastic differential geometry with jumps] **93a:60078**
Colwell, David B. (*with* Elliott, Robert James) Martingale representation and nonattainable contingent claims. **93g:90013**
Darling, R. W. R. Exit probability estimates for martingales in geodesic balls, using curvature. (English summary) **93g:58159**
Elliott, Robert James *see* **Colwell, David B., 93g:90013**
Embrechts, Paul Martingales in non-life insurance. **93b:62135**
Emery, M. Quelques cas de représentation chaotique. [Some cases of chaos representation] **93i:60100**
— (*with* Mokobodzki, Gabriel) Sur le barycentre d'une probabilité dans une variété. [On the barycenter of a probability in a manifold] **93j:58143**
Engelbert, H. J. (*with* Schmidt, Wolfgang Michael) Continuous local martingales: strong Markov property, solutions of stochastic equations, and the interplay between them. **93i:60135**
Fan, Ru Zong Decomposition of a class of functionals. **93a:60122**
Frangos, Nikos E. (*with* Nualart, David; Sanz, Marta) On the Itô formula for two-parameter martingales. **93i:60101**
Goswami, Alok (*with* Rao, B. V.) On filtrations of Brownian polynomials. **93k:60206**

Grandell, Jan Finite time ruin probabilities and martingales. (Russian and Lithuanian summaries) **93e:62257**

Huang, Hui (*with* Kendall, Wilfrid S.) Correction note to: "Martingales on manifolds and harmonic maps" [in *Geometry of random motion (Ithaca, NY, 1987)*, 121–157, Contemp. Math., 73, Amer. Math. Soc., Providence, RI, 1988; MR 90d:58163] by Kendall. **93d:58187**

Jin, Zhi Ming The optimal stopping problem of a continuous parameter process. **93h:60067**

Kallenberg, Olav Some time change representations of stable integrals, via predictable transformations of local martingales. **93d:60087**

Kannurpatti, Raghavan *see* **Brémaud, Pierre; et al., 93i:60092**

Kendall, Wilfrid S. *see* **Huang, Hui, 93d:58187**

Kolsrud, Torbjörn Operator integrals and martingale integrals with general parameter. (English summary) (*see* **93e:00033**)

Kubilius, K. On the rate of convergence in the multidimensional CLT for martingales. (Russian and Lithuanian summaries) **93g:60050**

Kunita, Hiroshi Limits on random measures and stochastic difference equations related to mixing array of random variables. **93f:60039**

Kwon, Youngmee Uniqueness for the martingale problem with discontinuous coefficient. **93k:60182**

Liptser, R. Sh. (*with* Shiryaev, A. N.) Large deviation for martingales with independent and homogeneous increments. **93c:60035**

Mao, Xuerong (*with* Markus, Lawrence) Energy bounds for nonlinear dissipative stochastic differential equations with respect to semimartingales. **93f:60088**

Markus, Lawrence *see* **Mao, Xuerong, 93f:60088**

Mazumdar, Ravi R. *see* **Brémaud, Pierre; et al., 93i:60092**

Mel'nikov, A. V. (*with* Novikov, A. A.) Statistical inferences for semimartingale regression models. **93a:62121**

— (*with* Rodkina, A. E.) Consistent statistical estimation in semimartingale models of stochastic approximation. **93g:62112**

Mokobodzki, Gabriel *see* **Emery, M., 93j:58143**

Mykland, Per Aslak Asymptotic expansions and bootstrapping distributions for dependent variables: a martingale approach. **93e:62050**

Novikov, A. A. *see* **Mel'nikov, A. V., 93a:62121**

Nualart, David *see* **Frangos, Nikos E.; et al., 93i:60101**

Rao, B. V. *see* **Goswami, Alok, 93k:60206**

Rao, Malempati M. Stochastic integration: a unified approach. (French summary) **93c:60079**

Rodkina, A. E. *see* **Mel'nikov, A. V., 93g:62112**

Sanz, Marta *see* **Frangos, Nikos E.; et al., 93i:60101**

Scarsini, Marco *see* **Bassan, Bruno; et al., 93m:60161**

Scheike, Thomas H. A general risk process and its properties. **93d:60135**

Schmidt, Wolfgang Michael *see* **Engelbert, H. J., 93i:60135**

Schürmann, Michael The Azéma martingales as components of quantum independent increment processes. **93k:81124**

Schweizer, Martin Martingale densities for general asset prices. **93h:90012**

Shiryaev, A. N. *see* **Liptser, R. Sh., 93c:60035**

Stärk, Florian *see* **Castrigiano, Domenico P. L., 93b:81128**

Taylor, Howard M. Martingales and random walks. (*see* **93a:60001**)

Touati, A. Sur la convergence en loi fonctionnelle de suites de semimartingales vers un mélange de mouvements browniens. **93f:60033**

Tribe, Roger The behavior of superprocesses near extinction. **93b:60161**

Vallois, P. Quelques inégalités avec le temps local en zero du mouvement brownien. (English summary) [Some inequalities involving the local time at zero of Brownian motion] **93d:60134**

Wise, Gary L. A counterexample to a martingale characterization of a Wiener process. (English summary) **93g:60178**

Wright, A. Larry A strong limit theorem for processes with associated increments. (English summary) **93j:60051**

60G46 Martingales and classical analysis

Schröder, Bernd S. W. On generalized maximal functions. **93g:60097**

Items with secondary classifications in 60G46

Abdel-Fattah, A. M. *see* **Bassily, N. L., 93c:60064**

Bassily, N. L. On two-sided inequalities for stopped random walks in Orlicz-spaces. **93d:60080**

— (*with* Abdel-Fattah, A. M.) On the duality of some martingale spaces. **93c:60064**

Chao, J.-A. (*with* Long, Rui Lin) Martingale transforms and Hardy spaces. **93d:60081**

Kendall, Wilfrid S. Convex geometry and nonconfluent Γ-martingales. I. Tightness and strict convexity. **93e:58197**

Liu, Pei De Fefferman's inequalities and the conjugate space of ${}_a\widetilde{H}_p(X)$. (Chinese) **93d:46024**

Long, Rui Lin *see* **Chao, J.-A., 93d:60081**

Wehrhahn, Rodolfo Charakterisierung Riemannscher Flächen mit Greenscher Funktion mittels Martingalen. [Characterization of Riemann surfaces with Green functions in terms of martingales] **93b:30042**

Weisz, Ferenc Interpolation between martingale Hardy and BMO spaces, the real method. **93h:46028**

60G48 Generalizations of martingales

Al-Hussaini, A. N. (*with* Schmuland, Byron) Convergence of some martingale-like sequences. **93j:60059**

Bagchi, Sitadri N. Characterisations of classes of multivalued processes using Riesz approximations. (English summary) **93h:60072**

Bùi Khoi Đàm On the strong law of large numbers for amarts. **93b:60099**

Daher, Mohamed Convergence des martingales pluri-sous-harmoniques vectorielles à deux indices. (English and French summaries) [Convergence of two-parameter plurisubharmonic vector martingales] **93j:60060**

Estrade, Anne Exponentielle stochastique et intégrale multiplicative discontinues. (English summary) [Discontinuous stochastic exponential and multiplicative integral] **93k:60116**

Gan, Shi Xin Transformations of martingale sequences and their convergence. (Chinese. English and Chinese summaries) **93k:60117**

— Banach space valued quasi-eventual martingales. (English summary) **93i:60088**

— (*with* Ren, Yao Feng) B-valued uniform asymptotic martingales over directed sets. (Chinese. Chinese summary) **93m:60087**

Gao, Yong *see* **Zhang, Wen Xiu, 93g:60098**

Hess, Christian On multivalued martingales whose values may be unbounded: martingale selectors and Mosco convergence. **93e:60090**

Kim, Chkhor-Khun Operator multiplicative martingales with a finite number of jumps. (Russian. Russian summary) **93k:60118**

Nie, Zan Kan (*with* Zhang, Wen Xiu) Doob's decomposition for set-valued sub- (super-)martingales. (Chinese) **93f:60062**

Ouknine, Youssef On the asymptotic behaviour of functionals of some semimartingales. (English summary) **93m:60088**

Papageorgiou, Nikolaos S. Convergence theorems for set-valued martingales and semimartingales. (Russian summary) **93k:60119**

Picard, Jean Calcul stochastique avec sauts sur une variété. [Stochastic calculus with jumps on a manifold] **93m:60089**

Ren, Yao Feng *see* **Gan, Shi Xin, 93m:60087**

Schmuland, Byron *see* **Al-Hussaini, A. N., 93j:60059**

Zhang, Wen Xiu (*with* Gao, Yong) A convergence theorem for set-valued supermartingales and Riesz decomposition. (Chinese) **93g:60098**

— *see also* **Nie, Zan Kan, 93f:60062**

Zhang, Xi Tang Several inequalities on quasimartingales. (Chinese. English summary)

Zhang, Xiao Yun Almost everywhere convergence of conditional expectations of amarts. (Chinese. English and Chinese summaries)

Zięba, W. On some properties of conditional amarts. **93a:60074**

Items with secondary classifications in 60G48

Bingham, Michael S. An approximate martingale convergence theorem on locally compact abelian groups. (English summary) **93k:60020**

— Approximate martingale characterization of Wiener processes on locally compact abelian groups. **93d:60013**

— Convergence of approximate martingale arrays to mixtures of infinitely divisible distributions in locally compact abelian groups. (English summary) **93m:60016**

Brooks, James K. (*with* Neal, David) A vector measure approach to the optional stochastic integral. **93m:60106**

Caponetti, Diana On an inequality of Edgar. **93a:60006**

Deo, Chandrakant M. Almost sure convergence of a class of random fields. (English summary) **93k:60074**

Gan, Shi Xin Invariance of bounded linear operators and local convergence of quasimartingale transforms. (Chinese. English and Chinese summaries) **93i:46023**

Gushchin, A. A. (*with* Mishura, Yu. S.) Davis inequalities and the Gundy decomposition for two-parameter strong martingales. III. (Russian) **93e:60096**

Harenbrock, Marion (*with* Schmitz, Norbert J.) Optional sampling of submartingales with scanned index sets. **93e:60085**

Herer, Wojciech Mathematical expectation and martingales of random subsets of a metric space. **93d:60016**

Keisler, H. Jerome From discrete to continuous time. **93a:03075**

Kir'yanova, L. V. Nonclassical estimates for the accuracy of the normal approximation for martingales. (Russian. Russian summary) **93m:60046**

Liu, Pei De Quasimartingale transformations and UMD spaces. (Chinese. Chinese summary) **93m:46029**

— (*with* Long, Rui Lin) Boundedness of several operators on martingale spaces and the geometry of Banach spaces. (English summary) **93i:46030**

Long, Rui Lin *see* **Liu, Pei De, 93i:46030**

Luu, D. Q. Convergence and lattice properties of a class of martingale-like sequences. **93j:60003**

Mao, Xuerong Lyapunov functions and almost sure polynomial stability. **93j:60086**

Mishura, Yu. S. *see* **Gushchin, A. A., 93e:60096**

Nánásiová, Ofga Martingales and submartingales on quantum logic. **93b:03113**

Neal, David *see* **Brooks, James K., 93m:60106**

Nguyen Minh Duc (*with* Nualart, David; Sanz, Marta) The Doob-Meyer decomposition for anticipating processes. **93a:60083**

Nualart, David *see* **Nguyen Minh Duc; et al., 93a:60083**

Sanz, Marta *see* **Nguyen Minh Duc; et al., 93a:60083**

Schmitz, Norbert J. *see* **Harenbrock, Marion, 93e:60085**

Sharpe, Michael J. Closing values of martingales with finite lifetimes. **93g:60092**

Zhou, Zhan Gong Two-parameter harnesses and the generalized Brownian sheet. (Chinese. English and Chinese summaries) **93h:60129**

60G50 Sums of independent random variables

Alsmeyer, Gerold On generalized renewal measures and certain first passage times. (English summary) **93i:60089**

Braverman, M. Sh. Independent random variables in symmetric spaces. (Russian) **93h:60073**

Durrett, Richard (*with* Kesten, Harry; Lawler, Gregory F.) Making money from fair games. **93a:60075**

Kesten, Harry *see* **Durrett, Richard; et al., 93a:60075**

Klesov, O. I. On integrability of $\sup |S_n/n_k|$. (English summary) **93h:60074**

Lawler, Gregory F. *see* **Durrett, Richard; et al., 93a:60075**

Nguyen Ngoc Cu On stopped random walks. **93b:60100**

Nguyễn Văn Giang On moments of the supremum of normed partial sums of random variables indexed by $\mathbf{N}^k$. **93i:60090**

Zolotarev, V. M. Asymptotic expansions with probability 1 of sums of independent random variables. (Russian) **93c:60067**

Items with secondary classifications in 60G50

Adler, André (*with* Rosalsky, Andrew) On the norming constants in the Feller-Khintchine-Lévy central limit theorem. (English summary) **93k:60050**
Aleškevičienė, Aldona On the maximum of sums of random variables and the supremum for stable processes. **93e:60148**
Bassily, N. L. On an inequality of M. J. Klass. **93b:60087**
— (*with* Ishak, S.) Wald's identity, Blackwell's theorem, and Gut and Janson's theorem using martingale techniques. **93c:60063**
Chen, Bin *see* **Hong, Xiao, 93a:60047**
Csörgő, Sándor (*with* Dodunekova, Rositsa D.) Infinitely divisible laws partially attracted to a Poisson law. **93g:60033**
Dodunekova, Rositsa D. *see* **Csörgő, Sándor, 93g:60033**
Erdős, Paul (*with* Révész, Pál) Three problems on the random walk in $\mathbf{Z}^d$. (English summary) **93k:60171**
Fazekas, István Convergence rates in the law of large numbers for arrays. **93j:60005**
Fisher, Evan A Skorohod representation and an invariance principle for sums of weighted i.i.d. random variables. **93e:60065**
Grill, Karl A note on randomness. **93i:60059**
Gut, Allan Limit theorems for record times. **93c:60075**
— Complete convergence for arrays. (English summary) **93m:60059**
Hamana, Yuji On the central limit theorem for the multiple point range of random walk. (English summary) **93h:60112**
Heinrich, Lothar Bounds for the absolute regularity coefficient of a stationary renewal process. (English summary) **93j:60125**
Hong, Xiao (*with* Chen, Bin) How small are the increments of partial sums of sequences of independent random variables with different distributions? (Chinese. English summary) **93a:60047**
Ishak, S. Remarks on a theorem of Burkholder and Gundy. **93b:60090**
— *see also* **Bassily, N. L., 93c:60063**
Kartashov, N. V. Inequalities in the Rényi theorem. (Russian) **93k:60055**
Keener, Robert W. Limit theorems for random walks conditioned to stay positive. **93g:60150**
Kolchin, A. V. Some extremal properties of sums of independent random variables. (Russian) **93e:60036**
Kuczmaszewska, Anna (*with* Szynal, Dominik) On complete convergence for partial sums of independent identically distributed random variables. **93b:60057**
Lewis, Thomas M. A self-normalized law of the iterated logarithm for random walk in random scenery. (English summary) **93i:60062**
Li, De Li (*with* Wang, Xiang Chen; Rao, M. Bhaskara) Almost sure behaviour of F-valued random fields. (English summary) **93h:60049**
— (*with* Rao, M. Bhaskara; Wang, Xiang Chen) Complete convergence of moving average processes. **93g:60065**
Maejima, Makoto (*with* Morita, Yuko) Trimmed sums of mixing triangular arrays with stationary rows. (English summary) **93i:60041**
Mammen, Enno Bootstrap, wild bootstrap, and asymptotic normality. (English summary) **93h:62090**
Matsak, I. K. Summation of independent random variables by the Riesz method. (Russian. Russian and Ukrainian summaries) **93i:60064**
Mikosch, Thomas *see* **Skovoroda, B. F., 93c:60041**
Mirakhmedov, Sh. A. Probabilities of moderate deviations in limit theorems for conditional distributions of sums of independent random variables. (Russian) **93g:60053**
Morita, Yuko *see* **Maejima, Makoto, 93i:60041**
Nayak, S. S. (*with* Wali, K. S.) On the number of boundary crossings related to LIL and SLLN for record values and partial maxima of i.i.d. sequences and extremes of uniform spacings. (English summary) **93k:60079**
Neupokoeva, M. V. On the recovery of a distribution from the moments of sums of independent random variables. **93d:60019**
Novak, S. Yu. On the distribution of the maximum of a random number of random variables. (Russian) **93c:60076**
Petrov, Valentin Vladimirovich Some inequalities for moments of sums of independent random variables. **93e:60037**
— Limit theorems of classical type for sums of independent random variables. (Russian) **93b:60047**
— Generalizations of Rosenthal's inequalities. **93d:60029**
— On the law of the iterated logarithm for a sequence of independent random variables. (Russian. Russian summary) **93g:60066**
Rao, M. Bhaskara *see* **Li, De Li; et al., 93g:60065** *and* **93h:60049**
Révész, Pál *see* **Erdős, Paul, 93k:60171**
Rosalsky, Andrew *see* **Adler, André, 93k:60050**
Rychlik, Z. (*with* Zygo, Józef) Strassen's invariance principle for random subsequences. **93f:60041**
Shao, Qi Man How small are the increments of partial sums of non-i.i.d. random variables. (English summary) **93m:60061**
Skovoroda, B. F. (*with* Mikosch, Thomas) A strong law of large numbers for ruled sums. **93c:60041**
Solntsev, S. A. On strong relative stability of linearly transformed random walk. (*see* **93k:60008**)
Stadje, Wolfgang The time until two renewal processes come together. **93b:60201**
Su, Kuo Liang (*with* Taylor, Robert Lee) Marcinkiewicz strong laws of large numbers and convergence rates for arrays of independent random elements in Banach spaces. **93d:60012**
Szynal, Dominik *see* **Kuczmaszewska, Anna, 93b:60057**
Szyszkowicz, Barbara Weighted asymptotics of partial sum processes in $D[1,\infty)$. (English summary) **93m:60067**
Taylor, Robert Lee *see* **Su, Kuo Liang, 93d:60012**
Ullrich, David C. The smoothness of random Besov functions. **93e:42014**
Wali, K. S. *see* **Nayak, S. S., 93k:60079**
Wang, Xiang Chen *see* **Li, De Li; et al., 93g:60065** *and* **93h:60049**
Watanabe, Toshiro On unimodal Lévy processes on the nonnegative integers. **93c:60033**
Zygo, Józef *see* **Rychlik, Z., 93f:60041**

60G55 Point processes

Álvarez-Andrade, Sergio Sur les accroissements du processus de Poisson doublement stochastique. (English and French summaries) [On the increments of doubly stochastic Poisson processes] **93g:60099**
Ambartsumyan, R. V. On condensable point processes. (English summary) **93m:60090**
Arjas, Elja (*with* Norros, Ilkka) Should minimal repair depend on information? (English summary) **93i:60091**
— (*with* Norros, Ilkka) Stochastic order and martingale dynamics in multivariate life length models: a review. (English summary) **93j:60061**
— (*with* Haara, Pentti) Observation scheme and likelihood. **93m:60091**
Barbour, A. D. (*with* Brown, Timothy C.) The Stein-Chen method, point processes and compensators. (English summary) **93g:60100**
— (*with* Brown, Timothy C.) Stein's method and point process approximation. (English summary) **93k:60120**
Blackwell, Paul Convex hulls of selected subsets of a Poisson process. (English summary) **93h:60075**
Brémaud, Pierre An elementary proof of Sengupta's invariance relation and a remark on Miyazawa's conservation principle. **93b:60101**
— (*with* Kannurpatti, Raghavan; Mazumdar, Ravi R.) Event and time averages: a review. **93i:60092**
Brown, Timothy C. *see* **Barbour, A. D., 93g:60100** *and* **93k:60120**
Deshmukh, Shailaja R. Bernoulli sampling. **93d:60085**
Dovgalyuk, V. V. (*with* Piterbarg, V. I.) Large deviations of the trajectories of a Poisson process. (Russian) (*see* **93b:60003**)
Falk, Michael (*with* Reiss, Rolf-Dieter) Poisson approximation of empirical processes. **93k:60121**
Frenz, Michael (*with* Schmidt, Volker) An insensitivity property of ladder height distributions. **93j:60062**
Gasanenko, V. A. Applications of thinning processes. **93g:60101**
Grabarnik, Pavel *see* **Stoyan, Dietrich, 93f:60065**
Graham, C. Robin McKean-Vlasov Itô-Skorohod equations, and nonlinear diffusions with discrete jump sets. **93b:60102**
Haara, Pentti *see* **Arjas, Elja, 93m:60091**
Habib, Muhammad K. (*with* Thavaneswaran, A.) Optimal estimation for semimartingale neuronal models. (English summary)
Huang, Wên Chang On the characterization of point processes with the exchangeable and Markov properties. (English summary) **93d:60086**
— (*with* Puri, Prem S.) On some characterizations of the Poisson processes arising in queues with infinite servers. (English summary) **93e:60091**
Kallenberg, Olav Some time change representations of stable integrals, via predictable transformations of local martingales. **93d:60087**
Kannurpatti, Raghavan *see* **Brémaud, Pierre; et al., 93i:60092**
Kaufmann, Edgar (*with* Reiss, Rolf-Dieter) On conditional distributions of nearest neighbors. (English summary) **93g:60102**
König, Dieter (*with* Schmidt, Volker) Directional distributions for multi-dimensional random point processes. (English summary) **93j:60063**
Kwieciński, A. (*with* Szekli, R.) Compensator conditions for stochastic ordering of point processes. **93f:60063**
Last, Günter On Bayes' formula for doubly stochastic point processes on the real half-line. **93c:60068**
Liu, Dan *see* **Neuts, Marcel F.; et al., 93e:60092**
Loader, Clive R. Boundary crossing probabilities for locally Poisson processes. **93f:60064**
Mazumdar, Ravi R. *see* **Brémaud, Pierre; et al., 93i:60092**
Miyazawa, Masakiyo (*with* Yamazaki, Genji) Relationships in stationary jump processes with countable state space and their applications to queues. (English summary) **93m:60092**
Narayana, Surya *see* **Neuts, Marcel F.; et al., 93e:60092**
Neuts, Marcel F. An invariance property of the Poisson process. (English summary) **93g:60103**
— (*with* Liu, Dan; Narayana, Surya) Local Poissonification of the Markovian arrival process. **93e:60092**
Nikunen, Martti (*with* Valkeila, Esko) A Prohorov bound for a Poisson process and an arbitrary counting process with some applications. **93c:60069**
Norros, Ilkka *see* **Arjas, Elja, 93i:60091** *and* **93j:60061**
Perman, Mihael (*with* Pitman, James W.; Yor, Marc) Size-biased sampling of Poisson point processes and excursions. **93d:60088**
Piterbarg, V. I. *see* **Dovgalyuk, V. V., (93b:60003)**
Pitman, James W. *see* **Perman, Mihael; et al., 93d:60088**
Pooi, Ah Hin Interval distribution of a stationary point process. (English summary)
Puri, Prem S. *see* **Huang, Wên Chang, 93e:60091**
Reiss, Rolf-Dieter *see* **Kaufmann, Edgar, 93g:60102** *and* **Falk, Michael, 93k:60121**
Resnick, Sidney I. Point processes and Tauberian theory. **93d:60089**
Samuels, Stephen M. An all-at-once proof of Ignatov's theorem. **93h:60076**
Schmidt, Volker *see* **Frenz, Michael, 93j:60062** *and* **König, Dieter, 93j:60063**
Serfozo, Richard F. Point processes. (*see* **93a:60001**)
Sim, C. H. Point processes with correlated gamma interarrival times. (English summary) **93m:60093**
Stadje, Wolfgang Distribution of first-exit times for empirical counting and Poisson processes with moving boundaries. (English summary) **93m:60094**
Stoyan, Dietrich (*with* Grabarnik, Pavel) Second-order characteristics for stochastic structures connected with Gibbs point processes. **93f:60065**
Szekli, R. *see* **Kwieciński, A., 93f:60063**
Thavaneswaran, A. *see* **Habib, Muhammad K.**
Vaillant, Jean Negative binomial distributions of individuals and spatio-temporal Cox processes. **93a:60076**
Valkeila, Esko *see* **Nikunen, Martti, 93c:60069**
Yamazaki, Genji *see* **Miyazawa, Masakiyo, 93m:60092**
Yor, Marc *see* **Perman, Mihael; et al., 93d:60088**

Items with secondary classifications in 60G55

Andersen, Per Kragh *see* **Nielsen, Gert G.; et al., 93a:62116**

Arjas, Elja (*with* Haara, Pentti; Norros, Ilkka) Filtering the histories of a partially observed marked point process. **93j:60054**

Bassan, Bruno (*with* Scarsini, Marco) On the comparison of pure jump processes. (French summary) **93g:60036**

Biggins, J. D. Uniform convergence of martingales in the branching random walk. **93b:60094**

Blumenthal, Robert M. ★ Excursions of Markov processes. **93b:60159**

Brémaud, Pierre (*with* Vázquez-Abad, Felisa J.) On the pathwise computation of derivatives with respect to the rate of a point process: the phantom RPA method. **93d:60154**

Brown, Mark On a correlation inequality and its applications. (English summary) **93i:60034**

Bunge, J. A. (*with* Nagaraja, H. N.) Exact distribution theory for some point process record models. **93d:62025**

— (*with* Nagaraja, H. N.) Dependence structure of Poisson-paced records. **93m:60100**

— (*with* Nagaraja, H. N.) Correction: "Exact distribution theory for some point process record models" [Adv. in Appl. Probab. **24** (1992), no. 1, 20–44; MR 93d:62025]. **Cline, Daren B. H.** (*with* Resnick, Sidney I.) Multivariate subexponential distributions. **93i:60022**

Ebrahimi, Nader More predictable, less predictable and stable counting processes. (English summary) **93m:60176**

Elliott, Robert James (*with* Kopp, P. Ekkehard) Equivalent martingale measures for bridge processes. **93a:60064**

Falk, Michael (*with* Reiss, Rolf-Dieter) Statistical inference for conditional curves: Poisson process approach. **93h:62075**

Fichtner, Karl-Heinz Random permutations of countable sets. **93a:60157**

Gill, Richard D. *see* **Nielsen, Gert G.; et al., 93a:62116**

Gorostiza, Luis G. (*with* Wakolbinger, Anton) Convergence to equilibrium of critical branching particle systems and superprocesses, and related nonlinear partial differential equations. (English summary) **93h:60131**

Greenwood, P. E. (*with* Wefelmeyer, W.) On optimal estimating functions for partially specified counting process models. **93a:62118**

Gurevich, B. M. On joint distributions of random elements with given mutual conditional distributions. **93e:60029**

Haara, Pentti *see* **Arjas, Elja; et al., 93j:60054**

(Heyman, D. P.) *see* **Stochastic models, 93a:60001**

Joe, Harry (*with* Smith, Richard L.; Weissman, Ishay) Bivariate threshold methods for extremes. **93b:60104**

Jolivet, Emmanuel Moment estimation for stationary point processes in $\mathbf{R}^d$. (English summary) (*see* **93g:62004**)

Kallenberg, Olav Some uses of point processes in multiple stochastic integration. **93a:60080**

Kanagawa, S. (*with* Mochizuki, Y.; Tanaka, Hiroshi[1]) Limit theorems for the minimum interpoint distance between any pair of i.i.d. random points in $\mathbf{R}^d$. **93h:60031**

Kopp, P. Ekkehard *see* **Elliott, Robert James, 93a:60064**

Kutoyants, Yu. A. (*with* Liese, Friedrich) On minimum distance estimation for spatial Poisson processes. **93j:62214**

Leadbetter, M. R. On a basis for "peaks over threshold" modeling. **93a:60077**

Lee, Mei Ling Ting (*with* Whitmore, G. Alex) Stochastic processes directed by randomized time. (English summary) **93k:60183**

Liese, Friedrich *see* **Kutoyants, Yu. A., 93j:62214**

Loader, Clive R. A log-linear model for a Poisson process change point. (English summary) **93k:62200**

Luschgy, Harald Local asymptotic mixed normality for semimartingale experiments. **93e:62020**

Massey, William A. (*with* Whitt, Ward) A probabilistic generalization of Taylor's theorem. (English summary) **93m:60040**

Mochizuki, Y. *see* **Kanagawa, S.; et al., 93h:60031**

Nagaraja, H. N. *see* **Bunge, J. A., 93d:62025; 93m:60100**

Nielsen, Gert G. (*with* Gill, Richard D.; Andersen, Per Kragh; Sørensen, Thorkild I. A.) A counting process approach to maximum likelihood estimation in frailty models. **93a:62116**

Norros, Ilkka *see* **Arjas, Elja; et al., 93j:60054**

Pepe, Margaret Sullivan Inference for events with dependent risks in multiple endpoint studies. **93b:62076**

Phelan, Michael J. Point processes and inference for rainfall fields. (English summary) **93g:62120**

Reiss, Rolf-Dieter *see* **Falk, Michael, 93h:62075**

Resnick, Sidney I. *see* **Cline, Daren B. H., 93i:60022**

Rosenkrantz, Walter A. Little's theorem: a stochastic integral approach. (English summary) **93h:60157**

Scarsini, Marco *see* **Bassan, Bruno, 93g:60036**

Scheike, Thomas H. A general risk process and its properties. **93d:60135**

Sivazlian, B. D. The use of multiple integrals in the characterization of renewal counting processes. (English summary) **93g:60187**

Smith, Richard L. *see* **Joe, Harry; et al., 93b:60104**

(Sobel, Matthew J.) *see* **Stochastic models, 93a:60001**

Sørensen, Thorkild I. A. *see* **Nielsen, Gert G.; et al., 93a:62116**

Spreij, Peter Recursive approximate maximum likelihood estimation for a class of counting process models. **93e:62224**

Takahata, Hiroshi Strong laws for the Poisson sampled stochastic processes. **93c:60042**

Tanaka, Hiroshi[1] *see* **Kanagawa, S.; et al., 93h:60031**

Trần Hùng Thao Note on filtering from point process. **93b:60086**

Vázquez-Abad, Felisa J. *see* **Brémaud, Pierre, 93d:60154**

Wakolbinger, Anton *see* **Gorostiza, Luis G., 93h:60131**

Watson, Ray (*with* Yip, Paul) A bivariate counting process. (English summary) **93m:60173**

Wefelmeyer, W. *see* **Greenwood, P. E., 93a:62118**

Weissman, Ishay *see* **Joe, Harry; et al., 93b:60104**

Whitmore, G. Alex *see* **Lee, Mei Ling Ting, 93k:60183**

Whitt, Ward $H = \lambda G$ and the Palm transformation. **93m:60191**

— *see also* **Massey, William A., 93m:60040**

Woodside, William The waiting time for the occurrence of k or more events in each of n independent Poisson processes. **93g:60114**

Xue, Xing Xiong Martingale representation for a class of processes with independent increments and its applications. **93g:60095**

Yip, Paul *see* **Watson, Ray, 93m:60173**

Zheng, Yao Hui The Markov property and limit distribution of infinite particle systems. (Chinese. English summary)

Items listed otherwise than by author

Stochastic models ★ Stochastic models. **93a:60001**

60G57 Random measures

Adler, Robert J. (*with* Lewin, Marica) An evolution equation for the intersection local times of superprocesses. **93h:60077**

Fernández, Begoña (*with* Gorostiza, Luis G.) Hydrodynamic and fluctuation limits of branching particle systems with changes of mass. **93f:60066**

Gorostiza, Luis G. *see* **Fernández, Begoña, 93f:60066**

Góźdź, Cz. (*with* Polak, M.) Random measures with values in topological abelian groups. (English summary) **93m:60095**

Holley, Richard (*with* Waymire, Edward C.) Multifractal dimensions and scaling exponents for strongly bounded random cascades. (English summary) **93k:60122**

Jacob, Pierre M. (*with* Mendes Lopes, Maria de Nazaré) Un théorème central limite fonctionnel pour un estimateur d'un noyau de transition. (English summary) [A functional central limit theorem for the estimator of a transition kernel] **93c:60070**

Lewin, Marica *see* **Adler, Robert J., 93h:60077**

Mendes Lopes, Maria de Nazaré *see* **Jacob, Pierre M., 93c:60070**

Patzschke, N. (*with* Zähle, M.) Fractional differentiation in the self-affine case. I. Random functions. (English summary) **93j:60064**

Perkins, Edwin A. Conditional Dawson-Watanabe processes and Fleming-Viot processes. **93h:60078**

Polak, M. *see* **Góźdź, Cz., 93m:60095**

Ponomarenko, A. I. Integral representation of random functions with values in locally convex spaces. (Ukrainian. Russian and Ukrainian summaries) **93k:60123**

Radchenko, V. N. Integrals with respect to random measures and random linear functionals. (Russian) **93e:60093**

Sion, Maurice Stochastic measures and integrals. (*see* **93d:00039**)

Waymire, Edward C. *see* **Holley, Richard, 93k:60122**

Yadrenko, M. I. *see* **Zaika, I. V., 93m:60096**

Zähle, M. *see* **Patzschke, N., 93j:60064**

Zaika, I. V. (*with* Yadrenko, M. I.) Homogeneous and isotropic random measures. (Russian) **93m:60096**

Items with secondary classifications in 60G57

Adler, Robert J. (*with* Lewin, Marica) Local time and Tanaka formulae for super Brownian and super stable processes. **93e:60169**

Barlow, Martin T. (*with* Evans, Steven N.; Perkins, Edwin A.) Collision local times and measure-valued processes. **93a:60119**

Ben Nasr, Fathi Ensembles aléatoires self-affines en loi. (English summary) [Random sets self-affine in law] **93c:60008**

Buldygin, V. V. Semi-invariant conditions of weak convergence of random processes in the space of continuous functions. (English summary) **93m:60017**

Chauvin, Brigitte (*with* Rouault, Alain; Wakolbinger, Anton) Growing conditioned trees. **93d:60138**

Cvitanić, Jakša (*with* Karatzas, Ioannis) Convex duality in constrained portfolio optimization. (English summary) **93j:90068**

Dawson, Donald A. (*with* Hochberg, K. J.; Wu, Yadong) Multilevel branching systems. **93b:60191**

— (*with* Hochberg, K. J.) A multilevel branching model. **93d:60139**

— (*with* Fleischmann, Klaus) Critical branching in a highly fluctuating random medium. **93a:60130**

— (*with* Fleischmann, Klaus) Diffusion and reaction caused by point catalysts. **93e:35055**

Dynkin, E. B. Additive functionals of superdiffusion processes. **93d:60122**

— Superdiffusions and parabolic nonlinear differential equations. **93d:60124**

Etheridge, Alison M. Asymptotic behaviour of measure-valued critical branching processes. **93j:60118**

Ethier, S. N. Equivalence of two descriptions of the ages of alleles. **93f:60124**

Evans, Steven N. The entrance space of a measure-valued Markov branching process conditioned on nonextinction. **93j:60110**

— *see also* **Barlow, Martin T.; et al., 93a:60119**

Fan, Ai Hua Équivalence et orthogonalité des mesures aléatoires engendrées par martingales positives homogènes. (English summary) [Equivalence and orthogonality of random measures generated by homogeneous positive martingales] **93d:60082**

Fleischmann, Klaus Critical branching caused by interaction with point catalysts. **93c:60129**

— *see also* **Dawson, Donald A., 93a:60130** *and* **93e:35055**

Gorostiza, Luis G. (*with* Wakolbinger, Anton) Convergence to equilibrium of critical branching particle systems and superprocesses, and related nonlinear partial differential equations. (English summary) **93h:60131**

— (*with* Roelly-Coppoletta, Sylvie; Wakolbinger, Anton) Persistence of critical multitype particle and measure branching processes. **93e:60171**

Hochberg, K. J. *see* **Dawson, Donald A.; et al., 93b:60191** *and* **93d:60139**

Kallenberg, Olav Some uses of point processes in multiple stochastic integration. **93a:60080**

Karatzas, Ioannis *see* **Cvitanić, Jakša, 93j:90068**

Kunita, Hiroshi Central limit theorems on random measures and stochastic difference equations. **93h:60055**

— Limits on random measures and stochastic difference equations related to mixing array of random variables. **93f:60039**

Kurtz, Thomas G. Averaging for martingale problems and stochastic approximation. **93h:60070**

Le Gall, Jean-François Brownian excursions, trees and measure-valued branching processes. **93b:60195**
Lewin, Marica *see* **Adler, Robert J., 93e:60169**
Li, Zeng Hu A note on the multitype measure branching process. **93e:60172**
— Measure-valued branching processes with immigration. (English summary) **93k:60214**
Méléard, Sylvie (*with* Roelly-Coppoletta, Sylvie) Discontinuous measure-valued branching processes and generalized stochastic equations. **93d:60140**
— (*with* Roelly-Coppoletta, Sylvie) An ergodic result for critical spatial branching processes. **93m:60172**
Mori, Toshio Representation of linearly additive random fields. **93b:60103**
Orsingher, Enzo Processes governed by signed measures connected with third-order "heat-type" equations. (Russian and Lithuanian summaries) **93g:35060**
Ostrovskiĭ, E. I. Exact asymptotics of the density of the distribution of multiple stochastic integrals. (Russian. Russian summary) **93j:60025**
Perkins, Edwin A. *see* **Barlow, Martin T.; et al., 93a:60119**
Radchenko, V. N. Uniform integrability for integrals with respect to L_0-valued measures. (Russian. Ukrainian summary) **93b:28025**
Roelly-Coppoletta, Sylvie *see* **Méléard, Sylvie, 93d:60140; Gorostiza, Luis G.; et al., 93e:60171** *and* **Méléard, Sylvie, 93m:60172**
Rosen, Jay Renormalization and limit theorems for self-intersections of superprocesses. (English summary) **93h:60034**
Rouault, Alain *see* **Chauvin, Brigitte; et al., 93d:60138**
Shiga, Tokuzo Some properties of solutions for one-dimensional SPDEs associated with space-time white noise. **93b:60134**
Szulga, Jerzy Multiple stochastic integrals with respect to symmetric infinitely divisible random measures. **93b:60117**
Tkeshelashvili, A. S. A stochastic integral with respect to random measures with a smooth distribution. (Russian. English and Georgian summaries)
Tribe, Roger The behavior of superprocesses near extinction. **93b:60161**
Tsujii, Yoshiki Markov-self-similar sets. **93e:60027**
Wakolbinger, Anton *see* **Chauvin, Brigitte; et al., 93d:60138; Gorostiza, Luis G.; et al., 93e:60171** *and* **93h:60131**
Wang, Zi Kun[1] Stochastic processes in physics. (Chinese. English and Chinese summaries)
Wu, Yadong Extinction of the multilevel $M(M(\mathbf{R}^d))$-valued branching diffusion process. **93a:60137**
— *see also* **Dawson, Donald A.; et al., 93b:60191**
Yukich, J. E. Weak convergence of smoothed empirical processes. (English summary) **93k:60019**

60G60 Random fields

Anh, V. V. (*with* Lunney, K. E.) Generalised harmonic analysis of a class of nonstationary random fields. (English summary) **93i:60093**
Benassi, Albert (*with* Jaffard, Stéphane; Roux, Daniel) Module de continuité des champs aléatoires gaussiens étudiés au moyen d'ondelettes appropriées. (English and French summaries) [Modulus of continuity of Gaussian random fields decomposed in an appropriate wavelet basis] **93f:60067**
Bradley, Richard C. On the spectral density and asymptotic normality of weakly dependent random fields. **93e:60094**
Chen, Xiong A property of sample paths of the N-parameter d-dimensional Ornstein-Uhlenbeck process. (Chinese. English and Chinese summaries) **93m:60097**
— (*with* Xia, Pan) On Lévy-Baxter theorem for general two-parameter Gaussian processes. (English summary) **93i:60094**
Cheng, Raymond Rational spectral densities and strong mixing. (English summary) **93i:60095**
Christakos, George Certain results on spatiotemporal random fields and their applications in environmental research. (English summary) (*see* **93e:00029**)
Cressie, Noel (*with* Lele, Subhash) New models for Markov random fields. (English summary) **93i:60096**
Dalang, Robert C. (*with* Walsh, John B.) The sharp Markov property of the Brownian sheet and related processes. **93f:60068**
— (*with* Walsh, John B.) The sharp Markov property of Lévy sheets. **93e:60095**
Deriev, I. I. A central limit theorem for nonlinear functionals of Gaussian random fields. (Russian) (*see* **93k:00038**)
Gorostiza, Luis G. (*with* López-Mimbela, J. Alfredo) The demographic variation process of multitype branching random fields. **93j:60065**
Gushchin, A. A. (*with* Mishura, Yu. S.) Davis inequalities and the Gundy decomposition for two-parameter strong martingales. III. (Russian) **93e:60096**
Gutiérrez Jáimez, Ramón (*with* Ruiz Medina, M. D.; Valderrama Bonnet, Mariano J.) Stochastic analysis of the Kiefer field. (Spanish. English summary) **93m:60098**
Heyer, Herbert Stationary random fields over hypergroups. **93g:60104**
Ibragimov, I. A. Remarks on variations of random functions of several variables. (Russian. Russian summary) **93i:60097**
Jaffard, Stéphane *see* **Benassi, Albert; et al., 93f:60067**
Kalinauskaitė, N. On multiple points of some stable random fields. (Russian and Lithuanian summaries) **93e:60097**
Kôno, Norio Recent development on random fields and their sample paths. III. Self-similar processes. **93c:60071**
Kurien, T. V. (*with* Sethuraman, Jayaram) Singularities in Gaussian random fields. (English summary) **93k:60124**
Kuznětsova, O. M. Isotropic random fields on systems of spheres. (*see* **93k:60008**)
Lele, Subhash *see* **Cressie, Noel, 93i:60096**
Leonenko, N. N. (*with* Olenko, A. Ya.) Tauberian and Abelian theorems for the correlation function of a homogeneous isotropic random field. (Russian. Ukrainian summary) **93f:60069**
López-Mimbela, J. Alfredo *see* **Gorostiza, Luis G., 93j:60065**
Lunney, K. E. *see* **Anh, V. V., 93i:60093**
Luo, Shou Jun Gaussian random fields and symmetric Q-processes. (English summary) **93k:60125**
Malyarenko, A. A. (*with* Olenko, A. Ya.) Multidimensional covariant random fields on commutative locally compact groups. (Russian. Russian and Ukrainian summaries) **93m:60099**
Matúš, F. On equivalence of Markov properties over undirected graphs. **93g:60105**
Mecke, J. On the intersection density of flat processes. **93f:60070**
Mel'nik, V. N. Lévy-Baxter theorems for shot noise fields. (Russian. Russian summary) **93k:60126**
Miamee, A. G. (*with* Niemi, Hannu) On the angle for stationary random fields. **93c:60072**
Mishura, Yu. S. *see* **Gushchin, A. A., 93e:60096**
Mori, Toshio Representation of linearly additive random fields. **93b:60103**
Nakhapetyan, B. S. (*with* Petrosyan, A. N.) Martingale-difference Gibbs random fields and central limit theorem. **93d:60090**
Niemi, Hannu *see* **Miamee, A. G., 93c:60072**
Ogura, Hisanao *see* **Takahashi, Nobuyuki, 93k:60130**
Olenko, A. Ya. On the proximity of spectral functions of homogeneous isotropic fields. (Ukrainian. Russian and Ukrainian summaries) **93k:60127**
— *see also* **Leonenko, N. N., 93f:60069** *and* **Malyarenko, A. A., 93m:60099**
Ostrovskiĭ, E. I. Two-sided exponential estimates for the distribution of the maximum of a random field. (Russian)
Parkhomenko, V. N. Asymptotic behavior of the variance of the "surface area" of a random field. (Russian) **93d:60091**
Petrosyan, A. N. *see* **Nakhapetyan, B. S., 93d:60090**
Pogány, Tibor Almost sure sampling reconstruction of non-band-limited homogeneous random fields. **93f:60071**
— Sharp truncation error bound in the sampling reconstruction of homogeneous random fields. (English summary) **93g:60106**
Pogosyan, S. K. Probabilities of large deviations for Gibbs random fields. (Russian. English and Armenian summaries) **93e:60098**
Popov, Yu. D. Modeling of a homogeneous and isotropic random field on the Lobachevskiĭ plane. (Russian. Russian summary)
Rao, Malempati M. Sampling and prediction for harmonizable isotropic random fields. (English summary) **93g:60107**
Roux, Daniel *see* **Benassi, Albert; et al., 93f:60067**
Ruiz Medina, M. D. *see* **Gutiérrez Jáimez, Ramón; et al., 93m:60098**
Sabirov, Sh. O. *see* **Zavadnĭkova, V. B., 93f:60073**
Sapegin, I. L. Boundary properties of Wiener fields. (Russian)
Sethuraman, Jayaram *see* **Kurien, T. V., 93k:60124**
Shermatov, A. A. (*with* Yarova, N. V.) Cumulant conditions for the Lipschitz property of fields of shot effect type. (Ukrainian. Russian and Ukrainian summaries) **93k:60128**
Siegmund, David O. Tail approximations for maxima of random fields. (English summary) **93k:60129**
Si Si Variational calculus for Lévy's Brownian motion and a generalization. **93g:60108**
Su, Zhong Gen Strong approximation of set-indexed processes for φ-mixing random fields. (Chinese) **93f:60072**
Takahashi, Nobuyuki (*with* Ogura, Hisanao) Probability distribution of maxima of random surface. (English summary) **93k:60130**
Tóth, János A functional equation related to random fields. **93g:60109**
Valderrama Bonnet, Mariano J. *see* **Gutiérrez Jáimez, Ramón; et al., 93m:60098**
Walsh, John B. *see* **Dalang, Robert C., 93e:60095** *and* **93f:60068**
Wang, Zi Kun[1] Stochastic processes in physics. (Chinese. English and Chinese summaries)
Xia, Pan *see* **Chen, Xiong, 93i:60094**
Yarova, N. V. *see* **Shermatov, A. A., 93k:60128**
Zavadnĭkova, V. B. (*with* Sabirov, Sh. O.) On the convergence to the normal law of some functionals of Gaussian random fields. (Ukrainian. Russian and Ukrainian summaries) **93f:60073**
Zhang, Chun Sheng On the recurrence of Ornstein-Uhlenbeck processes. (English summary) **93i:60098**

Items with secondary classifications in 60G60

Adler, André The "fair" games problem for multidimensionally indexed random variables. (English summary) **93h:60044**
Alberverio, Sergio (*with* Iwata, Koichiro; Kolsrud, Torbjörn) Conformally invariant random fields and processes—old and new. **93h:81145**
— (*with* Høegh-Krohn, Raphael; Surgailis, Donatas) Some Euclidean integer-valued random fields with Markov properties. (English summary) **93i:60180**
— Mathematical physics and stochastic analysis. (English summary) **93m:60128**
Amaro de Matos, J. M. G. *see* **Zagrebnov, V. A.; et al., 93a:82033**
Arak, T. (*with* Surgailis, Donatas) Markov random graphs and polygonal fields with Y-shaped nodes. **93c:60054**
Benjamini, Itai (*with* Peres, Yuval) A correlation inequality for tree-indexed Markov chains. **93g:60037**
Bjambajav, D. (*with* Mogul'skiĭ, A. A.) Large deviations for the minimum point of a Gaussian random field. **93d:60039**
Borovkov, K. A. Approximation of branching processes, and random fields. (Russian) **93c:60128**
Bryc, Włodzimierz On the large deviation principle for stationary weakly dependent random fields. **93c:60031**
Buldygin, V. V. (*with* Dem'yanenko, O. O.) Pointwise properties of estimates for the mutual correlation function of Gaussian fields. (Russian. Russian summary) **93j:62234**
Bulinskiĭ, A. V. Central limit theorem for the solution of the multidimensional Burgers equation with random data. **93f:60025**
Chauvin, Brigitte (*with* Olivares-Rieumont, P.; Rouault, Alain) Fluctuations of spatial branching processes with mean-field interaction. **93d:60137**
Chen, Pei De Multi-parameter stochastic processes. **93a:60054**
Cheng, Raymond A strong mixing condition for second-order stationary random fields. **93e:60068**
— On the rate of strong mixing in stationary Gaussian random fields. **93e:60069**
Comets, Francis (*with* Gidas, Basilis) Parameter estimation for Gibbs distributions from partially observed data. **93b:60056**

— On consistency of a class of estimators for exponential families of Markov random fields on the lattice. **93c:82024**

Darling, R. W. R. Isotropic stochastic flows: a survey. **93h:60089**

Dem'yanenko, O. O. *see* **Buldygin, V. V., 93j:62234**

Deo, Chandrakant M. Almost sure convergence of a class of random fields. (English summary) **93k:60074**

Frigessi, Arnoldo (*with* Huang, Ch'i Jui; Younes, Laurent) Optimal spectral structure of reversible stochastic matrices, Monte Carlo methods and the simulation of Markov random fields. (English summary) **93e:60133**

Gidas, Basilis *see* **Comets, Francis, 93b:60056**

Gielerak, Roman Vacuum energy densities in the $\mathcal{F}(\varphi)_2$ Euclidean field theory. (English summary) **93m:81096**

Gimel'farb, G. L. (*with* Zalesnyi, A. V.) ★ Цифровая обработка изображений, представленных моделями марковских случайных полей. (Russian. Russian summary) [Digital processing of images that are represented by Markov random field models] **93g:68147**

Gurevich, B. M. On joint distributions of random elements with given mutual conditional distributions. **93e:60029**

Gushchin, A. A. *see* **Mishura, Yu. S., 93e:60089**

Guyon, Xavier Variations et identification de champs gaussiens sur $\mathbf{R}^2$. [Variations and identification of Gaussian fields in $\mathbf{R}^2$] (*see* **93k:65002**)

Hassenforder, Claudie A study of some stationary Gaussian processes indexed by the homogeneous tree. **93g:60076**

Hida, Takeyuki (*with* Si Si) Variational calculus for Gaussian random fields. **93j:49029**

Høegh-Krohn, Raphael *see* **Albeverio, Sergio; et al., 93i:60180**

(Holický, P.) *see* **Malyshev, V. A., 93i:82003**

Huang, Chang Quan Relations between Markov properties of two-parameter processes. (Chinese. English and Chinese summaries)

Huang, Ch'i Jui *see* **Frigessi, Arnoldo; et al., 93e:60133**

Huang, Da Wei Central limit theorem for two-parameter martingale differences with application to stationary random fields. (English summary) **93j:60023**

Imkeller, Peter The transformation theorem for two-parameter pure jump martingales. **93d:60084**

Iwata, Koichiro *see* **Albeverio, Sergio; et al., 93h:81145**

Kolsrud, Torbjörn *see* **Albeverio, Sergio; et al., 93h:81145**

(Kotecký, Roman) *see* **Malyshev, V. A., 93i:82003**

Kuznětsova, O. M. Prediction problems for an isotropic random field on a Hilbert space. (Russian) **93f:60054**

— On the problem of filtering an isotropic random field in a Hilbert space. (Ukrainian. Russian and Ukrainian summaries) **93k:60105**

Lagodowski, Zbigniew A. Fuk inequalities for random fields of backward martingales. (Russian) **93a:60021**

Leonenko, N. N. Limit distributions of measures of sojourns of vector Gaussian fields with strong dependence. **93e:60043**

— (*with* Olenko, A. Ya.) Tauberian and abelian theorems for Hankel-type transformations, and limit theorems for functionals of random fields. (Russian. English summary) **93b:60043**

— (*with* Parkhomenko, V. N.) Comparison theorems for measures of the sojourn time inside a "small" sphere of a vector Gaussian field. (Russian) **93f:60046**

Levy, Bernard C. Regular and reciprocal multivariate stationary Gaussian processes over $\mathbf{Z}$ are necessarily Markov. **93c:60051**

Li, De Li (*with* Rao, M. Bhaskara; Wang, Xiang Chen) The law of the iterated logarithm for independent random variables with multidimensional indices. **93d:60047**

— (*with* Wang, Xiang Chen; Rao, M. Bhaskara) Almost sure behaviour of F-valued random fields. (English summary) **93h:60049**

López-Mimbela, J. Alfredo Fluctuation limits of multitype branching random fields. **93b:60044**

Loubaton, Philippe A regularity criterion for lexicographical prediction of multivariate wide-sense stationary processes on $\mathbf{Z}^2$ with non-full-rank spectral densities. **93b:60085**

Malyshev, V. A. (*with* Minlos, R. A.) ★ Gibbs random fields. **93i:82003**

Mase, Shigeru Uniform LAN condition of planar Gibbsian point processes and optimality of maximum likelihood estimators of soft-core potential functions. **93b:62121**

McCormick, William P. A strong law for the maxima of isotropic Gaussian random fields. (English summary) **93j:60047**

Mikhailov, A. E. On the oscillation of Gaussian processes. II. (Russian. Russian summary) **93g:60078**

Minlos, R. A. *see* **Malyshev, V. A., 93i:82003**

Mishura, Yu. S. (*with* Gushchin, A. A.) Two-parameter strong martingales: inequalities for quadratic variation and some decompositions. **93e:60089**

— Stochastic differential equations in the plane that contain strong semimartingales. (Russian) **93m:60135**

Mogul'skiĭ, A. A. *see* **Bjambajav, D., 93d:60039**

Moklyachuk, M. P. (*with* Tatarinov, S. V.) On the problem of robust filtering of homogeneous random fields. (Ukrainian. Russian and Ukrainian summaries) **93k:60106**

Móricz, Ferenc Strong limit theorems for quasi-orthogonal random fields. II. **93a:60049**

Muraoka, Hiroshi A fractional Brownian motion and the canonical representations of its coefficient processes. (English summary) **93i:60075**

— Equivalence problems for Gaussian multiple Markov processes and their canonical representations. (English summary) **93m:60079**

Nelson, Edward Clock space. (English summary) **93i:81167**

Nguyễn Duy Tiến *see* **Nguyễn Văn Giang, 93d:60048**

Nguyễn Văn Giang (*with* Nguyễn Duy Tiến) The strong law of large numbers for multiparametric independent random variables. (Russian. English and Lithuanian summaries) **93d:60048**

Noda, Akio Lévy's Brownian motion and stochastic variational equation. **93h:60126**

Nualart, David Randomized stopping points and optimal stopping on the plane. **93d:60078**

Olenko, A. Ya. *see* **Leonenko, N. N., 93b:60043**

Olivares-Rieumont, P. *see* **Chauvin, Brigitte; et al., 93d:60137**

Parkhomenko, V. N. *see* **Leonenko, N. N., 93f:60046**

Patrick, A. E. *see* **Zagrebnov, V. A.; et al., 93a:82033**

Peres, Yuval *see* **Benjamini, Itai, 93g:60037**

Pickard, D. K. *see* **Tory, E. M., 93i:60187**

Pitt, Loren D. (*with* Wang, Daoyi) On stochastic elliptic boundary value problems associated with Gaussian Markov random fields. (*see* **93b:60006**)

Possolo, Antonio Subsampling a random field. (English summary) **93h:62156**

Prigarin, S. M. Convergence of numerical models of random fields in Monte Carlo method. (English summary) **93j:65010**

Rao, M. Bhaskara *see* **Li, De Li; et al., 93d:60047** *and* **93h:60049**

Rao, Malempati M. $L^{2,2}$-boundedness, harmonizability, and filtering. **93i:60082**

Roitgarts, A. D. A section theorem for weakly predictable sets in the plane. (Russian) **93g:60072**

Rouault, Alain *see* **Chauvin, Brigitte; et al., 93d:60137**

Sakhno, L. M. Local times of a class of random fields. (Russian) **93j:60113**

Salisbury, Thomas S. A low intensity maximum principle for bi-Brownian motion. **93b:60140**

Shilo, L. V. A theorem on an estimate for the mean of a stationary random field. (Russian) **93e:62248**

Si Si *see* **Hida, Takeyuki, 93j:49029**

Solé, J. Ll. (*with* Utzet, Frederic) Skorohod and Stratonovich line integrals in the plane. **93c:60080**

Song, Shiqui Inégalités relatives aux processus d'Ornstein-Uhlenbeck à n-paramètres et capacité gausienne $c_{n,2}$. (English and French summaries) [Inequalities relative to n-parameter Ornstein-Uhlenbeck processes and the Gaussian capacity $c_{n,2}$] **93k:60093**

Sowers, Richard B. Large deviations for a reaction-diffusion equation with non-Gaussian perturbations. **93e:60125**

Surgailis, Donatas *see* **Arak, T., 93c:60054** *and* **Albeverio, Sergio; et al., 93i:60180**

Takenaka, Shigeo Integral-geometric construction of self-similar stable processes. **93d:60070**

Tatarinov, S. V. *see* **Moklyachuk, M. P., 93k:60106**

Tempelman, A. A. *see* **Žalys, Albertas, 93d:60171**

Tory, E. M. (*with* Pickard, D. K.) Unilateral Gaussian fields. **93i:60187**

Utzet, Frederic *see* **Solé, J. Ll., 93c:60080**

Vu Viet Yen A stochastic Taylor formula for two-parameter stochastic processes. (English summary) **93m:60130**

Wang, Daoyi *see* **Pitt, Loren D., (93b:60006)**

Wang, Xiang Chen *see* **Li, De Li; et al., 93d:60047** *and* **93h:60049**

Wu, Zong Qi A moment inequality for multidimensionally indexed arrays of mixing martingales and a convergence theorem. (Chinese. English and Chinese summaries)

Xiao, Yi Min Some properties of the image sets of two-parameter Ornstein-Uhlenbeck processes. (Chinese. Chinese summary)

Younes, Laurent Maximum likelihood estimation for Gibbsian fields. (English summary) (*see* **93g:62004**)

— *see also* **Frigessi, Arnoldo; et al., 93e:60133**

Zagrebnov, V. A. (*with* Amaro de Matos, J. M. G.; Patrick, A. E.) Gibbs measures for the Curie-Weiss random field Ising model. **93a:82033**

Zalesnyi, A. V. *see* **Gimel'farb, G. L., 93g:68147**

Žalys, Albertas (*with* Tempelman, A. A.) Generalized Gaussian fields with local interaction that are stationary over a space. (Russian) **93d:60171**

Zhou, Jian Wei² The two-parameter regular Markov processes and processes with independent increments. (English and Chinese summaries) **93k:60186**

Zhou, Zhan Gong Infinite series of independent two-parameter Ornstein-Uhlenbeck processes. (Chinese. English and Chinese summaries) **93f:60047**

— Two-parameter harnesses and the generalized Brownian sheet. (Chinese. English and Chinese summaries) **93h:60129**

60G70 Extreme value theory; extremal processes

Arnold, Barry C. Logistic and semi-logistic processes. **93e:60099**

Berred, Mohamed On record values and the exponent of a distribution with regularly varying upper tail. **93h:60079**

Bunge, J. A. (*with* Nagaraja, H. N.) Dependence structure of Poisson-paced records. **93m:60100**

Chernick, Michael R. (*with* Hsing, Tailen; McCormick, William P.) Calculating the extremal index for a class of stationary sequences. **93c:60073**

Csörgő, Sándor (*with* Mason, David M.) Intermediate- and extreme-sum processes. **93d:60092**

Galambos, Janos (*with* Xu, Yuan) Regularly varying expected residual life and domains of attraction of extreme value distributions. **93c:60074**

Gudynas, Pranas P. (*with* Sakalauskas, L. L.) Distribution of extrema of multidimensional Gaussian sequences. (Russian. Russian and Lithuanian summaries) **93k:60131**

Gut, Allan Limit theorems for record times. **93c:60075**

de Haan, L. A Brownian bridge connected with extreme values. (English summary) **93d:60093**

Haas, Peter J. The maximum and mean of a random length sequence. **93i:60099**

Hsing, Tailen *see* **Chernick, Michael R.; et al., 93c:60073**

Joe, Harry (*with* Smith, Richard L.; Weissman, Ishay) Bivariate threshold methods for extremes. **93b:60104**

Kennedy, Douglas P. (*with* Kertz, Robert P.) Limit theorems for suprema, threshold-stopped random variables and last exits of i.i.d. random variables with costs and discounting, with applications to optimal stopping. **93k:60132**

Kertz, Robert P. *see* **Kennedy, Douglas P., 93k:60132**

Leadbetter, M. R. On a basis for "peaks over threshold" modeling. **93a:60077**

Lo, Gane Samb Sur la caractérisation empirique des extrêmes. [Empirical characterization of extremes] **93b:60105**

Mason, David M. *see* **Csörgő, Sándor, 93d:60092**

McCormick, William P. (*with* Park, You Sung) Asymptotic analysis of extremes from autoregressive negative binomial processes. (English summary) **93k:60133**

— *see also* **Chernick, Michael R.; et al., 93c:60073**

Nagaraja, H. N. *see* **Bunge, J. A., 93m:60100**

Nayak, S. S. (*with* Sujatha, D.) Boundary crossings of partial maxima of i.i.d. sequences. **93g:60110**
Nevzorov, V. B. (*with* Rannè, M.) Record times in sequences of non-identically distributed discrete random variables. (Russian. Russian summary) **93g:60111**
Novak, S. Yu. On the distribution of the maximum of a random number of random variables. (Russian) **93c:60076**
Oliveira, M. F. (*with* Turkman, K. F.) A note on the asymptotic independence of maximum and minimum of stationary sequences with extremal index. **93e:60100**
Pan, Jia Zhu The joint limiting distribution of upper extremes of weak mixing sequences. (Chinese. English and Chinese summaries) **93h:60080**
Park, You Sung *see* **McCormick, William P., 93k:60133**
Penrose, Mathew D. Semi-min-stable processes. (English summary) **93h:60081**
Pfeifer, Dietmar Some remarks on Nevzorov's record model. **93k:60134**
Rannè, M. *see* **Nevzorov, V. B., 93g:60111**
Ravi, S. A note on weak convergence to extremal processes. **93g:60112**
Rychlik, Igor The two-barrier problem for continuously differentiable processes. **93b:60106**
Sakalauskas, L. L. *see* **Gudynas, Pranas P., 93k:60131**
Smith, Richard L. The extremal index for a Markov chain. **93e:60101**
— *see also* **Joe, Harry; et al., 93b:60104**
Stadje, Wolfgang The expected value of the one-sided cusum stopping time. (English summary) **93j:60066**
Sujatha, D. *see* **Nayak, S. S., 93g:60110**
Tiago de Oliveira, José Perspectives on the statistics of extremes. Basic results and open problems. (Portuguese. English and Spanish summaries) **93c:60077**
Turkman, K. F. *see* **Oliveira, M. F., 93e:60100**
Vinogradov, V. V. Limit theorems for extreme order statistics: large deviations and asymptotic expansions with nonuniform estimates of remainders. (English summary) **93g:60113**
Weber, Michel Jean Georges Radiance variation relative to the solar-inclination over a Gaussian model of relief. **93c:60078**
Weissman, Ishay *see* **Joe, Harry; et al., 93b:60104**
Woodside, William The waiting time for the occurrence of k or more events in each of n independent Poisson processes. **93g:60114**
Xu, Yuan *see* **Galambos, Janos, 93c:60074**
Zhang, Yong Sheng The joint distribution of kth record times and kth record values. (English and Chinese summaries)

Items with secondary classifications in 60G70

Asmussen, Søren (*with* Perry, David) On cycle maxima, first passage problems and extreme value theory for queues. (English summary) **93i:60164**
Bacro, Jean-Noël (*with* Brito, Margarida) Comportement asymptotique presque sûr de la différence de statistiques d'ordre uniformes. (English summary) [Almost sure asymptotic behavior of the difference of uniform order statistics] **93a:60044**
Beirlant, Jan (*with* Teugels, Jozef L.) Limit distributions for compounded sums of extreme order statistics. **93k:60051**
Berman, Simeon M. ★ Sojourns and extremes of stochastic processes. **93a:60055**
Bobkov, S. G. Logarithmically concave measures and their application to random processes that are linearly generated by independent variables. (Russian. Russian summary) **93g:60025**
Brito, Margarida *see* **Bacro, Jean-Noël, 93a:60044**
Bunge, J. A. (*with* Nagaraja, H. N.) Exact distribution theory for some point process record models. **93d:62025**
— (*with* Nagaraja, H. N.) Correction: "Exact distribution theory for some point process record models" [Adv. in Appl. Probab. **24** (1992), no. 1, 20–44; MR 93d:62025].
Davidovich, M. I. Convergence of the Weibull-Gnedenko distribution to the extreme value distribution. (Russian. English and Russian summaries) **93j:60022**
Dembo, Amir *see* **Karlin, Samuel, 93b:60042**
Egorov, V. A. The law of the iterated logarithm and order statistics. **93d:60042**
Fuchs, Aimé (*with* Letta, Giorgio) Un résultat élémentaire de fiabilité. Application à la formule de Weierstrass sur la fonction gamma. (French summary) [An elementary reliability result. Application to the Weierstrass formula on the gamma function] **93k:60034**
Godbole, Anant P. The exact and asymptotic distribution of overlapping success runs. **93h:60016**
Hall, Peter Gavin (*with* Teugels, Jozef L.; Vanmarcke, Ann) The abscissa of convergence of the Laplace transform. **93e:62107**
Hebda-Grabowska, Halina On the rate of convergence to Brownian motion of the partial sums of infima of independent random variables. **93f:60028**
Hüsler, J. Dependence in multivariate extreme values. (English summary) **93g:60048**
Karlin, Samuel (*with* Dembo, Amir) Limit distributions of maximal segmental score among Markov-dependent partial sums. **93b:60042**
Letta, Giorgio *see* **Fuchs, Aimé, 93k:60034**
Michta, M. Multivariate tail equivalence of distributions in extreme value theory. **93c:60025**
Mirakhmedov, Sh. A. Probabilities of moderate deviations in limit theorems for conditional distributions of sums of independent random variables. (Russian) **93g:60053**
Mohan, N. R. (*with* Ravi, S.) On scale and exponent functions of a class of limiting processes. (English summary) **93g:60054**
— A unified criterion for the local uniform convergence of the density of the maximum. **93i:60042**
Nagaraja, H. N. *see* **Bunge, J. A., 93d:62025**
Nayak, S. S. (*with* Wali, K. S.) On the number of boundary crossings related to LIL and SLLN for record values and partial maxima of i.i.d. sequences and extremes of uniform spacings. (English summary) **93k:60079**
Omey, E. (*with* Rachev, Svetlozar T.) Rates of convergence in multivariate extreme value theory. **93a:60033**
Pan, Jia Zhu The joint limiting distribution of maxima and minima of weakly mixing sequences. (Chinese. English and Chinese summaries)
— Strong limit laws for maxima of uniformly mixing sequences. (Chinese. English summary)
Perry, David *see* **Asmussen, Søren, 93i:60164**
Rachev, Svetlozar T. *see* **Omey, E., 93a:60033**
Ravi, S. *see* **Mohan, N. R., 93g:60054**
Resnick, Sidney I. (*with* Roy, Rishin) Random usc functions, max-stable processes and continuous choice. **93e:60009**
Roy, Rishin *see* **Resnick, Sidney I., 93e:60009**
Samuels, Stephen M. An all-at-once proof of Ignatov's theorem. **93h:60076**
Savitha, S. *see* **Vasudeva, R., 93i:60066**
Teugels, Jozef L. *see* **Hall, Peter Gavin; et al., 93e:62107**; **Vanmarcke, Ann, 93h:60053** *and* **Beirlant, Jan, 93k:60051**
Tomkins, R. J. (*with* Wang, Hong[6]) Stability theorems for large order statistics with varying ranks. **93h:60051**
Vanmarcke, Ann (*with* Teugels, Jozef L.) The region of convergence of the Laplace transform: almost sure estimation. **93h:60053**
— *see also* **Hall, Peter Gavin; et al., 93e:62107**
Vasudeva, R. (*with* Savitha, S.) Law of the iterated logarithm for random subsequences. (English summary) **93i:60066**
Vilimas, V. On limiting behaviour of sums and maxima when tails are slowly varying. (Lithuanian summary) **93m:60050**
Wali, K. S. *see* **Nayak, S. S., 93k:60079**
Wang, Hong[6] *see* **Tomkins, R. J., 93h:60051**

60G99 None of the above, but in this section

Alferov, E. A. N-almost periodic random processes. (Russian) (*see* **93b:00016**)
Das, Gokulananda (*with* Mohanty, S. K.) Convergence in probability of matrix transformation of random Fourier-Stieltjes series. **93b:60107**
Farahmand, K. Number of real roots of a random trigonometric polynomial. (English summary) **93m:60101**
Fukuda, Tokuo Statistical properties of fuzzy stochastic processes. (English summary) (*see* **93f:93007**)
Grincevičius, Arūnas Continuity of the distribution of a generalized random power series. (Russian. English and Lithuanian summaries) **93h:60082**
Jayakumar, K. (*with* Pillai, R. N.) The first-order autoregressive Mittag-Leffler process. (English summary)
Kahane, Jean-Pierre Some continuations of the work of Paley and Zygmund on random trigonometric series. (English summary) **93g:60115**
Khabalov, V. D. *see* **Miroshin, R. N., 93m:60103**
Lachout, Petr Linear rescaling of the stochastic process. (English summary) **93m:60102**
Mamurov, B. Zh. A class of quadratic processes. (Russian) **93j:60067**
Meredov, B. Random power series. (Russian. Russian summary) **93k:60135**
Miroshin, R. N. (*with* Khabalov, V. D.) Computation of the mean number of zeros of a Gaussian random polynomial with dependent coefficients. (Russian. English and Russian summaries) **93m:60103**
Mohanty, S. K. *see* **Das, Gokulananda, 93b:60107**
Monin, A. S. Jointly orthogonal expansions of multicomponent random functions. (Russian)
Panda, R. K. *see* **Pratihari, D.; et al., 93m:60104**
Pattanaik, B. P. *see* **Pratihari, D., 93b:60108** *and* **93m:60104**
Pattanayak, Swadheenanda (*with* Sharma, Surendra Kumar) Fourier-Stieltjes series associated with a process belonging to the domain of attraction of stable law. **93d:60094**
Pillai, R. N. *see* **Jayakumar, K.**
Pratihari, D. (*with* Pattanaik, B. P.) On the lower bound of the number of real roots of random algebraic equations. **93b:60108**
— (*with* Panda, R. K.; Pattanaik, B. P.) On the number of real roots of a random algebraic equation. (English summary) **93m:60104**
Röckner, Michael (*with* Zhang, Tu Sheng) Decomposition of Dirichlet processes on Hilbert space. **93f:60074**
Sato, Yumiko (*with* Takenaka, Shigeo) On determinism of symmetric α-stable processes of generalized Chentsov type. **93k:60136**
Sharma, Surendra Kumar *see* **Pattanayak, Swadheenanda, 93d:60094**
Skowroński, Arkadiusz On some properties of J-convex stochastic processes. (English summary) **93h:60083**
Takenaka, Shigeo *see* **Sato, Yumiko, 93k:60136**
Talagrand, Michel A new isoperimetric inequality and the concentration of measure phenomenon. **93d:60095**
— On vector-valued random Fourier series. **93k:60137**
Wang, Guang Yuan (*with* Zhang, Yue) The theory of fuzzy stochastic processes. (English summary)
Weba, Michael Simulation and approximation of stochastic processes by spline functions. (English summary) **93f:60075**
Zhang, Tu Sheng *see* **Röckner, Michael, 93f:60074**
Zhang, Yue *see* **Wang, Guang Yuan**

Items with secondary classifications in 60G99

Akashi, Shigeo A relation between Kolmogorov-Prokhorov's condition and Ohya's fractal dimensions. (English summary) **93e:94005**
Ben Nasr, Fathi Dimension de Hausdorff de certains fractals aléatoires. (English and French summaries) [Hausdorff dimension of some random fractals] **93h:28008**
Blanchard, Philippe (*with* Krüger, Tyll) Isomorphism between epidemic dynamical processes on random graphs with rational transmission probability $\gamma < 1$ and transmission probability one. **93a:92014**
El Karoui, Nicole *see* **Jeanblanc-Picqué, Monique; et al., 93c:90019**
Gopala Krishna, J. (*with* Satyanarayana Murty, A.) Random power series in one or several complex variables, a theorem of Steinhaus and applications. (*see* **93m:60007**)
den Hollander, Frank (*with* Hooghiemstra, G.; Keane, Michael S.; Resing, J.) Strong law and central limit theorem for a process between maxima and sums. **93a:60030**
Hooghiemstra, G. *see* **den Hollander, Frank; et al., 93a:60030**
Jeanblanc-Picqué, Monique (*with* El Karoui, Nicole; Viswanathan, Ravi) Bounds for the price of options. **93c:90019**

Kakihara, Yûichirô A classification of vector harmonizable processes. **93g:60075**
Keane, Michael S. *see* **den Hollander, Frank; et al., 93a:60030**
Kosarchin, V. M. *see* **Kvît, Ĭ. D.**
Krüger, Tyll *see* **Blanchard, Philippe, 93a:92014**
Kvît, Ĭ. D. (*with* Kosarchin, V. M.) A random process as a convolution or an amplification. (Ukrainian. Russian summary)
Manabe, Shojiro Large deviation for a class of current-valued processes. **93c:60037**
Negishi, Hiroshi *see* **Uno, Takashi, 93f:26013**
Obata, Nobuaki Rotation-invariant operators on white noise functionals. **93m:46048**
Plucińska, Agnieszka Some limit properties of processes with the linear regression. **93b:60048**
Qian, Neng Sheng An inequality for partial sums of nonindependent random variables and its applications. (Chinese. English and Chinese summaries)
Resing, J. *see* **den Hollander, Frank; et al., 93a:60030**
Rotando, Louis M. (*with* Thorp, Edward O.) The Kelly criterion and the stock market. **93h:90011**
Satyanarayana Murty, A. *see* **Gopala Krishna, J., (93m:60007)**
Sun, Dao Chun The natural boundary of some random power series. **93i:30003**
Teplyaev, A. V. The pure point spectrum of random orthogonal polynomials on the circle. (Russian) **93g:47019**
— Absolute continuity of the spectrum of random polynomials that are orthogonal on the circle and their continual analogues. (Russian. Russian summary) **93d:42030**
Thorisson, Hermann Backward limits and inhomogeneous regeneration. **93c:60134**
Thorp, Edward O. *see* **Rotando, Louis M., 93h:90011**
Uno, Takashi (*with* Negishi, Hiroshi) On the upper bound of the number of positive roots of a random algebraic equation. **93f:26013**
Viswanathan, Ravi *see* **Jeanblanc-Picqué, Monique; et al., 93c:90019**

60Hxx Stochastic analysis [see also 58G32]

Items with secondary classifications in 60Hxx

(Karatzas, Ioannis) *see* **Applied stochastic analysis, 93a:93100**
(Ocone, Daniel L.) *see* **Applied stochastic analysis, 93a:93100**

Items listed otherwise than by author

Applied stochastic analysis ★ Applied stochastic analysis. **93a:93100**
Lecture Notes in Control and Information Sciences ★ Applied stochastic analysis. **93a:93100**
New Brunswick, NJ ★ Applied stochastic analysis. **93a:93100**
Workshop:
Applied Stochastic Analysis ★ Applied stochastic analysis. **93a:93100**

60H05 Stochastic integrals

Al-Hussaini, A. N. The Hida calculus approach to stochastic integration. **93h:60084**
Bedford, Tim (*with* Kamae, Teturo) Stieltjes integration and stochastic calculus with respect to self-affine functions. **93d:60096**
Blei, Ron C. A basic view of stochastic integration. (English summary) **93f:60076**
Bogachev, V. I. Functionals of random processes and related infinite-dimensional oscillatory integrals. (Russian. Russian summary) **93m:60105**
Bojdecki, Tomasz (*with* Jakubowski, Jacek) Stochastic integral with respect to a generalized Wiener process in a conuclear space. (*see* **93d:93009**)
Brooks, James K. (*with* Dinculeanu, N.) Itô's formula for stochastic integration in Banach spaces. **93b:60109**
— (*with* Neal, David) A vector measure approach to the optional stochastic integral. **93m:60106**
Buldygin, V. V. (*with* Mel'nik, V. N.) Lévy-Baxter theorems for stochastic integrals. (Russian. English summary) **93b:60110**
Carlen, Eric A. (*with* Krée, Paul) On sharp L^p estimates for iterated stochastic integrals and some related topics. **93b:60111**
Chou, Ch'ing Sung La formule d'intégration par parties de l'intégration stochastiques non monotones avec paramètre du type Itô. (English summary) [An integration-by-parts formula for Itô-type nonmonotonic stochastic integration with parameter] **93h:60085**
Chow, Pao Liu (*with* Jiang, Jing-Lin) Almost sure convergence of stochastic integrals in Hilbert spaces. (English summary) **93j:60068**
Cohen, Serge Géométrie différentielle stochastique avec sauts. (English summary) [Stochastic differential geometry with jumps] **93a:60078**
Cutland, Nigel J. (*with* Ng, Siu-Ah) On homogeneous chaos. **93a:60079**
— Stochastic differentiation of a Brownian martingale. **93e:60102**
Dettweiler, Egbert Stochastic integration relative to Brownian motion on a general Banach space. (Turkish summary) **93b:60112**
Dinculeanu, N. *see* **Brooks, James K., 93b:60109**
Ding, Deng Stochastic integration for operator-valued processes in duals of Fréchet nuclear spaces and its application. (Chinese. English and Chinese summaries) **93k:60138**
Dorogovtsev, A. A. Stochastic integrals with respect to Gaussian random measures. (Russian) **93g:60116**
Emery, M. Quelques cas de représentation chaotique. [Some cases of chaos representation] **93i:60100**
Enchev, Ognian Stochastic calculus with anticipation and shift transformations of Wiener's measure. (*see* **93b:60006**)
Frangos, Nikos E. (*with* Imkeller, Peter) Adaptedness and existence of occupation densities for stochastic integral processes in the second Wiener chaos. **93b:60113**
— (*with* Nualart, David; Sanz, Marta) On the Itô formula for two-parameter martingales. **93i:60101**
Grorud, A. (*with* Pardoux, Étienne) Intégrales hilbertiennes anticipantes par rapport à un processus de Wiener cylindrique et calcul stochastique associé. (English summary) [Anticipating Hilbert integrals with respect to a cylindrical Wiener process and associated stochastic calculus] **93b:60114**
Hermoso Carazo, A. (*with* Linares Pérez, Josefa) Some properties of the isometric stochastic integral with respect to a Hilbert-valued martingale. **93i:60102**
Imkeller, Peter Occupation densities for stochastic integral processes in the second Wiener chaos. **93e:60103**
— *see also* **Frangos, Nikos E., 93b:60113**
Jakubowski, Jacek *see* **Bojdecki, Tomasz, (93d:93009)**
Jiang, Jing-Lin *see* **Chow, Pao Liu, 93j:60068**
Johnson, Gerald W. (*with* Kallianpur, Gopinath) Multiple Wiener integrals on abstract Wiener spaces and liftings of p-linear forms. **93f:60077**
Kallenberg, Olav Some uses of point processes in multiple stochastic integration. **93a:60080**
Kallianpur, Gopinath *see* **Johnson, Gerald W., 93f:60077**
Kamae, Teturo *see* **Bedford, Tim, 93d:60096**
Karatzas, Ioannis (*with* Ocone, Daniel L.; Li, Jinlu) An extension of Clark's formula. **93f:60078**
Khandekar, Dinkar C. (*with* Streit, Ludwig) Constructing the Feynman integrand. **93a:60081**
Kloeden, P. E. (*with* Platen, Eckhard) Stratonovich and Itô stochastic Taylor expansions. **93a:60082**
— (*with* Platen, Eckhard; Wright, I. W.) The approximation of multiple stochastic integrals. (English summary) **93k:60139**
Kolsrud, Torbjörn Operator integrals and martingale integrals with general parameter. (English summary) (*see* **93e:00033**)
Krée, Paul *see* **Carlen, Eric A., 93b:60111**
Kuo, Hui-Hsiung (*with* Potthoff, Jürgen) Anticipating stochastic integrals and stochastic differential equations. **93f:60079**
Kurtz, Thomas G. (*with* Protter, Philip) Characterizing the weak convergence of stochastic integrals. **93e:60104**
Lebedev, V. A. Stochastic integrals with respect to semimartingale measures and change of the filtration. **93f:60080**
León, Jorge A. Fubini theorem for anticipating stochastic integrals in Hilbert space. (English summary) **93k:60140**
Li, Jinlu *see* **Karatzas, Ioannis; et al., 93f:60078**
Linares Pérez, Josefa *see* **Hermoso Carazo, A., 93i:60102**
Mel'nik, V. N. *see* **Buldygin, V. V., 93b:60110**
Meyer, P.-A. Sur deux estimations d'intégrales multiples. [On two estimates of multiple integrals] **93m:60107**
— Rapport sur les représentations chaotiques. [Report on chaotic representations] (*see* **93e:00033**)
Neal, David *see* **Brooks, James K., 93m:60106**
Ng, Siu-Ah *see* **Cutland, Nigel J., 93a:60079**
Nguyen Minh Duc (*with* Nualart, David; Sanz, Marta) The Doob-Meyer decomposition for anticipating processes. **93a:60083**
Norin, N. V. Extended vector stochastic integral in Sobolev spaces of Wiener functionals. **93h:60086**
— Itô's formula for an extended stochastic integral with randomized time. (Russian) **93e:60105**
Nualart, David *see* **Nguyen Minh Duc; et al., 93a:60083** *and* **Frangos, Nikos E.; et al., 93i:60101**
Ocone, Daniel L. *see* **Karatzas, Ioannis; et al., 93f:60078**
Pardoux, Étienne *see* **Grorud, A., 93b:60114**
Pikovskiĭ, I. E. Stochastic integration of a class of Itô-Volterra kernels. (Ukrainian. Russian and Ukrainian summaries) **93e:60106**
Platen, Eckhard *see* **Kloeden, P. E., 93a:60082** *and* **93k:60139**
Potthoff, Jürgen Stochastic integration in Hida's white noise calculus. **93b:60115**
— *see also* **Kuo, Hui-Hsiung, 93f:60079**
Protter, Philip *see* **Kurtz, Thomas G., 93e:60104**
Rao, Malempati M. Stochastic integration: a unified approach. (French summary) **93c:60079**
Russek, Andrzej On an extension of the stochastic integral. **93i:60103**
Samorodnitsky, Gennady (*with* Taqqu, Murad S.) Construction of multiple stable measures and integrals using LePage representation. **93a:60084**
Sanz, Marta *see* **Nguyen Minh Duc; et al., 93a:60083** *and* **Frangos, Nikos E.; et al., 93i:60101**
Smits, Lieven Moments of certain stochastic integrals occurring in mathematical physics. **93d:60097**
Solé, J. Ll. (*with* Utzet, Frederic) Skorohod and Stratonovich line integrals in the plane. **93c:60080**
Stoica, Gheorghe Itô's formula for pseudo-processes. **93b:60116**
Streit, Ludwig *see* **Khandekar, Dinkar C., 93a:60081**
Szulga, Jerzy Multiple stochastic integrals with respect to symmetric infinitely divisible random measures. **93b:60117**
— Limit distributions of U-statistics resampled by symmetric stable laws. (English summary) **93m:60108**
Taqqu, Murad S. *see* **Samorodnitsky, Gennady, 93a:60084**
Tkeshelashvili, A. S. A stochastic integral with respect to random measures with a smooth distribution. (Russian. English and Georgian summaries)
Ubøe, Jan Riemann integration on complex Brownian paths. **93g:60117**
Utzet, Frederic *see* **Solé, J. Ll., 93c:60080**
Wright, I. W. *see* **Kloeden, P. E.; et al., 93k:60139**
Yan, Jia An Some remarks on the theory of stochastic integration. (English summary) **93k:60141**

Items with secondary classifications in 60H05

Accardi, Luigi (*with* Fagnola, Franco; Quaegebeur, J.) A representation free quantum stochastic calculus. **93e:81061**
Berezanskiĭ, Yu. M. (*with* Zhernakov, N. V.; Us, G. F.) A spectral approach to quantum stochastic integrals. **93b:47142**
Betounes, David (*with* Redfern, Mylan) Differential forms with values in $(L^2)^-$. **93f:60050**
Bhat, B. V. Rajarama (*with* Parthasarathy, Kalyanapuram Rangachari) Generalized harmonic oscillators in quantum probability. **93k:81117**
Chen, Pei De Multi-parameter stochastic processes. **93a:60054**
Chow, Pao Liu Exponential estimates of large deviation type for Itô processes in Hilbert spaces. **93c:60033**

Chung, Dong Myung Conditional Feynman integrals for the Fresnel class of functions on abstract Wiener spaces. **93c:28013**
Davidsen, Michael (*with* Jacobsen, Martin) Weak convergence of two-sided stochastic integrals, with an application to models for left truncated survival data. **93b:60010**
Fagnola, Franco *see* **Accardi, Luigi; et al., 93e:81061**
de Faria, M. (*with* Potthoff, Jürgen; Streit, Ludwig) The Feynman integrand as a Hida distribution. **93f:81068**
Feyel, Denis (*with* de La Pradelle, Arnaud) Sur les processus browniens de dimension infinie. (English and French summaries) [Infinite-dimensional Brownian martingales] **93j:60115**
Gikhman, Il. I. ★ Стохастические уравнения и связанные с ними полулинейные стохастические параболические системы. (Russian) [Stochastic equations and related semilinear stochastic parabolic systems] **93b:60121**
Gushchin, A. A. (*with* Mishura, Yu. S.) Davis inequalities and the Gundy decomposition for two-parameter strong martingales. III. (Russian) **93e:60096**
Halanay, Aristide (*with* Morozan, Toader) Discrete-time stabilizing compensators for continuous-time systems with state dependent noise. **93j:93129**
Hida, Takeyuki Stochastic variational calculus. (*see* **93b:60006**)
Horváth, Lajos Short distances on the line. **93b:60068**
Jacobsen, Martin *see* **Davidsen, Michael, 93b:60010**
Kallenberg, Olav Some time change representations of stable integrals, via predictable transformations of local martingales. **93d:60087**
Kallianpur, Gopinath (*with* Pérez-Abreu, V.) The Skorohod integral and the derivative operator of functionals of a cylindrical Brownian motion. **93g:60119**
Karandikar, Rajeeva L. Multiplicative decomposition of nonsingular matrix valued semimartingales. **93m:60086**
Karatzas, Ioannis *see* **Ocone, Daniel L., 93b:60098**
Kendall, Wilfrid S. A remark on the proof of Itô's formula for C^2 functions of continuous semimartingales. **93b:60096**
Kholevo, A. S. Time-ordered exponentials in quantum stochastic calculus. **93k:81123**
Koning, Alex J. Approximation of stochastic integrals with applications to goodness-of-fit tests. **93d:62090**
Koval'chuk, L. V. Some properties of matrix-valued martingales. (Russian. Russian summary) **93k:60115**
Kozlov, S. M. (*with* Pitman, James W.; Yor, Marc) Brownian interpretations of an elliptic integral. **93f:60123**
Kümmerer, Burkhard (*with* Speicher, Roland) Stochastic integration on the Cuntz algebra O_∞. **93d:46109**
de La Pradelle, Arnaud *see* **Feyel, Denis, 93j:60115**
Lindsay, J. Martin On set convolutions and integral-sum kernel operators. **93c:47087**
— Independence for quantum stochastic integrators. **93f:81063**
McGill, Paul Borel-Cantelli lemmas in continuous time. **93h:60071**
(Meyer, P.-A.) *see* **Errata: "Elements of quantum probabilities. IX. Antisymmetric and 'supersymmetric' calculi in probability theory", 93h:46092**
Mishura, Yu. S. *see* **Gushchin, A. A., 93e:60096**
Morozan, Toader *see* **Halanay, Aristide, 93j:93129**
Nualart, David (*with* Wschebor, Mario) Intégration par parties dans l'espace de Wiener et approximation du temps local. (English summary) [Integration by parts in Wiener space and approximation of the local time] **93a:60086**
Ocone, Daniel L. Anticipating stochastic calculus and applications. **93j:60069**
— (*with* Karatzas, Ioannis) A generalized Clark representation formula, with application to optimal portfolios. **93b:60098**
Oletskii, A. V. A decomposition of a standard Wiener process. (Russian. Russian summary)
Oprea, Ana Gabriela A method of generalising the Itô-Clifford integral. (English and Romanian summaries) **93m:81084**
Ostrovskii, E. I. Exact asymptotics of the density of the distribution of multiple stochastic integrals. (Russian. Russian summary) **93j:60025**
Parthasarathy, Kalyanapuram Rangachari ★ An introduction to quantum stochastic calculus. **93g:81062**
— *see also* **Bhat, B. V. Rajarama, 93k:81117**
Pérez-Abreu, V. *see* **Kallianpur, Gopinath, 93g:60119**
Pitman, James W. *see* **Kozlov, S. M.; et al., 93f:60123**
Potthoff, Jürgen *see* **de Faria, M.; et al., 93f:81068**
Quaegebeur, J. *see* **Accardi, Luigi; et al., 93e:81061**
Redfern, Mylan *see* **Betounes, David, 93f:60050**
Rosenkrantz, Walter A. (*with* Simha, Rahul) Some theorems on conditional PASTA: a stochastic integral approach. (English summary) **93g:60197**
Sainty, Philippe Construction of a complex-valued fractional Brownian motion of order N. (English summary) **93g:60177**
Saitô, Kimiaki Itô's formula and Lévy's Laplacian. II. **93c:60057**
Schröder, Bernd S. W. On generalized maximal functions. **93g:60097**
Simha, Rahul *see* **Rosenkrantz, Walter A., 93g:60197**
Sion, Maurice Stochastic measures and integrals. (*see* **93d:00039**)
— Integration processes. (*see* **93k:00039**)
— Outer measures and stochastic integrals. **93h:28019**
Speicher, Roland *see* **Kümmerer, Burkhard, 93d:46109**
Stoica, Gheorghe Functional LILs for the Ornstein-Uhlenbeck process. (English and French summaries) **93i:60077**
Streit, Ludwig *see* **de Faria, M.; et al., 93f:81068**
Sunada, Toshikazu Homology, Wiener integrals, and integrated densities of states. **93d:58189**
Szyszkowski, Ireneusz Semimartingales and stochastic integrals. (English summary) **93g:60093**
Truman, Aubrey (*with* Williams, David) Excursions and Itô calculus in Nelson's stochastic mechanics. (English summary) **93i:81019**
Us, G. F. *see* **Berezanskii, Yu. M.; et al., 93b:47142**
Williams, David *see* **Truman, Aubrey, 93i:81019**
Williams, Ruth J. Asymptotic variance parameters for the boundary local times of reflected Brownian motion on a compact interval. (English summary) **93h:60127**
Wschebor, Mario *see* **Nualart, David, 93a:60086**
Xue, Xing Xiong Martingale representation for a class of processes with independent increments and its applications. **93g:60095**
Yashin, A. I. An extension of the Cameron-Martin result. (English summary) **93j:60058**
Yor, Marc *see* **Kozlov, S. M.; et al., 93f:60123**
Zabczyk, Jerzy Law equivalence of Ornstein-Uhlenbeck processes. **93j:60053**
Zhao, Zu Sen Modified Zassenhaus formula and Stratonovich stochastic integrals. **93m:81089**
Zhernakov, N. V. *see* **Berezanskii, Yu. M.; et al., 93b:47142**

Items listed otherwise than by author

Errata:
"Elements of quantum probabilities. IX. Antisymmetric and 'supersymmetric' calculi in probability theory" Correction: "Elements of quantum probabilities. IX. Antisymmetric and 'supersymmetric' calculi in probability theory" [in *Séminaire de Probabilités, XXII*, 101–123, Lecture Notes in Math., 1321, Springer, Berlin, 1988; MR 91b:46063] by P.-A. Meyer. (French) **93h:46092**

60H07 Stochastic calculus of variations and the Malliavin calculus

Aida, Shigeki D^∞-cohomology groups and D^∞-maps on submanifolds in Wiener spaces. **93g:60118**
Airault, Hélène (*with* Malliavin, Paul) Integration on loop groups. II. Heat equation for the Wiener measure. **93d:60098**
— Formules de Cameron-Martin-Girsanov-Kusuoka-Buckdahn. Application à l'étude des retractes. (English and French summaries) [Cameron-Martin-Girsanov-Kusuoka-Buckdahn formulas, and the study of retracts] **93m:60109**
Amine, Saïda Loi des grands nombres et théorème de la limite centrale pour les distributions sur l'espace de Wiener. (English and French summaries) [Law of large numbers and central limit theorem for distributions on Wiener space] **93m:60110**
Attal, Stéphane Représentation des endomorphismes de l'espace de Wiener qui préservent les martingales. (English and French summaries) [Representation of martingale-preserving endomorphisms of Wiener space] **93m:60111**
Bogachev, V. I. Analytic functionals of stochastic processes and infinite-dimensional oscillatory integrals. **93b:60118**
— (*with* Röckner, Michael) Les capacités gaussiennes sont portées par des compacts métrisables. (English and French summaries) [Gaussian capacities are supported by metrizable compacts] **93i:60104**
Bouleau, Nicolas (*with* Hirsch, Francis) ★ Dirichlet forms and analysis on Wiener space. **93e:60107**
Carmona, René A. (*with* Nualart, David) Traces of random variables on Wiener space and the Onsager-Machlup functional. **93f:60081**
Chaleyat-Maurel, Mireille (*with* Nualart, David) The Onsager-Machlup functional for a class of anticipating processes. (English summary) **93i:60105**
Coquio, A. (*with* Gravereaux, J.-B.) Calcul de Malliavin et régularité de la densité d'une probabilité invariante d'une chaîne de Markov. (English and French summaries) [The Malliavin calculus and the regularity of the density of an invariant probability of a Markov chain] **93m:60112**
Florchinger, Patrick Existence of a smooth density for the filter in nonlinear filtering on manifolds. (English summary) **93d:60099**
Graczyk, Piotr Malliavin calculus for stable processes on homogeneous groups. **93i:60106**
Gravereaux, J.-B. *see* **Coquio, A., 93m:60112**
Gross, Leonard Loop spaces and logarithmic Sobolev inequalities. **93m:60113**
Hirsch, Francis *see* **Bouleau, Nicolas, 93e:60107**
Huang, Zhi Yuan Stochastic calculus of variation on Gaussian spaces and white noise analysis. **93m:60114**
Itô, Kiyosi Positive generalized functionals on $(\mathbf{R}^\infty, \mathscr{B}^\infty, N^\infty)$. **93e:60108**
— On Malliavin calculus. **93k:60142**
Kallianpur, Gopinath Traces, natural extensions and Feynman distributions. **93k:60143**
— (*with* Pérez-Abreu, V.) The Skorohod integral and the derivative operator of functionals of a cylindrical Brownian motion. **93g:60119**
Kazumi, Tetsuya Refinement in terms of capacities of certain limit theorems on an abstract Wiener space. **93c:60081**
Körezlioğlu, H. (*with* Üstünel, Ali Süleyman) Distributions, Girsanov and degree theorems on Wiener spaces. **93f:60082**
Kusuoka, Shigeo (*with* Stroock, Daniel W.) Precise asymptotics of certain Wiener functionals. **93a:60085**
Léandre, Rémi Développement asymptotique de la densité d'une diffusion dégénérée. [Asymptotic expansion of the density of a degenerate diffusion] **93d:60100**
Malliavin, Paul Smooth σ-fields. **93b:60119**
— *see also* **Malliavin-Brameret, Marie-Paule, 93c:60082** *and* **Airault, Hélène, 93d:60098**
Malliavin-Brameret, Marie-Paule (*with* Malliavin, Paul) La représentation régulière des groupes de lacets. [The regular representation of loop groups] **93c:60082**
Meyer, P.-A. (*with* Yan, Jia An) Les "fonctions caractéristiques" des distributions sur l'espace de Wiener. [The "characteristic functions" of distributions on Wiener space] **93m:60115**
Nualart, David (*with* Pardoux, Étienne) Stochastic differential equations with boundary conditions. **93f:60083**
— (*with* Wschebor, Mario) Intégration par parties dans l'espace de Wiener et approximation du temps local. (English summary) [Integration by parts in Wiener space and approximation of the local time] **93a:60086**
— (*with* Üstünel, Ali Süleyman) Geometric analysis of conditional independence on Wiener space. **93b:60120**
— *see also* **Carmona, René A., 93f:60081** *and* **Chaleyat-Maurel, Mireille, 93i:60105**
Ocone, Daniel L. Anticipating stochastic calculus and applications. **93j:60069**
Pardoux, Étienne *see* **Nualart, David, 93f:60083**
Pérez-Abreu, V. *see* **Kallianpur, Gopinath, 93g:60119**
Privault, Nicolas Calcul chaotique et variationnel pour le processus de Poisson. (English and French summaries) [Chaotic and variational calculus for the Poisson process] **93k:60144**
Röckner, Michael *see* **Bogachev, V. I., 93i:60104**

Sheu, Shuenn Jyi Some estimates of the transition density of a nondegenerate diffusion Markov process. **93a:60087**
Stroock, Daniel W. *see* **Kusuoka, Shigeo, 93a:60085**
Sugita, Hiroshi Various topologies in the Wiener space and Lévy's stochastic area. **93c:60083**
Üstünel, Ali Süleyman Intégrabilité exponentielle de fonctionnelles de Wiener. (English and French summaries) [Exponential integrability of Wiener functionals] **93j:60070**
— (*with* Zakai, Moshe) Transformation of Wiener measure under anticipative flows. **93h:60087**
— *see also* **Nualart, David, 93b:60120** *and* **Körezlioğlu, H., 93f:60082**
Watanabe, Shinzo Donsker's δ-functions in the Malliavin calculus. **93c:60084**
— Disintegration problems in Wiener functional integrations. **93i:60107**
— Some refinement of conditional expectations on Wiener space by means of Malliavin calculus. (*see* **93k:60008**)
Wschebor, Mario *see* **Nualart, David, 93a:60086**
Yan, Jia An *see* **Meyer, P.-A., 93m:60115**
Zakai, Moshe (*with* Zeitouni, Ofer) When does the Ramer formula look like the Girsanov formula? (English summary) **93i:60108**
— *see also* **Üstünel, Ali Süleyman, 93h:60087**
Zeitouni, Ofer *see* **Zakai, Moshe, 93i:60108**
Zimmerman, G. J. Sobolev derivatives and Itô decomposition formula for Gaussian processes using properties of their RKHSs. (English summary) **93k:60145**

Items with secondary classifications in 60H07

Albeverio, Sergio (*with* Fukushima, Masatoshi; Hansen, Wolfhard; Ma, Zhi Ming; Röckner, Michael) An invariance result for capacities on Wiener space. **93f:28013**
Bally, Vlad A stochastic ellipticity assumption. (English summary) **93m:60140**
Ben Arous, Gérard (*with* Léandre, Rémi) Décroissance exponentielle du noyau de la chaleur sur la diagonale. I. (English summary) [Exponential decay of the heat kernel on the diagonal. I] **93b:60136a**
— (*with* Léandre, Rémi) Décroissance exponentielle du noyau de la chaleur sur la diagonale. II. (English summary) [Exponential decay of the heat kernel on the diagonal. II] **93b:60136b**
Bouleau, Nicolas Suite de points d'un espace de Hilbert distribuée selon la promesure gaussienne canonique. (English and French summaries) [Sequence of points in a Hilbert space distributed according to the canonical cylindrical Gaussian measure] **93h:60005**
Chevet, Simone Sur les espaces de Sobolev en dimension infinie. [On infinite-dimensional Sobolev spaces] **93a:46070**
Denis, Laurent Comportement des martingales positives sur l'espace de Wiener vis-à-vis de la capacité. (English summary) [Behavior of nonnegative martingales on Wiener space with respect to capacity] **93b:60095**
Enchev, Ognian Stochastic calculus with anticipation and shift transformations of Wiener's measure. (*see* **93b:60006**)
Fang, Shi Zan (*with* Ren, Jia Gang) Quelques propriétés des fonctions holomorphes sur un espace de Wiener complexe. (English and French summaries) [Some fundamental properties of holomorphic functions defined on a complex Wiener space] **93h:46052**
— Analyse quasi-sure et l'estimation du noyau de la chaleur pour temps petit. (English summary) [Quasisure analysis and estimation of the heat kernel in small time] **93k:60161**
Feyel, Denis (*with* de La Pradelle, Arnaud) Capacités gaussiennes. (English summary) [Gaussian capacities] **93b:60174**
— (*with* de La Pradelle, Arnaud) Démonstration géométrique d'une loi de tout ou rien. (English and French summaries) [A geometric proof of a zero-one law] **93k:31009**
Frangos, Nikos E. (*with* Imkeller, Peter) Adaptedness and existence of occupation densities for stochastic integral processes in the second Wiener chaos. **93b:60113**
Fukushima, Masatoshi *see* **Albeverio, Sergio; et al., 93f:28013**
Grorud, A. (*with* Pardoux, Étienne) Intégrales hilbertiennes anticipantes par rapport à un processus de Wiener cylindrique et calcul stochastique associé. (English summary) [Anticipating Hilbert integrals with respect to a cylindrical Wiener process and associated stochastic calculus] **93b:60114**
Gross, Leonard Logarithmic Sobolev inequalities for the heat kernel on a Lie group. **93f:58249**
Hansen, Wolfhard *see* **Albeverio, Sergio; et al., 93f:28013**
Hiraba, Seiji Existence and smoothness of transition density for jump-type Markov processes: applications of Malliavin calculus. **93f:60125**
Imkeller, Peter *see* **Frangos, Nikos E., 93b:60113**
Karatzas, Ioannis (*with* Ocone, Daniel L.; Li, Jinlu) An extension of Clark's formula. **93f:60078**
Kusuoka, Shigeo de Rham cohomology of Wiener-Riemannian manifolds. **93e:58198**
— Analysis on Wiener spaces. I. Nonlinear maps. **93a:58176**
— Analysis on Wiener spaces. II. Differential forms. **93c:58230**
de La Pradelle, Arnaud *see* **Feyel, Denis, 93b:60174** *and* **93k:31009**
Léandre, Rémi *see* **Ben Arous, Gérard, 93b:60136a** *and* **93b:60136b**
Li, Jinlu *see* **Karatzas, Ioannis; et al., 93f:60078**
Ma, Zhi Ming *see* **Albeverio, Sergio; et al., 93f:28013**
Malliavin, Paul Naturality of quasi-invariance of some measures. **93g:58161**
Messaoudi, K. (*with* Michaille, G.) Stochastic homogenization of nonconvex integral functionals. Duality in the convex case. **93e:49021**
Michaille, G. *see* **Messaoudi, K., 93e:49021**
Nishimura, Takashi Exterior product bundle over complex abstract Wiener space. **93f:58251**
Norin, N. V. Extended vector stochastic integral in Sobolev spaces of Wiener functionals. **93h:60086**
Ocone, Daniel L. *see* **Karatzas, Ioannis; et al., 93f:60078**
Pardoux, Étienne *see* **Grorud, A., 93b:60114**
Ren, Jia Gang *see* **Fang, Shi Zan, 93h:46052**
Röckner, Michael (*with* Schmuland, Byron) Tightness of general $C_{1,p}$ capacities on Banach space. **93g:28011**
— *see also* **Albeverio, Sergio; et al., 93f:28013**
Rudowicz, Rafał Admissible translations of the Brownian motion on a Lie group. (English summary) **93j:60052**
Russek, Andrzej On an extension of the stochastic integral. **93i:60103**
Schmuland, Byron *see* **Röckner, Michael, 93g:28011**
Yokoi, Yoshitaka Positive generalized Brownian functionals. **93f:60052**
Yoshida, Nakahiro Asymptotic expansions of maximum likelihood estimators for small diffusions via the theory of Malliavin-Watanabe. **93k:62032**

60H10 Stochastic ordinary differential equations [see also 34F05]

Ahmed, N. U. Semilinear and quasilinear stochastic differential equations in Banach spaces. (English summary) **93g:60120**
Alchekov, A. K. Stability of impulse action in an asymptotic phase consolidation scheme. (Russian. Russian summary) (*see* **93e:60002**)
Arnold, Ludwig (*with* Crauel, Hans) Random dynamical systems. **93m:60116**
Betounes, David Generalized stochastic differential equations on ($\mathscr{D}^*$). **93h:60088**
Bondarev, B. V. Averaging in periodic environments with weakly dependent random actions. I. (Russian) **93d:60101**
Buckdahn, Rainer Anticipating linear stochastic differential equations. (English summary) **93f:60084**
Chen, Xiong The path uniqueness of the solution of the two-parameter Poisson type stochatsic differential equation.
Chojnowska-Michalik, Anna Periodic linear equations with general additive noise in Hilbert spaces. (*see* **93d:93009**)
— Periodic distributions for linear equations with general additive noise. (English summary) **93i:60109**
Colonius, Fritz (*with* Kliemann, Wolfgang) Remarks on ergodic theory of stochastic flows and control flows. (English summary) **93i:60110**
Costantini, Cristina The Skorohod oblique reflection problem in domains with corners and application to stochastic differential equations. **93e:60109**
Crauel, Hans *see* **Arnold, Ludwig, 93m:60116**
Darling, R. W. R. Isotropic stochastic flows: a survey. **93h:60089**
Day, Martin V. Conditional exits for small noise diffusions with characteristic boundary. (English summary) **93j:60071**
Demenin, A. N. A stochastic boundary value problem for a second-order differential equation with random perturbations. (Russian. Russian summary) **93j:60072**
Denis, Laurent Analyse quasi-sûre de l'approximation d'Euler et du flot d'une E.D.S. (English and French summaries) [Quasisure analysis for Euler approximation and flow related to an SDE] **93f:60085**
Denisova, I. Yu. On the stability of the invariant set of a system of stochastic differential equations. (Ukrainian. Russian and Ukrainian summaries) **93j:60073**
— Attainability and stability of the invariant set of a system of stochastic differential equations. (Russian. Russian and Ukrainian summaries) **93g:60121**
Dorogovtsev, A. Ya. Stationary and periodic solutions of stochastic difference and differential equations in Banach space. (English summary) **93m:60117**
Dubko, V. A. ★ Вопросы теории и применения стохастических дифференциальных уравнений. (Russian. Russian summary) [Problems in the theory and application of stochastic differential equations] **93f:60086**
Dupuis, Paul (*with* Ishii, Hitoshi) On Lipschitz continuity of the solution mapping to the Skorokhod problem, with applications. **93e:60110**
Feng, Jian Feng (*with* Lei, Gong Yan; Qian, Min Ping) Second-order methods for solving stochastic differential equations. (English summary) **93j:60074**
Feng, Xiangbo (*with* Loparo, Kenneth A.) A nonrandom spectrum theorem for products of random matrices and linear stochastic systems. **93f:60087**
— *see also* **Loparo, Kenneth A., 93m:60120**
Fernique, Xavier À propos d'un exemple d'équation différentielle stochastique en dimension infinie. [On an example of an infinite-dimensional stochastic differential equation] (*see* **93b:60006**)
Flandoli, Franco Stochastic evolution equations with noncoercive monotone operators. **93j:60075**
Gikhman, Il. I. ★ Стохастические уравнения и связанные с ними полулинейные стохастические параболические системы. (Russian) [Stochastic equations and related semilinear stochastic parabolic systems] **93b:60121**
Golec, J. (*with* Ladde, G. S.) On an approximation method for a class of stochastic singularly perturbed systems. (English summary) **93j:60076**
Golets, O. B. (*with* Rogol, S. L.) Investigation of stability of linear differential equations with small parameter and Markov coefficients. (English and Latvian summaries) (*see* **93e:60006**)
— *see also* **Jonin, L., (93e:60006**)
Han, M. C. Perturbation analysis of a quasi-diffusion type integral equation and its application on a fault tolerant manufacturing system. (English summary) (*see* **93k:00029**)
Ishii, Hitoshi *see* **Dupuis, Paul, 93e:60110**
Janicki, Aleksander Computer simulation and visualization of linear stochastic differential equations. (*see* **93a:60004**)
Janković, Sv. On stochastic differential-difference equations and their random integral contractors. (English, Russian and Latvian summaries) **93j:60077**
Jona-Lasinio, G. Large deviations for weak solutions of stochastic differential equations. (English summary) (*see* **93e:00033**)
Jonin, L. (*with* Golets, O. B.) The second Lyapunov method as applied to the stability investigation of nonlinear stochastic equation of the same class. (English and Latvian summaries) (*see* **93e:60006**)
Karandikar, Rajeeva L. On almost sure convergence of modified Euler-Peano approximation of solution to an S.D.E. driven by a semimartingale. **93j:60078**
Katzenberger, G. S. Solutions of a stochastic differential equation forced onto a manifold by a large drift. **93d:60102**
Kawabata, Shigetoku (*with* Yamada, Toshio) On Newton's method for stochastic differential equations. **93j:60079**
Khusainov, D. Ya. *see* **Nechaeva, I. G., 93j:60080**
Kifer, Yuri Averaging in dynamical systems and large deviations. (English summary) **93m:60118**
Kliemann, Wolfgang *see* **Colonius, Fritz, 93i:60110**

Kloeden, P. E. (*with* Platen, Eckhard) Higher-order implicit strong numerical schemes for stochastic differential equations. **93e:60111**

Kolesnik, A. D. (*with* Plotkin, D. Ya.) A transformation of Markovian random evolution equations. (Russian. Russian summary) (*see* **93e:60002**)

Korenevskiĭ, D. G. Equivalence of spectral and coefficient criteria for the mean-square asymptotic stability of solutions of linear stochastic differential and difference equations. (Russian. Russian summary) (*see* **93m:00027**)

Kotelenez, Peter Low and high density reaction-diffusion models. (English summary) **93e:60112**

Kotulski, Zbigniew Equations for the characteristic functional and moments of the complex stochastic evolutions—motivation and results. (*see* **93d:93009**)

Krylov, N. V. On the first quasiderivatives of solutions of Itô stochastic equations. (Russian. Russian summary) **93m:60119**

Kuo, Hui-Hsiung (*with* Potthoff, Jürgen) Anticipating stochastic differential equations. **93d:60103**

Ladde, G. S. Modeling of dynamic systems by Itô-type systems of stochastic differential equations. (English summary) **93g:60122**

— *see also* **Golec, J., 93j:60076**

Lei, Gong Yan *see* **Feng, Jian Feng; et al., 93j:60074**

Lépingle, Dominique Un schéma d'Euler pour équations différentielles stochastiques réfléchies. (English and French summaries) [An Euler scheme for stochastic differential equations with reflecting boundary conditions] **93k:60146**

Loparo, Kenneth A. (*with* Feng, Xiangbo) Lyapunov exponent and rotation number of two-dimensional linear stochastic systems with telegraphic noise. (English summary) **93m:60120**

— *see also* **Feng, Xiangbo, 93f:60087**

Mao, Xuerong Approximate solutions for a class of stochastic evolution equations with variable delays. **93k:60147**

— A note on comparison theorems for stochastic differential equations with respect to semimartingales. **93c:60085**

— (*with* Markus, Lawrence) Energy bounds for nonlinear dissipative stochastic differential equations with respect to semimartingales. **93f:60088**

— Almost sure polynomial stability for a class of stochastic differential equations. **93g:60123**

— Polynomial stability for perturbed stochastic differential equations with respect to semimartingales. **93f:60089**

Markus, Lawrence *see* **Mao, Xuerong, 93f:60088**

Marnevskaya, L. A. (*with* Yanovich, L. A.) Determination of the probability characteristics of the solution of a linear Itô stochastic equation. (Russian. English and Russian summaries)

Masuda, Takao Certain invariant sets of stochastic flows generated by stochastic differential equations. **93i:60111**

Mel'nikov, A. I. Integral manifolds of nonlinear singularly perturbed systems with random parameters. (Russian. Russian summary) (*see* **93m:60009**)

Mémin, Jean (*with* Słomiński, Leszek) Condition UT et stabilité en loi des solutions d'équations différentielles stochastiques. [Condition UT and stability in law of solutions of stochastic differential equations] **93m:60121**

Meyer, P.-A. Sur la méthode de L. Schwartz pour les é.d.s. [On the method of L. Schwartz for SDEs] **93g:60124**

Mikulevičius, Remigius (*with* Platen, Eckhard) Rate of convergence of the Euler approximation for diffusion processes. **93b:60122**

Milian, Anna On one-dimensional diffusion processes living in a bounded space interval. (English summary) **93k:60148**

Millet, Annie (*with* Nualart, David; Sanz, Marta) Large deviations for a class of anticipating stochastic differential equations. (English summary) **93i:60112**

Mohammed, Salah Eldin A. Lyapunov exponents and stochastic flows of linear and affine hereditary systems. **93k:60149**

Morimoto, Hiroaki Attractors of probability measures for semilinear stochastic evolution equations. **93e:60113**

Moshchuk, N. K. (*with* Sinitsyn, I. N.) On stationary distributions in nonlinear stochastic differential systems. **93c:60086**

Murge, M. G. (*with* Pachpatte, B. G.) On averaging method for second order Itô type stochastic equations. **93c:60087**

Narita, Kiyomasa Asymptotic behavior of solutions of SDE for relaxation oscillations. (English summary) **93m:60122**

Nechaeva, I. G. (*with* Khusainov, D. Ya.) Stability under constantly acting perturbations of linear stochastic systems with delay. (Russian. Russian summary) **93j:60080**

Nualart, David (*with* Pardoux, Étienne) Second order stochastic differential equations with Dirichlet boundary conditions. **93b:60123**

— *see also* **Millet, Annie; et al., 93i:60112**

Ouknine, Youssef Remarques sur l'équation $dX_t = \sigma(X_t)dB_t$. (French summary) [Remarks about the equation $dX_t = \sigma(X_t)dB_t$] **93g:60125**

— Remarque sur l'unicité trajectorielle des E.D.S. [Remarks about the pathwise uniqueness of SDEs] **93i:60113**

Pachpatte, B. G. *see* **Murge, M. G., 93c:60087**

Pardoux, Étienne (*with* Wihstutz, Volker) Lyapounov exponent of linear stochastic systems with large diffusion term. **93e:60114**

— *see also* **Nualart, David, 93b:60123**

Pettersson, Roger Stratonovich-Taylor expansion and numerical methods. (English summary) **93k:60150**

Pinsky, Mark A. (*with* Wihstutz, Volker) Lyapunov exponents and rotation numbers of linear systems with real noise. **93m:60123**

Platen, Eckhard *see* **Mikulevičius, Remigius, 93b:60122** *and* **Kloeden, P. E., 93e:60111**

Plotkin, D. Ya. *see* **Kolesnik, A. D., (93c:60002)**

Potthoff, Jürgen *see* **Kuo, Hui-Hsiung, 93d:60103**

Qian, Min Ping *see* **Feng, Jian Feng; et al., 93j:60074**

Ren, Jia Gang Explicit solutions for stochastic linear evolution equations in Hilbert spaces. (English and Chinese summaries) **93m:60124**

Rodkina, A. E. On solutions of stochastic equations with almost surely periodic trajectories. (Russian. Russian summary)

Rogers, Alice Stochastic calculus in superspace. I. Supersymmetric Hamiltonians. **93b:60124**

Rogol, S. L. *see* **Golets, O. B., (93e:60006)**

Rozkosz, Andrzej (*with* Słomiński, Leszek) On limit points of a sequence of weak solutions of one-dimensional stochastic differential equations. (*see* **93d:93009**)

Saisho, Yasumasa On the equation describing the random motion of mutually reflecting molecules. **93b:60125**

Sanz, Marta *see* **Millet, Annie; et al., 93i:60112**

Sinitsyn, I. N. *see* **Moshchuk, N. K., 93c:60086**

Słomiński, Leszek *see* **Mémin, Jean, 93m:60121** *and* **Rozkosz, Andrzej, (93d:93009)**

Sobczyk, Jarosław On explosion of one-dimensional process under additive noise. **93f:60090**

Sobczyk, Kazimierz ★ Stochastic differential equations. **93f:60091**

Sri Namachchivaya, N. (*with* Van Roessel, H. J.) Maximal Lyapunov exponent and rotation numbers for two coupled oscillators driven by real noise. (English summary) **93m:60125**

Sundar, P. Time reversal of solutions of equations driven by Lévy processes. (English summary) **93j:60081**

Svishchuk, A. V. Uniqueness of the solution of a martingale problem for semi-Markov random evolutions. (Russian. Russian summary) (*see* **93e:60002**)

Thieullen, Michèle Temps d'explosion d'équations différentielles stochastiques du type Doléans-Dade. (English summary) [Blow-up time of stochastic differential equations of Doléans-Dade type] **93a:60088**

Török, Csaba A note on the Runge-Kutta method for stochastic differential equations. **93c:60088**

Tsar'kov, E. F. Averaging and stability of linear differential equations with Markov coefficients. (English and Latvian summaries) (*see* **93e:60006**)

— On stability of differential equations with diffusion coefficients. (English and Latvian summaries) (*see* **93e:60006**)

— On exponential stability of linear oscillator with Markov coefficients. (English and Latvian summaries) (*see* **93e:60006**)

Tudor, Constantin Stochastic equations and connections. (Romanian. English and Romanian summaries) **93i:60114**

Twardowska, Krystyna An extension of the Wong-Zakai theorem for stochastic evolution equations in Hilbert spaces. (English summary) **93g:60126**

Van Roessel, H. J. *see* **Sri Namachchivaya, N., 93m:60125**

Veretennikov, A. Yu. On large deviations in averaging principle for stochastic differential equations with periodic coefficients. I. **93e:60115a**

— On large deviations in the averaging principle for stochastic differential equations with periodic coefficients. II. (Russian) **93e:60115b**

— Large deviations for systems of Itô stochastic equations. (Russian) **93c:60089**

Wihstutz, Volker *see* **Pardoux, Étienne, 93e:60114** *and* **Pinsky, Mark A., 93m:60123**

Yamada, Toshio *see* **Kawabata, Shigetoku, 93j:60079**

Yanovich, L. A. *see* **Marnevskaya, L. A.**

Yor, Marc Tsirel'son's equation in discrete time. **93d:60104**

Zanzotto, Pio Andrea An extension of a K. Yamada's theorem to equations "with memory". (Russian and Lithuanian summaries) **93f:60092**

— Letter to editors: "An extension of a K. Yamada's theorem to equations 'with memory'" [Litovsk. Mat. Sb. **31** (1991), no. 2, 282–301; MR 93f:60092]. **93m:60126**

Items with secondary classifications in 60H10

Aebi, Robert Itô's formula for nonsmooth functions. (English summary) **93k:60198**

Aihara, Shin'ichi (*with* Bagchi, Arunabha) Maximum likelihood estimator for two-point boundary value process. (English summary) **93j:93147**

Anisimov, Vladimir Vladislavovich The averaging principle for switching processes. (Ukrainian. Russian and Ukrainian summaries) **93k:60219**

Arnold, Ludwig (*with* Boxler, Petra) Stochastic bifurcation: instructive examples in dimension one. (English summary) **93i:58094**

Azimov, R. K. Stochastic stability of linear singularly perturbed systems. (Russian. English summary) **93d:34099**

Bagchi, Arunabha *see* **Aihara, Shin'ichi, 93j:93147**

Bassan, Bruno (*with* Çinlar, Erhan; Scarsini, Marco) Stochastic comparisons of Itô processes. (English summary) **93m:60161**

Baxendale, Peter H. Stability and equilibrium properties of stochastic flows of diffeomorphisms. **93h:58167**

Bedeaux, D. *see* **Mazur, Peter, 93i:82055**

Bobrik, R. V. Mean-square stability for a harmonic oscillator with a random parameter. (Ukrainian. Russian and Ukrainian summaries) **93k:34129**

Bobrovsky, Ben-Zion (*with* Zeitouni, Ofer) Some results on the problem of exit from a domain. **93c:60115**

Bobrowski, Dobiesław Linear boundary value problem in Banach space with random element in two-point boundary condition. (English summary) **93i:34100**

Borisenko, O. V. Small random disturbances in second-order oscillatory systems. (Russian. Russian and Ukrainian summaries) **93h:34095**

Boxler, Petra *see* **Arnold, Ludwig, 93i:58094**

Chaleyat-Maurel, Mireille (*with* Nualart, David) The Onsager-Machlup functional for a class of anticipating processes. (English summary) **93i:60105**

Chan, Terence Indefinite quadratic functionals of Gaussian processes and least-action paths. (French summary) **93d:60063**

— The Wigner semi-circle law and eigenvalues of matrix-valued diffusions. (English summary) **93i:15032**

Chistyakov, Aleksandr Vladimirovich Spectral properties of operators of inner superposition that are generated by stochastic systems. (Russian. Russian summary) **93j:47043**

Chow, Pao Liu Exponential estimates of large deviation type for Itô processes in Hilbert spaces. **93c:60033**

Çinlar, Erhan *see* **Bassan, Bruno; et al., 93m:60161**

Cogburn, R. (*with* Ellison, J. A.) A stochastic theory of adiabatic invariance. (English summary) **93j:34083**

Costantini, Cristina Diffusion approximation for a class of transport processes with physical reflection boundary conditions. **93b:82072**

Crauel, Hans Markov measures for random dynamical systems. **93c:60096**

Da Prato, Giuseppe (*with* Gątarek, Dariusz; Zabczyk, Jerzy) Invariant measures for semilinear stochastic equations. **93g:60130**
Dehen, Danièle *see* **Mastrangelo, Michèle, 93g:60175**
Dettweiler, Egbert The martingale problem on Banach spaces. **93e:60088**
Ding, Deng Stochastic integration for operator-valued processes in duals of Fréchet nuclear spaces and its application. (Chinese. English and Chinese summaries) **93k:60138**
Doss, Halim (*with* Stroock, Daniel W.) Nouveaux résultats concernant les petites perturbations de systèmes dynamiques. (English summary) [New results concerning small perturbations of dynamical systems] **93i:60148**
Drummond, I. T. Multiplicative stochastic differential equations with noise-induced transitions. **93d:82061**
Dubko, V. A. Limit theorems on the transition to a diffusion description of slow constituent solutions of Itô equations. (Russian) **93c:60116**
Ellison, J. A. *see* **Cogburn, R., 93j:34083**
Elworthy, K. D. Stochastic flows on Riemannian manifolds. **93i:58166**
Feng, Zhao Shu (*with* Liu, Yong Qing; Guo, Feng Wei) Criteria for practical stability in the *p*th mean of nonlinear stochastic systems. **93f:34130**
Fujiwara, Tsukasa (*with* Kunita, Hiroshi) Limit theorems for stochastic difference-differential equations. **93m:60132**
Gątarek, Dariusz *see* **Da Prato, Giuseppe; et al., 93g:60130**
Geletukha, V. V. *see* **Mikhalochkin, N. A.**
Giuliano Antonini, Rita Sur le comportement asymptotique du processus de Ornstein-Uhlenbeck multidimensionnel. [Asymptotic behavior of the multidimensional Ornstein-Uhlenbeck process] **93h:60047**
Goldys, Beniamin On weak solutions of stochastic evolution equations with unbounded coefficients. **93k:60154**
Golec, J. (*with* Ladde, G. S.) On multitime method and the rate of convergence for a class of singularly perturbed stochastic systems. **93d:34101**
Guo, Feng Wei *see* **Feng, Zhao Shu; et al., 93f:34130**
He, Xiang Min The Markov properties of two-parameter Feller processes and solutions to stochastic differential equations. (Chinese. English summary) **93g:60157**
Inoue, Akihiko *see* **Okabe, Yasunori, 93m:60072**
Kawasaki, Harumi *see* **Shibata, Fumiaki; et al., 93k:82057**
Kharrasov, M. Kh. Asymptotic behavior of solutions of the Fokker-Planck equation as $t \to \infty$. (Russian) **93i:34102**
Kholevo, A. S. An analog of the Itô decomposition for multiplicative processes with values in a Lie group. (English summary) **93i:60016**
Kirichuk, P. A. Periodic solutions of second-order differential equations in a Banach space perturbed by random processes. (Russian. Russian summary) **93f:34094**
Kovtun, I. I. Determination of the moments of differential equations with random coefficients. (Russian. Russian summary) **93f:34091**
Kunita, Hiroshi *see* **Fujiwara, Tsukasa, 93m:60132**
Kuo, Hui-Hsiung (*with* Potthoff, Jürgen) Anticipating stochastic integrals and stochastic differential equations. **93f:60079**
Kushner, Harold J. *see* **Yang, Jichuan, 93d:93093**
Ladde, G. S. *see* **Golec, J., 93d:34101**
Liao, Ming The asymptotic behaviour of the canonical stochastic flow on a symmetric space. (English summary) **93f:58250**
Lindstrøm, Tom (*with* Øksendal, Bernt; Ubøe, Jan) Stochastic differential equations involving positive noise. **93f:60051**
Liptser, R. Sh. (*with* Lototskii, S. V.) Diffusion approximation and robust Kalman filter. **93b:93109**
Liu, Yong Qing *see* **Feng, Zhao Shu; et al., 93f:34130**
Longuski, James M. *see* **Ostoja-Starzewski, Martin, 93i:70028**
Lototskii, S. V. *see* **Liptser, R. Sh., 93b:93109**
Ma, Ilong Optimal relaxed control for stochastic differential equations in infinite-dimensional space. (English and Chinese summaries) **93i:93129**
Mao, Xuerong Lyapunov functions and almost sure exponential stability. **93j:93150**
— Exponential stability of large-scale stochastic differential equations. **93g:34086**
Mastrangelo, Michèle (*with* Dehen, Danièle) Opérateurs différentiels paraboliques à coefficients continus par morceaux et admettant un drift généralisé. (English summary) [Parabolic differential operators with piecewise continuous coefficients and a generalized drift] **93g:60175**
Mazur, Peter (*with* Bedeaux, D.) Erratum: "Causality, time-reversal invariance and the Langevin equation" [Phys. A **173** (1991), no. 1-2, 155–174; MR 92g:82083]. **93i:82055**
Mikhalochkin, N. A. (*with* Geletukha, V. V.) The dispersion matrix of a multidimensional random process of a stochastic differential system. (Russian)
Milian, Anna Transition probability density of a certain diffusion process concentrated on a finite spatial interval. **93g:60166**
Mishchenko, A. S. Stationary solutions of nonlinear stochastic equations. (Russian) **93a:34070**
Mishura, Yu. S. Stochastic differential equations in the plane that contain strong semi-martingales. (Russian) **93m:60135**
Morozan, Toader Affine stochastic differential equations with almost periodic coefficients. **93a:34071**
Mykland, Per Aslak Asymptotic expansions and bootstrapping distributions for dependent variables: a martingale approach. **93e:62050**
Nguyễn Hữ'u Du' (*with* Trần Vân Nhung) Relations between the sample and moment Lyapunov exponents. **93b:93112**
Nguyễn Văn Minh *see* **Zabreiko, P. P., 93i:34104**
Noda, Akio Lévy's Brownian motion and stochastic variational equation. **93h:60126**
Nualart, David (*with* Pardoux, Étienne) Stochastic differential equations with boundary conditions. **93f:60083**
— *see also* **Chaleyat-Maurel, Mireille, 93i:60105**
Okabe, Yasunori (*with* Inoue, Akihiko) On the exponential decay of the correlation functions for KMO-Langevin equations. **93m:60072**
Øksendal, Bernt *see* **Lindstrøm, Tom; et al., 93f:60051**
Ostoja-Starzewski, Martin (*with* Longuski, James M.) Stochastic Hill's equations for the study of errant rocket burns in orbit. (English summary) **93i:70028**
Pardoux, Étienne *see* **Nualart, David, 93f:60083**
Pavon, Michele On Lyapunov functionals, and stochastic variational principles in nonequilibrium thermodynamics. (English summary) **93k:82051**
Peng, Shi Ge A nonlinear Feynman-Kac formula and applications. **93g:60134**
Peszat, Szymon Equivalence of distributions of some Ornstein-Uhlenbeck processes taking values in Hilbert space. (English summary) **93m:60080**
Potthoff, Jürgen *see* **Kuo, Hui-Hsiung, 93f:60079**
Riganti, R. *see* **Zavattaro, M. G., 93k:34132**
Rogers, Alice Stochastic calculus in superspace. II. Differential forms, supermanifolds and the Atiyah-Singer index theorem. (English summary) **93k:58235**
Sapegin, I. L. Boundary properties of Wiener fields. (Russian)
Scarsini, Marco *see* **Bassan, Bruno; et al., 93m:60161**
vom Scheidt, Jürgen (*with* Wöhrl, U.; Wulff, S.) A method for the numerical treatment of nonlinear stochastic vibrations of vehicles.
Shibata, Fumiaki (*with* Kawasaki, Harumi; Watabe, Miki) Path integral theory of Brownian motion. (English summary) **93k:82057**
Singer, Hermann The aliasing-phenomenon in visual terms. (English summary)
Situ, Rong Reflecting stochastic differential equations with jumps and stochastic population control. **93h:34097**
Sobczyk, Kazimierz (*with* Spencer, Billie F., Jr.) ★ Random fatigue. **93c:73084**
Spencer, Billie F., Jr. *see* **Sobczyk, Kazimierz, 93c:73084**
Stroock, Daniel W. *see* **Doss, Halim, 93i:60148**
Taksar, Michael I. Skorohod problems with nonsmooth boundary conditions. **93g:60168**
Trần Vân Nhung *see* **Nguyễn Hữ'u Du', 93b:93112**
Trofimov, E. I. A new look on semimartingale distributions with several examples. **93c:60066**
Ubøe, Jan *see* **Lindstrøm, Tom; et al., 93f:60051**
Vârsan, Constantin Asymptotic almost periodic solutions for stochastic differential equations. (*see* **93d:93009**)
Vorotnikov, V. I. ★ Устойчивость динамических систем по отношению к части переменных. (Russian) [Stability of dynamical systems with respect to some of the variables] **93e:34001**
Watabe, Miki *see* **Shibata, Fumiaki; et al., 93k:82057**
Weba, Michael Simulation and approximation of stochastic processes by spline functions. (English summary) **93f:60075**
Wöhrl, U. *see* **vom Scheidt, Jürgen; et al.**
Wulff, S. *see* **vom Scheidt, Jürgen; et al.**
Yang, Jichuan (*with* Kushner, Harold J.) A Monte Carlo method for sensitivity analysis and parametric optimization of nonlinear stochastic systems. **93d:93093**
Zabczyk, Jerzy On large deviations for stochastic evolution equations. (*see* **93d:93009**)
— *see also* **Da Prato, Giuseppe; et al., 93g:60130**
Zabreiko, P. P. (*with* Nguyễn Văn Minh) Stochastic perturbation of exponentially dichotomous linear systems of ordinary differential equations. (Russian. English and Russian summaries) **93i:34104**
Zavattaro, M. G. (*with* Riganti, R.) Statistics of the solution of singularly perturbed systems with random initial conditions. (English summary) **93k:34132**
Zeitouni, Ofer *see* **Bobrovsky, Ben-Zion, 93c:60115**

60H15 Stochastic partial differential equations [see also 35R60]

Ahmed, N. U. An existence theorem for stochastic nonlinear evolution equations on Banach space. (English summary) **93m:60127**
Albeverio, Sergio Mathematical physics and stochastic analysis. (English summary) **93m:60128**
Bensoussan, Alain A model of stochastic differential equation in Hilbert spaces applicable to Navier Stokes equation in dimension 2. **93b:60126**
— Splitting up method in the context of stochastic PDE. (*see* **93b:60006**)
Bojdecki, Tomasz (*with* Jakubowski, Jacek) The Girsanov theorem and weak solutions of stochastic differential equations in the dual of a nuclear space. **93b:60127**
Bondarev, B. V. Averaging in periodic environments with weakly dependent random influences. (Ukrainian. Russian and Ukrainian summaries) **93k:60151**
Brzeźniak, Zdzisław (*with* Capiński, Marek; Flandoli, Franco) Approximation of white noise in stochastic partial differential equations. **93b:60128**
Buckdahn, Rainer Linear Skorohod stochastic differential equations. **93b:60129**
— ★ Anticipative Girsanov transformations and Skorohod stochastic differential equations. **93g:60127**
— Skorohod stochastic differential equations of diffusion type. (English summary) **93g:60128**
Bulinskii, A. V. (*with* Molchanov, S. A.) Asymptotic Gaussian property of the solution of the Burgers equation with random initial data. (Russian) **93c:60090**
Burstein, G. *see* **Davis, M. H. A., 93h:60090**
Capiński, Marek *see* **Brzeźniak, Zdzisław; et al., 93b:60128**
Caraballo Garrido, Tomás Existence and uniqueness of solutions for nonlinear stochastic partial differential equations. (English summary) **93m:60129**
— Nonlinear stochastic partial differential equations with delays: existence and uniqueness of solutions. **93k:60152**
Chow, Pao Liu (*with* Jiang, Jing-Lin) Almost sure convergence of some approximate solutions for random parabolic equations. (English summary) **93j:60082**
Da Prato, Giuseppe (*with* Zabczyk, Jerzy) On invariant measure for semilinear equations with dissipative nonlinearities. (*see* **93b:60006**)
— (*with* Tubaro, L.) Some results on periodic measures for differential stochastic equations with additive noise. **93k:60153**
— (*with* Zabczyk, Jerzy) Nonexplosion, boundedness, and ergodicity for stochastic semilinear equations. **93g:60129**
— (*with* Zabczyk, Jerzy) A note on stochastic convolution. **93e:60116**
— (*with* Gątarek, Dariusz; Zabczyk, Jerzy) Invariant measures for semilinear stochastic equations. **93g:60130**
Davis, M. H. A. (*with* Burstein, G.) Random conservation laws and global solutions of nonlinear SPDE—application to the HJB SPDE of anticipative control. (English summary) **93h:60090**

Dokuchaev, N. G. Boundary value problems for functionals of Itô processes. (Russian) **93e:60117**
Flandoli, Franco (*with* Schaumlöffel, Kay-Uwe) Stochastic parabolic equations in bounded domains: random evolution operator and Lyapunov exponents. **93f:60093**
— Stochastic flow and Lyapunov exponents for abstract stochastic PDEs of parabolic type. **93j:60083**
— *see also* **Brzeźniak, Zdzisław; et al., 93b:60128**
Funaki, Tadahisa Hydrodynamic limit for Ginzburg-Landau type continuum model. **93f:60094**
— The reversible measures of multi-dimensional Ginzburg-Landau type continuum model. **93d:60105**
— Regularity properties for stochastic partial differential equations of parabolic type. **93e:60118**
Gątarek, Dariusz *see* **Da Prato, Giuseppe; et al., 93g:60130**
Gołdys, Beniamin On weak solutions of stochastic evolution equations with unbounded coefficients. **93k:60154**
Grytczuk, Krystyna (*with* Rotkiewicz, Emilia) Random differential inclusions with convex right hand sides. **93a:60089**
Gyöngy, István On stochastic partial differential equations. Results on approximations. **93c:60091**
Hu, Ying (*with* Peng, Shi Ge) Adapted solution of a backward semilinear stochastic evolution equation. **93b:60130**
Ishikawa, Masaaki On stochastic partial differential equations with subdifferential. (English summary) **93i:60115**
Jakubowski, Jacek *see* **Bojdecki, Tomasz, 93b:60127**
Jetschke, Gottfried Lattice approximation of a nonlinear stochastic partial differential equation with white noise. (English summary) **93h:60091**
Jiang, Jing-Lin *see* **Chow, Pao Liu, 93j:60082**
Kallianpur, Gopinath Infinite-dimensional stochastic differential equations with applications. **93b:60131**
— Nuclear space-valued stochastic differential equations with applications. (English summary) **93j:60084**
— (*with* Xiong, Jie) A nuclear space-valued stochastic differential equation driven by Poisson random measures. (*see* **93b:60006**)
Kirsch, Werner (*with* Pastur, L. A.) Large time behaviour of moments of fundamental solutions of the random parabolic equation. (*see* **93e:60007**)
Kolesnik, A. D. *see* **Turbin, A. F., (93k:60008)**
Kotelenez, Peter A comparison theorem for a class of stochastic partial differential equations. (English summary) **93h:60092**
— Comparison methods for a class of function valued stochastic partial differential equations. **93i:60116**
Krylov, N. V. On explicit formulas for solutions of evolutionary SPDEs (a kind of introduction to the theory). (English summary) (*see* **93b:60006**)
Le Gland, François Splitting-up approximation for SPDEs and SDEs with application to nonlinear filtering. (English summary) (*see* **93b:60006**)
Malliavin, Paul Hypoellipticity in infinite dimensions. **93b:60132**
Manthey, Ralf On a class of semilinear stochastic partial differential equations. (*see* **93d:93009**)
— Weak approximation of a nonlinear stochastic partial differential equation. **93g:60131**
— (*with* Maslowski, Bohdan) Qualitative behaviour of solutions of stochastic reaction-diffusion equations. (English summary) **93k:60155**
Marcus, Moshe M. (*with* Mizel, Victor J.) Stochastic hyperbolic systems and the wave equation. **93f:60095**
Maslowski, Bohdan *see* **Manthey, Ralf, 93k:60155**
Millet, Annie (*with* Sanz, Marta) Un théorème de support pour une équation aux dérivées partielles stochastique hyperbolique. (English and French summaries) [A support theorem for a hyperbolic stochastic partial differential equation] **93e:60119**
Mizel, Victor J. *see* **Marcus, Moshe M., 93f:60095**
Molchanov, S. A. *see* **Bulinskiĭ, A. V., 93c:60090**
Mueller, Carl Long time existence for the heat equation with a noise term. **93e:60120**
— Limit results for two stochastic partial differential equations. **93e:60121**
— On the support of solutions to the heat equation with noise. **93e:60122**
— (*with* Perkins, Edwin A.) The compact support property for solutions to the heat equation with noise. (English summary) **93k:60156**
Nualart, David (*with* Pardoux, Étienne) White noise driven quasilinear SPDEs with reflection. **93h:60093**
Osipov, È. P. Markov properties of solutions of stochastic partial differential equations in a finite volume. (English summary) **93h:60094**
Pardoux, Étienne (*with* Peng, Shi Ge) Backward stochastic differential equations and quasilinear parabolic partial differential equations. **93k:60157**
— *see also* **Nualart, David, 93h:60093**
Pastur, L. A. *see* **Kirsch, Werner, (93e:60007)**
Peng, Shi Ge Stochastic Hamilton-Jacobi-Bellman equations. **93e:60123**
— *see also* **Hu, Ying, 93b:60130** *and* **Pardoux, Étienne, 93k:60157**
Perkins, Edwin A. *see* **Mueller, Carl, 93k:60156**
Peszat, Szymon Law equivalence of solutions of some linear stochastic equations in Hilbert spaces. **93k:60158**
Pinsky, Mark A. Lyapunov exponent of a stochastic wave equation. (*see* **93b:60006**)
Pitt, Loren D. (*with* Wang, Daoyi) On stochastic elliptic boundary value problems associated with Gaussian Markov random fields. (*see* **93b:60006**)
Potthoff, Jürgen White noise methods for stochastic partial differential equations. (*see* **93b:60006**)
Rotkiewicz, Emilia *see* **Grytczuk, Krystyna, 93a:60089**
Rozanov, Yu. A. General boundary value problems for stochastic partial differential equations. (Russian) **93e:60124**
— On stochastic evolution equations with nonhomogeneous boundary conditions. (*see* **93e:00033**)
Rozanova, T. Yu. Stochastic differential equations with generalized partial differentials. (Russian) (*see* **93b:60003**)
Safaryan, R. G. A class of random processes and corresponding systems of differential equations with a small parameter. (Russian) **93b:60133**
Sanz, Marta *see* **Millet, Annie, 93e:60119**
Schaumlöffel, Kay-Uwe *see* **Flandoli, Franco, 93f:60093**
Shiga, Tokuzo Some properties of solutions for one-dimensional SPDEs associated with space-time white noise. **93b:60134**
Sowers, Richard B. Large deviations for a reaction-diffusion equation with non-Gaussian perturbations. **93e:60125**
Tubaro, L. *see* **Da Prato, Giuseppe, 93k:60153**
Turbin, A. F. (*with* Kolesnik, A. D.) Hyperbolic equations of the random evolutions in $\mathbf{R}^m$. (*see* **93k:60008**)
Vu Viet Yen A stochastic Taylor formula for two-parameter stochastic processes. (English summary) **93m:60130**
Wang, Daoyi *see* **Pitt, Loren D., (93b:60006)**
Xiong, Jie *see* **Kallianpur, Gopinath, (93b:60006)**
Zabczyk, Jerzy *see* **Da Prato, Giuseppe, 93e:60116; 93g:60129; 93g:60130** *and* **(93b:60006)**
Zhou, Xun Yu A duality analysis on stochastic partial differential equations. **93m:60131**

Items with secondary classifications in 60H15

Asch, M. (*with* Kohler, Werner E.; Papanicolaou, G. C.; Postel, M.; White, Benjamin S.) Frequency content of randomly scattered signals. **93f:73041**
Aurell, Erik *see* **She, Zhen Su; et al., 93h:35182**
Balakrishnan, A. V. Stochastic partial differential equations in control of structures. **93h:93037**
Battezzati, M. The diffusion equation for a particle in a zero-point field. **93h:82060**
Bensoussan, Alain Homogenization of a class of stochastic partial differential equations. **93a:35015**
Brzeźniak, Zdzisław (*with* Capiński, Marek; Flandoli, Franco) Stochastic Navier-Stokes equations with multiplicative noise. (English summary) **93m:35140**
Capiński, Marek (*with* Cutland, Nigel J.) Stochastic Navier-Stokes equations. **93b:35108**
— (*with* Cutland, Nigel J.) Navier-Stokes equations with multiplicative noise. (English summary) **93j:35130**
— *see also* **Brzeźniak, Zdzisław; et al., 93m:35140**
Chow, Pao Liu Large deviation problem for some parabolic Itô equations. **93e:60051**
Cutland, Nigel J. *see* **Capiński, Marek, 93b:35108** *and* **93j:35130**
Fernández, Begoña (*with* Gorostiza, Luis G.) Stability of a class of transformations of distribution-valued processes and stochastic evolution equations. (English summary) **93m:60064**
Flandoli, Franco On the semigroup approach to stochastic evolution equations. **93c:34126**
— *see also* **Brzeźniak, Zdzisław; et al., 93m:35140**
Freidlin, Mark I. (*with* Venttsel′, A. D.) Reaction-diffusion equations with randomly perturbed boundary conditions. **93c:35071**
Frisch, Uriel *see* **She, Zhen Su; et al., 93h:35182**
Funaki, Tadahisa On the stochastic partial differential equations of Ginzburg-Landau type. **93g:35152**
— A stochastic partial differential equation with values in a manifold. (English summary) **93m:58124**
Gątarek, Dariusz (*with* Sokołowski, Jan) Shape sensitivity analysis for stochastic PDEs. (English summary) **93i:49054**
Gikhman, Il. I. ★ Стохастические уравнения и связанные с ними полулинейные стохастические параболические системы. (Russian) [Stochastic equations and related semilinear stochastic parabolic systems] **93b:60121**
Gorostiza, Luis G. *see* **Fernández, Begoña, 93m:60064**
Haba, Zbigniew Solutions of quantum mechanics and field theory in terms of stochastic (partial) differential equations. **93b:81124**
Kallianpur, Gopinath (*with* Mitoma, Itaru) A Segal-Langevin type stochastic differential equation on a space of generalized functionals. (English summary) **93m:46044**
Kohler, Werner E. *see* **Asch, M.; et al., 93f:73041**
Kolomīĕts′, Yu. V. Averaging evolution equations that can be perturbed by random processes with jumps. (Russian. Russian and Ukrainian summaries) **93g:34090**
— Averaging for partial differential equations whose coefficients are perturbed by jump Markov processes. (Ukrainian. Russian and Ukrainian summaries) **93k:35281**
Kotelenez, Peter (*with* Mann, J. Adin, Jr.) Random vortex models and stochastic partial differential equations. (English summary) **93g:35112**
Kulinich, G. L. (*with* Mynbaeva, M. U.) Spatial averaging in parabolic equations. (Russian. Russian and Ukrainian summaries) **93g:35057**
Lévine, Jean Finite-dimensional realizations of stochastic PDEs and application to filtering. **93d:93023**
Lewin, Marica Weak solutions to nonlinear Itô-Volterra stochastic equations in Hilbert spaces. (English summary) **93j:60085**
Mann, J. Adin, Jr. *see* **Kotelenez, Peter, 93g:35112**
Méléard, Sylvie (*with* Roelly-Coppoletta, Sylvie) Discontinuous measure-valued branching processes and generalized stochastic equations. **93d:60140**
Mestechkina, T. M. On the solution of the Cauchy problem for a class of first-order stochastic partial differential equations. (Russian)
Mikulevičius, Remigius (*with* Pragarauskas, H.) On the martingale problem associated with integro-differential operators. **93a:60071**
Misawa, Tetsuya Derivation of a stochastic Kepler system in $\mathbf{R}^5$ from a stochastic harmonic oscillator in $\mathbf{R}^8$. **93k:81030**
Mitoma, Itaru *see* **Kallianpur, Gopinath, 93m:46044**
Mynbaeva, M. U. *see* **Kulinich, G. L., 93g:35057**
Papanicolaou, G. C. *see* **Asch, M.; et al., 93f:73041**
Petruccione, Francesco *see* **Seesselberg, Markus, 93k:65101**
Postel, M. *see* **Asch, M.; et al., 93f:73041**
Pragarauskas, H. *see* **Mikulevičius, Remigius, 93a:60071**
Roelly-Coppoletta, Sylvie *see* **Méléard, Sylvie, 93d:60140**
Seesselberg, Markus (*with* Petruccione, Francesco) Numerical integration of stochastic partial differential equations. (English summary) **93k:65101**
She, Zhen Su (*with* Aurell, Erik; Frisch, Uriel) The inviscid Burgers equation with initial data of Brownian type. (English summary) **93h:35182**

Sinaĭ, Ya. G. Statistics of shocks in solutions of inviscid Burgers equation. (English summary) **93h:35183**
Sokołowski, Jan *see* **Gątarek, Dariusz, 93i:49054**
Valiukevičius, G. Estimates for the smooth functional in the classical case. **93a:60073**
Venttsel', A. D. *see* **Freidlin, Mark I., 93c:35071**
White, Benjamin S. *see* **Asch, M.; et al., 93f:73041**

60H20 Stochastic integral equations

Constantin, I. (*with* Dănilescu, A.) On a class of stochastic equations and applications.
Dănilescu, A. *see* **Constantin, I.**
Demenin, A. N. (*with* Diesperova, M. M.) Sequences of stochastic evolution equations with random perturbations of small intensity. (Russian. Russian summary) (*see* **93e:60002**)
Diesperova, M. M. *see* **Demenin, A. N., (93e:60002)**
Durrett, Richard (*with* Rogers, L. C. G.) Asymptotic behavior of Brownian polymers. **93g:60132**
Fellenberg, Benno (*with* vom Scheidt, Jürgen) Linear Fredholm integral equations of the 2nd kind with weakly correlated influences on kernel and forcing functions. **93e:60126**
Fujiwara, Tsukasa (*with* Kunita, Hiroshi) Limit theorems for stochastic difference-differential equations. **93m:60132**
Gorostiza, Luis G. (*with* León, Jorge A.) A stochastic Fubini theorem and equivalence of extended solutions of stochastic evolution equations in Hilbert space. **93h:60095**
He, Xiang Min Properties of solutions to two-parameter stochastic integral equations of Volterra-Itô type. (Chinese. English and Chinese summaries)
Jacod, Jean (*with* Protter, Philip) Une remarque sur les équations différentielles stochastiques à solutions markoviennes. [A remark on stochastic differential equations with Markov solutions] **93m:60133**
Kogut, P. I. The stochastic Itô differential. (Russian. Russian summary) (*see* **93k:00023**)
Kunita, Hiroshi *see* **Fujiwara, Tsukasa, 93m:60132**
Ladde, G. S. (*with* Sathananthan, S.) Itô-type systems of stochastic integro-differential equations. (English summary) **93g:60133**
León, Jorge A. *see* **Gorostiza, Luis G., 93h:60095**
Lewin, Marica On weak solutions of nonlinear Volterra stochastic equations. (English summary) **93h:60096**
— Weak solutions to nonlinear Itô-Volterra stochastic equations in Hilbert spaces. (English summary) **93j:60085**
Makhno, S. Ya. On large deviations for a class of stochastic equations. (Russian. English summary) **93b:60135**
— Diffusion approximation for a class of random processes. (Ukrainian. Russian and Ukrainian summaries) **93m:60134**
Mao, Xuerong Lyapunov functions and almost sure polynomial stability. **93j:60086**
Mishura, Yu. S. Stochastic differential equations in the plane that contain strong semimartingales. (Russian) **93m:60135**
Murge, M. G. (*with* Pachpatte, B. G.) On a nonlinear stochastic evolution equation. (English summary) **93i:60117**
Pachpatte, B. G. *see* **Murge, M. G., 93i:60117**
Protter, Philip *see* **Jacod, Jean, 93m:60133**
Rodkina, A. E. Stochastic Volterra integral equations. (Russian. English, Russian and Moldavian summaries) **93m:60136**
Rogers, L. C. G. *see* **Durrett, Richard, 93g:60132**
Sathananthan, S. *see* **Ladde, G. S., 93g:60133**
vom Scheidt, Jürgen *see* **Fellenberg, Benno, 93e:60126**
Svishchuk, A. V. Stochastic integral operator equation for the limiting semi-Markov random evolution in lumping scheme. (*see* **93k:60008**)
— Dual approximation of random evolutions in an averaging scheme. (Russian. Russian and Ukrainian summaries) **93h:60097**
Szynal, Dominik (*with* Wędrychowicz, S.) On solutions of a stochastic integral equation of the Volterra-Fredholm type. (Polish summary) **93e:60127**
Tudor, Constantin Periodic and almost periodic flows of periodic Itô equations. (English summary) **93j:60087**
Wędrychowicz, S. *see* **Szynal, Dominik, 93e:60127**

Items with secondary classifications in 60H20

Ahmed, N. U. An existence theorem for stochastic nonlinear evolution equations on Banach space. (English summary) **93m:60127**
Bojdecki, Tomasz (*with* Jakubowski, Jacek) The Girsanov theorem and weak solutions of stochastic differential equations in the dual of a nuclear space. **93b:60127**
Chen, Pei De Multi-parameter stochastic processes. **93a:60054**
Costantini, Cristina The Skorohod oblique reflection problem in domains with corners and application to stochastic differential equations. **93e:60109**
Duffie, Darrell (*with* Lions, Pierre-Louis) PDE solutions of stochastic differential utility. (English summary) **93j:90020**
Engelbert, H. J. (*with* Schmidt, Wolfgang Michael) Continuous local martingales: strong Markov property, solutions of stochastic equations, and the interplay between them. **93i:60135**
Fujita, Yasuhiro A probabilistic approach to Volterra equations in Banach spaces. **93g:45016**
Jakubowski, Jacek *see* **Bojdecki, Tomasz, 93b:60127**
Kwon, Youngmee Uniqueness for the martingale problem with discontinuous coefficient. **93k:60182**
Lions, Pierre-Louis *see* **Duffie, Darrell, 93j:90020**
Medhin, N. G. (*with* Sambandham, M.) A numerical study of random integro-differential equations. **93e:65152**
Mohammed, Salah Eldin A. Lyapunov exponents and stochastic flows of linear and affine hereditary systems. **93k:60149**
Murge, M. G. (*with* Pachpatte, B. G.) On averaging method for second order Itô type stochastic equations. **93c:60087**
Ogawa, Shigeyoshi Monte Carlo simulation of nonlinear diffusion processes. **93e:65007**
Pachpatte, B. G. *see* **Murge, M. G., 93c:60087**
Sambandham, M. *see* **Medhin, N. G., 93e:65152**
Schmidt, Wolfgang Michael *see* **Engelbert, H. J., 93i:60135**
Sundar, P. Time reversal of solutions of equations driven by Lévy processes. (English summary) **93j:60081**
Voronina, V. A. A stochastic method for solving an initial-boundary value problem for the Boltzmann equation. (Russian) **93i:76078**

60H25 Random operators and equations [see also 47B80]

Chani, A. S. Index of exponential growth of stochastic semigroups of triangular type. (Russian) **93h:60098**
Đặng Hùng Thắng Sample paths of random linear operators in Banach spaces. (English summary) **93m:60137**
Darling, R. W. R. The Lyapunov exponent for products of infinite-dimensional random matrices. (English summary) **93m:60138**
Dorogovtsev, A. A. Equations with Gaussian random operators, and differential operators of infinite order. (Russian. Russian summary) **93k:60159**
Fiedler, Olga (*with* Römisch, Werner) Weak convergence of approximate solutions of random equations. (English summary) **93m:60139**
Girko, V. L. ★ Теория эмпирических систем уравнений. (Russian) [Theory of empirical systems of equations] **93d:60106**
— Systems of linear algebraic equations with random coefficients. (Russian) **93e:60128**
Goldie, Charles M. Implicit renewal theory and tails of solutions of random equations. **93i:60118**
Hou, You Liang Extensions of continuous random operators. (Chinese. Chinese summary) **93j:60088**
— An extremal principle for random functionals and general random fixed point theorems. (Chinese. English summary) **93c:60092**
Ladde, G. S. (*with* Sathananthan, S.) Stochastic integro-differential equations with random parameters. I. (English summary) **93k:60160**
Lyatambur, K. N. Relations between left and right multiplicative evolution systems without the continuity condition. (Russian. Russian summary) **93j:60089**
Römisch, Werner *see* **Fiedler, Olga, 93m:60139**
Sathananthan, S. *see* **Ladde, G. S., 93k:60160**
Shao, Yong Heng Random contractors and solutions to random operator equations. (Chinese. Chinese summary) **93h:60099**

Items with secondary classifications in 60H25

Ahn, Ho S. (*with* Carmona, René A.; Molchanov, S. A.) Nonstationary Anderson model with Lévy potential. **93h:82036**
Ariaratnam, S. T. (*with* Xie, Wei Chau) Lyapunov exponents in stochastic structural dynamics. (English summary) **93f:73063**
Carmona, René A. *see* **Ahn, Ho S.; et al., 93h:82036**
Chang, Wei *see* **Kam, Moshe; et al., 93k:54077**
Flandoli, Franco Stochastic evolution equations with noncoercive monotone operators. **93j:60075**
Grinshpun, V. Z. The point spectrum of an infinite-order random operator that acts in $l^2(\mathbf{Z}^d)$. (Russian. English and Russian summaries) **93i:47121**
Kam, Moshe (*with* Chang, Wei; Rorres, Chris) Systems of random mappings with a common fixed point. (English summary) **93k:54077**
Koshovets, I. A. Properties of the limit distribution of states for a family of unitary operators that is connected with a quantum rotator. (Russian) **93g:47090**
Kucia, Anna (*with* Nowak, Andrzej S.) On Filippov type theorems and measurability of inverses of random operators. (English summary) **93i:47110**
Kuo, Hui-Hsiung Lectures on white noise analysis. **93k:60099**
Lang, Reinhard ★ Spectral theory of random Schrödinger operators. **93d:47144**
Mackey, Michael C. The second law of thermodynamics: comments from ergodic theory. **93a:82036**
Macris, Nicolas (*with* Pulé, J. V.) Density of states of random Schrödinger operators with a uniform magnetic field. **93h:82031**
Mainieri, Ronnie Cycle expansion for the Lyapunov exponent of a product of random matrices. **93e:82029**
Molchanov, S. A. *see* **Ahn, Ho S.; et al., 93h:82036**
Negishi, Hiroshi *see* **Uno, Takashi, 93f:26013**
Nowak, Andrzej S. *see* **Kucia, Anna, 93i:47110**
Ozawa, Shin Spectra of random media. (Japanese) **93m:35135**
Pasik-Duncan, Bożenna Asymptotic distribution of some quadratic functionals of linear stochastic evolution systems. (English summary) **93i:93130**
Pulé, J. V. *see* **Macris, Nicolas, 93h:82031**
Rorres, Chris *see* **Kam, Moshe; et al., 93k:54077**
Sheu, Tian Wei Spectral properties of differential operators related to stochastic oscillatory integrals. **93f:58240**
Sun, Feng Zhu The rotation number and spectrum of stochastic Dirac operators. (Chinese. English summary) **93c:34167**
Tan, Kok-Keong (*with* Yuan, Xian Zhi) On deterministic and random fixed points. **93m:47065**
Uno, Takashi (*with* Negishi, Hiroshi) On the upper bound of the number of positive roots of a random algebraic equation. **93f:26013**
Xie, Wei Chau *see* **Ariaratnam, S. T., 93f:73063**
Xu, Hong Kun A random fixed point theorem for multivalued nonexpansive operators in uniformly convex Banach spaces. **93e:47092**
Yuan, Xian Zhi Random nonlinear Hammerstein equations. **93h:47075**
— *see also* **Tan, Kok-Keong, 93m:47065**
Yurinskiĭ, V. V. On the homogenization error for a zero drift diffusion in a random medium [translation of Trudy Inst. Mat. (Novosibirsk) **20** (1991)]. **93d:60129**

60H30 Applications of stochastic analysis (to PDE, etc.)

Bally, Vlad A stochastic ellipticity assumption. (English summary) **93m:60140**
Ben Arous, Gérard (*with* Léandre, Rémi) Décroissance exponentielle du noyau de la chaleur sur la diagonale. I. (English summary) [Exponential decay of the heat kernel on

the diagonal. I] **93b:60136a**
— (*with* Léandre, Rémi) Décroissance exponentielle du noyau de la chaleur sur la diagonale. II. (English summary) [Exponential decay of the heat kernel on the diagonal. II] **93b:60136b**
Cattiaux, Patrick Stochastic calculus and degenerate boundary value problems. (English and French summaries) **93j:60090**
Fang, Shi Zan Analyse quasi-sure et l'estimation du noyau de la chaleur pour temps petit. (English summary) [Quasisure analysis and estimation of the heat kernel in small time] **93k:60161**
Jacquot, S. Comportement asymptotique de l'intervalle spectral d'opérateurs de Kolmogorov sur l'espace de Wiener. (English summary) [Asymptotic behavior of the spectral interval of Kolmogorov operators on Wiener space] **93e:60130**
— Comportement asymptotique de la seconde valeur propre des processus de Kolmogorov. (English summary) [Asymptotic behavior of the second eigenvalue of Kolmogorov processes] **93e:60129**
Karatzas, Ioannis (*with* Ocone, Daniel L.) The resolvent of a degenerate diffusion on the plane, with application to partially observed stochastic control. (English summary) **93h:60100**
Léandre, Rémi *see* **Ben Arous, Gérard, 93b:60136a** *and* **93b:60136b**
Marra, Rossana Hydrodynamical stochastic formalism and representation formulas. **93a:60090**
Ocone, Daniel L. *see* **Karatzas, Ioannis, 93h:60100**
Peng, Shi Ge A nonlinear Feynman-Kac formula and applications. **93g:60134**
Pinsky, Mark A. Lyapunov exponent and rotation number of the linear harmonic oscillator. **93h:60101**

Items with secondary classifications in 60H30

Belopol'skaya, Ya. I. Diffusions and parabolic equations in principal bundles. **93c:58229**
Cvitanić, Jakša (*with* Karatzas, Ioannis) Convex duality in constrained portfolio optimization. (English summary) **93j:90068**
Daletskii, Yu. L. *see* **Goncharuk, N. Yu., 93c:46073**
Duffie, Darrell (*with* Lions, Pierre-Louis) PDE solutions of stochastic differential utility. (English summary) **93j:90020**
Dynkin, E. B. Additive functionals of superdiffusion processes. **93d:60122**
Föllmer, Hans Martin boundaries on Wiener space. **93d:60121**
Freidlin, Mark I. (*with* Sowers, Richard B.) Central limit theorem results for a reaction-diffusion equation with fast-oscillating boundary perturbations. **93i:60150**
Goncharuk, N. Yu. (*with* Daletskii, Yu. L.) Random operator functions defined by stochastic differential equations. **93c:46073**
Karatzas, Ioannis *see* **Cvitanić, Jakša, 93j:90068**
Kloeden, P. E. (*with* Platen, Eckhard) Stratonovich and Itô stochastic Taylor expansions. **93a:60082**
Krylov, N. V. On the first quasiderivatives of solutions of Itô stochastic equations. (Russian. Russian summary) **93m:60119**
Léandre, Rémi Développement asymptotique de la densité d'une diffusion dégénérée. [Asymptotic expansion of the density of a degenerate diffusion] **93d:60100**
Lions, Pierre-Louis *see* **Duffie, Darrell, 93j:90020**
Peng, Shi Ge Probabilistic interpretation for systems of quasilinear parabolic partial differential equations. **93a:35159**
Pinsky, Mark A. Inverse questions in stochastic differential geometry. **93k:58234**
Platen, Eckhard *see* **Kloeden, P. E., 93a:60082**
Shreve, Steven E. *see* **Xu, Gan-Lin, 93c:90016a** *and* **93c:90016b**
Sowers, Richard B. *see* **Freidlin, Mark I., 93i:60150**
Stroock, Daniel W. Estimates on the heat kernel for second order divergence form operators. **93m:35092**
Twardowska, Krystyna On the approximation theorem of the Wong-Zakai type for the functional stochastic differential equations. (English summary) **93k:34171**
Ueki, Naomasa A probabilistic construction of the heat kernel for the $\overline{\partial}$-Neumann problem on a strongly pseudoconvex Siegel domain. **93e:58201**
Xu, Gan-Lin (*with* Shreve, Steven E.) A duality method for optimal consumption and investment under short-selling prohibition. I. General market coefficients. **93c:90016a**
— (*with* Shreve, Steven E.) A duality method for optimal consumption and investment under short-selling prohibition. II. Constant market coefficients. **93c:90016b**

60H99 None of the above, but in this section

Bainov, Drumi Dimitrov (*with* Kolmanovskii, V. B.) Periodic solutions of stochastic functional-differential equations. **93i:60119**
Bondarev, B. V. An estimate for the nonlinearity parameter in initial-boundary value problems with Gaussian perturbations. (Russian) **93d:60107**
Bouleau, Nicolas On numerical integration by the shift and application to Wiener space. **93f:60096**
Butsan, G. P. The mixed product of dependent operator stochastic systems without continuity and martingale conditions. (Russian) **93b:60137**
Chang, Joo Sup (*with* Park, Chull; Skoug, David) Fundamental theorem of Yeh-Wiener calculus. **93g:60135**
De Oliveira, J. C. F. *see* **Langevin, Rémi; et al., 93i:60120**
Grigelionis, B. Hellinger integrals and Hellinger processes for solutions of martingale problems. **93c:60093**
Kadiev, R. I. Stability with respect to some of the variables of linear functional-differential Itô equations. (Russian. Russian summary) (*see* **93m:00024**)
— Stability with respect to some of the variables of linear stochastic functional-differential equations. (Russian. Russian summary) **93j:60091**
Kallianpur, Gopinath (*with* Karandikar, Rajeeva L.) An introduction to white-noise analysis and nonlinear filtering. (*see* **93g:93003**)
Karandikar, Rajeeva L. *see* **Kallianpur, Gopinath, (93g:93003)**
Khusainov, D. Ya. *see* **Nechaeva, I. G., 93h:60102**
Kolmanovskii, V. B. *see* **Bainov, Drumi Dimitrov, 93i:60119**
Koval', V. A. Laws of large numbers and the iterated logarithm for solutions of stochastic difference equations in a Banach space. (Russian. Russian summary) **93k:60162**
— Asymptotic behavior of solutions of stochastic recurrence equations under weakly dependent Gaussian Markov disturbances. (Russian) **93e:60131**
Langevin, Rémi (*with* Oliva, W. M.; De Oliveira, J. C. F.) Retarded functional-differential equations with white noise perturbations. (French summary) **93i:60120**
Nechaeva, I. G. (*with* Khusainov, D. Ya.) Obtaining estimates for the stability of solutions of stochastic functional-differential equations. (Russian. Russian summary) **93h:60102**
Oliva, W. M. *see* **Langevin, Rémi; et al., 93i:60120**
Park, Chull *see* **Chang, Joo Sup; et al., 93g:60135**
Parthasarathy, Kalyanapuram Rangachari A quantum stochastic approach to Itô's formula for Lévy processes. (English and French summaries) **93k:60163**
Ponosov, A. V. On the theory of reducible stochastic functional-differential equations with respect to a semimartingale. (Russian. Russian summary) (*see* **93m:00024**)
Skoug, David *see* **Chang, Joo Sup; et al., 93g:60135**
Tsar'kov, E. F. (*with* Yanson, V. A.) Investigation of stability of stochastic functional-differential equations with periodic coefficients. (English and Latvian summaries) (*see* **93e:60006**)
Tudor, M. Approximation schemes for stochastic equations with hereditary argument. (Romanian. English and Romanian summaries) **93i:60121**
— Some second-order approximation schemes for stochastic equations with hereditary argument. (Romanian. English and Romanian summaries) **93i:60122**
Yanson, V. A. *see* **Tsar'kov, E. F., (93e:60006)**
Yasinskii, V. K. On strong solutions of stochastic functional-differential equations with infinite aftereffect. (English and Latvian summaries) (*see* **93e:60006**)

Items with secondary classifications in 60H99

Adler, Robert J. (*with* Lewin, Marica) An evolution equation for the intersection local times of superprocesses. **93h:60077**
Albeverio, Sergio (*with* Röckner, Michael) Infinite-dimensional diffusions connected with positive generalized white noise functionals. **93g:60165**
Andersson, Lars Åke (*with* Peters, Gunnar) Geometric quantization on Wiener manifolds. **93f:58085**
Arnold, Ludwig (*with* Crauel, Hans) Iterated function systems and multiplicative ergodic theory. (English summary) **93k:58132**
Belavkin, V. P. The unified Itô formula has the pseudo-Poisson structure $df(x) = [f(x+b) - f(x)]\mu da_u^+$. (English summary) **93m:81078**
Betounes, David (*with* Redfern, Mylan) Wiener distributions and white noise analysis. **93k:60098**
Bougerol, Philippe (*with* Picard, Nico) Stationarity of GARCH processes and of some nonnegative time series. **93g:62115**
Crauel, Hans *see* **Arnold, Ludwig, 93k:58132**
DeBlassie, R. Dante (*with* Toby, Ellen H.) Reflecting Brownian motion in a cusp. **93k:60199**
De Santis, Alberto (*with* Gandolfi, Alberto; Germani, Alfredo; Tardelli, Paola) A representation theorem for Radon-Nikodým derivatives in the white-noise theory. (English summary) **93h:60006**
Ekhaguere, G. O. S. Lipschitzian quantum stochastic differential inclusions. (English summary) **93k:81120**
Fagnola, Franco Pure birth and pure death processes as quantum flows in Fock space. (English summary) **93m:81080**
Gandolfi, Alberto *see* **De Santis, Alberto; et al., 93h:60006**
Gao, Fu Qing Large deviation of a capacity related to the Ornstein-Uhlenbeck operator. **93c:60110**
Gardiner, C. W. (*with* Parkins, A. S.; Zoller, P.) Wave-function quantum stochastic differential equations and quantum-jump simulation methods. (English summary) **93k:81277**
Germani, Alfredo *see* **De Santis, Alberto; et al., 93h:60006**
Gliklikh, Yu. E. On the existence of solutions in Nelson's stochastic mechanics. (Russian) **93b:81035**
Graham, C. Robin McKean-Vlasov Itô-Skorohod equations, and nonlinear diffusions with discrete jump sets. **93b:60102**
Heinrich, Stefan Probabilistic analysis of numerical methods for integral equations. **93a:65181a**
— Errata: "Probabilistic analysis of numerical methods for integral equations". **93a:65181b**
Hida, Takeyuki (*with* Potthoff, Jürgen) White noise analysis—an overview. **93g:60081**
— (*with* Kuo, Hui-Hsiung) Semigroups associated with generalized Brownian functionals. **93i:60080**
— (*with* Kuo, Hui-Hsiung; Obata, Nobuaki) Transformations for white noise functionals. (English summary) **93m:46042**
Ito, Yoshifusa (*with* Kubo, Izumi; Takenaka, Shigeo) Calculus on Gaussian white noise and Kuo's Fourier transform. **93m:46043**
Kallianpur, Gopinath Infinite-dimensional stochastic differential equations with applications. **93b:60131**
Khandekar, Dinkar C. White-noise analysis as a tool in computing Feynman integrals. **93a:81103**
Kondrat'ev, Yu. G. (*with* Streit, Ludwig) A remark about a norm estimate for white noise distributions. (English and Ukrainian summaries) **93m:46047**
Kubo, Izumi *see* **Ito, Yoshifusa; et al., 93m:46043**
Kunita, Hiroshi Central limit theorems on random measures and stochastic difference equations. **93h:60055**
Kuo, Hui-Hsiung *see* **Hida, Takeyuki, 93i:60080** *and* **93m:46042**
Lewin, Marica *see* **Adler, Robert J., 93h:60077**
Li, Yü Chia A characterization of generalized functions on infinite-dimensional spaces and Bargman-Segal analytic functions. **93f:46064**
Mao, Xuerong Approximate solutions for a class of delay stochastic differential equations. **93b:34103**
Obata, Nobuaki *see* **Hida, Takeyuki; et al., 93m:46042**
Parkins, A. S. *see* **Gardiner, C. W.; et al., 93k:81277**
Peters, Gunnar *see* **Andersson, Lars Åke, 93f:58085**
Picard, Nico *see* **Bougerol, Philippe, 93g:62115**
Pinsky, Mark A. ★ Lectures on random evolution. **93b:60160**

Potthoff, Jürgen Introduction to white noise analysis. **93g:60082**
— (*with* Yan, Jia An) Some results about test and generalized functionals of white noise. **93k:60100**
— *see also* **Hida, Takeyuki, 93g:60081**
Redfern, Mylan *see* **Betounes, David, 93k:60098**
Röckner, Michael *see* **Albeverio, Sergio, 93g:60165**
Schürmann, Michael The Azéma martingales as components of quantum independent increment processes. **93k:81124**
Sergeev, V. A. The property of exponential p-stability of the trivial solution of a periodic stochastic functional-differential equation. (Russian. Russian summary) (*see* **93m:00017**)
Si Si Variational calculus for Lévy's Brownian motion and a generalization. **93g:60108**
Streit, Ludwig White noise analysis theory and applications. (*see* **93e:81006**)
— *see also* **Kondrat'ev, Yu. G., 93m:46047**
Sun, Feng Zhu Qualitative properties of stochastic difference systems. (Chinese. English and Chinese summaries) **93i:93114**
Takenaka, Shigeo *see* **Ito, Yoshifusa; et al., 93m:46043**
Tardelli, Paola *see* **De Santis, Alberto; et al., 93h:60006**
Teplyaev, A. V. Absolute continuity of the spectrum of random polynomials that are orthogonal on the circle and their continual analogues. (Russian. Russian summary) **93d:42030**
Toby, Ellen H. *see* **DeBlassie, R. Dante, 93k:60199**
Tudor, Constantin Weak solutions of deterministic and stochastic linear functional equations in Hilbert spaces. **93h:34143**
Yan, Jia An *see* **Potthoff, Jürgen, 93k:60100**
Yor, Marc ★ Some aspects of Brownian motion. Part I. **93i:60155**
Zoller, P. *see* **Gardiner, C. W.; et al., 93k:81277**

60Jxx Markov processes

Items with secondary classifications in 60Jxx

Gillespie, Daniel T. ★ Markov processes. **93i:60001**
(Heyman, D. P.) *see* **Stochastic models, 93a:60001**
(Sobel, Matthew J.) *see* **Stochastic models, 93a:60001**

Items listed otherwise than by author

Stochastic models ★ Stochastic models. **93a:60001**

60J05 Markov processes with discrete parameter

Abadov, Z. A. *see* **Sil'vestrov, D. S., 93h:60104**
Ango Nzé, Patrick Critères d'ergodicité de quelques modèles à représentation markovienne. (English and French summaries) [Criteria of ergodicity for some models with a Markovian representation] **93h:60103**
Belyakov, K. I. Properties of Markov operators leaving invariant some classes of functions and measures. (English and Latvian summaries) (*see* **93e:60006**)
Borovkov, A. A. Ergodicity and stability of Markov chains and of their generalizations. Multidimensional chains. **93c:60094**
— Ergodicity conditions for Markov chains that are not connected with irreducibility in the sense of Harris. (Russian) **93c:60095**
— Lyapunov functions and the ergodicity of multidimensional Markov chains. (Russian) **93g:60136**
— (*with* Foss, S. G.) Stochastically recursive sequences and their generalizations. **93f:60097**
Burton, Robert M., Jr. (*with* Keller, Gerhard) Stationary measures for randomly chosen maps. (English summary) **93m:60141**
Catoni, Olivier Exponential triangular cooling schedules for simulated annealing algorithms: a case study. (*see* **93a:93100**)
Chen, Rong (*with* Tsay, Ruey S.) On the ergodicity of TAR(1) processes. **93d:60108**
Cohen, Joel E. (*with* Liggett, Thomas M.) Random arithmetic-geometric means and random pi: observations and conjectures. **93f:60098**
Crauel, Hans Markov measures for random dynamical systems. **93c:60096**
Diaconis, Persi Sufficiency as statistical symmetry. (English summary) **93g:60137**
Ellis, Richard S. A unified approach to large deviations for Markov chains and applications to statistical mechanics. **93b:60138**
Elton, J. H. (*with* Piccioni, Mauro) Iterated function systems arising from recursive estimation problems. **93b:60139**
Foss, S. G. *see* **Borovkov, A. A., 93f:60097**
Haario, Heikki (*with* Saksman, Eero) Weak convergence of the simulated annealing process in general state space. **93d:60109**
Karr, Alan F. Markov processes. (*see* **93a:60001**)
Keller, Gerhard *see* **Burton, Robert M., Jr., 93m:60141**
Khuruma, A. K. *see* **Zhdanok, A. I., (93e:60006)**
Komorowski, Tomasz Asymptotic periodicity of some stochastically perturbed dynamical systems. (French summary) **93g:60138**
Liggett, Thomas M. *see* **Cohen, Joel E., 93f:60098**
Meyn, Sean P. Stability of Markov chains on topological spaces with applications to adaptive control and time series analysis. **93d:60110**
Mukherjea, Arunava Convergence in distribution of a Markov process generated by i.i.d. random matrices. **93k:60164**
Nummelin, Esa Renewal representations for Markov operators. **93f:60099**
Piccioni, Mauro *see* **Elton, J. H., 93b:60139**
Saksman, Eero *see* **Haario, Heikki, 93d:60109**
Salisbury, Thomas S. A low intensity maximum principle for bi-Brownian motion. **93b:60140**
Sil'vestrov, D. S. (*with* Abadov, Z. A.) Uniform representations of exponential moments of sums of random variables defined on a Markov chain and of distributions of the times of attainment. I. (Russian) **93h:60104**
Todorovic, Petar Structure and asymptotic behaviour of a nondecreasing Markov chain. **93h:60105**
Tsay, Ruey S. *see* **Chen, Rong, 93d:60108**
Vazirani, Umesh Rapidly mixing Markov chains. **93b:60141**
Veretennikov, A. Yu. Estimates for the mixing rate for Markov processes. (Russian. English and Lithuanian summaries) **93g:60139**
Zhdanok, A. I. (*with* Khuruma, A. K.) Operators of countable Markov chains in spaces of unbounded and purely finite-additive measures. (English and Latvian summaries) (*see* **93e:60006**)

Items with secondary classifications in 60J05

de Acosta, Alejandro D. (*with* Ney, Peter E.; Nummelin, Esa) Large deviation lower bounds for general sequences of random variables. **93b:60053**
Asmussen, Søren Phase-type representations in random walk and queueing problems. **93c:60100**
Barbour, A. D. Refined approximations for the Ewens sampling formula. **93k:60025**
Baxter, J. R. (*with* Jain, Naresh C.; Varadhan, S. R. S.) Some familiar examples for which the large deviation principle does not hold. **93d:60038**
Dupuis, Paul (*with* Ellis, Richard S.) Large deviations for Markov processes with discontinuous statistics. II. Random walks. **93c:60034**
Ellis, Richard S. *see* **Dupuis, Paul, 93c:60034**
Feng, Shui Large deviations for Markov processes with mean field interaction and unbounded jumps. **93a:60039**
Hernández-Lerma, Onésimo On integrated square errors of recursive nonparametric estimates of nonstationary Markov processes. **93i:62075**
Jain, Naresh C. *see* **Baxter, J. R.; et al., 93d:60038**
Kao, Edward P. C. (*with* Smith, Marion Spokony) On renewal processes relating to counter models: the case of phase-type interarrival times. (English summary) **93j:60126**
Koski, Timo Nonlinear autoregression in the theory of signal compression. **93b:94009**
Ladelli, L. (*with* Sadi, H.) Propriété asymptotique d'un modèle statistique pour une chaîne de Markov à valeurs dans $\mathbf{R}^d$. (English summary) [Asymptotic property of a statistical model for an $\mathbf{R}^d$-valued Markov chain] **93e:62215**
Lovász, László (*with* Simonovits, Miklós) The mixing rate of Markov chains, an isoperimetric inequality, and computing the volume. **93e:68035**
Malczak, Jan Some limit theorems for Markov operators and their applications. **93j:47012**
Mamurov, B. Zh. A class of quadratic processes. (Russian) **93j:60067**
Ney, Peter E. *see* **de Acosta, Alejandro D.; et al., 93b:60053**
Nummelin, Esa *see* **de Acosta, Alejandro D.; et al., 93b:60053**
Oliveira, M. F. *see* **Turkman, K. F., 93a:60035**
Podhorodyński, Marian Duality of Markov hypotheses. (English summary) **93j:47013**
Raugi, Albert Théorie spectrale d'un opérateur de transition sur un espace métrique compact. (English summary) [Spectral theory of a transition operator on a compact metric space] **93i:60009**
Sadi, H. *see* **Ladelli, L., 93e:62215**
Satô, Hiroshi[1] Absolute continuity of locally equivalent Markov chains. **93f:60055**
Simonovits, Miklós *see* **Lovász, László, 93e:68035**
Smith, Marion Spokony *see* **Kao, Edward P. C., 93j:60126**
Smith, Richard L. The extremal index for a Markov chain. **93e:60101**
Touati, A. Méthodes de changement de temps pour la convergence en loi des martingales. (English summary) [Time-change methods for the convergence in law of martingales] **93a:60072**
Turkman, K. F. (*with* Oliveira, M. F.) Limit laws for the maxima of chain-dependent sequences with positive extremal index. **93a:60035**
Varadhan, S. R. S. *see* **Baxter, J. R.; et al., 93d:60038**
Veretennikov, A. Yu. On large deviations for ergodic process empirical measures. **93m:60056**

60J10 Markov chains with discrete parameter

Aaronson, Jon (*with* Gilat, David; Keane, Michael S.) On the structure of 1-dependent Markov chains. (English summary) **93i:60123**
Abolnikov, Lev (*with* Dukhovny, Alexander) Markov chains with transition delta-matrix: ergodicity conditions, invariant probability measures and applications. **93e:60132**
Aldous, David J. Meeting times for independent Markov chains. **93m:60142**
Algoet, Paul H. (*with* Marcus, Brian H.) Large deviation theorems for empirical types of Markov chains constrained to thin sets. **93c:60097**
Beaumont, Nicholas Some results pertaining to lumpings of a Markov chain. (English summary)
Benjamini, Yoav (*with* Krieger, Abba M.) Market share paradox and heterogeneous chains. (English summary) **93m:60143**
Borkar, Vivek S. Pathwise recurrence orders and simulated annealing. **93d:60111**
Borovkov, A. A. (*with* Fayolle, G.; Korshunov, D. A.) Transient phenomena for Markov chains and applications. **93f:60100**
Bratiichuk, N. S. (*with* Tkebuchava, R. S.) Local limit theorems for integer random walks on a countable Markov chain. (Russian. Russian summary)
Brown, Mark Spectral analysis, without eigenvectors, for Markov chains. (English summary) **93m:60144**
Cao, Xin *see* **Liu, De Lin; et al.**
Catoni, Olivier Rough large deviation estimates for simulated annealing: application to exponential schedules. (English summary) **93j:60092**
Chan, K. S. Asymptotic behavior of the Gibbs sampler. (English summary) **93k:60165**
Cohen, Joel E. (*with* Iwasa, Yoh; Râuţu, Gh.; Ruskai, Mary Beth; Seneta, Eugene; Zbăganu, Gh.) Relative entropy under mappings by stochastic matrices. (English summary) **93m:60145**
Conlisk, John Stability and monotonicity for interactive Markov chains. (English summary) **93k:60166**
Csenki, Attila The joint distribution of sojourn times in finite Markov processes. **93a:60091**
Diaconis, Persi (*with* Graham, R. L.) An affine walk on the hypercube. (English summary) **93i:60124**
van Dijk, Nico M. Uniformization for nonhomogeneous Markov chains. (English summary) **93h:60106**
Dukhovny, Alexander *see* **Abolnikov, Lev, 93e:60132**
Fayolle, G. *see* **Borovkov, A. A.; et al., 93f:60100**

Fox, Bennett L. (*with* Glasserman, Paul) Estimating derivatives via Poisson's equation. (English summary) **93g:60140**
Frigessi, Arnoldo (*with* Huang, Ch'i Jui; Younes, Laurent) Optimal spectral structure of reversible stochastic matrices, Monte Carlo methods and the simulation of Markov random fields. (English summary) **93e:60133**
Gilat, David *see* **Aaronson, Jon; et al., 93i:60123**
Glasserman, Paul *see* **Fox, Bennett L., 93g:60140**
Graham, R. L. *see* **Diaconis, Persi, 93i:60124**
Grassmann, Winfried K. *see* **Taksar, Michael I., 93a:60098**
Hanlon, Philip J. A Markov chain on the symmetric group and Jack symmetric functions. **93j:60093**
Hanschke, Thomas Markov chains and generalized continued fractions. (English summary) **93i:60125**
Harris, Carl M. (*with* Marchal, William G.; Tibbs, Richard W.) An algorithm for finding characteristic roots of quasi-triangular Markov chains. (English summary) (*see* **93i:60006**)
Hartfiel, D. J. Sequential limits in Markov set-chains. **93a:60092**
Hassin, Refael (*with* Haviv, Moshe) Mean passage times and nearly uncoupled Markov chains. **93m:60146**
Haviv, Moshe An aggregation/disaggregation algorithm for computing the stationary distribution of a large Markov chain. (English summary) **93e:60134**
— *see also* **Hassin, Refael, 93m:60146**
Hawkes, Alan G. *see* **Jalali, Assad, 93b:60142**
Hennion, Hubert Sur un théorème spectral et son application aux noyaux lipchitziens. (English summary) [On a spectral theorem and its application to Lipschitz kernels] **93g:60141**
Hordijk, Arie (*with* Spieksma, Flos) On ergodicity and recurrence properties of a Markov chain with an application to an open Jackson network. **93i:60126**
Huang, Cheng Chi Normalized finite nonhomogeneous chains and applications. **93c:60098**
Huang, Ch'i Jui (*with* Sheu, Shuenn Jyi) Singular perturbed Markov chains and exact behaviors of simulated annealing processes. **93f:60101**
— *see also* **Frigessi, Arnoldo; et al., 93e:60133**
Hunter, Jeffrey J. Stationary distributions and mean first passage times in Markov chains using generalized inverses. (English summary) **93i:60127**
Iwasa, Yoh *see* **Cohen, Joel E.; et al., 93m:60145**
Jalali, Assad (*with* Hawkes, Alan G.) The distribution of apparent occupancy times in a two-state Markov process in which brief events cannot be detected. **93b:60142**
Kalpazidou, Sofia Invariant stochastic properties of a class of directed circuits. **93a:60093**
— On the weak convergence of sequences of circuit processes: a probabilistic approach. **93e:60135**
— On the asymptotic behaviour of spectral representations for Markov processes. **93a:60094**
— On circuit generating processes. (English summary) **93k:60167**
Kameda, Tsunehiko *see* **Pilarski, Sławomir, 93k:60169**
Karlin, Samuel (*with* Lindqvist, Bo Henry; Yao, Yi-Ching) Markov chains on hypercubes: spectral representations and several majorization relations. (English summary) **93k:60168**
Keane, Michael S. *see* **Aaronson, Jon; et al., 93i:60123**
Kemp, Adrienne W. Steady-state Markov chain models for the Heine and Euler distributions. (English summary) **93h:60107**
Kijima, Masaaki On the existence of quasi-stationary distributions in denumerable *R*-transient Markov chains. **93c:60099**
Konsowa, Mokhtar H. Some criteria for the transience of simple random walks on trees. **93d:60112**
Kopylov, I. G. Some properties of a Markovian coupling. (Russian) **93f:60102**
Korshunov, D. A. *see* **Borovkov, A. A.; et al., 93f:60100**
Kowalska, Anna A new class of libraries. (English summary) **93i:60128**
Kozarovitskiĭ, E. L. Some conditions for the stability of Markov chains. (Russian) **93g:60142**
Krieger, Abba M. *see* **Benjamini, Yoav, 93m:60143**
Lapshin, A. L. Asymptotic properties of a random chain with aftereffect. (Russian) (*see* **93d:00034**)
Lee, Tzong-Yow (*with* Rémillard, Bruno) Occupation times in systems of null recurrent Markov processes. **93a:60095**
Lindqvist, Bo Henry *see* **Karlin, Samuel; et al., 93k:60168**
Littlejohn, R. P. Discrete minification processes and reversibility. **93a:60096**
— An operation which inverts Bernoulli multiplication and associated stationary reversible Markov processes. **93b:60143**
Liu, De Lin (*with* Cao, Xin; Sheng, Zhao Han) Nonergodicity and transience of a class of nonlinear time series models. (Chinese. English and Chinese summaries)
Liu, Wen An extension of a strong law of large numbers of Markov chains. **93b:60144**
Mălăncioiu, Odetta On the Markov chains with parameter. (English and Romanian summaries)
Marchal, William G. *see* **Harris, Carl M.; et al., (93i:60006)**
Marcus, Brian H. *see* **Algoet, Paul H., 93c:60097**
Meyn, Sean P. (*with* Tweedie, Richard L.) Stability of Markovian processes. I. Criteria for discrete-time chains. **93g:60143**
Northshield, S. Gauge and conditional gauge on negatively curved graphs. **93a:60097**
Palacios, José Luis Expected cover times of random walks on symmetric graphs. (English summary) **93g:60144**
Pemantle, Robin Vertex-reinforced random walk. **93b:60145**
Pflug, G. Ch. (*with* Schachermayer, W.) Coefficients of ergodicity for stochastically monotone Markov chains. (English summary) **93h:60108**
Picardello, Massimo A. (*with* Taibleson, Mitchell H.; Woess, Wolfgang) Harmonic functions on Cartesian products of trees with finite graphs. **93e:60136**
Pilarski, Sławomir (*with* Kameda, Tsunehiko) Simple bounds on the convergence rate of an ergodic Markov chain. (English summary) **93k:60169**
Pollett, P. K. (*with* Vassallo, A.) Diffusion approximations for some simple chemical reaction schemes. (English summary) **93m:60147**
Răuţu, Gh. *see* **Cohen, Joel E.; et al., 93m:60145**
Rębowski, R. Most random walks on nilpotent groups are mixing. (English summary) **93j:60094**
Rego, Vernon Naive asymptotics for hitting time bounds in Markov chains. (English summary) **93h:60109**
Rémillard, Bruno *see* **Lee, Tzong-Yow, 93a:60095**
Ruskai, Mary Beth *see* **Cohen, Joel E.; et al., 93m:60145**
Savel'ev, L. Ya. Runs in Markov sequences. (Russian) **93b:60146**
Schachermayer, W. *see* **Pflug, G. Ch., 93h:60108**
Seneta, Eugene *see* **Cohen, Joel E.; et al., 93m:60145**
Sheng, Zhao Han *see* **Liu, De Lin; et al.**
Sheu, Shuenn Jyi *see* **Huang, Ch'i Jui, 93f:60101**
Sin'kevich, D. V. (*with* Trush, N. N.) On the results of the computation of some moments of random characteristics of a homogeneous Markov chain for a multinomial scheme. (Russian. Russian summary) **93j:60095**
Sonin, I. M. An arbitrary nonhomogeneous Markov chain with a finite number of states decomposes into asymptotically noncommunicating components that have the mixing property. (Russian) **93d:60113**
Spieksma, Flos *see* **Hordijk, Arie, 93i:60126**
Taibleson, Mitchell H. *see* **Picardello, Massimo A.; et al., 93e:60136**
Taksar, Michael I. (*with* Grassmann, Winfried K.) Probabilistic approach to computational algorithms for finding stationary distributions of Markov chains. **93a:60098**
Tibbs, Richard W. *see* **Harris, Carl M.; et al., (93i:60006)**
Tkebuchava, R. S. *see* **Bratiichuk, N. S.**
Trieb, Gudrun A Pólya urn model and the coalescent. **93d:60114**
Trush, N. N. *see* **Sin'kevich, D. V., 93j:60095**
Tweedie, Richard L. *see* **Meyn, Sean P., 93g:60143**
Vassallo, A. *see* **Pollett, P. K., 93m:60147**
Wang, Yao Hung Approximating *k*th-order two-state Markov chains. (English summary) **93h:60110**
Woess, Wolfgang *see* **Picardello, Massimo A.; et al., 93e:60136**
Xie, Ying Chao Weak convergence of a sequence of Markov chains to a diffusion process. **93f:60103**
Yao, Yi-Ching *see* **Karlin, Samuel; et al., 93k:60168**
Younes, Laurent *see* **Frigessi, Arnoldo; et al., 93e:60133**
Zbăganu, Gh. *see* **Cohen, Joel E.; et al., 93m:60145**

Items with secondary classifications in 60J10

Accardi, Luigi (*with* Korolyuk, D. V.) Quantum Markov chains: the recurrence problem. **93h:81068**
Adke, S. R. (*with* Balakrishna, N.) Renewal counting process induced by a discrete Markov chain. (English summary) **93j:60123**
Athreya, K. B. (*with* Fuh, C. D.) Bootstrapping Markov chains: countable case. (English summary) **93j:62113**
Balakrishna, N. *see* **Adke, S. R., 93j:60123**
Ball, Keith Markov chains, Riesz transforms and Lipschitz maps. **93b:46025**
Barbour, A. D. (*with* Chen, Louis H. Y.; Loh, Wei-Liem) Compound Poisson approximation for nonnegative random variables via Stein's method. (English summary) **93k:60044**
Benjamini, Itai (*with* Peres, Yuval) A correlation inequality for tree-indexed Markov chains. **93g:60037**
Bisbas, A. (*with* Karanikas, C.) On the entropy of certain stochastic measures. (English summary) **93f:28007**
Borkar, Vivek S. Controlled Markov chains with constraints. (English summary) **93f:93137**
— (*with* Ghosh, Mrinal K.) Correction: "Ergodic and adaptive control of nearest-neighbor motions" [Math. Control Signals Systems **4** (1991), no. 1, 81–98; MR 92e:93026]. **93i:93072**
Boyle, Mike The stochastic shift equivalence conjecture is false. **93i:28013**
Catoni, Olivier Sharp large deviations estimates for simulated annealing algorithms. (French summary) **93c:60032**
— Applications of sharp large deviations estimates to optimal cooling schedules. (French summary) **93g:60057**
— Rates of convergence for sequential annealing: a large deviation approach. **93k:65006**
Chen, Louis H. Y. *see* **Barbour, A. D.; et al., 93k:60044**
Cowan, Richard *see* **Lam, Kin, 93c:68016**
Cummings, Peter T. *see* **Ford, Roseanne M., 93h:92018**
Daley, D. J. (*with* Servi, L. D.) Exploiting Markov chains to infer queue length from transactional data. **93i:60169**
Daubechies, Ingrid (*with* Lagarias, Jeffrey C.) Sets of matrices all infinite products of which converge. **93f:15006**
Denny, J. L. (*with* Wright, A. Larry) Inference about the shape of neighboring points in fields. (English summary) **93h:62155**
Edgar, G. A. (*with* Mauldin, R. Daniel) Multifractal decompositions of digraph recursive fractals. (English summary) **93h:28010**
Fayolle, G. (*with* Malyshev, V. A.; Men'shikov, M. V.) Random walks in a quarter plane with zero drifts. I. Ergodicity and null recurrence. (French summary) **93g:60149**
Ford, Roseanne M. (*with* Cummings, Peter T.) On the relationship between cell balance equations for chemotactic cell populations. (English summary) **93h:92018**
Fornasini, E. Asymptotic behaviour of 2D Markov chains. (English summary) **93j:93138**
Fuh, C. D. *see* **Athreya, K. B., 93j:62113**
Galambos, Janos The extension of Williams' method to the metric theory of general Oppenheim expansions. **93i:11093**
Ghosh, Mrinal K. *see* **Borkar, Vivek S., 93i:93072**
van Ginneken, L. P. P. P. *see* **Otten, R. H. J. M., 93h:90001**
Grassmann, Winfried K. Computational methods in probability theory. (*see* **93a:60001**)
Heinrich, Stefan (*with* Mathé, Peter) The Monte Carlo complexity of Fredholm integral equations. **93d:65007**
Hunter, Jeffrey J. A survey of generalized inverses and their use in applied probability. **93h:15006**
İnal, Ceyhan On the limiting distribution for Bernoulli trials within a Markov chain context. (English summary)
Iosifescu, Marius On *U*-statistics and von Mises statistics for a special class of Markov chains. **93h:60030**

Kaĭmanovich, V. A. (*with* Woess, Wolfgang) The Dirichlet problem at infinity for random walks on graphs with a strong isoperimetric inequality. **93e:60139**
Karanikas, C. *see* **Bisbas, A., 93f:28007**
Karr, Alan F. Markov processes. (*see* **93a:60001**)
Korolyuk, D. V. *see* **Accardi, Luigi, 93h:81068**
Kushner, Harold J. (*with* Martins, Luiz F.) A numerical method for stochastic singular control problems with nonadditive controls. **93e:93068**
Lagarias, Jeffrey C. *see* **Daubechies, Ingrid, 93f:15006**
Lam, Kin (*with* Cowan, Richard) Stochastic reversibility in self-organizing systems. **93c:68016**
Latouche, Guy A simple proof for the matrix-geometric theorem. (English summary) **93d:60156**
Liu, Jian Yong (*with* Liu, Ke) Markov decision programming—the first passage model with denumerable state space. (English summary) **93j:90125**
Liu, Ke *see* **Liu, Jian Yong, 93j:90125**
Loh, Wei-Liem *see* **Barbour, A. D.; et al., 93k:60044**
Maksimov, K. N. Limit distribution of the terms of the order statistics of runs in a Markov chain. (Russian. Russian summary) **93g:60052**
Malyshev, V. A. *see* **Fayolle, G.; et al., 93g:60149**
Marcus, Brian H. (*with* Tuncel, Selim) Matrices of polynomials, positivity, and finite equivalence of Markov chains. **93e:28022**
Martins, Luiz F. *see* **Kushner, Harold J., 93e:93068**
Mathé, Peter *see* **Heinrich, Stefan, 93d:65007**
Matthews, Keith R. Some Borel measures associated with the generalized Collatz mapping. (English summary) **93i:11090**
Mauldin, R. Daniel *see* **Edgar, G. A., 93h:28010**
Men'shikov, M. V. *see* **Fayolle, G.; et al., 93g:60149**
Narayana, Surya (*with* Neuts, Marcel F.) The first two moment matrices of the counts for the Markovian arrival process. (English summary) **93j:60145**
Neuts, Marcel F. *see* **Narayana, Surya, 93j:60145**
Novak, S. Yu. The rate of convergence in a problem on the maximum of the lengths of runs of "successes". (Russian) **93c:60026**
Otten, R. H. J. M. (*with* van Ginneken, L. P. P. P.) ★ The annealing algorithm. **93h:90001**
Parthasarathy, Kalyanapuram Rangachari Discrete time quantum stochastic flows, Markov chains and chaos expansions. **93c:46118**
— *see also* **Errata: "A generalized Biane process", 93i:81113**
Pellaumail, J. Décomposition de M-matrice et buffer d'un multiplexeur ATM. (English summary) [M-matrix decomposition and buffer of an ATM multiplexor] **93c:65060**
Peres, Yuval *see* **Benjamini, Itai, 93g:60037**
Picardello, Massimo A. (*with* Woess, Wolfgang) Examples of stable Martin boundaries of Markov chains. **93f:60115**
Piccioni, Mauro (*with* Regoli, Massimo) The geometry of attractors for a class of iterated function systems. (English summary) **93f:58139**
Pickard, D. K. *see* **Tory, E. M., 93i:60187**
Pincus, Steven M. Approximating Markov chains. **93c:58064**
Regoli, Massimo *see* **Piccioni, Mauro, 93f:58139**
Resnick, Sidney I. ★ Adventures in stochastic processes. **93m:60004**
Servi, L. D. *see* **Daley, D. J., 93i:60169**
Sinclair, Alistair ★ Algorithms for random generation and counting. (English. English summary) **93j:65011**
Stettner, Łukasz Invariant measures of the pair: state, approximate filtering process. **93a:60066**
Szpankowski, Wojciech Towards computable stability criteria for some multidimensional stochastic processes. **93c:60152**
Tory, E. M. (*with* Pickard, D. K.) Unilateral Gaussian fields. **93i:60187**
Tuncel, Selim *see* **Marcus, Brian H., 93e:28022**
Veretennikov, A. Yu. On large deviations for ergodic process empirical measures. **93m:60056**
Woess, Wolfgang *see* **Kaĭmanovich, V. A., 93e:60139** *and* **Picardello, Massimo A., 93f:60115**
Wright, A. Larry *see* **Denny, J. L., 93h:62155**

Items listed otherwise than by author

Errata:
"A generalized Biane process" Correction: "A generalized Biane process" [in *Séminaire de Probabilités, XXIV, 1988/89*, 345–348, Lecture Notes in Math., 1426, Springer, Berlin, 1990; MR 92a:81093] by K. R. Parthasarathy. (French) **93i:81113**

60J15 Random walks

Adler, André Accumulation points of a particular normalized random walk. (English summary) **93i:60129**
Aldous, David J. Applications of random walks on finite graphs. (English summary) **93g:60145**
— Random walk covering of some special trees. **93b:60147**
Asmussen, Søren Phase-type representations in random walk and queueing problems. **93c:60100**
Blom, Gunnar (*with* Sandell, Dennis) Cover times for random walks on graphs. (English summary) **93g:60146**
Boldrighini, C. (*with* Ignatyuk, I. A.; Malyshev, V. A.; Pellegrinotti, Alessandro) Random walk in dynamic environment with mutual influence. **93b:60148**
Bolthausen, Erwin On directed polymers in a random environment. **93g:60147**
Bondesson, Lennart A characterization of first passage time distributions for random walks. **93b:60149**
Borodin, A. N. On the convergence of functionals of random walks to the local times of Bessel processes. **93a:60099**
Boyd, J. N. (*with* Raychowdhury, P. N.) A biased random walk with symmetry.
Briozzo, Carlos B. (*with* Budde, Carlos E.; Osenda, Omar; Cáceres, Manuel O.) Exact and asymptotic properties of multistate random walks. **93c:60101**
Brydges, David (*with* Evans, Steven N.; Imbrie, John Z.) Self-avoiding walk on a hierarchical lattice in four dimensions. **93b:60150**
Budde, Carlos E. *see* **Briozzo, Carlos B.; et al., 93c:60101**
Buffet, E. (*with* Hannigan, P.) Directed random walks in random environments. **93b:60151**
Cáceres, Manuel O. *see* **Briozzo, Carlos B.; et al., 93c:60101**
Cartwright, Donald I. Singularities of the Green function of a random walk on a discrete group. **93e:60137**
— (*with* Soardi, Paolo M.; Woess, Wolfgang) Martin and end compactifications for non-locally finite graphs. **93j:60096**
Chang, Joseph T. On moments of the first ladder height of random walks with small drift. (English summary) **93i:60130**
Chen, An Yue (*with* Renshaw, Eric) The Gillis-Domb-Fisher correlated random walk. (English summary) **93m:60148**
Cheng, Benny N. Random walks in the plane.
Cohen, J. W. On the random walk with zero drifts in the first quadrant of $\mathbf{R}_2$. (English summary) **93i:60131**
Csáki, Endre A note on: "Three problems on the random walk in $\mathbf{Z}^d$" by P. Erdős and P. Révész [Studia Sci. Math. Hungar. **26** (1991), no. 2-3, 309–320; MR 93k:60171]. **93k:60172**
Devroye, Luc (*with* Sbihi, Amine) Inequalities for random walks on trees. **93e:60138**
Doney, R. A. (*with* Goldie, Charles M.) Letter to the editor: "Autoregressive processes and first-hit probabilities for randomized random walks" [J. Appl. Probab. **28** (1991), no. 2, 347–359; MR 93a:60100] by R. Epstein-Feldman. **93c:60102**
— (*with* Greenwood, P. E.) On the joint distribution of ladder variables of random walk. (English summary) **93k:60170**
Duong, Quang Phuc The distribution of the run length in CUSUM procedures. (English summary)
Eisenberg, Bennett A variation of a theorem of Sparre-Andersen. **93g:60148**
El-Shehawey, Mohamed A. Delayed random walk. (English summary) **93i:60132**
— Limit distribution of first hitting time of delayed random walk. (English summary)
Epstein-Feldman, Raisa Autoregressive processes and first-hit probabilities for randomized random walks. **93a:60100**
— *see also* **Doney, R. A., 93c:60102**
Erdős, Paul (*with* Révész, Pál) Three problems on the random walk in $\mathbf{Z}^d$. (English summary) **93k:60171**
— *see also* **Csáki, Endre, 93k:60172**
Evans, Steven N. *see* **Brydges, David; et al., 93b:60150**
Fayolle, G. (*with* Ignatyuk, I. A.; Malyshev, V. A.; Men'shikov, M. V.) Random walks in two-dimensional complexes. **93a:60101**
— (*with* Malyshev, V. A.; Men'shikov, M. V.) Random walks in a quarter plane with zero drifts. I. Ergodicity and null recurrence. (French summary) **93g:60149**
Ferrari, Pablo Augusto (*with* Martínez, Servet A.; Picco, Pierre) Some properties of quasi-stationary distributions in the birth and death chains: a dynamical approach. (English summary) **93h:60111**
— (*with* Martínez, Servet A.; Picco, Pierre) Existence of nontrivial quasi-stationary distributions in the birth-death chain. (English summary) **93i:60133**
Foong, See Kit First-passage time, maximum displacement, and Kac's solution of the telegrapher equation. (English summary)
Frolov, S. I. Poisson plans for random walks and the Kolmogorov-Smirnov criterion for goodness of fit. (Russian) (*see* **93b:60003**)
Fujita, Shigeji *see* **Godoy, S.**
Godoy, S. (*with* Fujita, Shigeji) Reflection principles for biased correlated walks. Simple applications. (English summary)
Goldie, Charles M. *see* **Doney, R. A., 93c:60102**
Greenwood, P. E. *see* **Doney, R. A., 93k:60170**
Griffin, Philip S. (*with* McConnell, Terry R.) On the position of a random walk at the time of first exit from a sphere. **93j:60097**
Hamana, Yuji On the central limit theorem for the multiple point range of random walk. (English summary) **93h:60112**
— The variance of the single point range of two-dimensional recurrent random walk. **93k:60173**
Hannigan, P. *see* **Buffet, E., 93b:60151**
Ignatyuk, I. A. *see* **Fayolle, G.; et al., 93a:60101** *and* **Boldrighini, C.; et al., 93b:60148**
Imbrie, John Z. *see* **Brydges, David; et al., 93b:60150**
Kabanovich, V. I. Reciprocal logarithmic time-dependence for a simple one-dimensional random walk. (English summary) **93f:60104**
Kaĭmanovich, V. A. Boundary and entropy of random walks in random environment. **93k:60174**
— (*with* Woess, Wolfgang) The Dirichlet problem at infinity for random walks on graphs with a strong isoperimetric inequality. **93e:60139**
Kalpazidou, Sofia Circulation distribution on groups. **93d:60115**
Katzenbeisser, Walter (*with* Panny, Wolfgang) On the number of times where a simple random walk reaches its maximum. **93b:60152**
— (*with* Panny, Wolfgang) Some further results on the height of lattice paths. (English summary) **93j:60098**
Keener, Robert W. Limit theorems for random walks conditioned to stay positive. **93g:60150**
Kesten, Harry (*with* Lawler, Gregory F.) A necessary condition for making money from fair games. **93e:60140**
Kim, Hyune-Ju Boundary crossing probabilities by nondifferentiable processes and applications to two-phase regression.
Konsowa, Mokhtar H. (*with* Mitro, Joanna) The type problem for random walks on trees. **93a:60102**
Kulldorff, Martin Optimal control of favorable games with a time limit. (English summary) **93m:60149**
Lawler, Gregory F. Intersection probabilities for random walks. **93f:60105**
— Estimates for differences and Harnack inequality for difference operators coming from random walks with symmetric, spatially inhomogeneous, increments. **93a:60103**
— *see also* **Kesten, Harry, 93e:60140**
Lētchikov, A. V. Random walks in a two-component recurrent environment. (Russian. Russian summary) (*see* **93m:00031**)
— Asymptotic properties that hold with probability 1 for one-dimensional random walks in

a random environment. (Russian) **93e:60141**
Liu, Kun Hui Some results on random walks. (Chinese) **93m:60150**
Lyons, Russell (*with* Pemantle, Robin) Random walk in a random environment and first-passage percolation on trees. **93c:60103**
— Random walks, capacity and percolation on trees. (English summary) **93k:60175**
Madras, Neal (*with* Schinazi, Rinaldo) Branching random walks on trees. (English summary) **93j:60099**
Malyshev, V. A. *see* **Fayolle, G.; et al., 93a:60101; Boldrighini, C.; et al., 93b:60148** *and* **Fayolle, G.; et al., 93g:60149**
Markvorsen, Steen (*with* McGuinness, Sean; Thomassen, Carsten) Transient random walks on graphs and metric spaces with applications to hyperbolic surfaces. **93e:60142**
Martínez, Servet A. *see* **Ferrari, Pablo Augusto; et al., 93h:60111** *and* **93i:60133**
McConnell, Terry R. *see* **Griffin, Philip S., 93j:60097**
McGuinness, Sean *see* **Markvorsen, Steen; et al., 93e:60142**
Men'shikov, M. V. *see* **Fayolle, G.; et al., 93a:60101** *and* **93g:60149**
Mitro, Joanna *see* **Konsowa, Mokhtar H., 93a:60102**
Northshield, S. Cogrowth of regular graphs. **93e:60143**
Osenda, Omar *see* **Briozzo, Carlos B.; et al., 93c:60101**
Palacios, José Luis A bound for the covering time of random walks on graphs. **93a:60104**
— Fluctuation theory for the Ehrenfest urn via electric networks. (English summary) **93k:60176**
Pang, M. M. H. Heat kernels of graphs. **93k:60177**
Panny, Wolfgang *see* **Katzenbeisser, Walter, 93b:60152** *and* **93j:60098**
Peigné, Marc Marches de Markov sur le semi-groupe des contractions de $\mathbf{R}^d$. Cas de la marche aléatoire à pas markoviens sur $(\mathbf{R}^+)^d$ avec chocs élastiques sur les axes. (English summary) [Markov walks on a contraction semigroup in $\mathbf{R}^d$. The case of a random walk with Markov steps in $(\mathbf{R}^+)^d$ with elastic collisions on the axes] **93f:60106**
Pellegrinotti, Alessandro *see* **Boldrighini, C.; et al., 93b:60148**
Pemantle, Robin *see* **Lyons, Russell, 93c:60103**
Picco, Pierre *see* **Ferrari, Pablo Augusto; et al., 93h:60111** *and* **93i:60133**
Piterbarg, V. I. On large jumps of a random walk. (Russian) **93a:60105**
Raychowdhury, P. N. *see* **Boyd, J. N.**
Renshaw, Eric *see* **Chen, An Yue, 93m:60148**
Révész, Pál *see* **Erdős, Paul, 93k:60171** *and* **Csáki, Endre, 93k:60172**
Saloff-Coste, Laurent Sobolev inequalities and polynomial decay of convolution powers and random walks. (*see* **92m:60006**)
Salvatori, Maura On the norms of group-invariant transition operators on graphs. (English summary) **93h:60113**
Sandell, Dennis *see* **Blom, Gunnar, 93g:60146**
Sbihi, Amine *see* **Devroye, Luc, 93e:60138**
Schinazi, Rinaldo *see* **Madras, Neal, 93j:60099**
Shapiro, Louis W. Random walks with absorbing points. (English summary) **93g:60151**
Shimura, Michio A limit theorem for two-dimensional random walk conditioned to stay in a cone. **93b:60153**
Shore, Terence R. (*with* Tyler, Douglas B.) Recurrence of simple random walk in the plane.
Shur, M. G. On harmonic functions of random walks on groups. **93c:60104**
— Absolutely continuously and singularly generated harmonic functions for random walks on groups. (Russian) **93e:60144**
Soardi, Paolo M. *see* **Cartwright, Donald I.; et al., 93j:60096**
Syski, R. Exit time from a positive quadrant for a two-dimensional Markov chain. (English summary) **93j:60100**
Takács, Lajos Random walk processes and their applications in order statistics. **93h:60114**
Thomassen, Carsten *see* **Markvorsen, Steen; et al., 93e:60142**
Tutakov, A. O. A limit theorem for random walks on the line with reflection at zero. (Russian. Russian summary) **93k:60178**
Tyler, Douglas B. *see* **Shore, Terence R.**
Woess, Wolfgang Behaviour at infinity and harmonic functions of random walks on graphs. **93g:60152**
— *see also* **Kaimanovich, V. A., 93e:60139** *and* **Cartwright, Donald I.; et al., 93j:60096**
Zhang, Yuan Lin Some problems on a one-dimensional correlated random walk with various types of barrier. **93b:60154**
Zhou, Xian Yin On the recurrence of simple random walks on some fractals. **93g:60153**
Zuckerman, David A technique for lower bounding the cover time. **93b:60155**

Items with secondary classifications in 60J15

Amir, Madjid Sticky Brownian motion as the strong limit of a sequence of random walks. **93a:60120**
Baker, B. Mitchell (*with* Handelman, David) Positive polynomials and time dependent integer-valued random variables. **93f:60037**
Biane, Philippe Quantum random walk on the dual of SU(n). **93a:46119**
Blanchard, Philippe (*with* Combe, Ph.; Nencka, H.; Rodriguez, Roger) Stochastic dynamical aspects of neuronal activity. (English summary) **93j:92010**
Bramson, Maury D. (*with* Griffeath, David) Capture problems for coupled random walks. **93e:60192**
Bratiichuk, N. S. (*with* Tkebuchava, R. S.) Local limit theorems for integer random walks on a countable Markov chain. (Russian. Russian summary)
Bricmont, J. (*with* Kupiainen, Antti) Random walks in asymmetric random environments. **93d:82045**
Combe, Ph. *see* **Blanchard, Philippe; et al., 93j:92010**
Csáki, Endre On the increments of additive functionals. **93i:60039**
— (*with* Csörgő, Miklós; Földes, Antónia; Révész, Pál) Strong approximation of additive functionals. (English summary) **93k:60073**
Csörgő, Miklós *see* **Csáki, Endre; et al., 93k:60073**
Dayan, Ido (*with* Gitterman, Moshe; Weiss, George H.) On the entropy of a class of constrained random walks. **93g:82048**
Diaconis, Persi Finite Fourier methods: access to tools. **93a:60014**
Di Crescenzo, A. (*with* Giorno, Virginia; Nobile, Amelia G.) On some first-crossing-time probabilities for a two-dimensional random walk with correlated components. **93g:60016**
Duplantier, Bertrand (*with* Lawler, Gregory F.; Le Gall, Jean-François; Lyons, T. J.) The geometry of the Brownian curve. (English and French summaries) **93k:60205**
Durrett, Richard (*with* Kesten, Harry; Lawler, Gregory F.) Making money from fair games. **93a:60075**
Endo, Kunio *see* **Obata, Tsunehiro; et al., 93b:82039**
Essam, J. W. *see* **Zhao, Dongming; et al., 93j:82077**
Filk, Thomas Noncommutative random walks. **93d:82046**
Földes, Antónia *see* **Csáki, Endre; et al., 93k:60073**
Giorno, Virginia *see* **Di Crescenzo, A.; et al., 93g:60016**
Gitterman, Moshe *see* **Dayan, Ido; et al., 93g:82048**
Glover, Joseph (*with* Rao, Murali) Potential densities of symmetric Lévy processes. **93g:60161**
Golowich, Steven (*with* Imbrie, John Z.) A new approach to the long-time behavior of self-avoiding random walks. **93h:82025**
Griffeath, David *see* **Bramson, Maury D., 93e:60192**
Grübel, Rudolf (*with* Pitts, Susan M.) A functional approach to the stationary waiting time and idle period distributions of the $GI/G/1$ queue. (English summary) **93k:60226**
(Handa, B. R.) *see* **Saran, Jagdish, 93d:62095**
Handelman, David *see* **Baker, B. Mitchell, 93f:60037**
Hara, Hiroaki *see* **Obata, Tsunehiro; et al., 93b:82039**
Hara, Takashi (*with* Slade, Gordon) Self-avoiding walk in five or more dimensions. I. The critical behaviour. **93j:82032**
— (*with* Slade, Gordon) The lace expansion for self-avoiding walk in five or more dimensions. **93j:82033**
Hattori, Tetsuya (*with* Kusuoka, Shigeo) The exponent for the mean square displacement of self-avoiding random walk on the Sierpiński gasket. (English summary) **93m:60199**
den Hollander, Frank (*with* Naudts, J.; Scheunders, P.) A long-time tail for random walk in random scenery. **93f:82028**
— (*with* Shuler, Kurt E.) Random walks in a random field of decaying traps. **93f:82048**
— (*with* Naudts, J.; Redig, Frank) Long-time tails in a random diffusion model. (English summary) **93k:82056**
Imbrie, John Z. *see* **Golowich, Steven, 93h:82025**
Iwanik, Anzelm (*with* Rębowski, R.) Structure of mixing and category of complete mixing for stochastic operators. **93g:47009**
Kersting, Götz Asymptotic Γ-distribution for stochastic difference equations. **93d:60033**
Kesten, Harry *see* **Durrett, Richard; et al., 93a:60075**
Khoshnevisan, Davar Local asymptotic laws for the Brownian convex hull. (English summary) **93k:60096**
Konsowa, Mokhtar H. Effective resistance and random walks on finite graphs. (English and Arabic summaries)
Kupiainen, Antti *see* **Bricmont, J., 93d:82045**
Kusuoka, Shigeo *see* **Hattori, Tetsuya, 93m:60199**
Lalley, Steven P. Saddle-point approximations and space-time Martin boundary for nearest-neighbor random walk on a homogeneous tree. **93f:60114**
Lawler, Gregory F. *see* **Durrett, Richard; et al., 93a:60075** *and* **Duplantier, Bertrand; et al., 93k:60205**
Le Gall, Jean-François *see* **Duplantier, Bertrand; et al., 93k:60205**
Lo, Chi-Chang (*with* Mukherjea, Arunava) Convergence in distribution of products of $d \times d$ random matrices. **93b:60022**
Lookman, Turab *see* **Zhao, Dongming; et al., 93i:82043** *and* **93j:82077**
Lyons, T. J. *see* **Duplantier, Bertrand; et al., 93k:60205**
Madras, Neal Bounds on the critical exponent of self-avoiding polygons. **93a:82027**
Masoliver, Jaume (*with* Porrà, Josep M.; Weiss, George H.) The continuum limit of a two-dimensional persistent random walk. **93i:82063**
Mohanty, S. G. (*with* Panny, Wolfgang) A discrete-time analogue of the $M/M/1$ queue and the transient solution: a geometric approach. (English summary) **93f:60146**
— *see also* **Saran, Jagdish, 93d:62095**
Mukherjea, Arunava Recurrent random walks in nonnegative matrices: attractors of certain iterated function systems. **93e:60024**
— *see also* **Lo, Chi-Chang, 93b:60022**
Naudts, J. *see* **den Hollander, Frank; et al., 93f:82028** *and* **93k:82056**
Nechaev, S. K. (*with* Sinai, Ya. G.) Limiting-type theorem for conditional distributions of products of independent unimodular 2×2 matrices. **93d:60035**
Nencka, H. *see* **Blanchard, Philippe; et al., 93j:92010**
Nobile, Amelia G. *see* **Di Crescenzo, A.; et al., 93g:60016**
Obata, Tsunehiro (*with* Hara, Hiroaki; Endo, Kunio) Differential geometry of nonequilibrium processes. **93b:82039**
Panny, Wolfgang *see* **Mohanty, S. G., 93f:60146**
Pap, Gyula A new proof of the central limit theorem on stratified Lie groups. **93m:60047**
— Rate of convergence in CLT on stratified groups. **93b:60024**
Picardello, Massimo A. (*with* Sjögren, Peter) Boundary behaviour of eigenfunctions of the Laplacian in a bi-tree. **93i:31005**
Pitts, Susan M. *see* **Grübel, Rudolf, 93k:60226**
Porrà, Josep M. *see* **Masoliver, Jaume; et al., 93i:82063**
Pytlik, Tadeusz Harmonic functions and Hardy spaces on trees with boundaries. **93k:31007**
Rao, Murali *see* **Glover, Joseph, 93g:60161**
Rębowski, R. *see* **Iwanik, Anzelm, 93g:47009**
Redig, Frank *see* **den Hollander, Frank; et al., 93k:82056**
Révész, Pál *see* **Csáki, Endre; et al., 93k:60073**
Rochberg, Richard (*with* Taibleson, Mitchell H.) Factorization of the Green's operator and weak-type estimates for a random walk on a tree. **93f:31011**
Rodriguez, Roger *see* **Blanchard, Philippe; et al., 93j:92010**
Saran, Jagdish Correction to a result of S. G. Mohanty and B. R. Handa on a generalized random walk: "Rank order statistics related to a generalized random walk" [Studia Sci. Math. Hungar. **5** (1970), 267–276; MR 45 #4554]. **93d:62095**
Scheunders, P. *see* **den Hollander, Frank; et al., 93f:82028**
Shuler, Kurt E. *see* **den Hollander, Frank, 93f:82048**
Sinai, Ya. G. Distribution of some functionals of the integral of a random walk. (Russian. English and Russian summaries) **93j:60116**
— *see also* **Nechaev, S. K., 93d:60035**
Sjögren, Peter *see* **Picardello, Massimo A., 93i:31005**
Slade, Gordon *see* **Hara, Takashi, 93j:82032** *and* **93j:82033**

Soardi, Paolo M. Parabolic networks and polynomial growth. **93g:94017**
— Bernstein polynomials and random walks on hypergroups. **93g:43004**
Solntsev, S. A. On strong relative stability of linearly transformed random walk. (*see* **93k:60008**)
Sun, Tao (*with* Yang, Zhong Jin) How far can a random walker go? **93e:82027**
Taibleson, Mitchell H. *see* **Rochberg, Richard**, 93f:31011
Taylor, Howard M. Martingales and random walks. (*see* **93a:60001**)
Tkebuchava, R. S. *see* **Bratiichuk, N. S.**
Voit, Michael Strong laws of large numbers for random walks associated with a class of one-dimensional convolution structures. **93h:60014**
Weiss, George H. *see* **Dayan, Ido; et al.**, 93g:82048 *and* **Masoliver, Jaume; et al.**, 93i:82063
Wen, Zhi Xiong (*with* Wen, Zhi Ying) Marches sur les arbres homogènes suivant une suite substitutive. (French summary) [Walks on homogeneous trees following a substitution sequence] **93m:11023**
Wen, Zhi Ying *see* **Wen, Zhi Xiong**, 93m:11023
Wu, Yanan *see* **Zhao, Dongming; et al.**, 93i:82043
Yang, Zhong Jin *see* **Sun, Tao**, 93e:82027
Zhao, Dongming (*with* Wu, Yanan; Lookman, Turab) On the critical exponent ν for c-animals. (English summary) **93i:82043**
— (*with* Lookman, Turab; Essam, J. W.) Exact results for fully directed polymer networks in two dimensions. (English summary) **93j:82077**
Zhao, Zhong Xin Subcriticality and gaugeability of the Schrödinger operator. **93a:81041**

60J20 Applications of discrete Markov processes (social mobility, learning theory, industrial processes, etc.) [see also 90B30, 92H10, 92H35, 92J40]

Gates, D. J. (*with* Westcott, Mark) Markov models of steady crystal growth. (English summary) **93m:60151**
Gerontidis, Ioannis I. Cyclic strong ergodicity in nonhomogeneous Markov systems. **93b:60156**
Westcott, Mark *see* **Gates, D. J.**, 93m:60151

Items with secondary classifications in 60J20

Ball, Frank (*with* O'Neill, Philip) A modification of the general stochastic epidemic motivated by AIDS modelling. (English summary) **93j:92028**
Berger, Marc A. Random affine iterated function systems: curve generation and wavelets. (English summary) **93g:58069**
Chao, Min Te (*with* Fu, James C.) The reliability of a large series system under Markov structure. **93a:90025**
Choi, Bong Dae (*with* Han, Dong Hwan; Falin, G. I.) On the virtual waiting time for an $M/G/1$ retrial queue with two types of calls. (English summary) **93m:60180**
Conlisk, John Stability and monotonicity for interactive Markov chains. (English summary) **93k:60166**
Falin, G. I. *see* **Choi, Bong Dae; et al.**, 93m:60180
Frieze, A. M. (*with* Suen, Stephen) Counting the number of Hamilton cycles in random digraphs. **93f:05088**
Fu, James C. *see* **Chao, Min Te**, 93a:90025
Han, Dong Hwan *see* **Choi, Bong Dae; et al.**, 93m:60180
Jäger, Eva (*with* Segel, Lee A.) On the distribution of dominance in populations of social organisms. (English summary) **93h:92039**
Ledermann, W. (*with* Vajda, Steven) On a problem in population structure. **93f:15017**
Louchard, G. (*with* Randrianarimanana, B.; Schott, René) Dynamic algorithms in D. E. Knuth's model: a probabilistic analysis. **93k:68048**
Mihail, Milena (*with* Winkler, Peter M.) On the number of Eulerian orientations of a graph. **93f:05059**
Møller, Christian Max Select mortality and other durational effects modelled by partially observed Markov chains. **93b:62137**
O'Neill, Philip *see* **Ball, Frank**, 93j:92028
Randrianarimanana, B. *see* **Louchard, G.; et al.**, 93k:68048
Schlesinger, E. Infinite networks and Markov chains. (Italian summary) **93m:94051**
Schott, René *see* **Louchard, G.; et al.**, 93k:68048
Segel, Lee A. *see* **Jäger, Eva**, 93h:92039
Suen, Stephen *see* **Frieze, A. M.**, 93f:05088
Tsaklidis, G. (*with* Vassiliou, P.-C. G.) Periodicity of infinite products of matrices with some negative elements and row sums equal to one. (English summary) **93i:15031**
Vajda, Steven *see* **Ledermann, W.**, 93f:15017
Vassiliou, P.-C. G. *see* **Tsaklidis, G.**, 93i:15031
Winkler, Peter M. *see* **Mihail, Milena**, 93f:05059

60J25 Markov processes with continuous parameter

Adekola, O. A. Asymptotic posterior normality for stochastic processes: a nonergodic example. **93b:60157**
Alimov, D. Some remarks on "artificial" regeneration. (Russian. Russian summary) **93k:60179**
— A remark on limit distributions of integral functionals of an ergodic Markov process. (Russian. Ukrainian summary) **93b:60158**
— Convergence of integral functionals of limit-degenerate Markov functionals. (Russian. English and Russian summaries) **93g:60154**
— Transformations of Markovian functionals. (Russian. Russian and Ukrainian summaries) **93g:60155**
— Three examples of Markovian functionals. (Russian. Russian and Ukrainian summaries) **93j:60101**
Asmussen, Søren On coupling and weak convergence to stationarity. (English summary) **93k:60180**
Blumenthal, Robert M. ★ Excursions of Markov processes. **93b:60159**
van Casteren, Jan A. W. On martingales and Feller semigroups. **93h:60115**
Chen, Mu Fa On coupling of jump processes. **93g:60156**
Dai, Yong Long The maximal oscillation problem for p-functions. (Chinese. English and Chinese summaries) **93k:60181**
Dubins, L. E. (*with* Emery, M.; Yor, Marc) A continuous martingale in the plane that may spiral away to infinity. (English summary) **93i:60134**
Emery, M. *see* **Dubins, L. E.; et al.**, 93i:60134
Engelbert, H. J. (*with* Schmidt, Wolfgang Michael) Continuous local martingales: strong Markov property, solutions of stochastic equations, and the interplay between them. **93i:60135**
Glover, Joseph Markov functions. (French summary) **93a:60106**
Gong, Guang Lu *see* **Qian, Min Ping; et al.**, 93a:60108
He, Xiang Min The Markov properties of two-parameter Feller processes and solutions to stochastic differential equations. (Chinese. English summary) **93g:60157**
Huang, Chang Quan Relations between Markov properties of two-parameter processes. (Chinese. English and Chinese summaries)
Kisyński, Jan Local uniqueness of Feller processes with integrodifferential generators. (English summary) (*see* **93d:93009**)
Kwon, Youngmee Uniqueness for the martingale problem with discontinuous coefficient. **93k:60182**
Lee, Mei Ling Ting (*with* Whitmore, G. Alex) Stochastic processes directed by randomized time. (English summary) **93k:60183**
Liao, Ming Symmetry groups of Markov processes. **93a:60107**
Liu, Lu Qin The Hausdorff dimensions of the image, graph and level sets of a self-similar process. **93j:60102**
Mann, J. Adin, Jr. *see* **Pittel, Boris; et al.**, 93c:60105
Massey, William A. Stochastic ordering for Markov processes on partially ordered spaces with applications to queueing networks. (English summary) **93h:60116**
McGill, Paul On the structure of a transition kernel. (*see* **93c:81005**)
Pietruska-Pałuba, Katarzyna The Lifschitz singularity for the density of states on the Sierpiński gasket. **93d:60116**
Pinsky, Mark A. ★ Lectures on random evolution. **93b:60160**
Pittel, Boris (*with* Woyczyński, W. A.; Mann, J. Adin, Jr.) Correction: "Random tree-type partitions as a model for acyclic polymerization: Holtsmark (3/2-stable) distribution of the supercritical gel" [Ann. Probab. **18** (1990), no. 1, 319–341; MR 91f:60122]. **93c:60105**
Postan, M. Ya. A class of mixed Markov processes and their application in teletraffic theory. (Russian. Russian summary) **93j:60103**
Qian, Min *see* **Qian, Min Ping; et al.**, 93a:60108
Qian, Min Ping (*with* Qian, Min; Gong, Guang Lu) The reversibility and the entropy production of Markov processes. **93a:60108**
Schmidt, Wolfgang Michael *see* **Engelbert, H. J.**, 93i:60135
Shih, C. T. Construction of Markov processes from hitting distributions without quasi-left-continuity. **93k:60184**
Tomisaki, Matsuyo Homogenization of càdlàg processes. **93e:60145**
Tribe, Roger The behavior of superprocesses near extinction. **93b:60161**
Vuolle-Apiala, Juha Excursion theory for rotation invariant Markov processes. (English summary) **93k:60185**
Whitmore, G. Alex *see* **Lee, Mei Ling Ting**, 93k:60183
Woyczyński, W. A. *see* **Pittel, Boris; et al.**, 93c:60105
Wu, Li Ming Grandes déviations pour les processus de Markov essentiellement irréductibles. II. Temps continu. (English summary) [Large deviations for essentially irreducible Markov processes. II. Continuous-time case] **93f:60107**
Ycart, Bernard Markov processes and exponential families. **93m:60152**
Yor, Marc *see* **Dubins, L. E.; et al.**, 93i:60134
Zheng, Xiao Gu Ergodic theorems for stress release processes. **93f:60108**
Zhou, Jian Wei[2] The two-parameter regular Markov processes and processes with independent increments. (English and Chinese summaries) **93k:60186**

Items with secondary classifications in 60J25

Alchekov, A. K. Stability of impulse action in an asymptotic phase consolidation scheme. (Russian. Russian summary) (*see* **93e:60002**)
Arnold, Barry C. Logistic and semi-logistic processes. **93e:60099**
Arnold, Ludwig (*with* Crauel, Hans) Random dynamical systems. **93m:60116**
Buffet, E. (*with* Hannigan, P.) Directed random walks in random environments. **93b:60151**
Ceci, Claudia (*with* Mazliak, Laurent) Une propriété forte de branchements. (English and French summaries) [A strong branching property] **93i:60070**
Chen, Mu Fa (*with* Huang, Li Ping[2]; Xu, Xian Jin) Continuum limit for reaction diffusion processes with several species. (English summary) **93i:60183**
Chen, Zhen Qing On reflected Dirichlet spaces. (English summary) **93m:31014**
Crauel, Hans *see* **Arnold, Ludwig**, 93m:60116
Dai Pra, P. Space-time large deviations for interacting particle systems. (English summary) **93k:60233**
Dalang, Robert C. (*with* Walsh, John B.) The sharp Markov property of the Brownian sheet and related processes. **93f:60068**
Dão Quang Tuyên *see* **Erdős, L.**, 93d:82058
Erdős, L. (*with* Dão Quang Tuyên) Central limit theorems for the one-dimensional Rayleigh gas with semipermeable barriers. **93d:82058**
Evans, Steven N. The entrance space of a measure-valued Markov branching process conditioned on nonextinction. **93j:60110**
Fitzsimmons, P. J. Skorokhod embedding by randomized hitting times. **93d:60120**
Foley, R. D. (*with* Klutke, Georgia-Ann; König, Dieter) Stationary increments of accumulation processes in queues and generalized semi-Markov schemes. **93b:60212**
Ghosh, Mrinal K. (*with* Marcus, Steven I.) Infinite horizon controlled diffusion problems with some nonstandard criteria. **93a:93114**
Gudynas, Pranas P. Refinements of the central limit theorem for homogeneous Markov chains. (Russian) **93f:60027**
Hannigan, P. *see* **Buffet, E.**, 93b:60151
Hoh, Walter (*with* Jacob, Niels) Some Dirichlet forms generated by pseudo differential operators. (English and French summaries) **93m:47060**
Huang, Li Ping[2] *see* **Chen, Mu Fa; et al.**, 93i:60183

Huang, Wèn Chang On the characterization of point processes with the exchangeable and Markov properties. (English summary) **93d:60086**
Ivković, Zoran A. One case of reduction of nonlinear regression to linear. (English summary) **93k:62130**
Jacob, Niels *see* **Hoh, Walter, 93m:47060**
Jacod, Jean (*with* Protter, Philip) Une remarque sur les équations différentielles stochastiques à solutions markoviennes. [A remark on stochastic differential equations with Markov solutions] **93m:60133**
Jefferies, Brian Processes associated with evolution equations. **93b:47140**
Karr, Alan F. Markov processes. (*see* **93a:60001**)
Katori, Makoto *see* **Konno, Norio, 93g:82072**
Kemp, Adrienne W. Steady-state Markov chain models for the Heine and Euler distributions. (English summary) **93h:60107**
Kirichinskaya, I. B. Glueing together of two semicontinuous processes with independent increments. (Russian. Ukrainian summary) **93c:60108**
Klutke, Georgia-Ann *see* **Foley, R. D.; et al., 93b:60212**
Knight, Frank B. Regular, stationary Gaussian processes with the Markov property of infinite order, and diffusive filtrations. **93e:60076**
— Forms of inclusion between processes. **93i:60069**
Kõnig, Dieter *see* **Foley, R. D.; et al., 93b:60212**
Konno, Norio (*with* Katori, Makoto) Upper bounds for order parameters of a class of attractive nearest-particle systems with finite ranges. **93g:82072**
Lewicki, Paweł Non-Markovian fluctuation limits of infinite particle systems. **93d:60071**
Luo, Shou Jun Gaussian random fields and symmetric Q-processes. (English summary) **93k:60125**
Marcus, Michael B. (*with* Rosen, Jay) Sample path properties of the local times of strongly symmetric Markov processes via Gaussian processes. (English summary) **93k:60089**
— (*with* Rosen, Jay) Moduli of continuity of local times of strongly symmetric Markov processes via Gaussian processes. (English summary) **93k:60090**
Marcus, Steven I. *see* **Ghosh, Mrinal K., 93a:93114**
Mazliak, Laurent *see* **Ceci, Claudia, 93i:60070**
Mikulevičius, Remigius (*with* Pragarauskas, H.) On the martingale problem associated with integro-differential operators. **93a:60071**
Mohari, Anilesh Quantum stochastic differential equations with unbounded coefficients and dilations of Feller's minimal solution. (English summary) **93m:81083**
Muraoka, Hiroshi Equivalence problems for Gaussian multiple Markov processes and their canonical representations. (English summary) **93m:60079**
Pragarauskas, H. *see* **Mikulevičius, Remigius, 93a:60071**
Protter, Philip *see* **Jacod, Jean, 93m:60133**
Röckner, Michael (*with* Zhang, Tu Sheng) Decomposition of Dirichlet processes on Hilbert space. **93f:60074**
Rosen, Jay Renormalization and limit theorems for self-intersections of superprocesses. (English summary) **93h:60034**
— *see also* **Marcus, Michael B., 93k:60089** *and* **93k:60090**
Roux, Daniel Analyse multi-échelle d'un processus gaussien markovien au voisinage d'une singularité. (English and French summaries) [Multiscale analysis of a Markov Gaussian process around a singularity] **93i:60076**
Salminen, Paavo Cutting Markovian trees. **93e:60173**
Stroock, Daniel W. (*with* Zegarliński, Bogusław) The equivalence of the logarithmic Sobolev inequality and the Dobrushin-Shlosman mixing condition. **93b:82005**
Sundar, P. Time reversal of solutions of equations driven by Lévy processes. (English summary) **93j:60081**
Taira, Kazuaki On the existence of Feller semigroups with boundary conditions. **93f:47050**
Veretennikov, A. Yu. Estimates for the mixing rate for Markov processes. (Russian. English and Lithuanian summaries) **93g:60139**
Walsh, John B. *see* **Dalang, Robert C., 93f:60068**
Xiao, Yi Min Multiple points of fractional Brownian motion and Hausdorff dimension. (Chinese) **93b:60186**
Xu, Ming Yue Decomposition theorems for the Banach space $L(\varepsilon)$ and the Banach algebra $\tilde{A}$. (Chinese. English and Chinese summaries)
Xu, Xian Jin *see* **Chen, Mu Fa; et al., 93i:60183**
Yor, Marc Étude asymptotique des nombres de tours de plusieurs mouvements browniens complexes corrélés. [Asymptotic study of the number of windings of several correlated complex Brownian motions] **93c:60126**
Zegarliński, Bogusław *see* **Stroock, Daniel W., 93b:82005**
Zhang, Tu Sheng *see* **Röckner, Michael, 93f:60074**
Zheng, Yao Hui The new better than used in convex ordering properties of increasing Markov processes. (Chinese. English and Chinese summaries)

60J27 Markov chains with continuous parameter

Chen, An Yue (*with* Zhang, Han Jun) The existence problem for reversible Q-processes with a single instantaneous state. (Chinese. English and Chinese summaries) **93k:60187**
— (*with* Renshaw, Eric) Existence and uniqueness criteria for conservative uni-instantaneous denumerable Markov processes. (English summary) **93m:60153**
Chen, Mu Fa On three classical problems for Markov chains with continuous time parameters. **93a:60109a**
— Acknowledgement: "On three classical problems for Markov chains with continuous time parameters". **93a:60109b**
Chou, Yün Hsiung (*with* Hsieh, Chung) On occupation times of annealing processes. **93m:60154**
Dai, Yong Long The maximal value problem for p-functions. (Chinese. English and Chinese summaries)
van Dijk, Nico M. Approximate uniformization for continuous-time Markov chains with an application to performability analysis. **93b:60162**
Fei, Zhi Ling A criterion for uniqueness of honest Q-processes with only one instantaneous state. (Chinese. English and Chinese summaries)
Fill, James Allen Time to stationarity for a continuous-time Markov chain. (English summary) **93h:60117**
— Strong stationary duality for continuous-time Markov chains. I. Theory. **93b:60163**
Fitzsimmons, P. J. On the martingale problem for measure-valued Markov branching processes. **93k:60188**
Flournoy, Nancy Bivariate Markov chains containing a failure process. (English summary) **93g:60158**
Haario, Heikki (*with* Saksman, Eero) Simulated annealing process in general state space. **93e:60146**
Hawkes, Alan G. *see* **Jalali, Assad, 93b:60164**
Hsieh, Chung *see* **Chou, Yün Hsiung, 93m:60154**
Jalali, Assad (*with* Hawkes, Alan G.) Generalised eigenproblems arising in aggregated Markov processes allowing for time interval omission. **93b:60164**
Kalpazidou, Sofia Continuous parameter circuit processes with finite state space. **93d:60117**
— Circuit processes and the corresponding one-parameter semigroup of weight operators. **93c:60106**
— On Kendall's conjecture concerning 0^+-equivalence of Markov transition functions: the circuit processes case. **93m:60155**
Kinash, O. M. Asymptotic behavior of the transition probability of a homogeneous Markov process with a finite number of states in a scheme of arrays. (Russian. Russian and Ukrainian summaries) **93g:60159**
Kinash, S. M. Transition phenomena for Markov processes with a finite number of states. (Russian. Russian summary) **93k:60189**
Kosyk, Andrzej Prospective Kolmogorov differential equations for discrete processes and their applications. **93j:60104**
Liu, Shao Yue (*with* Yang, Xiang Qun) Differential properties of standard three-point transition functions for two-parameter Markov chains. (Chinese. English and Chinese summaries)
Liu, Zai Ming A note on uniqueness of honest Q-processes with stable initial states and infinite instantaneous states. (Chinese) **93e:60147**
— *see also* **Zou, Jie Zhong, 93k:60190**
Mandl, Petr Tracking of transition rates in Markov processes. **93b:60165**
Pollett, P. K. On the construction problem for single-exit Markov chains. **93a:60110**
Renshaw, Eric *see* **Chen, An Yue, 93m:60153**
Saksman, Eero *see* **Haario, Heikki, 93e:60146**
Xiao, Guo Neng Discrete skeletons of third-order potential Markov processes. (Chinese. English and Chinese summaries) **93i:60136**
Yang, Xiang Qun *see* **Liu, Shao Yue**
Zeifman, A. I. Stability of nonhomogeneous Markov chains with continuous time. (Russian) **93f:60109**
— Uniform quasi-ergodicity and stability of inhomogeneous continuous-time Markov chains. **93g:60160**
Zhang, Han Jun *see* **Chen, An Yue, 93k:60187**
Zou, Jie Zhong (*with* Liu, Zai Ming) A class of Q-matrices with instantaneous states. (Chinese. English and Chinese summaries) **93k:60190**

Items with secondary classifications in 60J27

Baxter, Martin (*with* Williams, David) Symmetry characterizations of certain distributions. II. Discounted additive functionals and large deviations. **93h:60120**
Brown, Mark Spectral analysis, without eigenvectors, for Markov chains. (English summary) **93m:60144**
Catoni, Olivier (*with* Trouvé, Alain) Parallel annealing by multiple trials: a mathematical study. **93j:65006**
Chen, Mu Fa Uniqueness of reaction diffusion processes. **93b:60170**
Csenki, Attila The joint distribution of sojourn times in finite semi-Markov processes. **93g:60188**
van Doorn, Erik A. Quasi-stationary distributions and convergence to quasi-stationarity of birth-death processes. **93b:60192**
Hanschke, Thomas Markov chains and generalized continued fractions. (English summary) **93i:60125**
Henderson, W. (*with* Pearce, C. E. M.; Pollett, P. K.; Taylor, P. G.) Connecting internally balanced quasi-reversible Markov processes. (English summary) **93m:60186**
Hornik, K. On some large deviation probabilities for finite Markov processes. (English summary) **93h:60041**
Mohari, Anilesh (*with* Sinha, Kalyan B.) Quantum stochastic flows with infinite degrees of freedom and countable state Markov processes. (English summary) **93i:81112**
Pearce, C. E. M. *see* **Henderson, W.; et al., 93m:60186**
Piekarski, Sławomir *see* **Trzęsowski, Andrzej, 93m:82035**
Pollett, P. K. *see* **Henderson, W.; et al., 93m:60186**
Resnick, Sidney I. ★ Adventures in stochastic processes. **93m:60004**
Sinha, Kalyan B. *see* **Mohari, Anilesh, 93i:81112**
Syski, R. Exit time from a positive quadrant for a two-dimensional Markov chain. (English summary) **93j:60100**
Taylor, P. G. *see* **Henderson, W.; et al., 93m:60186**
Trouvé, Alain Massive parallelization of simulated annealing: a mathematical study. **93j:65007**
— *see also* **Catoni, Olivier, 93j:65006**
Trzęsowski, Andrzej (*with* Piekarski, Sławomir) Markovian description of irreversible processes and the time randomization. (English summary) **93m:82035**
Williams, David *see* **Baxter, Martin, 93h:60120**

60J30 Processes with independent increments

Aleškevičienė, Aldona On the maximum of sums of random variables and the supremum for stable processes. **93e:60148**
Alimov, D. Semicontinuous processes with independent increments with a boundary and with a "fractional-linear" time change. (Russian) **93c:60107**
Bertoin, Jean Increase of a Lévy process with no positive jumps. **93e:60149**
— An extension of Pitman's theorem for spectrally positive Lévy processes. (English summary) **93k:60191**
— Factorizing Laplace exponents in a spectrally positive Lévy process. (English summary) **93h:60118**

Bloznelis, M. On the distribution of the sup-norm for a stable motion and the rate of convergence. (English summary) **93h:60119**
Doney, R. A. Hitting probabilities for spectrally positive Lévy processes. **93b:60166**
Fitzsimmons, P. J. (*with* Getoor, R. K.) Limit theorems and variation properties for fractional derivatives of the local time of a stable process. (French summary) **93j:60105**
Fristedt, Bert E. (*with* Taylor, Samuel James) The packing measure of a general subordinator. **93e:60150**
Getoor, R. K. *see* **Fitzsimmons, P. J., 93j:60105**
Glasserman, Paul Processes with associated increments. **93k:60192**
Glover, Joseph (*with* Rao, Murali) Potential densities of symmetric Lévy processes. **93g:60161**
Gusak, D. V. (*with* Korkuna, O. P.) Distribution of the maximum of oscillating semicontinuous processes with independent increments. (Russian. Russian summary) **93j:60106**
Hsieh, Nan Jui Multiple points of sample paths of Markov processes. **93e:60151**
Inoue, Kazuyuki (*with* Takeda, Hiroshi) An elementary construction of processes with independent increments. **93a:60111**
Kirichinskaya, I. B. Continuation of semicontinuous processes with independent increments. (Russian. Ukrainian summary) **93b:60167**
— Glueing together of two semicontinuous processes with independent increments. (Russian. Ukrainian summary) **93c:60108**
Korkuna, O. P. *see* **Gusak, D. V., 93j:60106**
Lugavov, V. S. (*with* Rogozin, B. A.) Ladder subordinators and factorization identities for processes with independent increments on a Markov chain. (Russian) **93b:60169b**
(Malyshev, P. V.) *see* **Skorokhod, A. V., 93a:60114**
Pitman, James W. (*with* Yor, Marc) Arcsine laws and interval partitions derived from a stable subordinator. **93e:60152**
Port, Sidney C. Spitzer's formula involving capacity. **93a:60112**
Pruitt, William E. An integral test for subordinators. **93b:60168**
Rao, Murali *see* **Glover, Joseph, 93g:60161**
Rogers, L. C. G. The two-sided exit problem for spectrally positive Lévy processes. **93f:60110**
Rogozin, B. A. Ladder subordinators for processes with independent increments. (Russian) **93b:60169a**
— *see also* **Lugavov, V. S., 93b:60169b**
Sato, Ken-iti Subordination depending on a parameter. **93a:60113**
— On unimodality and mode behavior of Lévy processes. (*see* **93k:60008**)
Skorokhod, A. V. ★ Random processes with independent increments. **93a:60114**
Takeda, Hiroshi *see* **Inoue, Kazuyuki, 93a:60111**
Taylor, Samuel James *see* **Fristedt, Bert E., 93e:60150**
Urbanik, K. Functionals on stochastic processes. **93i:60137**
Watanabe, Toshiro Sufficient conditions for unimodality of nonsymmetric Lévy processes. **93d:60118**
— On Yamazato's property of unimodal one-sided Lévy processes. **93e:60153**
Wee, In Suk The law of the iterated logarithm for local time of a Lévy process. **93a:60115**
— The law of the iterated logarithm for local time of a Lévy process. (English summary) **93i:60138**
Yor, Marc *see* **Pitman, James W., 93e:60152**
Zinchenko, N. M. On the asymptotics of increments of asymmetric stable processes. (Ukrainian. Russian and Ukrainian summaries) **93k:60193**

Items with secondary classifications in 60J30

Álvarez-Andrade, Sergio Sur les accroissements du processus de Poisson doublement stochastique. (English and French summaries) [On the increments of doubly stochastic Poisson processes] **93g:60099**
Avram, Florin (*with* Taqqu, Murad S.) Weak convergence of sums of moving averages in the α-stable domain of attraction. **93b:60067**
Bar-Lev, Shaul K. (*with* Bshouty, Daoud; Enis, Peter) On polynomial variance functions. (English summary) **93i:62013**
Bingham, Michael S. Approximate martingale characterization of Wiener processes on locally compact abelian groups. **93d:60013**
Bshouty, Daoud *see* **Bar-Lev, Shaul K.; et al., 93i:62013**
Byczkowski, Tomasz (*with* Rajput, Balram S.) Tail behavior for semigroups of measures on groups. (English summary) **93m:60021**
Dalang, Robert C. (*with* Walsh, John B.) The sharp Markov property of the Brownian sheet and related processes. **93f:60068**
— (*with* Walsh, John B.) The sharp Markov property of Lévy sheets. **93e:60095**
Enis, Peter *see* **Bar-Lev, Shaul K.; et al., 93i:62013**
Fitzsimmons, P. J. (*with* Kanda, Mamoru) On Choquet's dichotomy of capacity for Markov processes. **93b:60172**
— (*with* Getoor, R. K.) On the distribution of the Hilbert transform of the local time of a symmetric Lévy process. (English summary) **93j:60112**
Getoor, R. K. *see* **Fitzsimmons, P. J., 93j:60112**
Graczyk, Piotr Malliavin calculus for stable processes on homogeneous groups. **93i:60106**
Gusak, D. V. An oscillating inventory control model. (Russian. Russian summary) (*see* **93m:60009**)
Hawkes, J. (*with* Truman, Aubrey) Statistics of local time and excursions for the Ornstein-Uhlenbeck process. **93f:60117**
Hida, Takeyuki (*with* Potthoff, Jürgen) White noise analysis—an overview. **93g:60081**
Hobson, D. G. (*with* Rogers, L. C. G.) Recurrence and transience of reflecting Brownian motion in the quadrant. **93k:60207**
Hsieh, Nan Jui Local nondeterminism and self-intersections of certain self-similar stable processes. (*see* **93k:60008**)
Kalinauskaitė, N. On multiple points of some stable random fields. (Russian and Lithuanian summaries) **93e:60097**
Kallenberg, Olav Some uses of point processes in multiple stochastic integration. **93a:60080**
— Some time change representations of stable integrals, via predictable transformations of local martingales. **93d:60087**
Kanda, Mamoru *see* **Fitzsimmons, P. J., 93b:60172**
Kella, Offer (*with* Whitt, Ward) Useful martingales for stochastic storage processes with Lévy input. **93j:60154**
Kubilius, K. On the rate of convergence of the distributions of semimartingales to the distribution of stable process. **93c:60024**
Kuo, Hui-Hsiung Lectures on white noise analysis. **93k:60099**
Lee, Mei Ling Ting (*with* Whitmore, G. Alex) Stochastic processes directed by randomized time. (English summary) **93k:60183**
Lindquist, Anders (*with* Picci, Giorgio) A geometric approach to modelling and estimation of linear stochastic systems. **93a:93103**
Nolan, John P. Bounded stationary stable processes and entropy. **93d:60068**
Parthasarathy, Kalyanapuram Rangachari A quantum stochastic approach to Itô's formula for Lévy processes. (English and French summaries) **93k:60163**
Picci, Giorgio *see* **Lindquist, Anders, 93a:93103**
Potthoff, Jürgen *see* **Hida, Takeyuki, 93g:60081**
Ragimov, F. G. Tangent approximation for the density of the time of first crossing of a stable process over a nonlinear boundary. II. (Russian. English and Azerbaijani summaries) **93g:60080**
Rajput, Balram S. *see* **Byczkowski, Tomasz, 93m:60021**
Rogers, L. C. G. *see* **Hobson, D. G., 93k:60207**
Rosen, Jay Second order limit laws for the local times of stable processes. **93k:60196**
— p-variation of the local times of stable processes and intersection local time. **93i:60144**
Sato, Ken-iti Distributions of class L and self-similar processes with independent increments. **93e:60081**
Schürmann, Michael Realization of unitary q-white noise on Fock space. (English summary) **93j:81057**
Taqqu, Murad S. *see* **Avram, Florin, 93b:60067**
Truman, Aubrey *see* **Hawkes, J., 93f:60117**
Walsh, John B. *see* **Dalang, Robert C., 93e:60095** *and* **93f:60068**
Watanabe, Toshiro On unimodal Lévy processes on the nonnegative integers. **93e:60033**
Whitmore, G. Alex *see* **Lee, Mei Ling Ting, 93k:60183**
Whitt, Ward *see* **Kella, Offer, 93j:60154**
Wright, A. Larry A strong limit theorem for processes with associated increments. (English summary) **93j:60051**

60J35 Transition functions, generators and resolvents [see also 47D03, 47D07]

Belyakov, K. I. Markov operators and finitely additive measures concentrated around a point. (Russian. English and Russian summaries) **93g:60162**
van Casteren, Jan A. W. *see* **Smits, Lieven, 93e:60154**
Chebotarëv, A. M. The theory of dynamical semigroups and its applications. **93i:60139**
Chen, Mu Fa Uniqueness of reaction diffusion processes. **93b:60170**
Ethier, S. N. (*with* Kurtz, Thomas G.) On the stationary distribution of the neutral diffusion model in population genetics. **93j:60107**
— Eigenstructure of the infinitely-many-neutral-alleles diffusion model. **93m:60156**
Guo, Jun Yi (*with* Yang, Xiang Qun) Three-point transition functions for two-parameter Markov chains and their four systems of partial differential equations. (English summary) **93j:60108**
Jacob, Niels Feller semigroups, Dirichlet forms, and pseudodifferential operators. (English summary) **93k:60194**
Kurtz, Thomas G. *see* **Ethier, S. N., 93j:60107**
Langer, Heinz (*with* Schenk, W.) Generalized second-order differential operators, corresponding gap diffusions and superharmonic transformations. **93a:60116**
Møller, Christian Max Numerical evaluation of Markov transition probabilities based on the discretized product integral. (English summary) **93g:60163**
Rębowski, R. A note on integral representatation of Feller kernels. **93a:60117**
Schenk, W. *see* **Langer, Heinz, 93a:60116**
Smits, Lieven (*with* van Casteren, Jan A. W.) Semigroups defined by additive processes. **93e:60154**
Sturm, Theo Gauge theorems for resolvents with application to Markov processes. **93d:60119**
Weber, Matthias Duality of Markov processes with Lévy measure. (English summary)
Xu, Ming Yue Decomposition theorems for the Banach space $L(\varepsilon)$ and the Banach algebra $\bar{A}$. (Chinese. English and Chinese summaries)
Yang, Xiang Qun *see* **Guo, Jun Yi, 93j:60108**

Items with secondary classifications in 60J35

Bakry, Dominique (*with* Michel, Dominique) Inégalités de Sobolev et minorations du semigroupe de la chaleur. (English and French summaries) [Sobolev inequalities and lower bounds for the heat semigroup] **93k:47051**
— Weak Sobolev inequalities. **93g:31017**
Bañuelos, Rodrigo Lifetime and heat kernel estimates in nonsmooth domains. **93c:31005**
Boukricha, Abderrahman Perturbation par des mesures régulières. [Perturbation by regular measures] **93a:31018**
Brassesco, Stella A note on planar Brownian motion. (English summary) **93f:60119**
van Casteren, Jan A. W. On martingales and Feller semigroups. **93h:60115**
— *see also* **Demuth, Michael, 93m:81028**
Cattiaux, Patrick Stochastic calculus and degenerate boundary value problems. (English and French summaries) **93j:60090**
Chen, An Yue (*with* Renshaw, Eric) Existence and uniqueness criteria for conservative uni-instantaneous denumerable Markov processes. (English summary) **93m:60153**
Coulhon, Thierry Dimensions of continuous and discrete semigroups on the L^p-spaces. **93d:47076**
Demuth, Michael (*with* van Casteren, Jan A. W.) Perturbations of generalized Schrödinger operators in stochastic spectral analysis. **93m:81028**
Donati-Martin, C. (*with* Yor, Marc) Extension d'une formule de Paul Lévy pour la variation quadratique du mouvement brownien plan. [Extension of a formula of Paul Lévy for the quadratic variation of plane Brownian motion] **93i:60153**
Fitzsimmons, P. J. On the martingale problem for measure-valued Markov branching processes. **93k:60188**
Henderson, W. (*with* Pearce, C. E. M.; Pollett, P. K.; Taylor, P. G.) Connecting internally balanced quasi-reversible Markov processes. (English summary) **93m:60186**

Kisyński, Jan Local uniqueness of Feller processes with integrodifferential generators. (English summary) (*see* **93d:93009**)
— On Markov processes generated by boundary systems of Ventcel. **93h:58168**
Kopitko, B. I. Multidimensional diffusion processes with a partially reflecting screen on a hyperplane. (Ukrainian. Russian summary) **93j:60114**
Krylov, N. V. On one-point weak uniqueness for elliptic equations. **93m:35057**
Küchler, Uwe (*with* Neumann, Kirsten) An extension of Krein's inverse spectral theorem to strings with nonreflecting left boundaries. (English summary) **93j:34118**
McGill, Paul On the structure of a transition kernel. (*see* **93c:81005**)
Michel, Dominique *see* **Bakry, Dominique**, **93k:47051**
Neumann, Kirsten *see* **Küchler, Uwe**, **93j:34118**
Pearce, C. E. M. *see* **Henderson, W.; et al.**, **93m:60186**
Pollett, P. K. On the construction problem for single-exit Markov chains. **93a:60110**
— *see also* **Henderson, W.; et al.**, **93m:60186**
Qian, Zhong Min (*with* Wei, Guo Qiang) A note on conditional diffusion processes. **93i:60151**
Renshaw, Eric *see* **Chen, An Yue**, **93m:60153**
Roynette, Bernard Probabilistic methods for ultracontractivity. (English summary) (*see* **93m:43001**)
Steffens, J. Duality and integral representation for excessive measures. **93k:31013**
Stroock, Daniel W. Estimates on the heat kernel for second order divergence form operators. **93m:35092**
Taira, Kazuaki ★ Boundary value problems and Markov processes. **93k:35115**
Takeda, Masayoshi On the maximum Markovian selfadjoint extensions of one-dimensional diffusion operators. **93g:47059**
Taylor, P. G. *see* **Henderson, W.; et al.**, **93m:60186**
Truman, Aubrey (*with* Williams, David) An elementary formula for Poisson-Lévy excursion measures for one-dimensional time-homogeneous processes. (English summary) **93j:60117**
Wei, Guo Qiang *see* **Qian, Zhong Min**, **93i:60151**
Williams, David *see* **Truman, Aubrey**, **93j:60117**
Yor, Marc *see* **Donati-Martin, C.**, **93i:60153**

60J40 Right processes

Albeverio, Sergio (*with* Ma, Zhi Ming) Characterization of Dirichlet forms associated with Hunt processes. (English summary) **93j:60109**
— (*with* Ma, Zhi Ming; Röckner, Michael) Regularization of Dirichlet spaces and applications. (French summary) **93b:60171**
— (*with* Ma, Zhi Ming; Röckner, Michael) Nonsymmetric Dirichlet forms and Markov processes on general state space. (French summary) **93c:60109**
Fitzsimmons, P. J. (*with* Kanda, Mamoru) On Choquet's dichotomy of capacity for Markov processes. **93b:60172**
Kanda, Mamoru *see* **Fitzsimmons, P. J.**, **93b:60172**
Ma, Zhi Ming *see* **Albeverio, Sergio; et al.**, **93b:60171**; **93c:60109** *and* **93j:60109**
Röckner, Michael *see* **Albeverio, Sergio; et al.**, **93b:60171** *and* **93c:60109**

Items with secondary classifications in 60J40

Albeverio, Sergio (*with* Ma, Zhi Ming) Necessary and sufficient conditions for the existence of m-perfect processes associated with Dirichlet forms. **93m:31011**
— (*with* Ma, Zhi Ming) Diffusion processes with singular Dirichlet forms. **93m:60157**
— (*with* Ma, Zhi Ming; Röckner, Michael) Quasi-regular Dirichlet forms and Markov processes. (English summary) **93m:31012**
Chen, Zhen Qing On reflected Dirichlet spaces. (English summary) **93m:31014**
Fitzsimmons, P. J. Harmonic morphisms and the resurrection of Markov processes. **93k:31011**
— (*with* Getoor, R. K.) A fine domination principle for excessive measures. **93e:60157**
Getoor, R. K. *see* **Fitzsimmons, P. J.**, **93e:60157**
Glover, Joseph Markov functions. (French summary) **93a:60106**
Kuwae, Kazuhiro (*with* Nakao, Shintaro) Time changes in Dirichlet space theory. **93e:60158**
Ma, Zhi Ming *see* **Albeverio, Sergio**, **93m:31011**; **93m:31012** *and* **93m:60157**
Nakao, Shintaro *see* **Kuwae, Kazuhiro**, **93e:60158**
Röckner, Michael *see* **Albeverio, Sergio; et al.**, **93m:31012**
Schmuland, Byron Tightness of Gaussian capacities on subspaces. (English summary) **93h:31012**
Shih, C. T. On piecing together locally defined Markov processes. **93f:60113**

60J45 Probabilistic potential theory [see also 31Cxx, 31D05]

Albeverio, Sergio (*with* Blanchard, Philippe; Ma, Zhi Ming) Feynman-Kac semigroups in terms of signed smooth measures. (English summary) **93i:60140**
— (*with* Ma, Zhi Ming) Diffusion processes with singular Dirichlet forms. **93m:60157**
— (*with* Ma, Zhi Ming) Additive functionals, nowhere Radon and Kato class smooth measures associated with Dirichlet forms. **93m:60158**
Bass, Richard F. (*with* Burdzy, Krzysztof) Lifetimes of conditioned diffusions. **93e:60155**
Bertoin, Jean (*with* Le Jan, Yves) Representation of measures by balayage from a regular recurrent point. **93b:60173**
Blanchard, Philippe *see* **Albeverio, Sergio; et al.**, **93i:60140**
Burdzy, Krzysztof *see* **Bass, Richard F.**, **93e:60155**
Evans, Steven N. Polar and nonpolar sets for a tree indexed process. **93e:60156**
Feyel, Denis (*with* de La Pradelle, Arnaud) Capacités gaussiennes. (English summary) [Gaussian capacities] **93b:60174**
Fitzsimmons, P. J. Skorokhod embedding by randomized hitting times. **93d:60120**
— (*with* Getoor, R. K.) A fine domination principle for excessive measures. **93e:60157**
Gao, Fu Qing Large deviation of a capacity related to the Ornstein-Uhlenbeck operator. **93c:60110**
Gerhard, W. D. The probabilistic solution of the Dirichlet problem for $\frac{1}{2}\Delta + \langle a, \nabla\rangle + b$ with singular coefficients. (English summary) **93i:60141**
Getoor, R. K. *see* **Fitzsimmons, P. J.**, **93e:60157**
Hmissi, Mohamed Lois de sortie et semi-groupes basiques. (English summary) [Exit laws and basic semigroups] **93f:60111**
Kuwae, Kazuhiro (*with* Nakao, Shintaro) Time changes in Dirichlet space theory. **93e:60158**
— A characterization of the closable parts of pre-Dirichlet forms by hitting distributions. **93k:60195**
de La Pradelle, Arnaud *see* **Feyel, Denis**, **93b:60174**
Le Jan, Yves *see* **Bertoin, Jean**, **93b:60173**
Ma, Zhi Ming *see* **Albeverio, Sergio; et al.**, **93i:60140**; **93m:60157** *and* **93m:60158**
Nakao, Shintaro *see* **Kuwae, Kazuhiro**, **93e:60158**
Ōshima, Yōichi On a construction of Markov processes associated with time dependent Dirichlet spaces. **93i:60142**
— Some properties of Markov processes associated with time dependent Dirichlet forms. **93f:60112**
Röckner, Michael On the parabolic Martin boundary of the Ornstein-Uhlenbeck operator on Wiener space. **93e:60159**
Shih, C. T. On piecing together locally defined Markov processes. **93f:60113**
Sturm, Theo Measures charging no polar sets and additive functionals of Brownian motion. **93g:60164**
Taylor, John Christopher Erratum: "The product of minimal functions is minimal" [Bull. London Math. Soc. **22** (1990), no. 5, 499–504; MR 92c:60102]. **93c:60111**
Wu, Rong[1] (*with* Yang, Qing Ji) Progress concerning Brownian motion and classical potential theory in China. **93a:60118**
Xiao, Yi Min Polar functions for fractional Brownian motion. (Chinese. English summary) **93c:60112**
Yang, Qing Ji *see* **Wu, Rong[1]**, **93a:60118**

Items with secondary classifications in 60J45

Albeverio, Sergio (*with* Ma, Zhi Ming) Necessary and sufficient conditions for the existence of m-perfect processes associated with Dirichlet forms. **93m:31011**
— (*with* Ma, Zhi Ming; Röckner, Michael) Regularization of Dirichlet spaces and applications. (French summary) **93b:60171**
— (*with* Ma, Zhi Ming; Röckner, Michael) Quasi-regular Dirichlet forms and Markov processes. (English summary) **93m:31012**
Bass, Richard F. (*with* Burdzy, Krzysztof) The Martin boundary in non-Lipschitz domains. **93g:31019**
Bendikov, A. D. On Markov processes associated with a projective sequence of harmonic spaces. **93c:31016**
Beznea, Lucian Potential type subordinations. **93e:31015**
Boboc, Nicu (*with* Bucur, Gh.) Subordinations in excessive structures. Compressions in H-cones. **93k:31010**
Boukricha, Abderrahman Perturbation par des mesures régulières. [Perturbation by regular measures] **93a:31018**
Bouleau, Nicolas (*with* Hirsch, Francis) ★ Dirichlet forms and analysis on Wiener space. **93e:60107**
Bucur, Gh. *see* **Boboc, Nicu**, **93k:31010**
Burdzy, Krzysztof *see* **Bass, Richard F.**, **93g:31019**
Cornea, Florin Ovidiu Sheaf properties and cohomology in standard H-cones of functions. **93b:31009**
Dellacherie, Claude Une version non linéaire du théorème de Hunt. (English summary) [A nonlinear version of Hunt's theorem] **93m:31016**
Dubins, L. E. (*with* Emery, M.; Yor, Marc) A continuous martingale in the plane that may spiral away to infinity. (English summary) **93i:60134**
Dynkin, E. B. Superdiffusions and parabolic nonlinear differential equations. **93d:60124**
— Birth delay of a Markov process and the stopping distributions for regular processes. (English summary) **93m:60166**
Emery, M. *see* **Dubins, L. E.; et al.**, **93i:60134**
Fitzsimmons, P. J. Harmonic morphisms and the resurrection of Markov processes. **93k:31011**
— (*with* Kanda, Mamoru) On Choquet's dichotomy of capacity for Markov processes. **93b:60172**
Glover, Joseph (*with* Rao, Murali) Potential densities of symmetric Lévy processes. **93g:60161**
Gross, Leonard Loop spaces and logarithmic Sobolev inequalities. **93m:60113**
Hirsch, Francis *see* **Bouleau, Nicolas**, **93e:60107**
Kanda, Mamoru *see* **Fitzsimmons, P. J.**, **93b:60172**
Kigami, Jun On Laplacians on self-similar sets—analysis on fractals. (Japanese) **93k:60003**
Lyons, T. J. Random thoughts on reversible potential theory. **93k:31008**
— (*with* Röckner, Michael) A note on tightness of capacities associated with Dirichlet forms. **93a:60008**
Ma, Zhi Ming Some new results concerning Dirichlet forms, Feynman-Kac semigroups and Schrödinger equations. **93d:31008**
— *see also* **Albeverio, Sergio; et al.**, **93b:60171**; **93m:31011** *and* **93m:31012**
Mountford, Thomas S. (*with* Port, Sidney C.) Representations of bounded harmonic functions. **93a:31012**
— (*with* Port, Sidney C.) Harmonic functions on Denjoy domains. **93d:31001**
Port, Sidney C. Spitzer's formula involving capacity. **93a:60112**
— *see also* **Mountford, Thomas S.**, **93a:31012** *and* **93d:31001**
Rao, Murali *see* **Glover, Joseph**, **93g:60161**
Röckner, Michael Potential theory on non-locally compact space via Dirichlet forms. **93g:31018**
— *see also* **Lyons, T. J.**, **93a:60008**; **Albeverio, Sergio; et al.**, **93b:60171** *and* **93m:31012**
Schmuland, Byron Tightness of Gaussian capacities on subspaces. (English summary) **93h:31012**
Shih, C. T. Construction of Markov processes from hitting distributions without quasi-left-continuity. **93k:60184**
Shur, M. G. On harmonic functions of random walks on groups. **93c:60104**
— Absolutely continuously and singularly generated harmonic functions for random walks on groups. (Russian) **93e:60144**
Song, Shiqui Inégalités relatives aux processus d'Ornstein-Uhlenbeck à n-paramètres et

capacité gausienne $c_{n,2}$. (English and French summaries) [Inequalities relative to n-parameter Ornstein-Uhlenbeck processes and the Gaussian capacity $c_{n,2}$] **93k:60093**
Steffens, J. Duality and integral representation for excessive measures. **93k:31013**
Sturm, Theo Gauge theorems for resolvents with application to Markov processes. **93d:60119**
Vanderbei, Robert J. Optimal switching among several Brownian motions. (English summary) **93k:60112**
Vondraček, Zoran A characterization of Brownian motion on Sierpiński spaces. **93h:60124**
Yor, Marc *see* **Dubins, L. E.; et al., 93i:60134**

60J50 Boundary theory

Evans, Steven N. The entrance space of a measure-valued Markov branching process conditioned on nonextinction. **93j:60110**
Föllmer, Hans Martin boundaries on Wiener space. **93d:60121**
Kaimanovich, V. A. Bi-harmonic functions on groups. (French summary) **93e:60160**
Lalley, Steven P. Saddle-point approximations and space-time Martin boundary for nearest-neighbor random walk on a homogeneous tree. **93f:60114**
Picardello, Massimo A. (*with* Woess, Wolfgang) Examples of stable Martin boundaries of Markov chains. **93f:60115**
Woess, Wolfgang *see* **Picardello, Massimo A., 93f:60115**

Items with secondary classifications in 60J50

Bass, Richard F. (*with* Burdzy, Krzysztof) The Martin boundary in non-Lipschitz domains. **93g:31019**
Bisbas, A. (*with* Karanikas, C.) On the entropy of certain stochastic measures. (English summary) **93f:28007**
Burdzy, Krzysztof *see* **Bass, Richard F., 93g:31019**
Cartwright, Donald I. (*with* Soardi, Paolo M.; Woess, Wolfgang) Martin and end compactifications for non-locally finite graphs. **93j:60096**
Duplantier, Bertrand (*with* Lawler, Gregory F.; Le Gall, Jean-François; Lyons, T. J.) The geometry of the Brownian curve. (English and French summaries) **93k:60205**
El Karoui, Nicole (*with* Karatzas, Ioannis) A new approach to the Skorohod problem, and its applications. **93b:60088a**
— (*with* Karatzas, Ioannis) Correction: "A new approach to the Skorohod problem, and its applications". **93b:60088b**
Guivarc'h, Y. (*with* Taylor, John Christopher) The Martin compactification of the polydisc at the bottom of the positive spectrum. **93a:31015**
Kaimanovich, V. A. Boundary and entropy of random walks in random environment. **93k:60174**
Karanikas, C. *see* **Bisbas, A., 93f:28007**
Karatzas, Ioannis *see* **El Karoui, Nicole, 93b:60088a** *and* **93b:60088b**
Lawler, Gregory F. *see* **Duplantier, Bertrand; et al., 93k:60205**
Le Gall, Jean-François *see* **Duplantier, Bertrand; et al., 93k:60205**
Lyons, T. J. *see* **Duplantier, Bertrand; et al., 93k:60205**
Röckner, Michael On the parabolic Martin boundary of the Ornstein-Uhlenbeck operator on Wiener space. **93e:60159**
Soardi, Paolo M. *see* **Cartwright, Donald I.; et al., 93j:60096**
Taylor, John Christopher *see* **Guivarc'h, Y., 93a:31015**
Vuolle-Apiala, Juha Excursion theory for rotation invariant Markov processes. (English summary) **93k:60185**
Woess, Wolfgang Behaviour at infinity and harmonic functions of random walks on graphs. **93g:60152**
— *see also* **Cartwright, Donald I.; et al., 93j:60096**

60J55 Local time and additive functionals

Balkema, A. A. A note on Trotter's proof of the continuity of local time for Brownian motion. **93c:60113**
Barlow, Martin T. (*with* Evans, Steven N.; Perkins, Edwin A.) Collision local times and measure-valued processes. **93a:60119**
Bass, Richard F. (*with* Khoshnevisan, Davar) Local times on curves and uniform invariance principles. **93e:60161**
Baxter, Martin (*with* Williams, David) Symmetry characterizations of certain distributions. II. Discounted additive functionals and large deviations. **93h:60120**
Bélisle, Claude On the Kallianpur-Robbins law for occupation times. (French summary) **93e:60162**
Borodin, A. N. (*with* Samsonova, S. A.) On the distribution of functionals of Brownian motion stopped at a time that is inverse to local time. (Russian. Russian summary) **93j:60111**
Chen, Xiong Hölder continuous for local times of the two-parameter Ornstein-Uhlenbeck process. **93i:60143**
Dynkin, E. B. Additive functionals of superdiffusion processes. **93d:60122**
Evans, Steven N. *see* **Barlow, Martin T.; et al., 93a:60119**
Fitzsimmons, P. J. (*with* Getoor, R. K.) On the distribution of the Hilbert transform of the local time of a symmetric Lévy process. (English summary) **93j:60112**
Getoor, R. K. *see* **Fitzsimmons, P. J., 93j:60112**
Horváth, Lajos Rate of convergence in limit theorems for Brownian excursions. **93b:60175**
Khoshnevisan, Davar *see* **Bass, Richard F., 93e:60161**
McGill, Paul Remark on the intrinsic local time. **93h:60121**
Perkins, Edwin A. *see* **Barlow, Martin T.; et al., 93a:60119**
Rosen, Jay Second order limit laws for the local times of stable processes. **93k:60196**
— p-variation of the local times of stable processes and intersection local time. **93i:60144**
Sakhno, L. M. Local times of a class of random fields. (Russian) **93j:60113**
Samsonova, S. A. *see* **Borodin, A. N., 93j:60111**
Stoica, Lucretiu On the approximation of additive functionals. **93k:60197**
Williams, David *see* **Baxter, Martin, 93h:60120**
Yan, Jia An A formula for continuous additive functionals of nonsymmetric Hunt processes and application to Feynman-Kac transition functions. (English summary) **93m:60159**
Zhao, Zhong Xin A probabilistic principle and generalized Schrödinger perturbation. **93f:60116**
Zhou, Xian Yin The Hausdorff measure of the level sets of Brownian motion on the Sierpiński gasket. (English summary) **93i:60145**

Items with secondary classifications in 60J55

Adler, Robert J. (*with* Lewin, Marica) An evolution equation for the intersection local times of superprocesses. **93h:60077**
— (*with* Lewin, Marica) Local time and Tanaka formulae for super Brownian and super stable processes. **93e:60169**
Baskakova, P. E. (*with* Borodin, A. N.) Tables of distributions of functionals of the Brownian motion process. (Russian. Russian summary) **93g:60169**
Bertoin, Jean (*with* Le Jan, Yves) Representation of measures by balayage from a regular recurrent point. **93b:60173**
— How does a reflected one-dimensional diffusion bounce back? (English summary) **93i:60147**
Blumenthal, Robert M. ★ Excursions of Markov processes. **93b:60159**
Borodin, A. N. *see* **Baskakova, P. E., 93g:60169**
Csáki, Endre On the increments of additive functionals. **93i:60039**
Csörgő, Miklós (*with* Révész, Pál) Long random walk excursions and local time. **93g:60172**
Fitzsimmons, P. J. (*with* Getoor, R. K.) Limit theorems and variation properties for fractional derivatives of the local time of a stable process. (French summary) **93j:60105**
Getoor, R. K. *see* **Fitzsimmons, P. J., 93j:60105**
Hawkes, J. (*with* Truman, Aubrey) Statistics of local time and excursions for the Ornstein-Uhlenbeck process. **93f:60117**
Hobson, D. G. (*with* Rogers, L. C. G.) Recurrence and transience of reflecting Brownian motion in the quadrant. **93k:60207**
Hsieh, Nan Jui A W.N.C. viewpoint on intersection local times. **93b:60184**
— *see also* **Kôno, Norio, 93m:60073**
Kôno, Norio (*with* Hsieh, Nan Jui) Local times and related sample path properties of certain self-similar processes. **93m:60073**
Kozlov, S. M. (*with* Pitman, James W.; Yor, Marc) Brownian interpretations of an elliptic integral. **93f:60123**
Le Gall, Jean-François Brownian excursions, trees and measure-valued branching processes. **93b:60195**
Le Jan, Yves *see* **Bertoin, Jean, 93b:60173**
Lewin, Marica *see* **Adler, Robert J., 93e:60169** *and* **93h:60077**
Marcus, Michael B. (*with* Rosen, Jay) Sample path properties of the local times of strongly symmetric Markov processes via Gaussian processes. (English summary) **93k:60089**
McGill, Paul On the structure of a transition kernel. (*see* **93c:81005**)
Nualart, David (*with* Wschebor, Mario) Intégration par parties dans l'espace de Wiener et approximation du temps local. (English summary) [Integration by parts in Wiener space and approximation of the local time] **93a:60086**
Pitman, James W. *see* **Kozlov, S. M.; et al., 93f:60123**
Révész, Pál *see* **Csörgő, Miklós, 93g:60172**
Rogers, L. C. G. *see* **Hobson, D. G., 93k:60207**
Rosen, Jay The asymptotics of stable sausages in the plane. **93a:60063**
— *see also* **Marcus, Michael B., 93k:60089**
Roynette, Bernard Grandes déviations du temps local brownien. (English summary) [Large deviations for the Brownian local time] **93b:60059**
Shih, C. T. On piecing together locally defined Markov processes. **93f:60113**
Truman, Aubrey (*with* Williams, David) An elementary formula for Poisson-Lévy excursion measures for one-dimensional time-homogeneous processes. (English summary) **93j:60117**
— *see also* **Hawkes, J., 93f:60117**
Vallois, P. Une extension des théorèmes de Ray et Knight sur les temps locaux browniens. (English summary) [An extension of the theorems of Ray and Knight concerning Brownian local times] **93a:60126**
Vuolle-Apiala, Juha Excursion theory for rotation invariant Markov processes. (English summary) **93k:60185**
Watanabe, Hisao The local time of self-intersections of Brownian motions as generalized Brownian functionals. **93b:60082**
Wee, In Suk The law of the iterated logarithm for local time of a Lévy process. **93a:60115**
— The law of the iterated logarithm for local time of a Lévy process. (English summary) **93i:60138**
Williams, David *see* **Truman, Aubrey, 93j:60117**
Williams, Ruth J. Asymptotic variance parameters for the boundary local times of reflected Brownian motion on a compact interval. (English summary) **93h:60127**
Wschebor, Mario *see* **Nualart, David, 93a:60086**
Yor, Marc *see* **Kozlov, S. M.; et al., 93f:60123**

60J60 Diffusion processes [see also 58G32]

Aebi, Robert Itô's formula for nonsmooth functions. (English summary) **93k:60198**
Albeverio, Sergio (*with* Röckner, Michael) Infinite-dimensional diffusions connected with positive generalized white noise functionals. **93g:60165**
— (*with* Karwowski, Witold) Diffusion on p-adic numbers. **93d:60123**
Amir, Madjid Sticky Brownian motion as the strong limit of a sequence of random walks. **93a:60120**
Attia, F. A. On a reflected Ornstein-Uhlenbeck process with an application. **93c:60114**
Barlow, Martin T. Harmonic analysis on fractal spaces. (English summary) **93m:60160**
Basak, Gopal K. Stability for temporally nonhomogeneous singular diffusion. (English summary) **93i:60146**
Bassan, Bruno (*with* Çinlar, Erhan; Scarsini, Marco) Stochastic comparisons of Itô processes. (English summary) **93m:60161**
Baxendale, Peter H. Invariant measures for nonlinear stochastic differential equations. **93m:60162**
Bertoin, Jean How does a reflected one-dimensional diffusion bounce back? (English summary) **93i:60147**

Bobrovsky, Ben-Zion (*with* Zeitouni, Ofer) Some results on the problem of exit from a domain. **93c:60115**
Bru, Marie-France Wishart processes. **93b:60176**
Cherkasov, I. D. Transformation of a one-dimensional diffusion process into a Wiener process by means of random change of phase space. **93a:60121**
Çinlar, Erhan *see* **Bassan, Bruno; et al., 93m:60161**
DeBlassie, R. Dante (*with* Toby, Ellen H.) Reflecting Brownian motion in a cusp. **93k:60199**
Dell'Antonio, Gianfausto Two results on Nelson diffusions. (*see* **93e:60007**)
Doss, Halim (*with* Stroock, Daniel W.) Nouveaux résultats concernant les petites perturbations de systèmes dynamiques. (English summary) [New results concerning small perturbations of dynamical systems] **93i:60148**
Dubko, V. A. Limit theorems on the transition to a diffusion description of slow constituent solutions of Itô equations. (Russian) **93c:60116**
Dynkin, E. B. Superdiffusions and parabolic nonlinear differential equations. **93d:60124**
Ethier, S. N. (*with* Griffiths, R. C.) Harmonic measure for random genetic drift. **93d:60125**
Fan, Ru Zong Decomposition of a class of functionals. **93a:60122**
Florens-Zmirou, D. Statistics on crossings of discretized diffusions and local time. **93i:60149**
Freidlin, Mark I. (*with* Sowers, Richard B.) Central limit theorem results for a reaction-diffusion equation with fast-oscillating boundary perturbations. **93i:60150**
Giorno, Virginia *see* **Ricciardi, Luigi M.; et al., 93d:60128**
Glynn, Peter W. Diffusion approximations. (*see* **93a:60001**)
Goshko, L. V. Convergence of the transition probability densities of a sequence of diffusion processes. (Russian. Russian summary) **93k:60200**
Griffiths, R. C. *see* **Ethier, S. N., 93d:60125**
Gutiérrez Jáimez, Ramón (*with* Juan Gonzalez, A.; Román Román, P.) Construction of first-passage-time densities for a diffusion process which is not necessarily time-homogeneous. **93a:60123**
Hambly, B. M. Brownian motion on a homogeneous random fractal. (English summary) **93m:60163**
Harrison, J. Michael (*with* Williams, Ruth J.) Brownian models of feedforward queueing networks: quasireversibility and product form solutions. **93d:60126**
Hawkes, J. (*with* Truman, Aubrey) Statistics of local time and excursions for the Ornstein-Uhlenbeck process. **93f:60117**
Juan Gonzalez, A. *see* **Gutiérrez Jáimez, Ramón; et al., 93a:60123**
Karatzas, Ioannis (*with* Ocone, Daniel L.) Feynman-Kac formula for a degenerate planar diffusion and an application in stochastic control. **93b:60177**
Karwowski, Witold *see* **Albeverio, Sergio, 93d:60123**
Kawazu, Kiyoshi (*with* Tamura, Yozo; Tanaka, Hiroshi[1]) Localization of diffusion processes in one-dimensional random environment. **93k:60201**
Khametov, V. M. Asymptotic solution of inverse Kolmogorov equation for diffusion processes with small diffusion. **93a:60124**
Kolsrud, Torbjörn On a class of probabilistic integrodifferential equations. (*see* **93e:00033**)
Kopitko, B. I. Multidimensional diffusion processes with a partially reflecting screen on a hyperplane. (Ukrainian. Russian summary) **93j:60114**
Kopytko, B. I. Diffusion processes with generalized drift vector and diffusion matrix. (*see* **93k:60008**)
— The heat potential method in the problem of pasting together two diffusion processes. (Russian. English and Russian summaries) **93m:60164**
Krebs, William B. Hitting time bounds for Brownian motion on a fractal. **93k:60202**
Lefebvre, Mario Quelques résultats au sujet des densités de premier passage pour des processus de diffusion. (English summary) [Some results concerning hitting densities for diffusion processes] **93d:60127**
Łuczka, J. On randomly interrupted diffusion. (English summary)
Miclo, Laurent Recuit simulé sur $\mathbf{R}^n$. Étude de l'évolution de l'énergie libre. (English summary) [Simulated annealing in $\mathbf{R}^n$. Study of the evolution of free energy] **93f:60118**
Milian, Anna Transition probability density of a certain diffusion process concentrated on a finite spatial interval. **93g:60166**
— A construction of a diffusion process associated to a certain diffusion equation in the space of distributions.
Misawa, Tetsuya Stochastic dynamical interpolation formula to time-reversible diffusion processes. (English summary) **93h:60122**
Nagai, Hideo Ergodic control problems on the whole Euclidean space and convergence of symmetric diffusions. **93b:60178**
Nobile, Amelia G. *see* **Ricciardi, Luigi M.; et al., 93d:60128**
Ocone, Daniel L. *see* **Karatzas, Ioannis, 93b:60177**
Osipchuk, M. M. Diffusion processes with drifts that have a local singularity at one point. (Russian. Russian summary) (*see* **93e:60008**)
Posilicano, Andrea Capacity methods in the study of convergence of diffusions. (English summary) (*see* **93g:81002**)
Qian, Zhong Min (*with* Wei, Guo Qiang) A note on conditional diffusion processes. **93i:60151**
Ricciardi, Luigi M. (*with* Giorno, Virginia; Nobile, Amelia G.) On the asymptotics of first passage time densities. **93d:60128**
Röckner, Michael *see* **Albeverio, Sergio, 93g:60165**
Román Román, P. *see* **Gutiérrez Jáimez, Ramón; et al., 93a:60123**
Scarsini, Marco *see* **Bassan, Bruno; et al., 93m:60161**
Schwarz, Wolfgang The Wiener process between a reflecting and an absorbing barrier. **93g:60167**
Shigekawa, Ichiro (*with* Yoshida, Nobuo) Littlewood-Paley-Stein inequality for a symmetric diffusion. **93h:60123**
Sowers, Richard B. *see* **Freidlin, Mark I., 93i:60150**
Stroock, Daniel W. *see* **Doss, Halim, 93i:60148**
Sznitman, Alain-Sol Topics in propagation of chaos. **93b:60179**
Taksar, Michael I. Skorohod problems with nonsmooth boundary conditions. **93g:60168**
Tamura, Yozo *see* **Kawazu, Kiyoshi; et al., 93k:60201**
Tanaka, Hiroshi[1] *see* **Kawazu, Kiyoshi; et al., 93k:60201**
Taniguchi, Setsuo The explosion property of holomorphic diffusion processes on a bounded pseudoconvex domain in $\mathbf{C}^n$ and its applications. **93c:60117**
Toby, Ellen H. *see* **DeBlassie, R. Dante, 93k:60199**
Truman, Aubrey *see* **Hawkes, J., 93f:60117**
Tsaregradskiĭ, I. P. A problem of a diffusion process in a positive octant. (Russian) (*see* **93b:60003**)
Vajda, Igor Rényi distances of some diffusion processes. **93i:60152**
Vondraček, Zoran A characterization of Brownian motion on Sierpiński spaces. **93h:60124**
Wang, Xi Bing (*with* Wu, Rong[1]) Excursion decomposition of paths of a class of diffusion processes. (Chinese. English and Chinese summaries) **93m:60165**
Wei, Guo Qiang *see* **Qian, Zhong Min, 93i:60151**
Williams, David Transition functions, paths and path integrals. **93c:60118**
Williams, Ruth J. *see* **Harrison, J. Michael, 93d:60126**
Wu, Rong[1] *see* **Wang, Xi Bing, 93m:60165**
Yamazato, Makoto Hitting time distributions of single points for 1-dimensional generalized diffusion processes. **93c:60119**
Yoshida, Nobuo *see* **Shigekawa, Ichiro, 93h:60123**
Yurinskiĭ, V. V. On the homogenization error for a zero drift diffusion in a random medium [translation of Trudy Inst. Mat. (Novosibirsk) **20** (1991)]. **93d:60129**
Zeitouni, Ofer *see* **Bobrovsky, Ben-Zion, 93c:60115**

Items with secondary classifications in 60J60

Aebi, Robert (*with* Nagasawa, Masao) Large deviations and the propagation of chaos for Schrödinger processes. (English summary) **93i:60050**
Airault, Hélène (*with* Malliavin, Paul) Integration on loop groups. II. Heat equation for the Wiener measure. **93d:60098**
Bally, Vlad A stochastic ellipticity assumption. (English summary) **93m:60140**
Belopol'skaya, Ya. I. Diffusions and parabolic equations in principal bundles. **93c:58229**
Ben Arous, Gérard (*with* Léandre, Rémi) Décroissance exponentielle du noyau de la chaleur sur la diagonale. I. (English summary) [Exponential decay of the heat kernel on the diagonal. I] **93b:60136a**
— (*with* Léandre, Rémi) Décroissance exponentielle du noyau de la chaleur sur la diagonale. II. (English summary) [Exponential decay of the heat kernel on the diagonal. II] **93b:60136b**
Bertoin, Jean Décomposition du mouvement brownien avec dérive en un minimum local par juxtaposition de ses excursions positives et négatives. [Decomposition of Brownian motion with derivation at a local minimum by juxtaposition of its positive and negative excursions] **93k:60204**
Bogachev, V. I. Analytic functionals of stochastic processes and infinite-dimensional oscillatory integrals. **93b:60118**
Bosq, Denis *see* **Kutoyants, Yu. A.; et al., 93k:62173**
Buslov, V. A. (*with* Makarov, K. A.) Life spans and least eigenvalues of an operator of small diffusion. (Russian) **93c:34161**
Cattiaux, Patrick Stochastic calculus and degenerate boundary value problems. (English and French summaries) **93j:60090**
Chan, Terence The Wigner semi-circle law and eigenvalues of matrix-valued diffusions. (English summary) **93i:15032**
Chen, Mu Fa (*with* Huang, Li Ping[2]; Xu, Xian Jin) Continuum limit for reaction diffusion processes with several species. (English summary) **93i:60183**
Costantini, Cristina Diffusion approximation for a class of transport processes with physical reflection boundary conditions. **93b:82072**
— The Skorohod oblique reflection problem in domains with corners and application to stochastic differential equations. **93e:60109**
Cranston, M. A probabilistic approach to gradient estimates. **93e:35011**
Davies, E. Brian (*with* Lindsay, J. Martin) Noncommutative symmetric Markov semigroups. **93f:46088**
Day, Martin V. Conditional exits for small noise diffusions with characteristic boundary. (English summary) **93j:60071**
Dell'Antonio, Gianfausto (*with* Posilicano, Andrea) Convergence of Nelson diffusions. **93e:60063**
Driver, Bruce K. (*with* Röckner, Michael) Construction of diffusions on path and loop spaces of compact Riemannian manifolds. (English and French summaries) **93f:58246**
Duffie, Darrell (*with* Stanton, Richard) Pricing continuously resettled contingent claims. **93h:90009**
Elworthy, K. D. *see* **Zhao, H. Z., 93f:35108**
Etheridge, Alison M. Asymptotic behaviour of measure-valued critical branching processes. **93j:60118**
Ethier, S. N. Eigenstructure of the infinitely-many-neutral-alleles diffusion model. **93m:60156**
Fleming, Wendell H. (*with* James, Matthew R.) Asymptotic series and exit time probabilities. (English summary) **93k:60069**
Flores, Christopher Diffusion approximations for computer communications networks. **93c:60144**
Frolovichev, S. M. Global asymptotics of solutions of the first and second boundary value problems for Kolmogorov equation with small diffusion. **93a:35019**
Ghosh, Mrinal K. (*with* Marcus, Steven I.) Infinite horizon controlled diffusion problems with some nonstandard criteria. **93a:93114**
Gong, Guang Lu *see* **Qian, Min Ping; et al., 93a:60108**
Guo, Mao Zheng *see* **Wang, Zheng Dong; et al., 93j:58144**
He, Xiang Min The Markov properties of two-parameter Feller processes and solutions to stochastic differential equations. (Chinese. English summary) **93g:60157**
Hermoso Carazo, A. *see* **Molina Fernández, Manuel, 93f:62119**
Huang, Li Ping[2] *see* **Chen, Mu Fa; et al., 93i:60183**
Iizuka, Masaru (*with* Ogura, Yukio) Convergence of one-dimensional diffusion processes to a jump process related to population genetics. **93a:92006**
Ito, H. M. (*with* Ogura, Yukio; Tomisaki, Matsuyo) Stretched-exponential decay laws of general defect diffusion models. **93a:82040**
James, Matthew R. *see* **Fleming, Wendell H., 93k:60069**
van Kampen, N. G. Short first-passage times. (English summary) **93m:82032**
Karr, Alan F. Markov processes. (*see* **93a:60001**)
Kawakatsu, Toshihiro *see* **Kawasaki, Kyozi, 93i:82057**

Kawasaki, Kyozi (*with* Kawakatsu, Toshihiro) Projector formalism of generalized Brownian motion theory applied to dissipative and noisy systems. **93i:82057**

Kolsrud, Torbjörn (*with* Zambrini, Jean-Claude) An introduction to the semiclassical limit of Euclidean quantum mechanics. **93a:81095**

Kozlov, S. M. *see* **Pyatnitskii, A. L., 93a:35017**

Kutoyants, Yu. A. (*with* Mourid, Tahar; Bosq, Denis) Estimation paramétrique d'un processus de diffusion avec retards. (English summary) [Parametric estimation of a diffusion process with delay] **93k:62173**

Lalley, Steven P. (*with* Sellke, T.) Limit theorems for the frontier of a one-dimensional branching diffusion. (English summary) **93i:60157**

Langer, Heinz (*with* Schenk, W.) Generalized second-order differential operators, corresponding gap diffusions and superharmonic transformations. **93a:60116**

Léandre, Rémi *see* **Ben Arous, Gérard, 93b:60136a** *and* **93b:60136b**

Lee, Tzong-Yow Some large-deviation theorems for branching diffusions. (English summary) **93i:60052**

Lindsay, J. Martin *see* **Davies, E. Brian, 93f:46088**

Łuczka, J. (*with* Niemiec, M.; Piotrowski, E.) Randomly interrupted diffusion. **93d:82071**

Lyons, T. J. Random thoughts on reversible potential theory. **93k:31008**

Makarov, K. A. *see* **Buslov, V. A., 93c:34161**

Makhno, S. Ya. Diffusion approximation for a class of random processes. (Ukrainian. Russian and Ukrainian summaries) **93m:60134**

Malliavin, Paul *see* **Airault, Hélène, 93d:60098**

Mansmann, Ulrich Strong coupling limit for a certain class of polaron models. **93b:60058**

Mao, Xuerong Almost sure polynomial stability for a class of stochastic differential equations. **93g:60123**

Marcus, Steven I. *see* **Ghosh, Mrinal K., 93a:93114**

McGregor, Malcolm T. A problem in diffusion theory revisited. **93h:60125**

Mikulevičius, Remigius (*with* Pragarauskas, H.) On the uniqueness of a solution to the Bellman equation in Sobolev's classes. (Russian and Lithuanian summaries) **93c:35010**

Milian, Anna On one-dimensional diffusion processes living in a bounded space interval. (English summary) **93k:60148**

Molina Fernández, Manuel (*with* Hermoso Carazo, A.) On the estimation in a class of diffusion-type processes. Application for diffusion branching processes. **93f:62119**

Mourid, Tahar *see* **Kutoyants, Yu. A.; et al., 93k:62173**

Nagasawa, Masao *see* **Aebi, Robert, 93i:60050**

Narita, Kiyomasa Asymptotic behavior of solutions of SDE for relaxation oscillations. (English summary) **93m:60122**

Niemiec, M. *see* **Łuczka, J.; et al., 93d:82071**

Ogawa, Shigeyoshi Monte Carlo simulation of nonlinear diffusion processes. **93e:65007**

Ogura, Yukio *see* **Ito, H. M.; et al., 93a:82040** *and* **Iizuka, Masaru, 93a:92006**

Okada, Masami (*with* Sekiguchi, Takeshi; Shiota, Yasunobu) Heat kernels on infinite graph networks and deformed Sierpiński gaskets. **93a:39012**

Pavon, Michele On Lyapunov functionals, and stochastic variational principles in nonequilibrium thermodynamics. (English summary) **93k:82051**

Pinsky, Mark A. ★ Lectures on random evolution. **93b:60160**

— Lyapunov exponent and rotation number of the linear harmonic oscillator. **93h:60101**

Piotrowski, E. *see* **Łuczka, J.; et al., 93d:82071**

Posilicano, Andrea *see* **Dell'Antonio, Gianfausto, 93e:60063**

Pragarauskas, H. *see* **Mikulevičius, Remigius, 93c:35010**

Pyatnitskii, A. L. (*with* Kozlov, S. M.) Homogenization and vanishing viscosity. **93a:35017**

Qian, Min *see* **Qian, Min Ping; et al., 93a:60108** *and* **Wang, Zheng Dong; et al., 93j:58144**

Qian, Min Ping (*with* Qian, Min; Gong, Guang Lu) The reversibility and the entropy production of Markov processes. **93a:60108**

Quastel, Jeremy Diffusion of color in the simple exclusion process. **93e:60198**

Röckner, Michael *see* **Driver, Bruce K., 93f:58246**

Rogers, L. C. G. (*with* Satchell, S. E.) Estimating variance from high, low and closing prices. **93e:62217**

Roynette, Bernard Probabilistic methods for ultracontractivity. (English summary) (*see* **93m:43001**)

Safaryan, R. G. A class of random processes and corresponding systems of differential equations with a small parameter. (Russian) **93b:60133**

Satchell, S. E. *see* **Rogers, L. C. G., 93e:62217**

Schenk, W. *see* **Langer, Heinz, 93a:60116**

Sekiguchi, Takeshi *see* **Okada, Masami; et al., 93a:39012**

Sellke, T. *see* **Lalley, Steven P., 93i:60157**

Sheu, Shuenn Jyi Some estimates of the transition density of a nondegenerate diffusion Markov process. **93a:60087**

Shiga, Tokuzo Some properties of solutions for one-dimensional SPDEs associated with space-time white noise. **93b:60134**

Shiota, Yasunobu *see* **Okada, Masami; et al., 93a:39012**

Stanton, Richard *see* **Duffie, Darrell, 93h:90009**

Stroock, Daniel W. Estimates on the heat kernel for second order divergence form operators. **93m:35092**

Sudderth, William D. (*with* Weerasinghe, A. P. N.) Using fuel to control a process to a goal. **93b:60093**

Takeda, Masayoshi On the maximum Markovian selfadjoint extensions of one-dimensional diffusion operators. **93g:47059**

Tomisaki, Matsuyo Homogenization of càdlàg processes. **93e:60145**

— *see also* **Ito, H. M.; et al., 93a:82040**

Wang, Zheng Dong (*with* Guo, Mao Zheng; Qian, Min) Diffusion processes on principal bundles and differential operators on the associated bundles. (English summary) **93j:58144**

Weerasinghe, A. P. N. *see* **Sudderth, William D., 93b:60093**

Xie, Ying Chao Weak convergence of a sequence of Markov chains to a diffusion process. **93f:60103**

Xu, Xian Jin *see* **Chen, Mu Fa; et al., 93i:60183**

Yang, Qing Ji Solving boundary value problems by means of stochastic calculus. (Chinese summary) **93a:35038**

Yoshida, M. A generalization of Nelson's conservative diffusion. **93m:81077**

Zambrini, Jean-Claude *see* **Kolsrud, Torbjörn, 93a:81095**

Zastawniak, Tomasz Markov diffusions in relativistic stochastic mechanics. **93m:81020**

Zhao, H. Z. (*with* Elworthy, K. D.) The travelling wave solutions of scalar generalized KPP equations via classical mechanics and stochastic approaches. (English summary) **93f:35108**

Zhou, Xian Yin The Hölder continuity of Westwater process and its applications. **93b:60080**

60J65 Brownian motion [see also 58G32]

Babillot, M. Comportement asymptotique du mouvement brownien sur une variété homogène à courbure négative ou nulle. (English summary) [Asymptotic behavior of Brownian motion on a homogeneous manifold with negative or zero curvature] **93b:60180**

Baldi, Paolo (*with* Roynette, Bernard) Entre la normalisation de Strassen et celle de Chung. (English summary) [Between the Strassen and the Chung normalizations] **93c:60120**

Barlow, Martin T. (*with* Bass, Richard F.) Transition densities for Brownian motion on the Sierpiński carpet. **93k:60203**

Baskakova, P. E. (*with* Borodin, A. N.) Tables of distributions of functionals of the Brownian motion process. (Russian. Russian summary) **93g:60169**

Bass, Richard F. *see* **Barlow, Martin T., 93k:60203**

Baxter, Martin (*with* Williams, David) Symmetry characterizations of certain distributions. I. **93c:60121**

Ben Arous, Gérard Géométrie de la courbe brownienne plane. [Geometry of the plane Brownian curve] **93b:60181**

Bertoin, Jean Décomposition du mouvement brownien avec dérive en un minimum local par juxtaposition de ses excursions positives et négatives. [Decomposition of Brownian motion with derivation at a local minimum by juxtaposition of its positive and negative excursions] **93k:60204**

Bezsák, V. A modification of the Wiener process due to a Poisson random train of diffusion-enhancing pulses. (English summary) **93g:60170**

Bishop, Christopher J. Brownian motion in Denjoy domains. **93a:60125**

Bloznelis, M. On the distribution of the norm for a multidimensional Brownian bridge. (Russian and Lithuanian summaries) **93g:60171**

Borodin, A. N. *see* **Baskakova, P. E., 93g:60169**

Brassesco, Stella A note on planar Brownian motion. (English summary) **93f:60119**

Chen, Bin The maximum of a Wiener process and its location. (Chinese. English summary) **93c:60122**

Çinlar, Erhan Sunset over Brownistan. **93f:60120**

Csörgő, Miklós (*with* Révész, Pál) Long random walk excursions and local time. **93g:60172**

Dawson, Donald A. *see* **Rémillard, Bruno, 93c:60124**

Dean, David S. (*with* Jansons, Kalvis M.) A note on the integral of a Brownian bridge. **93g:60173**

Dehen, Danièle *see* **Mastrangelo, Michèle, 93g:60175**

Desbois, J. Algebraic areas distributions for two-dimensional Lévy flights. **93f:60121**

Donati-Martin, C. (*with* Yor, Marc) Extension d'une formule de Paul Lévy pour la variation quadratique du mouvement brownien plan. [Extension of a formula of Paul Lévy for the quadratic variation of plane Brownian motion] **93i:60153**

Duplantier, Bertrand (*with* Lawler, Gregory F.; Le Gall, Jean-François; Lyons, T. J.) The geometry of the Brownian curve. (English and French summaries) **93k:60205**

Durbin, James The first-passage density of the Brownian motion process to a curved boundary. **93d:60130**

Dynkin, E. B. Birth delay of a Markov process and the stopping distributions for regular processes. (English summary) **93m:60166**

Feyel, Denis (*with* de La Pradelle, Arnaud) Sur les processus browniens de dimension infinie. (English and French summaries) [Infinite-dimensional Brownian martingales] **93j:60115**

Földes, Antónia (*with* Révész, Pál) On hardly visited points of the Brownian motion. **93b:60182**

— (*with* Puri, Madan L.) The time spent by the Wiener process in a narrow tube before leaving a wide tube. **93d:60131**

Geman, Hélyette (*with* Yor, Marc) Quelques relations entre processus de Bessel, options asiatiques et fonctions confluentes hypergéométriques. (English summary) [Some relations between Bessel processes, Asian options, and confluent hypergeometric functions] **93b:60183**

Goswami, Alok (*with* Rao, B. V.) On filtrations of Brownian polynomials. **93k:60206**

Gutiérrez Jáimez, Ramón (*with* Valderrama Bonnet, Mariano J.) A note about the Gaussian property of the Brownian bridge. (English summary) **93e:60163**

Hawkins, D. L. *see* **Korzeniowski, Andrzej, 93f:60122**

Hobson, D. G. (*with* Rogers, L. C. G.) Recurrence and transience of reflecting Brownian motion in the quadrant. **93k:60207**

Hsieh, Nan Jui A W.N.C. viewpoint on intersection local times. **93b:60184**

Imhof, J.-P. A simple proof of Pitman's $2M - X$ theorem. **93b:60185**

Jansons, Kalvis M. (*with* Rogers, L. C. G.) Decomposing the branching Brownian path. (English summary) **93m:60167**

— *see also* **Dean, David S., 93g:60173**

Korzeniowski, Andrzej (*with* Hawkins, D. L.) On simulating Wiener integrals and their expectations. (English summary) **93f:60122**

Kovalenko, I. N. (*with* Nakonechnyĭ, A. N.) An approach to the tabulation of the distribution functions of additive functionals of Wiener process. (Russian summary)

Kozlov, S. M. (*with* Pitman, James W.; Yor, Marc) Brownian interpretations of an elliptic integral. **93f:60123**

Kwon, Youngmee The submartingale problem for Brownian motion in a cone with nonconstant oblique reflection. **93g:60174**

Lachal, Aimé Sur les excursions de l'intégrale du mouvement brownien. (English summary) [Excursions of the integrated Brownian motion] **93c:60123**

de La Pradelle, Arnaud *see* **Feyel, Denis, 93j:60115**

Lawler, Gregory F. *see* **Duplantier, Bertrand; et al., 93k:60205**

Le Gall, Jean-François On the connected components of the complement of a two-dimensional Brownian path. **93d:60132**

— (*with* Meyre, T.) Points cônes du mouvement brownien plan, le cas critique. (English summary) [Cone points of planar Brownian motion: the critical case] **93m:60168**
— *see also* **Duplantier, Bertrand; et al., 93k:60205**
Lyons, T. J. *see* **Duplantier, Bertrand; et al., 93k:60205**
Mastrangelo, Michèle (*with* Dehen, Danièle) Opérateurs différentiels paraboliques à coefficients continus par morceaux et admettant un drift généralisé. (English summary) [Parabolic differential operators with piecewise continuous coefficients and a generalized drift] **93g:60175**
Mathew, George (*with* McCormick, William P.) A conditional limit law result on the location of the maximum of Brownian motion. **93e:60164**
McCormick, William P. *see* **Mathew, George, 93e:60164**
McGregor, Malcolm T. A problem in diffusion theory revisited. **93h:60125**
Meyre, T. *see* **Le Gall, Jean-François, 93m:60168**
Nakonechnyĭ, A. N. *see* **Kovalenko, I. N.**
Noda, Akio Lévy's Brownian motion and stochastic variational equation. **93h:60126**
O'Connell, Neil (*with* Unwin, Antony) Collision times and exit times from cones: a duality. (English summary) **93m:60169**
Oletskiĭ, A. V. A decomposition of a standard Wiener process. (Russian. Russian summary)
Petit, Frédérique Quelques extensions de la loi de l'arcsinus. (English and French summaries) [Some extensions of the arcsine law] **93g:60176**
Pitman, James W. (*with* Yor, Marc) Dilatations d'espace-temps, réarrangements des trajectoires browniennes, et quelques extensions d'une identité de Knight. (English and French summaries) [Spacetime dilatations, rearrangements of Brownian trajectories and some extensions of an identity of Knight] **93k:60208**
— *see also* **Kozlov, S. M.; et al., 93f:60123**
Puri, Madan L. *see* **Földes, Antónia, 93d:60131**
Qian, Zhong Min (*with* Wei, Guo Qiang) Large deviation property for reflecting Brownian motion in a convex domain. (English and Chinese summaries) **93k:60209**
Rao, B. V. *see* **Goswami, Alok, 93k:60206**
Rémillard, Bruno (*with* Dawson, Donald A.) A limit theorem for Brownian motion in a random scenery. **93c:60124**
Révész, Pál Black holes on the plane drawn by a Wiener process. **93e:60165**
— *see also* **Földes, Antónia, 93b:60182** *and* **Csörgő, Miklós, 93g:60172**
Rogers, L. C. G. *see* **Hobson, D. G., 93k:60207** *and* **Jansons, Kalvis M., 93m:60167**
Roynette, Bernard *see* **Baldi, Paolo, 93c:60120**
Sainty, Philippe Construction of a complex-valued fractional Brownian motion of order N. (English summary) **93g:60177**
Scheike, Thomas H. A boundary-crossing result for Brownian motion. **93e:60166**
Shimura, Michio Flat points of two-dimensional Brownian motion. (English summary) **93m:60170**
Sinaĭ, Ya. G. Distribution of some functionals of the integral of a random walk. (Russian. English and Russian summaries) **93j:60116**
Szlenk, P. Hitting time of the positive semi-axis for Wiener process in $\mathbf{R}^2$. **93d:60133**
Sznitman, Alain-Sol On long excursions of Brownian motion among Poissonian obstacles. **93e:60167**
Takács, Lajos On the distribution of the integral of the absolute value of the Brownian motion. (English summary) **93i:60154**
Truman, Aubrey (*with* Williams, David) An elementary formula for Poisson-Lévy excursion measures for one-dimensional time-homogeneous processes. (English summary) **93j:60117**
Unwin, Antony *see* **O'Connell, Neil, 93m:60169**
Valderrama Bonnet, Mariano J. *see* **Gutiérrez Jáimez, Ramón, 93e:60163**
Vallois, P. Une extension des théorèmes de Ray et Knight sur les temps locaux browniens. (English summary) [An extension of the theorems of Ray and Knight concerning Brownian local times] **93a:60126**
— Quelques inégalités avec le temps local en zero du mouvement brownien. (English summary) [Some inequalities involving the local time at zero of Brownian motion] **93d:60134**
Vondraček, Zoran A characterization of h-Brownian motion by its exit distributions. **93a:60127**
Wei, Guo Qiang *see* **Qian, Zhong Min, 93k:60209**
Werner, Wendelin Sur la forme des composantes connexes du complémentaire de la courbe brownienne plane. (English summary) [On the shape of the connected components of the complement of a 2-dimensional Brownian path] **93c:60125**
Williams, David *see* **Baxter, Martin, 93c:60121**; **Truman, Aubrey, 93j:60117** *and* **Durbin, James, 93d:60130**
Williams, Ruth J. Asymptotic variance parameters for the boundary local times of reflected Brownian motion on a compact interval. (English summary) **93h:60127**
Wise, Gary L. A counterexample to a martingale characterization of a Wiener process. (English summary) **93g:60178**
Wschebor, Mario Sur les accroissements du processus de Wiener. (English and French summaries) [On the increments of the Wiener process] **93h:60128**
Xiao, Yi Min Multiple points of fractional Brownian motion and Hausdorff dimension. (Chinese) **93b:60186**
— Some properties of the algebraic sum of fractional Brownian motions. (Chinese. English and Chinese summaries) **93m:60171**
Yor, Marc Étude asymptotique des nombres de tours de plusieurs mouvements browniens complexes corrélés. [Asymptotic study of the number of windings of several correlated complex Brownian motions] **93c:60126**
— ★ Some aspects of Brownian motion. Part I. **93i:60155**
— Sur les lois des fonctionnelles exponentielles du mouvement brownien, considérées en certains instants aléatoires. (English summary) [The laws of exponential functionals of Brownian motion, taken at various random times] **93c:60127**
— Sur certaines fonctionnelles exponentielles du mouvement brownien réel. (English summary) [On some exponential functionals of real Brownian motion] **93g:60179**
— *see also* **Geman, Hélyette, 93b:60183**; **Kozlov, S. M.; et al., 93f:60123**; **Donati-Martin, C., 93i:60153** *and* **Pitman, James W., 93k:60208**
Zhou, Xian Yin Hausdorff dimension of the sample path of the Westwater process. **93g:60180**
Zhou, Zhan Gong Two-parameter harnesses and the generalized Brownian sheet. (Chinese. English and Chinese summaries) **93h:60129**

Items with secondary classifications in 60J65

Albeverio, Sergio Mathematical physics and stochastic analysis. (English summary) **93m:60128**
Amir, Madjid Sticky Brownian motion as the strong limit of a sequence of random walks. **93a:60120**
Balkema, A. A. A note on Trotter's proof of the continuity of local time for Brownian motion. **93c:60113**
Bass, Richard F. (*with* Burdzy, Krzysztof) Lifetimes of conditioned diffusions. **93e:60155**
— (*with* Khoshnevisan, Davar) Local times on curves and uniform invariance principles. **93e:60161**
Batty, Charles J. K. Asymptotic stability of Schrödinger semigroups: path integral methods. **93g:47050**
Bélisle, Claude On the Kallianpur-Robbins law for occupation times. (French summary) **93e:60162**
Bertoin, Jean How does a reflected one-dimensional diffusion bounce back? (English summary) **93i:60147**
Bingham, N. H. (*with* Rogers, L. C. G.) Summability methods and almost-sure convergence. **93b:60062**
Blanchard, Philippe (*with* Ma, Zhi Ming) Semigroup of Schrödinger operators with potentials given by Radon measures. **93a:35034**
Borodin, A. N. (*with* Samsonova, S. A.) On the distribution of functionals of Brownian motion stopped at a time that is inverse to local time. (Russian. Russian summary) **93j:60111**
Bru, Marie-France Wishart processes. **93b:60176**
Burdzy, Krzysztof *see* **Bass, Richard F., 93e:60155**
Castrigiano, Domenico P. L. (*with* Stärk, Florian) Intrinsic clock as a tool for path integration: an example. **93b:81128**
Chaleyat-Maurel, Mireille (*with* Nualart, David) The Onsager-Machlup functional for a class of anticipating processes. (English summary) **93i:60105**
Chen, Hong[3] (*with* Mandelbaum, Avi) Stochastic discrete flow networks: diffusion approximations and bottlenecks. **93a:60143**
Cranston, M. Gradient estimates on manifolds using coupling. **93a:58175**
— A probabilistic approach to gradient estimates. **93e:35011**
Csörgő, Miklós (*with* Shao, Qi Man; Szyszkowicz, Barbara) A note on local and global functions of a Wiener process and some Rényi-type statistics. (English summary) **93i:60078**
DeBlassie, R. Dante (*with* Toby, Ellen H.) Reflecting Brownian motion in a cusp. **93k:60199**
El Karoui, Nicole (*with* Karatzas, Ioannis) A new approach to the Skorohod problem, and its applications. **93b:60088a**
— (*with* Karatzas, Ioannis) Correction: "A new approach to the Skorohod problem, and its applications". **93b:60088b**
Gantert, Nina ★ Einige grosse Abweichungen der Brownschen Bewegung. (German) [Some large deviations of Brownian motion] **93h:60040**
Gong, Guang Lu *see* **Qian, Min Ping; et al., 93a:60108**
Grill, Karl On the increments of the Wiener process. (English summary) **93i:60058**
— Exact rate of convergence in Strassen's law of the iterated logarithm. **93a:60046**
Gross, Leonard Logarithmic Sobolev inequalities on Lie groups. **93i:22012**
Gutjahr, Walter J. (*with* Pflug, G. Ch.) The asymptotic contour process of a binary tree is a Brownian excursion. **93i:60017**
Hambly, B. M. Brownian motion on a homogeneous random fractal. (English summary) **93m:60163**
Helfer, Adam D. (*with* Zhao, Zhong Xin) Gaussian integrals on Wiener spaces. **93e:60075**
Hida, Takeyuki Stochastic variational calculus. (*see* **93b:60006**)
— (*with* Kuo, Hui-Hsiung) Semigroups associated with generalized Brownian functionals. **93i:60080**
Hsieh, Nan Jui Multiple points of sample paths of Markov processes. **93e:60151**
Huang, Hui (*with* Kendall, Wilfrid S.) Correction note to: "Martingales on manifolds and harmonic maps" [in *Geometry of random motion (Ithaca, NY, 1987)*, 121–157, Contemp. Math., 73, Amer. Math. Soc., Providence, RI, 1988; MR 90d:58163] by Kendall. **93d:58187**
Hughes, H. R. Brownian exit distributions from normal balls in $S^3 \times H^3$. **93e:58196**
Karatzas, Ioannis *see* **El Karoui, Nicole, 93b:60088a** *and* **93b:60088b**
Kawasaki, Harumi *see* **Shibata, Fumiaki; et al., 93k:82057**
Kendall, Wilfrid S. *see* **Huang, Hui, 93d:58187**
Khoshnevisan, Davar Moment inequalities for functionals of the Brownian convex hull. **93e:60079**
— Local asymptotic laws for the Brownian convex hull. (English summary) **93k:60096**
— *see also* **Bass, Richard F., 93e:60161**
Kuo, Hui-Hsiung *see* **Hida, Takeyuki, 93i:60080**
Le Gall, Jean-François Brownian excursions, trees and measure-valued branching processes. **93b:60195**
Le Jan, Yves Sur l'enroulement géodésique des surfaces de Riemann. (English summary) [Winding of geodesics on Riemann surfaces] **93g:58160**
Lévy, Paul ★ Processus stochastiques et mouvement brownien. (French) [Stochastic processes and Brownian motion] **93i:60003**
Li, Wenbo V. Limit theorems for the square integral of Brownian motion and its increments. **93e:60061**
Liao, Ming The asymptotic behaviour of the canonical stochastic flow on a symmetric space. (English summary) **93f:58250**
(Loève, M.) *see* **Lévy, Paul, 93i:60003**
Ma, Zhi Ming *see* **Blanchard, Philippe, 93a:35034**
Malliavin, Paul Naturality of quasi-invariance of some measures. **93g:58161**
Manabe, Shojiro Large deviation for a class of current-valued processes. **93c:60037**
Mandelbaum, Avi *see* **Chen, Hong[3], 93a:60143**
Mansmann, Ulrich The free energy of the Dirac polaron, an explicit solution. **93e:82006**
Mason, David M. A note on weighted approximations to the uniform empirical and quantile processes. **93b:60070**

McGill, Paul Remark on the intrinsic local time. **93h:60121**
Nualart, David *see* **Chaleyat-Maurel, Mireille, 93i:60105**
Park, Chull (*with* Skoug, David) A Kac-Feynman integral equation for conditional Wiener integrals. **93i:28011**
Perman, Mihael (*with* Pitman, James W.; Yor, Marc) Size-biased sampling of Poisson point processes and excursions. **93d:60088**
Pflug, G. Ch. *see* **Gutjahr, Walter J., 93i:60017**
Pinsky, Mark A. Feeling the shape of a manifold with Brownian motion—the last word in 1990. **93e:58200**
— Inverse questions in stochastic differential geometry. **93k:58234**
Pitman, James W. (*with* Yor, Marc) Arcsine laws and interval partitions derived from a stable subordinator. **93e:60152**
— *see also* **Perman, Mihael; et al., 93d:60088**
Potthoff, Jürgen Introduction to white noise analysis. **93g:60082**
Qian, Min *see* **Qian, Min Ping; et al., 93a:60108**
Qian, Min Ping (*with* Qian, Min; Gong, Guang Lu) The reversibility and the entropy production of Markov processes. **93a:60108**
Quadrat, J.-P. Brownian and diffusion decision processes. **93f:49029**
Rajeev, B. Crossing of Brownian motion: a semi-martingale approach. (English summary) **93c:60065**
Roelly-Coppoletta, Sylvie (*with* Zessin, Hans) Sur la mécanique statistique d'une particule brownienne sur le tore. [On the statistical mechanics of a Brownian particle on the torus] **93m:60055**
Rogers, L. C. G. *see* **Bingham, N. H., 93b:60062**
Roynette, Bernard Grandes déviations du temps local brownien. (English summary) [Large deviations for the Brownian local time] **93b:60059**
Rudowicz, Rafał Admissible translations of the Brownian motion on a Lie group. (English summary) **93j:60052**
Salminen, Paavo A ratio limit theorem for erased branching Brownian motion. **93e:60174**
Samsonova, S. A. *see* **Borodin, A. N., 93j:60111**
Sapegin, I. L. Boundary properties of Wiener fields. (Russian)
Schneider, W. R. Grey noise. (English summary) **93g:60083**
Shao, Qi Man *see* **Csörgő, Miklós; et al., 93i:60078**
Shepp, Larry A. (*with* Zeitouni, Ofer) A note on conditional exponential moments and Onsager-Machlup functionals. **93d:60067**
Shibata, Fumiaki (*with* Kawasaki, Harumi; Watabe, Miki) Path integral theory of Brownian motion. (English summary) **93k:82057**
Skoug, David *see* **Park, Chull, 93i:28011**
Stärk, Florian *see* **Castrigiano, Domenico P. L., 93b:81128**
Sturm, Theo Measures charging no polar sets and additive functionals of Brownian motion. **93g:60164**
Szyszkowicz, Barbara *see* **Csörgő, Miklós; et al., 93i:60078**
Taylor, John Christopher Brownian motion on a symmetric space of noncompact type: asymptotic behaviour in polar coordinates. **93c:58231**
Toby, Ellen H. *see* **DeBlassie, R. Dante, 93k:60199**
Truman, Aubrey (*with* Williams, David) Excursions and Itô calculus in Nelson's stochastic mechanics. (English summary) **93i:81019**
Vondraček, Zoran A characterization of Brownian motion on Sierpiński spaces. **93h:60124**
Wang, Zi Kun[1] Stochastic processes in physics. (Chinese. English and Chinese summaries)
Watabe, Miki *see* **Shibata, Fumiaki; et al., 93k:82057**
Watanabe, Hisao The local time of self-intersections of Brownian motions as generalized Brownian functionals. **93b:60082**
Wein, Lawrence M. Dynamic scheduling of a multiclass make-to-stock queue. (English summary) **93f:90097**
Williams, David *see* **Truman, Aubrey, 93i:81019**
Wu, Rong[1] (*with* Yang, Qing Ji) Progress concerning Brownian motion and classical potential theory in China. **93a:60118**
Xiao, Yi Min Polar functions for fractional Brownian motion. (Chinese. English summary) **93c:60112**
— Some properties of the image sets of two-parameter Ornstein-Uhlenbeck processes. (Chinese. Chinese summary)
Yang, Qing Ji *see* **Wu, Rong[1], 93a:60118**
Yor, Marc *see* **Perman, Mihael; et al., 93d:60088** *and* **Pitman, James W., 93e:60152**
Yoshizawa, Hisaaki Infinite-dimensional rotation group and Brownian motion. **93c:22038**
Zeitouni, Ofer *see* **Shepp, Larry A., 93d:60067**
Zessin, Hans *see* **Roelly-Coppoletta, Sylvie, 93m:60055**
Zhang, Chun Sheng On the recurrence of Ornstein-Uhlenbeck processes. (English summary) **93i:60098**
Zhao, Zhong Xin An equivalence theorem for Schrödinger operators and its applications. **93e:47066**
— Subcriticality and gaugeability of the Schrödinger operator. **93a:81041**
— *see also* **Helfer, Adam D., 93e:60075**
Zhou, Xian Yin The Hausdorff measure of the level sets of Brownian motion on the Sierpiński gasket. (English summary) **93i:60145**

60J70 Applications of diffusion theory (population genetics, absorption problems, etc.) [see also 92Dxx]

Ethier, S. N. Equivalence of two descriptions of the ages of alleles. **93f:60124**
Gutiérrez Jáimez, Ramón (*with* Rosales, M. J.) Diffusion approximation for a stochastic model of population growth. (English summary) (*see* **93g:62001**)
Jansons, Kalvis M. (*with* Rogers, L. C. G.) Probability theory and polymer physics. **93b:60187**
Kedem, Benjamin *see* **Pavlopoulos, Harry, 93e:60168**
Pavlopoulos, Harry (*with* Kedem, Benjamin) Stochastic modeling of rain rate processes: a diffusion model. (English summary) **93e:60168**
Rogers, L. C. G. *see* **Jansons, Kalvis M., 93b:60187**
Rosales, M. J. *see* **Gutiérrez Jáimez, Ramón, (93g:62001)**

Items with secondary classifications in 60J70

Durrett, Richard (*with* Rogers, L. C. G.) Asymptotic behavior of Brownian polymers. **93g:60132**
Ethier, S. N. (*with* Griffiths, R. C.) Harmonic measure for random genetic drift. **93d:60125**
— (*with* Kurtz, Thomas G.) On the stationary distribution of the neutral diffusion model in population genetics. **93j:60107**
— Eigenstructure of the infinitely-many-neutral-alleles diffusion model. **93m:60156**
Griffiths, R. C. The two-locus ancestral graph. (English summary) **93h:92021**
— *see also* **Ethier, S. N., 93d:60125**
Harrison, J. Michael (*with* Williams, Ruth J.) Brownian models of feedforward queueing networks: quasireversibility and product form solutions. **93d:60126**
Iizuka, Masaru (*with* Ogura, Yukio) Convergence of one-dimensional diffusion processes to a jump process related to population genetics. **93a:92006**
Jansons, Kalvis M. (*with* Rogers, L. C. G.) Decomposing the branching Brownian path. (English summary) **93m:60167**
Kurtz, Thomas G. *see* **Ethier, S. N., 93j:60107**
Le Doussal, Pierre Diffusion in layered random flows, polymers, electrons in random potentials, and spin depolarization in random fields. (English summary) **93j:82073**
Ndumu, Martin Ngu The heat kernel formula in a geodesic chart and some applications to the eigenvalue problem of the 3-sphere. **93a:58177**
Ogura, Yukio *see* **Iizuka, Masaru, 93a:92006**
Rogers, L. C. G. *see* **Durrett, Richard, 93g:60132** *and* **Jansons, Kalvis M., 93m:60167**
Sidorowicz, Józef A conditional process with diffraction on a smooth domain in $\mathbf{R}^2$. (Russian) **93c:35123**
Williams, Ruth J. *see* **Harrison, J. Michael, 93d:60126**
Zhang, Yuan Lin Some problems on a one-dimensional correlated random walk with various types of barrier. **93b:60154**

60J75 Jump processes

Chen, Mu Fa Exponential L^2-convergence and L^2-spectral gap for Markov processes. **93a:60128**
Hiraba, Seiji Existence and smoothness of transition density for jump-type Markov processes: applications of Malliavin calculus. **93f:60125**
Pakes, Anthony G. Divergence rates for explosive birth processes. **93g:60181**
Scheike, Thomas H. A general risk process and its properties. **93d:60135**
Ycart, Bernard Integer valued Markov processes and exponential families. **93k:60210**

Items with secondary classifications in 60J75

Barbour, A. D. (*with* Brown, Timothy C.) The Stein-Chen method, point processes and compensators. (English summary) **93g:60100**
Bassan, Bruno (*with* Çinlar, Erhan; Scarsini, Marco) Stochastic comparisons of Itô processes. (English summary) **93m:60161**
Brown, Timothy C. *see* **Barbour, A. D., 93g:60100**
Cheng, Shi Xue Pure jump shock models in discrete time case. **93b:60198**
Chizeck, Howard Jay *see* **Ji, Yuandong, 93m:93098**
Çinlar, Erhan *see* **Bassan, Bruno; et al., 93m:60161**
Dalang, Robert C. (*with* Walsh, John B.) The sharp Markov property of Lévy sheets. **93e:60095**
Djehiche, Boualem Bernstein processes and spin-$\frac{1}{2}$ particles. (English summary) **93i:81117**
Graham, C. Robin Nonlinear diffusion with jumps. (English and French summaries) **93i:60184**
— McKean-Vlasov Itô-Skorohod equations, and nonlinear diffusions with discrete jump sets. **93b:60102**
He, Sheng Wu (*with* Wang, Jia Gang; Xia, Ai Hua) Weak convergence of Markov jump processes. (Chinese. English and Chinese summaries) **93m:60065**
Jefferies, Brian Processes associated with evolution equations. **93b:47140**
Ji, Yuandong (*with* Chizeck, Howard Jay) Jump linear quadratic Gaussian control in continuous time. (English summary) **93m:93098**
Nikunen, Martti (*with* Valkeila, Esko) A Prohorov bound for a Poisson process and an arbitrary counting process with some applications. **93c:60069**
Scarsini, Marco *see* **Bassan, Bruno; et al., 93m:60161**
Valkeila, Esko *see* **Nikunen, Martti, 93c:60069**
Walsh, John B. *see* **Dalang, Robert C., 93e:60095**
Wang, Jia Gang *see* **He, Sheng Wu; et al., 93m:60065**
Xia, Ai Hua *see* **He, Sheng Wu; et al., 93m:60065**

60J80 Branching processes (Galton-Watson, birth-and-death, etc.)

Adler, Robert J. (*with* Lewin, Marica) Local time and Tanaka formulae for super Brownian and super stable processes. **93e:60169**
Al'mukambetov, A. A. A local limit theorem for critical branching processes with immigration. (Russian. English, Russian and Kazakh summaries) **93g:60182**
Athreya, K. B. On a maximum sequence in a critical multitype branching process. **93e:60170**
— Rates of decay for the survival probability of a mutant gene. **93h:60135**
Biggins, J. D. Uniform convergence of martingales in the one-dimensional branching random walk. (English summary) **93k:60211**
— (*with* Bingham, N. H.) Near-constancy phenomena in branching processes. **93d:60136**
— *see also* **D'Souza, J. C., 93g:60183**
Bingham, N. H. *see* **Biggins, J. D., 93d:60136**
Borovkov, K. A. Approximation of branching processes, and random fields. (Russian) **93c:60128**
Bramson, Maury D. (*with* Ney, Peter E.; Tao, J.) The population composition of a multitype branching random walk. (English summary) **93h:60130**
Butov, A. A. Some estimates for a one-dimensional birth and death process in a random environment. (Russian) **93a:60129**
Chauvin, Brigitte (*with* Olivares-Rieumont, P.; Rouault, Alain) Fluctuations of spatial branching processes with mean-field interaction. **93d:60137**

— Product martingales and stopping lines for branching Brownian motion. **93b:60188**
— (*with* Rouault, Alain; Wakolbinger, Anton) Growing conditioned trees. **93d:60138**
(Cohen, Joel E.) *see* **Jagers, Peter, 93b:60193**
Conolly, Brian (*with* Langaris, Christos) Solution of the stochastic birth-emigration model using continued fractions. (English summary) **93k:60212**
Cox, J. T. Some remarks on the theory of critical branching random walk. **93b:60190**
Dawson, Donald A. (*with* Hochberg, K. J.; Wu, Yadong) Multilevel branching systems. **93b:60191**
— (*with* Hochberg, K. J.) A multilevel branching model. **93d:60139**
— (*with* Fleischmann, Klaus) Critical branching in a highly fluctuating random medium. **93a:60130**
Dekking, F. M. Branching processes that grow faster than binary splitting. **93a:60131**
— (*with* Host, Bernard) Limit distributions for minimal displacement of branching random walks. **93b:60189**
(Donnelly, Peter) *see* **Jagers, Peter, 93b:60193**
van Doorn, Erik A. Quasi-stationary distributions and convergence to quasi-stationarity of birth-death processes. **93b:60192**
D'Souza, J. C. (*with* Biggins, J. D.) The supercritical Galton-Watson process in varying environments. **93g:60183**
Elia, Michele (*with* Taricco, Giorgio) A note on linear equations modelling birth-and-death processes. (English summary)
Etheridge, Alison M. Asymptotic behaviour of measure-valued critical branching processes. **93j:60118**
Fleischmann, Klaus Critical branching caused by interaction with point catalysts. **93c:60129**
— *see also* **Dawson, Donald A., 93a:60130**
Gadag, V. G. (*with* Gupta, Rajenda P.) On the properties of processes associated with a Markov branching process. **93f:60126**
Gorostiza, Luis G. (*with* Wakolbinger, Anton) Convergence to equilibrium of critical branching particle systems and superprocesses, and related nonlinear partial differential equations. (English summary) **93h:60131**
— (*with* Roelly-Coppoletta, Sylvie; Wakolbinger, Anton) Persistence of critical multitype particle and measure branching processes. **93e:60171**
Grey, D. R. (*with* Lu, Zhunwei) Extinction probabilities of branching processes in random environments. (English summary) **93j:60119**
Gupta, Rajenda P. *see* **Gadag, V. G., 93f:60126**
Hambly, B. M. On the limiting distribution of a supercritical branching process in a random environment. **93h:60132**
Hochberg, K. J. *see* **Dawson, Donald A.; et al., 93b:60191** *and* **93d:60139**
Hoffman, Lorrie L. Characterizing linear birth and death processes. (English summary) **93k:60213**
Hoppe, Fred M. Asymptotic rates of growth of the extinction probability of a mutant gene. **93h:60133**
— The survival probability of a mutant in a multidimensional population. **93h:60134**
Host, Bernard *see* **Dekking, F. M., 93b:60189**
Ismail, Mourad E. H. (*with* Letessier, Jean; Valent, Galliano) Birth and death processes with absorption. **93f:60127**
Jagers, Peter (*with* Nerman, Olle; Taïb, Ziad) When did Joe's great... grandfather live? Or: On the time scale of evolution. (English summary) **93g:60184**
— The growth and stabilization of populations. **93b:60193**
— Stabilities and instabilities in population dynamics. (English summary) **93j:60120**
Kapur, J. N. (*with* Kapur, Sanjay; Kumar, Uma) Birth and death processes with multiple births and deaths and with immigrations and emigrations. (English summary)
Kapur, Sanjay *see* **Kapur, J. N.; et al.**
Kijima, Masaaki Evaluation of the decay parameter for some specialized birth-death processes. (English summary) **93i:60156**
Klebaner, Fima C. Asymptotic behavior of near-critical multitype branching processes. **93b:60194a**
— Correction: "Asymptotic behavior of near-critical multitype branching processes". **93b:60194b**
Kopp-Schneider, Annette Birth-death processes with piecewise constant rates. **93a:60132**
Kumar, B. Krishna *see* **Parthasarathy, P. R., 93d:60141**
Kumar, Uma *see* **Kapur, J. N.; et al.**
Lalley, Steven P. (*with* Sellke, T.) Limit theorems for the frontier of a one-dimensional branching diffusion. (English summary) **93i:60157**
Langaris, Christos *see* **Conolly, Brian, 93k:60212**
Le Gall, Jean-François Brownian excursions, trees and measure-valued branching processes. **93b:60195**
Letessier, Jean *see* **Ismail, Mourad E. H.; et al., 93f:60127**
Lewin, Marica *see* **Adler, Robert J., 93e:60169**
Li, Zeng Hu A note on the multitype measure branching process. **93e:60172**
— Measure-valued branching processes with immigration. (English summary) **93k:60214**
Lu, Zhunwei *see* **Grey, D. R., 93j:60119**
Méléard, Sylvie (*with* Roelly-Coppoletta, Sylvie) Discontinuous measure-valued branching processes and generalized stochastic equations. **93d:60140**
— (*with* Roelly-Coppoletta, Sylvie) An ergodic result for critical spatial branching processes. **93m:60172**
Mohanty, S. G. (*with* Montazer-Haghighi, A.; Trueblood, R.) On the transient behavior of a finite birth-death process with an application. (English summary) **93h:60137**
Montazer-Haghighi, A. *see* **Mohanty, S. G.; et al., 93h:60137**
Nakagawa, Tetsuo On the geometric growth of controlled branching processes in a random environment. **93a:60133**
— On the geometric growth of a Bellman-Harris branching process with emigration. **93h:60138**
Nerman, Olle *see* **Jagers, Peter; et al., 93g:60184**
Ney, Peter E. Branching random walk. **93b:60196**
— *see also* **Bramson, Maury D.; et al., 93h:60130**
Olivares-Rieumont, P. *see* **Chauvin, Brigitte; et al., 93d:60137**
Ou, Jing Qi A note for the branching character of superprocesses. (*see* **93b:00022**)
Parthasarathy, P. R. (*with* Kumar, B. Krishna) A birth and death process with logistic mean population. **93d:60141**
Pollak, Edward Survival probabilities for some multitype branching processes in genetics. **93h:60136**
Roelly-Coppoletta, Sylvie *see* **Méléard, Sylvie, 93d:60140**; **Gorostiza, Luis G.; et al., 93e:60171** *and* **Méléard, Sylvie, 93m:60172**
Rouault, Alain *see* **Chauvin, Brigitte; et al., 93d:60137** *and* **93d:60138**
Roy, Dilip A stability property of the linear growth birth and death process under restricted power series distributions.
Sagitov, S. M. Moderate multiplication. (Russian. English, Russian and Kazakh summaries) **93g:60185**
Salminen, Paavo Cutting Markovian trees. **93e:60173**
— A ratio limit theorem for erased branching Brownian motion. **93e:60174**
(Sawyer, Stanley A.) *see* **Jagers, Peter, 93b:60193**
Sellke, T. *see* **Lalley, Steven P., 93i:60157**
Sernova, E. V. Transition phenomena in reduced Bellman-Harris branching processes. (Russian) (*see* **93b:60003**)
Slavtchova, Marusia N. (*with* Yanev, Nikolaĭ M.) Noncritical Bellman-Harris branching processes with state-dependent immigration. **93a:60134**
— Limit theorems for multitype Bellman-Harris branching processes with state dependent immigration. **93d:60142**
Spătaru, Aurel A maximum sequence in a critical multitype branching process. **93d:60143**
Sun, Jia Ming Some new results on the Galton-Watson process. (Chinese. English and Chinese summaries)
Taïb, Ziad *see* **Jagers, Peter; et al., 93g:60184**
Takács, Lajos Conditional limit theorems for branching processes. **93e:60175**
Tao, J. *see* **Bramson, Maury D.; et al., 93h:60130**
Taricco, Giorgio *see* **Elia, Michele**
Topchii, V. A. Joint distributions for critical general branching processes with long-living particles of a certain type. (Russian) **93a:60135**
Trueblood, R. *see* **Mohanty, S. G.; et al., 93h:60137**
Valent, Galliano *see* **Ismail, Mourad E. H.; et al., 93f:60127**
Vatutin, V. A. A limit theorem for the critical Bellman-Harris process with final types. (Russian) **93c:60130**
Wakolbinger, Anton On the structure of entrance laws in discrete spatial critical branching processes. **93a:60136**
— *see also* **Chauvin, Brigitte; et al., 93d:60138**; **Gorostiza, Luis G.; et al., 93e:60171** *and* **93h:60131**
Wu, Yadong Extinction of the multilevel $M(M(\mathbf{R}^d))$-valued branching diffusion process. **93a:60137**
— *see also* **Dawson, Donald A.; et al., 93b:60191**
Yanev, G. P. (*with* Yanev, Nikolaĭ M.) Extinction of controlled branching processes in random environments. **93f:60128**
Yanev, Nikolaĭ M. *see* **Slavtchova, Marusia N., 93a:60134** *and* **Yanev, G. P., 93f:60128**
Zonenashvili, L. K. A remark on Crump-Mode-Jagers branching with an arbitrary set of types. (Russian. Russian summary) **93j:60121**

Items with secondary classifications in 60J80

Adekola, O. A. Asymptotic posterior normality for stochastic processes: a nonergodic example. **93b:60157**
Athreya, K. B. On measures of nondegeneracy. **93g:60023**
Baccelli, François (*with* Konstantopoulos, Panagiotis) Estimates of cycle times in stochastic Petri nets. **93f:68071**
Badalbaev, I. S. (*with* Mukhitdinov, A. A.) ★ Статистические задачи многотипных ветвящихся процессов. (Russian) [Statistical problems for multitype branching processes] **93c:62138**
Barbour, A. D. (*with* Holst, Lars; Janson, Svante) ★ Poisson approximation. **93g:60043**
Basawa, Ishwar V. *see* **Sriram, T. N.; et al., 93b:62118**
Biggins, J. D. Uniform convergence of martingales in the branching random walk. **93b:60094**
Chayes, J. T. (*with* Chayes, L.; Grannan, E.; Swindle, G.) Phase transitions in Mandelbrot's percolation process in three dimensions. **93a:60156**
Chayes, L. *see* **Chayes, J. T.; et al., 93a:60156**
Deshmukh, Shailaja R. *see* **Kale, Mohan M., 93m:62189**
Evans, Steven N. The entrance space of a measure-valued Markov branching process conditioned on nonextinction. **93j:60110**
Fernández, Begoña (*with* Gorostiza, Luis G.) A criterion of convergence of generalized processes and an application to a supercritical branching particle system. **93d:60054**
Ferrari, Pablo Augusto (*with* Martínez, Servet A.; Picco, Pierre) Some properties of quasi-stationary distributions in the birth and death chains: a dynamical approach. (English summary) **93h:60111**
— (*with* Martínez, Servet A.; Picco, Pierre) Existence of nontrivial quasi-stationary distributions in the birth-death chain. (English summary) **93i:60133**
Fitzsimmons, P. J. On the martingale problem for measure-valued Markov branching processes. **93k:60188**
Gorostiza, Luis G. (*with* López-Mimbela, J. Alfredo) The demographic variation process of multitype branching random fields. **93j:60065**
— *see also* **Fernández, Begoña, 93d:60054**
Grannan, E. *see* **Chayes, J. T.; et al., 93a:60156**
Greven, Andreas (*with* den Hollander, Frank) Branching random walk in random environment: phase transitions for local and global growth rates. **93c:60160**
Grishechkin, S. A. Application of branching processes to finding stationary distributions in queueing theory. (Russian) **93m:60184**
— On a relationship between processor-sharing queues and Crump-Mode-Jagers branching processes. **93h:60150**
— Nearly irregular branching processes and their application to prioritized queues. **93f:60140**
— Multiclass batch arrival retrial queues analyzed as branching processes with immigration. (English summary) **93h:60151**
Han, Dong Uniqueness of martingale solutions to infinite-dimensional reaction-diffusion systems with multispecies. (Chinese. Chinese summary) **93k:60237**
den Hollander, Frank *see* **Greven, Andreas, 93c:60160**

Holst, Lars *see* **Barbour, A. D.; et al., 93g:60043**
Huggins, Richard M. *see* **Sriram, T. N.; et al., 93b:62118**
Ismail, Mourad E. H. (*with* Masson, David R.; Letessier, Jean; Valent, Galliano) Birth and death processes and orthogonal polynomials. **93c:42021**
Janson, Svante *see* **Barbour, A. D.; et al., 93g:60043**
Kaimanovich, V. A. Boundary and entropy of random walks in random environment. **93k:60174**
Kale, Mohan M. (*with* Deshmukh, Shailaja R.) Estimation in a continuous state space branching process. (English summary) **93m:62189**
Kersting, Götz A law of large numbers for stochastic difference equations. **93a:60048**
— Asymptotic Γ-distribution for stochastic difference equations. **93d:60033**
Konstantopoulos, Panagiotis *see* **Baccelli, François, 93f:68071**
Lee, Tzong-Yow Some large-deviation theorems for branching diffusions. (English summary) **93i:60052**
Letessier, Jean *see* **Ismail, Mourad E. H.; et al., 93c:42021**
López-Mimbela, J. Alfredo Fluctuation limits of multitype branching random fields. **93b:60044**
— *see also* **Gorostiza, Luis G., 93j:60065**
Madras, Neal (*with* Schinazi, Rinaldo) Branching random walks on trees. (English summary) **93j:60099**
Martínez, Servet A. *see* **Ferrari, Pablo Augusto; et al., 93h:60111** *and* **93i:60133**
Masson, David R. *see* **Ismail, Mourad E. H.; et al., 93c:42021**
Miller, Michael I. (*with* O'Sullivan, Joseph A.) Entropies and combinatorics of random branching processes and context-free languages. **93m:68103**
Mukhitdinov, A. A. *see* **Badalbaev, I. S., 93c:62138**
O'Sullivan, Joseph A. *see* **Miller, Michael I., 93m:68103**
Pakes, Anthony G. Divergence rates for explosive birth processes. **93g:60181**
Perkins, Edwin A. Conditional Dawson-Watanabe processes and Fleming-Viot processes. **93h:60078**
Picco, Pierre *see* **Ferrari, Pablo Augusto; et al., 93h:60111** *and* **93i:60133**
Schinazi, Rinaldo *see* **Madras, Neal, 93j:60099**
Sriram, T. N. (*with* Basawa, Ishwar V.; Huggins, Richard M.) Sequential estimation for branching processes with immigration. **93b:62118**
Swindle, G. *see* **Chayes, J. T.; et al., 93a:60156**
Valent, Galliano *see* **Ismail, Mourad E. H.; et al., 93c:42021**

60J85 Applications of branching processes [see also 92Dxx]

Pakes, Anthony G. Limit theorems for the numbers of rare mutants: a branching process model. (English summary) **93j:60122**

Items with secondary classifications in 60J85

Devroye, Luc A limit theory for random skip lists. (English summary) **93m:68033**
Jansons, Kalvis M. (*with* Rogers, L. C. G.) Probability theory and polymer physics. **93b:60187**
— (*with* Rogers, L. C. G.) Decomposing the branching Brownian path. (English summary) **93m:60167**
Meester, Ronald W. J. Connectivity in fractal percolation. (English summary) **93m:60201**
Ney, Peter E. Branching random walk. **93b:60196**
Okamoto, Tosihiko *see* **Suematsu, Kazumi, 93a:82073**
Rogers, L. C. G. *see* **Jansons, Kalvis M., 93b:60187** *and* **93m:60167**
Suematsu, Kazumi (*with* Okamoto, Tosihiko) Distribution of cyclic species in network formation: microscopic theory of branching processes. **93a:82073**

60J99 None of the above, but in this section

Chiang, Tsu Shu (*with* Chou, Yün Hsiung) A comparison of simulated annealing of Gibbs sampler and Metropolis algorithms. (English summary) (*see* **93e:62005**)
Chou, Yün Hsiung *see* **Chiang, Tsu Shu,** (93e:62005)
Watson, Ray (*with* Yip, Paul) A bivariate counting process. (English summary) **93m:60173**
Yip, Paul *see* **Watson, Ray, 93m:60173**

Items with secondary classifications in 60J99

Axelrad, D. R. (*with* Frydrychowicz, W.; Kamal, M. R.) Stochastic analysis of polymer melts with a binary structure. **93e:82056**
van Casteren, Jan A. W. Sur des différences de semi-groupes de Feynman-Kac: une propriété de trace. (English summary) [On differences of Feynman-Kac semigroups: a trace class property] **93e:47046**
Dargeiko, M. M. *see* **Gorin, V. V., 93g:00020**
Durran, Richard M. (*with* Truman, Aubrey) Log-concavity of radial Schrödinger wave functions and convergence of planetesimal diffusions. **93j:85004**
Fannes, M. (*with* Nachtergaele, Bruno; Slegers, L.) Functions of Markov processes and algebraic measures. **93g:82010**
Frydrychowicz, W. *see* **Axelrad, D. R.; et al., 93e:82056**
Gorin, V. V. (*with* Dargeiko, M. M.) Investigation of the feasibility of calculating the motion of a dynamic system without loss of accuracy. (Russian. English summary) **93g:00020**
Kamal, M. R. *see* **Axelrad, D. R.; et al., 93e:82056**
Kerov, S. V. q-analogue of the hook walk algorithm and random Young tableaux. (Russian) **93j:05167**
Nachtergaele, Bruno *see* **Fannes, M.; et al., 93g:82010**
Sattinger, D. H. (*with* Weinberger, H. F.) A stochastic model of latent image formation. **93a:35160**
Slegers, L. *see* **Fannes, M.; et al., 93g:82010**
Tóth, Bálint Probabilistic representation of the quantum Heisenberg ferromagnet—a painless GNS construction. (English summary) **93g:82012**
Truman, Aubrey *see* **Durran, Richard M., 93j:85004** *and* **Yu, K. Y., 93m:81019**
Weinberger, H. F. *see* **Sattinger, D. H., 93a:35160**
Yu, K. Y. (*with* Truman, Aubrey) Excursions for the ground-state of the spherical square well potential. (English summary) **93m:81019**

60Kxx Special processes

Items with secondary classifications in 60Kxx

Whittle, Peter A construction for processes with history-dependent transition intensities. (English summary) (*see* **93f:60003**)

60K05 Renewal theory

Adke, S. R. (*with* Balakrishna, N.) Renewal counting process induced by a discrete Markov chain. (English summary) **93j:60123**
Álvarez-Andrade, Sergio Accroissements du processus de renouvellement et conditions sur les moments des vecteurs aléatoires. (English and French summaries) [Moment conditions on random vectors and increments of the renewal process] **93i:60158**
Balakrishna, N. *see* **Adke, S. R., 93j:60123**
Baltrūnas, A. The asymptotic of harmonic renewal measures. (Russian and Lithuanian summaries) **93b:60197**
Cao, Jin Hua (*with* Wang, Yue Dong) The characterization problem for superpositions of two renewal processes. (Chinese. English and Chinese summaries) **93m:60174**
Cheng, Shi Xue Pure jump shock models in discrete time case. **93b:60198**
Csenki, Attila Some renewal-theoretic investigations in the theory of sojourn times in finite semi-Markov processes. **93b:60199**
Doney, R. A. (*with* O'Brien, George L.) Thickened renewal processes. (English summary) **93k:60215**
Frenk, J. B. G. *see* **Hansen, B. G., 93a:60138**
Gakis, K. G. (*with* Sivazlian, B. D.) The use of multiple integrals in the study of the backward and forward recurrence times for the ordinary renewal process. (English summary)
— (*with* Sivazlian, B. D.) A generalization of the inspection paradox in an ordinary renewal process. (English summary) **93j:60124**
Hansen, B. G. (*with* Frenk, J. B. G.) Some monotonicity properties of the delayed renewal function. **93a:60138**
Harel, Michel (*with* O'Cinneide, Colm A.; Schneider, Helmut) Comportement asymptotique de la fonction de renouvellement. (English and French summaries) [Asymptotic behavior of the sample renewal function] **93g:60186**
Heinrich, Lothar Bounds for the absolute regularity coefficient of a stationary renewal process. (English summary) **93j:60125**
Kalashnikov, V. V. Statistical estimates of transient periods for regenerative models by the coupling method. (English summary) **93k:60216**
Kallenberg, Wilbert C. M. *see* **Kroese, Dirk P., 93k:60217**
Kao, Edward P. C. (*with* Smith, Marion Spokony) On renewal processes relating to counter models: the case of phase-type interarrival times. (English summary) **93j:60126**
Klesov, O. I. A renewal theorem for a random walk with multidimensional time. (Russian. Ukrainian summary) **93d:60144**
Kopocińska, I. (*with* Kopociński, B.) On the extreme gap in the renewal process. **93c:60131**
Kopociński, B. The extreme gap in the multivariate Poisson process. **93b:60200**
— *see also* **Kopocińska, I., 93c:60131**
Kotlyar, V. Yu. Some properties of multidimensional renewal processes. (Russian. English and Ukrainian summaries) **93j:60127**
Kroese, Dirk P. (*with* Kallenberg, Wilbert C. M.) Second-order asymptotics in level crossing for differences of renewal processes. **93k:60217**
Kushnir, A. O. A limit theorem for the time of ε-convergence of two independent renewal processes. (Russian) **93h:60139**
Lindvall, T. A simple coupling of renewal processes. (English summary) **93j:60128**
Lyakhu, A. K. (*with* Matveev, V. F.) Finite projection of regenerative processes. (Russian. English, Russian and Moldavian summaries)
Matveev, V. F. *see* **Lyakhu, A. K.**
Melfi, Vincent F. Nonlinear Markov renewal theory with statistical applications. **93f:60129**
O'Brien, George L. *see* **Doney, R. A., 93k:60215**
O'Cinneide, Colm A. *see* **Harel, Michel; et al., 93g:60186**
Peigné, Marc Vitesse de convergence dans le théorème du renouvellement. [Rate of convergence in the renewal theorem] **93c:60132**
Roginsky, Allen L. A central limit theorem with remainder term for renewal processes. **93d:60145**
Schneider, Helmut *see* **Harel, Michel; et al., 93g:60186**
Sgibnev, M. S. Exponential estimates for the rate of convergence of higher renewal moments. (Russian) **93c:60133b**
— Asymptotic behavior of higher-order moments of renewals. (Russian) **93c:60133a**
Sivazlian, B. D. The use of multiple integrals in the characterization of renewal counting processes. (English summary) **93g:60187**
— *see also* **Gakis, K. G., 93j:60124**
Smith, Marion Spokony *see* **Kao, Edward P. C., 93j:60126**
Stadje, Wolfgang The time until two renewal processes come together. **93b:60201**
Thorisson, Hermann Backward limits and inhomogeneous regeneration. **93c:60134**
— Construction of a stationary regenerative process. (English summary) **93i:60159**
Ugrin-Šparac, D. Problem of uniqueness in the renewal process generated by the uniform distribution. (English summary) **93h:60140**
Wajda, Wojciech Some properties of nonhomogeneous transient renewal processes. **93e:60176**
Wang, Yue Dong *see* **Cao, Jin Hua, 93m:60174**

Items with secondary classifications in 60K05

Alsmeyer, Gerold On generalized renewal measures and certain first passage times. (English summary) **93i:60089**
Asmussen, Søren On coupling and weak convergence to stationarity. (English summary) **93k:60180**
Cavazos-Cadena, Rolando Existence of optimal stationary policies in average reward Markov decision processes with a recurrent state. **93e:90067**
Chang, Joseph T. On moments of the first ladder height of random walks with small drift. (English summary) **93i:60130**

Csenki, Attila The joint distribution of sojourn times in finite semi-Markov processes. **93g:60188**
Dai, Yong Long The maximal oscillation problem for p-functions. (Chinese. English and Chinese summaries) **93k:60181**
— The maximal value problem for p-functions. (Chinese. English and Chinese summaries)
Frenz, Michael (*with* Schmidt, Volker) An insensitivity property of ladder height distributions. **93j:60062**
Fuchs, Aimé (*with* Letta, Giorgio) Un résultat élémentaire de fiabilité. Application à la formule de Weierstrass sur la fonction gamma. (French summary) [An elementary reliability result. Application to the Weierstrass formula on the gamma function] **93k:60034**
Glasserman, Paul (*with* Hu, Jian Qiang; Strickland, Stephen G.) Strongly consistent steady-state derivative estimates. (English summary) **93f:60139**
Goldie, Charles M. Implicit renewal theory and tails of solutions of random equations. **93i:60118**
Haas, Peter J. The maximum and mean of a random length sequence. **93i:60099**
(Heyman, D. P.) *see* **Stochastic models, 93a:60001**
Hu, Jian Qiang *see* **Glasserman, Paul; et al., 93f:60139**
Huang, Wên Chang On the characterization of point processes with the exchangeable and Markov properties. (English summary) **93d:60086**
— (*with* Puri, Prem S.) On some characterizations of the Poisson processes arising in queues with infinite servers. (English summary) **93e:60091**
Huang, Zhi Rui Semi-p-functions and p-functions on semigroups. (*see* **93b:00022**)
Kaimanovich, V. A. Boundary and entropy of random walks in random environment. **93k:60174**
Kijima, Masaaki Further monotonicity properties of renewal processes. **93g:60026**
Letta, Giorgio *see* **Fuchs, Aimé, 93k:60034**
Pakes, Anthony G. Divergence rates for explosive birth processes. **93g:60181**
Puri, Prem S. *see* **Huang, Wên Chang, 93e:60091**
Resnick, Sidney I. ★ Adventures in stochastic processes. **93m:60004**
Schmidt, Volker *see* **Frenz, Michael, 93j:60062**
Shaked, Moshe (*with* Zhu, Haolong) Some results on block replacement policies and renewal theory. (English summary) **93h:60142**
(Sobel, Matthew J.) *see* **Stochastic models, 93a:60001**
Strickland, Stephen G. *see* **Glasserman, Paul; et al., 93f:60139**
Teugels, Jozef L. *see* **Willekens, E., 93d:60158**
Willekens, E. (*with* Teugels, Jozef L.) Asymptotic expansions for waiting time probabilities in an $M/G/1$ queue with long-tailed service time. **93d:60158**
Woodroofe, Michael The role of renewal theory in sequential analysis. (*see* **93g:62102**)
Zhu, Haolong *see* **Shaked, Moshe, 93h:60142**

Items listed otherwise than by author

Stochastic models ★ Stochastic models. **93a:60001**

60K10 Applications (reliability, demand theory, etc.)

Abolnikov, Lev (*with* Dshalalow, Jewgeni H.) A first passage problem and its applications to the analysis of a class of stochastic models. **93d:60146**
Block, Henry W. (*with* Langberg, Naftali A.; Savits, Thomas H.) Repair replacement policies. (English summary) **93j:60129**
Brady, Bennett (*with* Singpurwalla, Nozer D.) Stochastically monotone dependence. (English summary) **93i:60160**
Cheng, Kan Some recent advances on reliability theory in China. **93i:60161**
Costantini, Cristina (*with* Spizzichino, Fabio) Optimal stopping of life-testing: use of stochastic orderings in the case of conditionally exponential lifetimes. (English summary) (*see* **93g:60003**)
Das, Tapas K. (*with* Wortman, Martin A.) Performance evaluation of n-unit priority standby systems. (English summary) **93j:60130**
Dimitrov, B. *see* **Rachev, Svetlozar T.; et al., 93m:60175**
Dshalalow, Jewgeni H. *see* **Abolnikov, Lev, 93d:60146**
Dvinskikh, S. F. Reliability of a system with multiple failures. (Russian)
— (*with* Solov′ev, A. D.) Repairable systems with multiple failures. (Russian)
El-Neweihi, Emad (*with* Sethuraman, Jayaram) A study of the role of modules in the failure of systems. (English summary) **93j:60131**
Gaede, Karl-Walter Stochastic orderings in reliability. (English summary) (*see* **93g:60003**)
Griffith, William S. *see* **Sheu, Shey Huei, 93j:60135**
Iyer, Srinivas The Barlow-Proschan importance and its generalizations with dependent components. (English summary) **93h:60141**
Kao, Edward P. C. (*with* Smith, Marion Spokony) On excess- , current- , and total-life distributions of phase-type renewal processes. (English summary)
Khalil, Zohel *see* **Rachev, Svetlozar T.; et al., 93m:60175**
Konstant, D. G. *see* **Solov′ev, A. D., 93f:60130**
Konstantinidis, D. G. (*with* Solov′ev, A. D.) A uniform estimate for the reliability of a complex repairable system with an unlimited number of repair units. (Russian. Russian summary) **93j:60132**
Kováts, Antal (*with* Móri, Tamás F.) Ageing properties of certain dependent geometric sums. **93j:60133**
Lai, Min Tsai (*with* Yuan, John) An optimal replacement period for a parallel system with single and multiple failures. (English summary) **93k:60218**
Langberg, Naftali A. *see* **Block, Henry W.; et al., 93j:60129**
Li, Wei *see* **Shi, Ding Hua**
Marchuk, G. A. *see* **Stoĭkova, L. S.**
Móri, Tamás F. *see* **Kováts, Antal, 93j:60133**
Niculescu, Ştefan P. (*with* Viertl, Reinhard) A comparison between two fuzzy estimators for the mean. (English summary)
Ohi, Fumio (*with* Proschan, Frank) Crossing properties of reliability functions. (English summary) **93j:60134**
Proschan, Frank *see* **Ohi, Fumio, 93j:60134**
Rachev, Svetlozar T. (*with* Dimitrov, B.; Khalil, Zohel) A probabilistic approach to optimal quality usage. (English summary) **93m:60175**
Savits, Thomas H. *see* **Block, Henry W.; et al., 93j:60129**
Sethuraman, Jayaram *see* **El-Neweihi, Emad, 93j:60131**
Shaked, Moshe (*with* Shanthikumar, J. George) Reliability and maintainability. (*see* **93a:60001**)
— (*with* Shanthikumar, J. George) Dynamic construction and simulation of random vectors. (English summary) **93i:60162**
— (*with* Shanthikumar, J. George) Shock models with MIFRA time to failure distributions. **93b:60202**
— (*with* Shanthikumar, J. George) Dynamic multivariate aging notions in reliability theory. **93a:60139**
— (*with* Zhu, Haolong) Some results on block replacement policies and renewal theory. (English summary) **93h:60142**
Shanthikumar, J. George *see* **Shaked, Moshe, 93a:60139; 93b:60202; 93i:60162** *and* **(93a:60001)**
Sheu, Shey Huei (*with* Griffith, William S.) Multivariate imperfect repair. (English summary) **93j:60135**
Shi, Ding Hua (*with* Li, Wei) Availability analysis of a two-unit series system with shut-off rule and "first-fail, first-repaired".
Singpurwalla, Nozer D. (*with* Youngren, Mark A.) Models for dependent lifelengths induced by common environments. (English summary) (*see* **93f:62004**)
— *see also* **Brady, Bennett, 93i:60160**
Smith, Marion Spokony *see* **Kao, Edward P. C.**
Solov′ev, A. D. (*with* Konstant, D. G.) Reliability estimation of a complex renewable system with an unbounded number of repair units. **93f:60130**
— *see also* **Konstantinidis, D. G., 93j:60132** *and* **Dvinskikh, S. F.**
Spizzichino, Fabio *see* **Costantini, Cristina, (93g:60003)**
Stoĭkova, L. S. (*with* Marchuk, G. A.) Sharp estimates for the probability of failure in several models of reliability with incomplete information. (Russian. English and Russian summaries)
Tang, Ying Hui A comparison of shock systems. (Chinese. English and Chinese summaries)
Viertl, Reinhard *see* **Niculescu, Ştefan P.**
Wang, Yin Sheng (*with* Yao, Wen Qi; Yue, De Quan) Reliability analysis of a two-dependent-unit parallel system with replaceable repair facility. (Chinese. English and Chinese summaries)
Wortman, Martin A. *see* **Das, Tapas K., 93j:60130**
Yao, Wen Qi *see* **Wang, Yin Sheng; et al.**
Youngren, Mark A. *see* **Singpurwalla, Nozer D., (93f:62004)**
Yuan, John *see* **Lai, Min Tsai, 93k:60218**
Yue, De Quan *see* **Wang, Yin Sheng; et al.**
Zacks, Shelemyahu ★ Introduction to reliability analysis. **93a:60140**
Zhu, Haolong *see* **Shaked, Moshe, 93h:60142**

Items with secondary classifications in 60K10

Abouammoh, A. M. (*with* Ahmed, Abdul-Hadi Nabih) On renewal failure rate classes of life distributions. **93c:62158**
Ahmed, Abdul-Hadi Nabih *see* **Abouammoh, A. M., 93c:62158**
Arjas, Elja (*with* Norros, Ilkka) Should minimal repair depend on information? (English summary) **93i:60091**
— (*with* Norros, Ilkka) Stochastic order and martingale dynamics in multivariate life length models: a review. (English summary) **93j:60061**
Bunday, Brian D. ★ Statistical methods in reliability theory and practice. **93b:62132**
Canfield, E. Rodney (*with* McCormick, William P.) Asymptotic reliability of consecutive k-out-of-n systems. **93d:90023**
Csenki, Attila Some renewal-theoretic investigations in the theory of sojourn times in finite semi-Markov processes. **93b:60199**
Ebrahimi, Nader Information theory and the failure time of a system. (English summary) **93k:62010**
Günlük, N. O. *see* **Özekici, S., 93d:90024**
Iyer, Srinivas Availability results for imperfect repair. (English summary) **93m:90039**
Jung, Young-Sik (*with* Nagasawa, Hiroyuki; Nishiyama, Noriyuki) Extension of deterministic scheduling in stochastic scheduling. (English summary) **93h:90048**
Kao, Edward P. C. (*with* Smith, Marion Spokony) On renewal processes relating to counter models: the case of phase-type interarrival times. (English summary) **93j:60126**
Koutras, Markos V. *see* **Papastavridis, Stavros G., 93k:62207**
Limnios, N. Repairable failure-delay systems with elementary structure. (English summary)
Lindqvist, Bo Henry Moment inequalities for the reliability function. **93k:62204**
Lototskiĭ, V. A. (*with* Mandel′, A. S.) ★ Модели и методы управления запасами. (Russian. English and Russian summaries) [Models and methods of inventory control] **93k:90032**
Mandel′, A. S. *see* **Lototskiĭ, V. A., 93k:90032**
Manoharan, M. Preservation of ILR property under mixed Poisson shock model. (English summary) **93k:62205**
McCormick, William P. *see* **Canfield, E. Rodney, 93d:90023**
Nagasawa, Hiroyuki *see* **Jung, Young-Sik; et al., 93h:90048**
Nishiyama, Noriyuki *see* **Jung, Young-Sik; et al., 93h:90048**
Norros, Ilkka *see* **Arjas, Elja, 93i:60091** *and* **93j:60061**
Özekici, S. (*with* Günlük, N. O.) Maintenance of a device with age-dependent exponential failures. **93d:90024**
Papastavridis, Stavros G. (*with* Koutras, Markos V.) Consecutive k-out-of-n systems with maintenance. (English summary) **93k:62207**
Roussas, George G. Kernel estimates under association: strong uniform consistency. **93f:62059**
Savits, Thomas H. Repair policies and stochastic order. (English summary) **93g:90042**
Shaked, Moshe (*with* Shanthikumar, J. George) Optimal allocation of resources to nodes of parallel and series systems. (English summary) **93h:90045**
Shanthikumar, J. George *see* **Shaked, Moshe, 93h:90045**
Smith, Marion Spokony *see* **Kao, Edward P. C., 93j:60126**
Tang, Ying Hui Reliability bounds for shock models. (Chinese. English and Chinese summaries)
Titenko, I. M. Controllable systems with minimally complete restoration. (Russian. Russian summary) **93f:90084**

Venugopal, N. Some new approaches to problems in storage and general reliability systems. (*see* **93m:60007**)
Watelet, L. (*with* Winter, B. B.) Nonparametric estimation of nonincreasing densities and use of data from renewal processes. **93a:62070**
Winter, B. B. *see* **Watelet, L., 93a:62070**

60K15 Markov renewal processes, semi-Markov processes

Anisimov, Vladimir Vladislavovich The averaging principle for switching processes. (Ukrainian. Russian and Ukrainian summaries) **93k:60219**
Ball, Frank (*with* Milne, Robin K.; Yeo, Geoffrey F.) Aggregated semi-Markov processes incorporating time interval omission. **93e:60177**
Chand, Shubhag *see* **Gupta, Yash P.**
Coyle, A. J. (*with* Taylor, P. G.) Bounds on the sensitivity of generalised semi-Markov processes with a single generally distributed lifetime. **93d:60147**
Csenki, Attila The joint distribution of sojourn times in finite semi-Markov processes. **93g:60188**
Dharmadhikari, A. D. (*with* Kuber, M. M.) The association in time of a binary semi-Markov process. (English summary) **93j:60136**
Ebrahimi, Nader More predictable, less predictable and stable counting processes. (English summary) **93m:60176**
Glasserman, Paul (*with* Yao, David D.) Monotonicity in generalized semi-Markov processes. **93e:60178**
Gupta, Yash P. (*with* Chand, Shubhag) Markov renewal processes with random number of delays: an application to a conception and birth model. (English and Italian summaries)
Kharlamov, B. P. On statistics of continuous Markov processes: semi-Markov approach. **93d:60148**
Komashko, O. V. Stability of a Markov chain embedded in a Markov renewal process that describes the superposition of independent renewal processes. (Russian. Russian summary) **93j:60137**
Kuber, M. M. *see* **Dharmadhikari, A. D., 93j:60136**
Kumar, B. Krishna (*with* Parthasarathy, P. R.) Number of deaths in semi-Markov compartmental system with branching particles. (English summary) **93h:60143**
Lam, C. Y. Teresa New better than used in expectation processes. **93b:60203**
Masuda, Yasushi (*with* Sumita, Ushio) Dynamic analysis of matrix Lindley process with replacement. (English summary) **93k:60220**
— *see also* **Sumita, Ushio, 93e:60179**
Milne, Robin K. *see* **Ball, Frank; et al., 93e:60177**
Parthasarathy, P. R. *see* **Kumar, B. Krishna, 93h:60143**
Pirdzhanov, B. P. A semi-Markov random walk on the superposition of two stationary renewal processes. (Russian)
— An extended semi-Markov random walk with lattice time. (Russian. English summary) **93c:60135**
Sumita, Ushio (*with* Masuda, Yasushi) Analysis of multivariate Markov modulated Poisson processes. (English summary) **93e:60179**
— *see also* **Masuda, Yasushi, 93k:60220**
Taylor, P. G. Algebraic criteria for extended product form in generalised semi-Markov processes. (English summary) **93k:60221**
— *see also* **Coyle, A. J., 93d:60147**
Wajda, Wojciech Regularity of nonhomogeneous semi-Markov process. (English summary)
Yao, David D. *see* **Glasserman, Paul, 93e:60178**
Yeo, Geoffrey F. *see* **Ball, Frank; et al., 93e:60177**

Items with secondary classifications in 60K15

Abolnikov, Lev (*with* Dshalalow, Jewgeni H.) A first passage problem and its applications to the analysis of a class of stochastic models. **93d:60146**
de Acosta, Alejandro D. (*with* Ney, Peter E.; Nummelin, Esa) Large deviation lower bounds for general sequences of random variables. **93b:60053**
Bunge, J. A. (*with* Nagaraja, H. N.) Exact distribution theory for some point process record models. **93d:62025**
— (*with* Nagaraja, H. N.) Correction: "Exact distribution theory for some point process record models" [Adv. in Appl. Probab. **24** (1992), no. 1, 20–44; MR 93d:62025]. **Csenki, Attila** Some renewal-theoretic investigations in the theory of sojourn times in finite semi-Markov processes. **93b:60199**
Dabrowski, André Robert (*with* McDonald, David) Statistical analysis of multiple ion channel data. (English summary) **93m:62208**
Dembo, Amir *see* **Karlin, Samuel, 93b:60042**
Dshalalow, Jewgeni H. *see* **Abolnikov, Lev, 93d:60146**
Karlin, Samuel (*with* Dembo, Amir) Limit distributions of maximal segmental score among Markov-dependent partial sums. **93b:60042**
Kwieciński, A. (*with* Szekli, R.) Compensator conditions for stochastic ordering of point processes. **93f:60063**
Laws, C. N. Resource pooling in queueing networks with dynamic routing. **93h:90037**
Malinovskii, V. K. Large deviations for recurrent Markov renewal processes. (Russian) **93c:60036**
McDonald, David *see* **Dabrowski, André Robert, 93m:62208**
Meifi, Vincent F. Nonlinear Markov renewal theory with statistical applications. **93f:60129**
Nagaraja, H. N. *see* **Bunge, J. A., 93d:62025**
Ney, Peter E. *see* **de Acosta, Alejandro D.; et al., 93b:60053**
Nummelin, Esa *see* **de Acosta, Alejandro D.; et al., 93b:60053**
Papadopoulou, A. A. *see* **Vassiliou, P.-C. G., 93e:90032**
Sil'vestrov, D. S. The invariance principle for accumulation processes with semi-Markov switchings in a scheme of arrays. (Russian) **93c:60045**
Smith, Richard L. The extremal index for a Markov chain. **93e:60101**
Svishchuk, A. V. Uniqueness of the solution of a martingale problem for semi-Markov random evolutions. (Russian. Russian summary) (*see* **93e:60002**)
— Stochastic integral operator equation for the limiting semi-Markov random evolution in lumping scheme. (*see* **93k:60008**)
— Dual approximation of random evolutions in an averaging scheme. (Russian. Russian and Ukrainian summaries) **93h:60097**
Szekli, R. *see* **Kwieciński, A., 93f:60063**
Vassiliou, P.-C. G. (*with* Papadopoulou, A. A.) Nonhomogeneous semi-Markov systems and maintainability of the state sizes. **93e:90032**

60K20 Applications of Markov renewal processes (reliability, queueing networks, etc.) [see also 90Bxx]

Booth, James G. A note on a one-compartment model with clustering. **93j:60138**
Csenki, Attila Occupation frequencies for irreducible finite semi-Markov processes with reliability applications. (English summary)
Glasserman, Paul (*with* Yao, David D.) Generalized semi-Markov processes: antimatroid structure and second-order properties. **93b:60204**
Lehtonen, Tapani (*with* Nyrhinen, Harri) On asymptotically efficient simulation of ruin probabilities in a Markovian environment. (English summary) **93h:60144**
Nyrhinen, Harri *see* **Lehtonen, Tapani, 93h:60144**
Sztrik, János Asymptotic analysis of a complex repairable standby system. (Russian) **93d:60149**
Yao, David D. *see* **Glasserman, Paul, 93b:60204**

Items with secondary classifications in 60K20

Chand, Shubhag *see* **Gupta, Yash P., 93g:90031**
Dabrowski, André Robert (*with* McDonald, David) Statistical analysis of multiple ion channel data. (English summary) **93m:62208**
Gaede, Karl-Walter Stochastic orderings in reliability. (English summary) (*see* **93g:60003**)
Glasserman, Paul (*with* Yao, David D.) Monotonicity in generalized semi-Markov processes. **93e:60178**
Günlük, N. O. *see* **Özekici, S., 93d:90024**
Gupta, Yash P. (*with* Chand, Shubhag) Inventory system analysis by Markov renewal processes. (English summary) **93g:90031**
Lam, C. Y. Teresa New better than used in expectation processes. **93b:60203**
McDonald, David *see* **Dabrowski, André Robert, 93m:62208**
Özekici, S. (*with* Günlük, N. O.) Maintenance of a device with age-dependent exponential failures. **93d:90024**
Shaked, Moshe (*with* Shanthikumar, J. George) Shock models with MIFRA time to failure distributions. **93b:60202**
Shanthikumar, J. George *see* **Shaked, Moshe, 93b:60202**
So, Kut C. Optimality of control limit policies in replacement models. **93e:90029**
Yao, David D. *see* **Glasserman, Paul, 93e:60178**

60K25 Queueing theory [see also 68M20, 90B22]

Abate, Joseph (*with* Kijima, Masaaki; Whitt, Ward) Decompositions of the $M/M/1$ transition function. **93b:60205**
— (*with* Whitt, Ward) Solving probability transform functional equations for numerical inversion. (English summary) **93i:60163**
Abolnikov, Lev (*with* Dshalalow, Jewgeni H.) On a multilevel controlled bulk queueing system $M^X/G^{Y,R}/1$. (English summary) **93m:60177**
— (*with* Dshalalow, Jewgeni H.; Dukhovny, Alexander) On stochastic processes in a multilevel control bulk queueing system. **93b:60206**
— (*with* Dshalalow, Jewgeni H.) Semi-regenerative analysis of controlled bulk queueing systems with a bilevel service delay discipline and some ergodic theorems. (English summary) **93j:60139**
Adan, Ivo Jean-Baptiste François ★ A compensation approach for queueing problems. **93c:60136**
— (*with* Wessels, Jaap; Zijm, W. H. M.) Analysis of the asymmetric shortest queue problem with threshold jockeying. **93a:60141**
Agarwal, Manju *see* **Chaudhry, Mohan L.; et al., 93b:60207**
Altman, Eitan (*with* Konstantopoulos, Panagiotis; Liu, Zhen) Stability, monotonicity and invariant quantities in general polling systems. (English summary) **93f:60131**
— (*with* Khamisy, Asad; Yechiali, Uri) On elevator polling with globally gated regime. (English summary) **93f:60132**
Anastassiou, George A. (*with* Rachev, Svetlozar T.) Moment problems and their applications to the stability of queueing models. (English summary) **93k:60222**
Anisimov, Vladimir Vladislavovich (*with* Atadzhanov, Kh. L.) ★ Асимптотический анализ очередей в системах с повторными вызовами и сдвоенными соединениями. (Russian. Russian summary) [Asymptotic analysis of queues in systems with repeated calls and with duplex connections] **93f:60133**
— (*with* Atatdzhanov, Kh. L.) Asymptotic analysis of highly reliable systems with repeated calls. (Russian) **93d:60150**
— (*with* Atadzhanov, Kh. L.) Diffusion approximation of systems with repeated calls. (Russian) **93d:60151**
Asmussen, Søren (*with* Rubinstein, Reuven Y.) The efficiency and heavy traffic properties of the score function method in sensitivity analysis of queueing models. **93d:60152**
— Light traffic equivalence in single-server queues. (English summary) **93j:60140**
— (*with* Perry, David) On cycle maxima, first passage problems and extreme value theory for queues. (English summary) **93i:60164**
Atadzhanov, Kh. L. *see* **Anisimov, Vladimir Vladislavovich, 93d:60151** *and* **93f:60133**
Atatdzhanov, Kh. L. *see* **Anisimov, Vladimir Vladislavovich, 93d:60150**
Baba, Yutaka A gated processor-sharing $M/G/1$ queue with limited number of service positions.
Baccelli, François (*with* Liu, Zhen) On a class of stochastic recursive sequences arising in queueing theory. **93c:60137**
— (*with* Karpelevich, F. I.; Kel'bert, M. Ya.; Pukhal'skiĭ, A. A.; Rybko, A. N.; Sukhov, Yu. M.) A mean-field limit for a class of queueing networks. **93i:60165**
— *see also* **Liu, Zhen, 93f:60144**
Balocchi, Andrea Asymptotic behaviour of the loss probability of the $M/G/1/K$ and $G/M/1/K$ queues. **93c:60138**
Bambos, Nicholas On closed ring queueing networks. (English summary) **93h:60145**
Berger, Arthur W. (*with* Whitt, Ward) The impact of a job buffer in a token-bank rate-control throttle. (English summary) **93i:60166**

— (*with* Whitt, Ward) Comparisons of multi-server queues with finite waiting rooms. (English summary) **93i:60167**
Bertsimas, Dimitris J. (*with* Nakazato, Daisuke) Transient and busy period analysis of the $GI/G/1$ queue: the method of stages. **93c:60139**
Bhattacharya, Partha P. (*with* Ephremides, Anthony) Stochastic monotonicity properties of multiserver queues with impatient customers. **93d:60153**
Birman, Alexander (*with* Kogan, Ya. A.) Asymptotic evaluation of closed queueing networks with many stations. (English summary) **93e:60180**
Borst, S. C. (*with* Combé, M. B.) Letter to the editor: "Busy-period analysis of a correlated queue with exponential demand and service" [J. Appl. Probab. **24** (1987), no. 2, 476–485; MR 88g:60229] by C. Langaris. **93f:60134**
Botta, Robert F. *see* **Harris, Carl M.; et al., 93b:60214**
Boucherie, Richard J. A note on the transient behaviour of the Engset loss model. (English summary) **93k:60223**
— (*with* van Dijk, Nico M.) A generalization of Norton's theorem for queueing networks. (English summary) **93m:60178**
Braglia, M. $M/M/1$ queuing model with ordinary maintenance and breakdowns. (English and French summaries)
Bratiichuk, N. S. (*with* Pirdzhanov, B. P.) The busy period of the queueing system $GI|G|1$. (Russian. English summary) **93c:60140**
— (*with* Pirdzhanov, B. P.) On a new approach in studying the busy period of system $GI/G/1$. (*see* **93k:60008**)
Brémaud, Pierre Event and time averages: the stationary case and the nonstationary case. **93f:60135**
— (*with* Vázquez-Abad, Felisa J.) On the pathwise computation of derivatives with respect to the rate of a point process: the phantom RPA method. **93d:60154**
Brill, P. H. (*with* Harris, Carl M.) Waiting times for $M/G/1$ queues with service-time or delay-dependent server vacations. (English summary) **93g:60189**
Brimberg, Jack *see* **Mehrez, A.**
Browne, Sid (*with* Coffman, Edward G., Jr.; Gilbert, Edgar N.; Wright, Paul E.) The gated infinite-server queue: uniform service times. (English summary) **93h:60146**
Bunday, Brian D. *see* **Sztrik, János, 93g:60200**
Cao, Cheng Xian *see* **Tian, Nai Shuo; et al., 93a:60151**
Cao, Xi-Ren A new method of performance sensitivity analysis for non-Markovian queueing networks. **93d:60155**
Cassandras, Christos G. *see* **Gong, Wei Bo; et al., 93i:60172** *and* **Sparaggis, Panayotis D.; et al., 93j:60150**
Chang, Chin Fu (*with* Harn, Ywh-Pyng) A discrete-time priority queue with two-class customers and bulk services. **93c:60141**
Chao, Xiuli On the departure processes of $M/M/1/N$ and $GI/G/1/N$ queues. **93f:60136**
Chaudhry, Mohan L. (*with* Gupta, U. C.; Madill, B. R.) Computational aspects of bulk-service queueing system with variable capacity and finite waiting space: $M/G^Y/1/N+B$. **93a:60142**
— (*with* Medhi, J.; Templeton, James G. C.) Single-arrival bulk-service queues with one server. (*see* **93m:60007**)
— Computing stationary queueing-time distributions of $GI/D/1$ and $GI/D/c$ queues. (English summary) **93h:60147**
— (*with* Agarwal, Manju; Templeton, James G. C.) Exact and approximate numerical solutions of steady-state distributions arising in the queue $GI/G/1$. **93b:60207**
Chen, Hong[3] (*with* Mandelbaum, Avi) Stochastic discrete flow networks: diffusion approximations and bottlenecks. **93a:60143**
Chernova, N. I. Ergodicity conditions for a class of queueing systems. (Russian) (*see* **93m:00026**)
Choi, Bong Dae (*with* Shin, Yang Woo) Approximation analysis of time-dependent queue size distribution for $GI/G/m$ system using diffusion process. (*see* **93k:00029**)
— (*with* Shin, Yang Woo) Transient diffusion approximation for $M/G/m$ system. **93c:60142**
— (*with* Kulkarni, V. G.) Feedback retrial queueing systems. (English summary) **93m:60179**
— (*with* Park, Kwang Kyu) The $M^k/M/\infty$ queue with heterogeneous customers in a batch. **93b:60208**
— (*with* Han, Dong Hwan; Falin, G. I.) On the virtual waiting time for an $M/G/1$ retrial queue with two types of calls. (English summary) **93m:60180**
Choukri, T. The transient blocking probabilities in $M/M/N$ loss systems via large deviations. (English summary)
Chumac, V. P. Asymptotics of the moments of the busy period of the priority system $\overrightarrow{M}_2|\overrightarrow{G}_2|1|\infty$ with orientation under critical load conditions. (Russian. English and Moldavian summaries)
— (*with* Mishkoi, G. K.) Asymptotics of the queue length of the $\overrightarrow{M}_r|\overrightarrow{G}_r|1|\infty$ priority queuing system with orientation. (*see* **93k:60008**)
Coffman, Edward G., Jr. (*with* Pukhal'skiĭ, A. A.; Reiman, Martin I.) Storage-limited queues in heavy traffic. (English summary) **93g:60190**
— *see also* **Browne, Sid; et al., 93h:60146**
Combé, M. B. *see* **Borst, S. C., 93f:60134**
Conti, M. (*with* Gregori, E.; Lenzini, L.) On the approximation of the slot occupancy pattern in a DQDB network. (English summary)
Cooper, Robert B. Queueing theory. (*see* **93a:60001**)
Craveirinha, José *see* **Tralhão, Lino; et al., (93g:62001**)
Dai, J. G. (*with* Wang, Y.) Nonexistence of Brownian models for certain multiclass queueing networks. (English summary)
Daigle, John N. (*with* Magalhães, Marcos N.) Transient behavior of $M/M^{[i]}/1$ queues. **93b:60209**
— (*with* Tang, Stanley C.) The queue length distribution for multiserver discrete time queues with batch Markovian arrivals. (English summary) **93i:60168**
Daley, D. J. (*with* Kreinin, A. Ya.; Trengove, C. D.) Inequalities concerning the waiting-time in single-server queues: a survey. (English summary) **93k:60224**
— (*with* Rolski, Tomasz) Light traffic approximations in many-server queues. **93b:60210**
— (*with* Rolski, Tomasz) Finiteness of waiting-time moments in general stationary single-server queues. (English summary) **93m:60181**
— (*with* Servi, L. D.) Exploiting Markov chains to infer queue length from transactional data. **93i:60169**
Danielyan, É. A. (*with* Liese, Friedrich) The analysis of a $M_r/G_r/1/\infty$ model with time dependent priorities. **93b:60211**
van Dijk, Nico M. (*with* Taylor, P. G.) An error bound for a continuous time approximation of discrete time servicing. (English summary) **93j:60141**
— *see also* **Boucherie, Richard J., 93m:60178**
Ding, Jie (*with* Greenberg, Betsy S.) Bowl shapes are better with buffers—sometimes. (English summary)
— (*with* Greenberg, Betsy S.) Optimal order for servers in series with no queue capacity. (English summary)
Disney, Ralph L. *see* **Wortman, Martin A.; et al., 93d:60159**
Drmota, Michael (*with* Schmid, Ulrich) Exponential limiting distributions in queueing systems with deadlines. (English summary) **93m:60182**
Dshalalow, Jewgeni H. On single-server closed queues with priorities and state dependent parameters. **93a:60144**
— (*with* Russell, Gary) On a single-server queue with fixed accumulation level, state dependent service, and semi-Markov modulated input flow. **93c:60143**
— On a first passage problem in general queueing systems with multiple vacations. (English summary) **93k:60225**
— Single-server queues with controlled bulk service, random accumulation level, and modulated input. (English summary) **93m:60183**
— *see also* **Abolnikov, Lev; et al., 93b:60206**; **93j:60139** *and* **93m:60177**
Dukhovny, Alexander *see* **Abolnikov, Lev; et al., 93b:60206**
El-Sayed, Khaled M. F. *see* **Mostafa, Magdi S., 93a:60149**
El-Taha, Muhammad On conditional ASTA: a sample-path approach. **93e:60181**
— (*with* Stidham, Shaler, Jr.) A filtered ASTA property. (English summary) **93h:60148**
Ephremides, Anthony *see* **Bhattacharya, Partha P., 93d:60153**
Falin, G. I. Models of circuit-switching ISDN with distributed control. (*see* **93k:00029**)
— Phase transitions in overloaded computer and communication systems. (*see* **93k:00029**)
— Space-heterogeneous random walks on semi-strips associated with retrial queues. (*see* **93k:00029**)
— *see also* **Khalil, Zohel; et al., 93c:60146** *and* **Choi, Bong Dae; et al., 93m:60180**
Ferrandiz, Josep M. (*with* Lazar, Aurel A.) Monitoring the packet gap of real-time packet traffic. (English summary) **93i:60170**
Flores, Christopher Diffusion approximations for computer communications networks. **93c:60144**
Foley, R. D. (*with* Klutke, Georgia-Ann; König, Dieter) Stationary increments of accumulation processes in queues and generalized semi-Markov schemes. **93b:60212**
Foss, S. G. Ergodicity of queueing networks. (Russian) **93a:60145**
Fu, Michael C. (*with* Hu, Jian Qiang) Extensions and generalizations of smoothed perturbation analysis in a generalized semi-Markov process framework. (English summary) **93i:60171**
Fuhrmann, Steve W. A decomposition result for a class of polling models. (English summary) **93g:60191**
— *see also* **Sidi, Moshe; et al., 93g:60198** *and* **Iliadis, I., 93h:60152**
Ganz, Aura *see* **Koren, Zahava, 93e:60182**
Georgiadis, Leonidas (*with* Szpankowski, Wojciech) Stability of token passing rings. (English summary) **93f:60137**
Gerasimov, A. I. An integral method for computation of closed queueing networks. (Russian. Russian summary) **93f:60138**
Ghosh, A. K. *see* **Mandal, B. N.**
Gilbert, Edgar N. *see* **Browne, Sid; et al., 93h:60146**
Glasserman, Paul (*with* Gong, Wei Bo) Time-changing and truncating K-capacity queues from one K to another. **93a:60146**
— (*with* Hu, Jian Qiang; Strickland, Stephen G.) Strongly consistent steady-state derivative estimates. (English summary) **93f:60139**
— Smoothing complements and randomized score functions. (English summary) **93j:60142**
— Stationary waiting time derivatives. (English summary) **93h:60149**
Gong, Wei Bo (*with* Yan, Anlu; Cassandras, Christos G.) The $M/G/1$ queue with queue-length dependent arrival rate. (English summary) **93i:60172**
— (*with* Hu, Jian Qiang) The MacLaurin series for the $GI/G/1$ queue. **93b:60213**
— *see also* **Glasserman, Paul, 93a:60146** *and* **Sparaggis, Panayotis D.**
Greenberg, Betsy S. *see* **Ding, Jie**
Gregori, E. *see* **Conti, M.; et al.**
Grishechkin, S. A. Application of branching processes to finding stationary distributions in queueing theory. (Russian) **93m:60184**
— On a relationship between processor-sharing queues and Crump-Mode-Jagers branching processes. **93h:60150**
— Nearly irregular branching processes and their application to prioritized queues. **93f:60140**
— Multiclass batch arrival retrial queues analyzed as branching processes with immigration. (English summary) **93h:60151**
Grübel, Rudolf (*with* Pitts, Susan M.) A functional approach to the stationary waiting time and idle period distributions of the $GI/G/1$ queue. (English summary) **93k:60226**
Gupta, J. M. *see* **Sen, Kanwar; et al., 93j:60147**
Gupta, U. C. *see* **Chaudhry, Mohan L.; et al., 93a:60142**
Han, Dong Hwan *see* **Choi, Bong Dae; et al., 93m:60180**
Harn, Ywh-Pyng *see* **Chang, Chin Fu, 93c:60141**
Harris, Carl M. (*with* Marchal, William G.; Botta, Robert F.) A note on generalized hyperexponential distributions. **93b:60214**
— *see also* **Brill, P. H., 93g:60189**
Harrison, J. Michael (*with* Nguyen, Viên) Brownian models of multiclass queueing networks: current status and open problems. (English summary) **93m:60185**
Hasegawa, Toshiharu *see* **Takine, Tetsuya, 93g:60201**; **93j:60151**; **93j:60152** *and* **93m:60190**
He, Qi Ming An analysis of slow server systems and an algorithm. (Chinese. English and Chinese summaries)
— A note on queueing system $M/M/1$. **93b:60215**
— *see also* **Xu, Guang Hui, 93d:60160**
Healy, Kevin J. Scheduling arrivals to a stochastic service mechanism. (English summary)

Henderson, W. (*with* Taylor, P. G.) Discrete-time queueing networks with geometric release probabilities. **93i:60173**
— (*with* Pearce, C. E. M.; Pollett, P. K.; Taylor, P. G.) Connecting internally balanced quasi-reversible Markov processes. (English summary) **93m:60186**
— (*with* Taylor, P. G.) Insensitivity in discrete time queues with a moving server. (English summary) **93m:60187**
Hlibiciuc, A. V. *see* **Lyakhu, A. K., 93j:60144**
Hu, Jian Qiang Consistency of infinitesimal perturbation analysis estimators with rates. **93b:60216**
— *see also* **Gong, Wei Bo, 93b:60213; Glasserman, Paul; et al., 93f:60139** *and* **Fu, Michael C., 93i:60171**
Huang, Wên Chang (*with* Puri, Prem S.) A queueing process with the possibility of customers becoming servers. **93b:60217**
Ibaraki, Toshihide *see* **Nakade, Koichi; et al., 93e:60185**
Igaki, Nobuko Exponential two server queue with N-policy and general vacations. **93c:60145**
Iliadis, I. (*with* Fuhrmann, Steve W.) Moment relationships for queues with Poisson input. (English summary) **93h:60152**
Imaizumi, Jun (*with* Morito, Susumu) Studies on tandem queueing system with blocking: a survey. (Japanese. English summary)
Ishikawa, Akihiko On the joint distribution of the departure intervals in an $M/G/1/N$ queue. **93a:60147**
Ivnitskiĭ, V. A. Invariance of stationary probability distributions of the states of a multilinear queueing system with a finite number of different customer sources when the arriving customer has absolute priority. (Russian)
Jagerman, David L. (*with* Sengupta, Bhaskar) The $GI/M/1$ processor-sharing queue and its heavy traffic analysis. **93a:60148**
Jain, J. L. *see* **Sen, Kanwar; et al., 93j:60147** *and* **93j:60148**
Jean-Marie, Alain (*with* Liu, Zhen) Stochastic comparisons for queueing models via random sums and intervals. (English summary) **93k:60227**
Kao, Edward P. C. Using state reduction for computing steady state vectors in Markov chains of $M/G/1$ type. **93b:60218**
Karpelevich, F. I. (*with* Kreinin, A. Ya.) Joint distributions in Poissonian tandem queues. (English summary) **93h:60153**
— *see also* **Baccelli, François; et al., 93i:60165**
Katayama, Tsuyoshi (*with* Takahashi, Yoshitaka) Analysis of a two-class priority queue with Bernoulli schedules. (English summary) **93i:60174**
— A note on conservation laws for a multi-class service queueing system with setup times. (English summary) **93f:60141**
Kel'bert, M. Ya. (*with* Sukhov, Yu. M.) Nonlinear law of large numbers and Gaussian fluctuation for star-like networks. **93b:60219**
— *see also* **Baccelli, François; et al., 93i:60165**
Kelly, F. P. (*with* Laws, C. N.) Dynamic routing in open queueing networks: Brownian models, cut constraints and resource pooling. (English summary)
Khalil, Zohel (*with* Falin, G. I.; Yang, Tao) Some analytical results for congestion in subscriber line modules. **93c:60146**
Khamisy, Asad (*with* Sidi, Moshe) Discrete-time priority queues with two-state Markov modulated arrivals. **93c:60147**
— *see also* **Altman, Eitan; et al., 93f:60132**
Kiessler, Peter C. (*with* Wortman, Martin A.) Workload in queues having priorities assigned according to service time. **93c:60148**
— *see also* **Wortman, Martin A.; et al., 93d:60159**
Kijima, Masaaki (*with* Makimoto, Naoki) A unified approach to $GI/M(n)/1/K$ and $M(n)/G/1/K$ queues via finite quasi-birth-death processes. **93i:60175**
— (*with* Makimoto, Naoki) Computation of the quasi-stationary distributions in $M(n)/GI/1/K$ and $GI/M(n)/1/K$ queues. (English summary) **93g:60192**
— *see also* **Abate, Joseph; et al., 93b:60205**
Kim, Kisu (*with* Seila, Andrew F.) A generalized cost model for stochastic clearing systems. (English summary)
Kimura, Toshikazu Interpolation approximations for the mean waiting time in a multi-server queue.
Klutke, Georgia-Ann *see* **Foley, R. D.; et al., 93b:60212**
Knessl, Charles Asymptotic approximations for the $GI/M/1$ queue with processor-sharing service. **93f:60142**
— *see also* **Xie, Shisheng, 93m:60192**
Kogan, Ya. A. *see* **Birman, Alexander, 93e:60180**
König, Dieter *see* **Foley, R. D.; et al., 93b:60212**
Konstantopoulos, Panagiotis (*with* Zazanis, Michael A.) Sensitivity analysis for stationary and ergodic queues. **93i:60176**
— *see also* **Altman, Eitan; et al., 93f:60131**
Koren, Zahava (*with* Ganz, Aura) Efficient performance analysis of asymmetric finite buffer multichannel networks. (English summary) **93e:60182**
Kreinin, A. Ya. *see* **Karpelevich, F. I., 93h:60153** *and* **Daley, D. J.; et al., 93k:60224**
Krichagina, E. V. (*with* Taksar, Michael I.) Diffusion approximation for $GI/G/1$ controlled queues. (English summary) **93h:60154**
Krinik, Alan Taylor series solution of the $M/M/1$ queueing system. (English summary) **93h:60155**
Krishnamoorthy, A. (*with* Varughese, Rajan) On a finite capacity bulk service queueing problem. **93f:60143**
Kroese, Dirk P. (*with* Schmidt, Volker) A continuous polling system with general service times. (English summary) **93j:60143**
— The difference of two renewal processes. Level crossing and the infimum. **93c:60149**
Kulkarni, V. G. *see* **Choi, Bong Dae, 93m:60179**
Kumar, Rajeev *see* **Taneja, Gulshan; et al.**
LaMaire, Richard O. $M/G/1/N$ vacation model with varying E-limited service discipline. (English summary) **93g:60193**
(Langaris, Christos) *see* **Borst, S. C., 93f:60134**
Latouche, Guy A simple proof for the matrix-geometric theorem. (English summary) **93d:60156**
Laws, C. N. *see* **Kelly, F. P.**
Lazar, Aurel A. *see* **Ferrandiz, Josep M., 93i:60170**
Lee, Duan-Shin (*with* Li, San-Qi) Transient analysis of multi-server queues with Markov-modulated Poisson arrivals and overload control. (English summary) **93g:60194**
— (*with* Sengupta, Bhaskar) An approximate analysis of a cyclic server queue with limited service and reservations. (English summary) **93g:60195**
Lenzini, L. *see* **Conti, M.; et al.**
Levy, Hanoch *see* **Sidi, Moshe; et al., 93g:60198**
Li, San-Qi *see* **Lee, Duan-Shin, 93g:60194**
Liese, Friedrich *see* **Danielyan, È. A., 93b:60211**
Liu, Zhen (*with* Baccelli, François) Generalized precedence-based queueing systems. (English summary) **93f:60144**
— (*with* Nain, Philippe; Towsley, Donald) On optimal polling policies. (English summary) **93h:60156**
— *see also* **Baccelli, François, 93c:60137; Altman, Eitan; et al., 93f:60131** *and* **Jean-Marie, Alain, 93k:60227**
Lyakhu, A. K. (*with* Hlibiciuc, A. V.) On finite projection of nonstationary $M/GI/1$ queueing systems. (English, Russian and Moldavian summaries) **93j:60144**
Ma, Zi Li (*with* Wang, Si Ming) A method for finding parameters of a class of CPB service systems. (Chinese. English summary)
Madan, K. C. On an $M^{[x]}/M^{[b]}/1$ queueing system with general vacation times. (English summary) **93f:60145**
— An $M/M/1$ queueing system with additional optional service in batches. (English summary)
— A queueing system with two types of failures and priority for vital repairs. (English summary)
Madill, B. R. *see* **Chaudhry, Mohan L.; et al., 93a:60142**
Magalhães, Marcos N. *see* **Daigle, John N., 93b:60209**
Maheswar, M. V. R. *see* **Sharma, Om Prakash, 93k:60229**
Makimoto, Naoki *see* **Kijima, Masaaki, 93g:60192** *and* **93i:60175**
Mandal, B. N. (*with* Ghosh, A. K.) A note on a preemptive priority queue.
Mandelbaum, Avi *see* **Chen, Hong[3], 93a:60143**
Marchal, William G. *see* **Harris, Carl M.; et al., 93b:60214**
Medhi, J. *see* **Chaudhry, Mohan L.; et al., (93m:60007)**
Mehrez, A. (*with* Brimberg, Jack) A note on the convexity of the expected queue length of the $M/M/s$ queue with respect to the arrival rate: a third proof. (English summary)
Menich, Ronald (*with* Serfozo, Richard F.) Optimality of routing and servicing in dependent parallel processing systems. **93b:60220**
Minkevičius, S. Transient phenomena in multiphase queueing systems. (Russian. English and Lithuanian summaries) **93k:60228**
Mishkoĭ, G. K. *see* **Chumac, V. P., (93k:60008)**
Miyazawa, Masakiyo (*with* Shanthikumar, J. George) Monotonicity of the loss probabilities of single server finite queues with respect to convex order of arrival or service processes. (English summary) **93d:60157**
— On the system queue length distributions of LCFS-P queues with arbitrary acceptance and restarting policies. **93e:60183**
— (*with* Takahashi, Yoshitaka) Rate conservation principle for discrete-time queues. (English summary) **93m:60188**
Mohammed, Monem Azez Queuing system in special transport situation.
Mohanty, S. G. (*with* Panny, Wolfgang) A discrete-time analogue of the $M/M/1$ queue and the transient solution: an analytic approach. **93e:60184**
— (*with* Panny, Wolfgang) A discrete-time analogue of the $M/M/1$ queue and the transient solution: a geometric approach. (English summary) **93f:60146**
Morito, Susumu *see* **Imaizumi, Jun**
Mostafa, Magdi S. (*with* El-Sayed, Khaled M. F.) Matrix-geometric solution of a multi-server queue with Markovian group arrivals and Coxian servers. **93a:60149**
Muppala, Jogesh K. (*with* Trivedi, Kishor S.) Numerical transient solution of finite Markovian queueing systems. (*see* **93i:60006**)
Nain, Philippe *see* **Liu, Zhen; et al., 93h:60156**
Nakade, Koichi (*with* Ohnishi, Masamitsu; Ibaraki, Toshihide; Ohno, Katsuhisa) On the average optimality of circular assignment policy. (English summary) **93e:60185**
Nakazato, Daisuke *see* **Bertsimas, Dimitris J., 93c:60139**
Narayana, Surya (*with* Neuts, Marcel F.) The first two moment matrices of the counts for the Markovian arrival process. (English summary) **93j:60145**
Neuts, Marcel F. Two further closure properties of PH-distributions. (English summary) **93e:60186**
— *see also* **Narayana, Surya, 93j:60145**
Nguyen, Viên *see* **Harrison, J. Michael, 93m:60185**
Ohnishi, Masamitsu *see* **Nakade, Koichi; et al., 93e:60185**
Ohno, Katsuhisa *see* **Nakade, Koichi; et al., 93e:60185**
Ou, Jihong (*with* Wein, Lawrence M.) Performance bounds for scheduling queueing networks. **93b:60221**
Pagurek, B. *see* **Stanford, D. A., 93b:60222**
Paixão, José *see* **Tralhão, Lino; et al., (93g:62001)**
Panny, Wolfgang *see* **Mohanty, S. G., 93e:60184** *and* **93f:60146**
Park, Kwang Kyu *see* **Choi, Bong Dae, 93b:60208**
Patterson, Richard L. Distributions of unexpended services in a D-node Markov-renewal network distinguished by customer class. (English summary)
Pavlov, A. V. Asymptotically optimal queueing disciplines for some multichannel networks. (Russian) **93g:60196**
Pearce, C. E. M. *see* **Henderson, W.; et al., 93m:60186**
Perry, David *see* **Asmussen, Søren, 93i:60164**
Pirdzhanov, B. P. *see* **Bratiichuk, N. S., 93c:60140** *and* **(93k:60008)**
Pitts, Jonathan M. *see* **Schormans, John A.; et al.**
Pitts, Susan M. *see* **Grübel, Rudolf, 93k:60226**
Plum, H.-J. Optimal monotone hysteretic Markov policies in an $M/M/1$ queueing model with switching costs and finite time horizon. **93c:60150**
Pollett, P. K. *see* **Henderson, W.; et al., 93m:60186**
Posner, Morton J. M. *see* **Yang, Tao; et al., 93f:60147**
Pourbabai, Behnam Approximation of the departure processes from $G/M/1/K$ and $M/G/1/K$ queueing systems. (English summary)

Prabhu, N. U. *see* **Zhu, Yixin, 93a:60154**
Pukhal'skii, A. A. *see* **Coffman, Edward G., Jr.; et al., 93g:60190** *and* **Baccelli, François; et al., 93i:60165**
Puri, Prem S. *see* **Huang, Wên Chang, 93b:60217**
Rachev, Svetlozar T. *see* **Anastassiou, George A., 93k:60222**
Reiman, Martin I. *see* **Coffman, Edward G., Jr.; et al., 93g:60190**
Righter, Rhonda (*with* Shanthikumar, J. George) Extremal properties of the FIFO discipline in queueing networks. (English summary) **93i:60177**
Rizwan, S. M. *see* **Taneja, Gulshan; et al.**
Rolski, Tomasz *see* **Daley, D. J., 93b:60210** *and* **93m:60181**
Rosenkrantz, Walter A. (*with* Simha, Rahul) Some theorems on conditional PASTA: a stochastic integral approach. (English summary) **93g:60197**
— Little's theorem: a stochastic integral approach. (English summary) **93h:60157**
Roslova, N. M. A discrete queueing system with relative priority. (Russian)
Rubin, Izhak *see* **Tsai, Zse Hong, 93e:60189**
Rubinstein, Reuven Y. *see* **Asmussen, Søren, 93d:60152**
Russell, Gary *see* **Dshalalow, Jewgeni H., 93c:60143**
Rybko, A. N. *see* **Baccelli, François; et al., 93i:60165**
Safarov, M. M. Limit theorems for queueing networks with multichannel stations. (Russian) **93e:60187**
Sanders, J. L. *see* **Venkatasubramanyan, N., 93h:60158**
Scharf, Eric M. *see* **Schormans, John A.; et al.**
Schassberger, R. The BCD queue and its ramifications. (English summary) **93j:60146**
Schmid, Ulrich *see* **Drmota, Michael, 93m:60182**
Schmidt, Volker *see* **Kroese, Dirk P., 93j:60143**
Schormans, John A. (*with* Pitts, Jonathan M.; Scharf, Eric M.) A priority queue with superimposed geometric batch arrivals. (English summary)
Scott, Meckinley (*with* Ulmer, M. B.) A finite hysteretic multiserver queue with some discrimination of customers. (English summary)
Seila, Andrew F. *see* **Kim, Kisu**
Sen, Kanwar (*with* Jain, J. L.; Gupta, J. M.) Lattice path approach to transient solution of $M/M/1$ with $(0, k)$ control policy. (English summary) **93j:60147**
— (*with* Jain, J. L.) Combinatorial approach to Markovian queueing models. (English summary) **93j:60148**
Sengupta, Bhaskar An approximation for the sojourn-time distribution for the $GI/G/1$ processor-sharing queue. **93a:60150**
— *see also* **Jagerman, David L., 93a:60148** *and* **Lee, Duan-Shin, 93g:60195**
Serfozo, Richard F. *see* **Menich, Ronald, 93b:60220**
Servi, L. D. *see* **Daley, D. J., 93i:60169**
Shanthikumar, J. George *see* **Miyazawa, Masakiyo, 93d:60157** *and* **Righter, Rhonda, 93i:60177**
Sharma, Om Prakash (*with* Maheswar, M. V. R.) A note on the alternative form of the busy period density for an $M/M/1/\infty$ queue. (English summary) **93k:60229**
Shimogawa, Shinsuke (*with* Takahashi, Yoshitaka) A note on the pseudo-conservation law for a multi-queue with local priority. (English summary)
Shin, Yang Woo *see* **Choi, Bong Dae, 93c:60142** *and* **(93k:00029)**
Sidi, Moshe (*with* Levy, Hanoch; Fuhrmann, Steve W.) A queueing network with a single cyclically roving server. (English summary) **93g:60198**
— *see also* **Khamisy, Asad, 93c:60147**
Sigman, Karl Light traffic for workload in queues. (English summary) **93j:60149**
Simha, Rahul *see* **Rosenkrantz, Walter A., 93g:60197**
Simon, Burton Calculating light traffic limits for sojourn times in open Markovian queueing systems. (English summary) **93m:60189**
Sologub, D. M. An iterative method for computing closed queueing networks. (Russian. English and Ukrainian summaries)
Sparaggis, Panayotis D. (*with* Towsley, Donald; Cassandras, Christos G.) Extremal properties of the shortest/longest nonfull queue policies in finite-capacity systems with state-dependent service rates. (English summary) **93j:60150**
— (*with* Gong, Wei Bo) Optimal buffer allocation in a two-stage queueing system. (English summary)
Spieksma, Flos Geometric ergodicity of the ALOHA-system and a coupled processors model. (English summary) **93g:60199**
Stadje, Wolfgang On a loss system with a given number of customers. (English summary) **93k:60230**
Stanford, D. A. (*with* Pagurek, B.) On the serial correlation for number in system in the stationary $GI/M/1$ bulk arrival and $GI/E_m/1$ queues. **93b:60222**
Stidham, Shaler, Jr. *see* **El-Taha, Muhammad, 93h:60148**
Strickland, Stephen G. *see* **Glasserman, Paul; et al., 93f:60139**
Sukhov, Yu. M. *see* **Kel'bert, M. Ya., 93b:60219** *and* **Baccelli, François; et al., 93i:60165**
Szczotka, Władysław A distributional form of Little's law in heavy traffic. **93c:60151**
Szpankowski, Wojciech Towards computable stability criteria for some multidimensional stochastic processes. **93c:60152**
— *see also* **Georgiadis, Leonidas, 93f:60137**
Sztrik, János (*with* Bunday, Brian D.) An asymptotic approach to the multiple machine interference problem with Markovian environments. (English summary) **93g:60200**
— (*with* Bunday, Brian D.) Asymptotic analysis of the heterogeneous machine interference problem with random environments. (English summary)
Takagi, Hideaki ★ Queueing analysis: a foundation of performance evaluation. Vol. 1. **93e:60188**
— Time-dependent process of $M/G/1$ vacation models with exhaustive service. **93c:60153**
— *see also* **Takine, Tetsuya; et al., 93m:60190**
Takahashi, Yoshitaka *see* **Katayama, Tsuyoshi, 93i:60174**; **Miyazawa, Masakiyo, 93m:60188** *and* **Shimogawa, Shinsuke**
Takine, Tetsuya (*with* Hasegawa, Toshiharu) On the $M/G/1$ queue with multiple vacations and gated service discipline. (English summary) **93j:60151**
— (*with* Hasegawa, Toshiharu) A generalization of the decomposition property in the $M/G/1$ queue with server vacations. (English summary) **93j:60152**
— (*with* Hasegawa, Toshiharu) A cyclic-service finite source model with round-robin scheduling. (English summary) **93g:60201**
— (*with* Takagi, Hideaki; Hasegawa, Toshiharu) Analysis of an $M/G/1/K/N$ queue. (English summary) **93m:60190**
Taksar, Michael I. *see* **Krichagina, E. V., 93h:60154**
Taneja, Gulshan (*with* Rizwan, S. M.; Kumar, Rajeev) Profit analysis of a system with perfect repair at partial failure and priority for repair to complete failed unit.
Tang, Stanley C. *see* **Daigle, John N., 93i:60168**
Tang, Ying Hui Multilevel priority queues with repairable service station. I. (Chinese. English and Chinese summaries)
— Multilevel priority queues with repairable service station. II. (Chinese. English and Chinese summaries)
Taylor, P. G. *see* **Henderson, W., 93i:60173**; **van Dijk, Nico M., 93j:60141**; **Henderson, W.; et al., 93m:60186** *and* **93m:60187**
Templeton, James G. C. *see* **Chaudhry, Mohan L.; et al., 93b:60207**; **Yang, Tao; et al., 93f:60147** *and* **Chaudhry, Mohan L.; et al., (93m:60007)**
Teugels, Jozef L. *see* **Willekens, E., 93d:60158**
Tian, Nai Shuo (*with* Zhang, Da Qing; Cao, Cheng Xian) $M/G/1$ queue with controllable vacations and optimization of vacation policy. **93a:60151**
— $M/G/1$ queues with adaptive multistage vacation. (Chinese. English and Chinese summaries)
— The N-policy stochastic service system $G1/M/1$. (Chinese)
Tikhonenko, O. M. A multiserver queueing system with customers of random length and restrictions on waiting time. (Belorussian. English and Russian summaries) **93j:60153**
Towsley, Donald *see* **Liu, Zhen; et al., 93h:60156** *and* **Sparaggis, Panayotis D.; et al., 93j:60150**
Tralhão, Lino (*with* Craveirinha, José; Paixão, José) A study on a loss system with MMPP input and an access function. (English summary) (*see* **93g:62001**)
Trengove, C. D. *see* **Daley, D. J.; et al., 93k:60224**
Trivedi, Kishor S. *see* **Muppala, Jogesh K., (93i:60006)**
Tsai, Zse Hong (*with* Rubin, Izhak) Mean delay analysis for a message priority-based polling scheme. (English summary) **93e:60189**
Tsitsiashvili, G. Sh. A study of regeneration times in cyclic queueing networks. **93c:60154**
Tsoucas, Pantelis Rare events in series of queues. **93a:60152**
Ulmer, M. B. *see* **Scott, Meckinley**
Varughese, Rajan *see* **Krishnamoorthy, A., 93f:60143**
Vázquez-Abad, Felisa J. *see* **Brémaud, Pierre, 93d:60154**
Venkatasubramanyan, N. (*with* Sanders, J. L.) Order restoration in queues. (English summary) **93h:60158**
Vickson, Raymond G. *see* **Zhang, Zhe, 93m:60193**
Vinogradov, O. P. A multiphase system with a large number of servers and with identical service times. (Russian) (*see* **93b:60003**)
Walrand, Jean Queueing networks. (*see* **93a:60001**)
Wang, Jing[3] (*with* Yang, De Li) An analytical model for an $M|G|1$ queueing system with a finite population. (Chinese. English summary)
Wang, Si Ming *see* **Ma, Zi Li**
Wang, Y. *see* **Dai, J. G.**
Weber, Richard R. The interchangeability of tandem queues with heterogeneous customers and dependent service times. **93g:60202**
Wein, Lawrence M. *see* **Ou, Jihong, 93b:60221**
Wessels, Jaap *see* **Adan, Ivo Jean-Baptiste François; et al., 93a:60141**
Whitt, Ward A review of $L = \lambda W$ and extensions. **93e:60190**
— $H = \lambda G$ and the Palm transformation. **93m:60191**
— *see also* **Abate, Joseph; et al., 93b:60205**; **93i:60163**; **Berger, Arthur W., 93i:60166** *and* **93i:60167**
Willekens, E. (*with* Teugels, Jozef L.) Asymptotic expansions for waiting time probabilities in an $M/G/1$ queue with long-tailed service time. **93d:60158**
Willie, Helmut Steady state of loss systems with a superposition of inputs. **93a:60153**
Wortman, Martin A. (*with* Disney, Ralph L.; Kiessler, Peter C.) The $M/GI/1$ Bernoulli feedback queue with vacations. **93d:60159**
— *see also* **Kiessler, Peter C., 93c:60148**
Wright, Paul E. Two parallel processors with coupled inputs. (English summary) **93i:60178**
— *see also* **Browne, Sid; et al., 93h:60146**
Xie, Shisheng (*with* Knessl, Charles) On the transient behavior of the $M/M/1$ and $M/M/1/K$ queues. (English summary) **93m:60192**
Xu, Guang Hui (*with* He, Qi Ming) The distribution of the first passage time for the Markov processes of $GI/M/1$ type. **93d:60160**
— (*with* Yuan, Xue Ming) The queueing system $M^{(x)}/M/c \to /PH^{(r)}/1/K$. (English summary)
— *see also* **Zhang, Han Qin, 93d:60161** *and* **93i:60179**
Yan, Anlu *see* **Gong, Wei Bo; et al., 93i:60172**
Yang, De Li *see* **Wang, Jing[3]**
Yang, Tao (*with* Posner, Morton J. M.; Templeton, James G. C.) The $C_a/M/s/m$ retrial queue: a computational approach. (English summary) **93f:60147**
— *see also* **Khalil, Zohel; et al., 93c:60146**
Yechiali, Uri *see* **Altman, Eitan; et al., 93f:60132** *and* **Zuta, Shlomith, 93h:60159**
Yuan, Xue Ming *see* **Xu, Guang Hui**
Yurachkovskii, A. P. Determination of the mean waiting time on sequentially connected servers. (Russian. English summary) **93b:60223**
— Asymptotics of the characteristics of linear queueing chains under unbounded increase of their length. (Russian. English and Russian summaries) **93f:60148**
Zazanis, Michael A. Analyticity of Poisson-driven stochastic systems. **93g:60203**
— Sample path analysis of level crossings for the workload process. (English summary) **93g:60204**
— *see also* **Konstantopoulos, Panagiotis, 93i:60176**
Zhang, Da Qing *see* **Tian, Nai Shuo; et al., 93a:60151**
Zhang, Han Qin (*with* Xu, Guang Hui) Strong approximation for priority queues: head-of-the-line-first discipline. **93d:60161**
— (*with* Xu, Guang Hui) Strong approximations for the open queueing network in heavy traffic. (English summary) **93i:60179**
Zhang, Zhe (*with* Vickson, Raymond G.) A simple approximation for mean waiting time in $M/G/1$ queue with vacations and limited service discipline. (English summary)

93m:60193

Zhu, Yixin (*with* Prabhu, N. U.) Markov-modulated $PH/G/1$ queueing systems. 93a:60154

Zijm, W. H. M. *see* **Adan, Ivo Jean-Baptiste François; et al., 93a:60141**

Zuta, Shlomith (*with* Yechiali, Uri) A two-echelon multi-server Markovian queueing system with a limited intermediate buffer. (English summary) **93h:60159**

Items with secondary classifications in 60K25

Abate, Joseph (*with* Whitt, Ward) Numerical inversion of probability generating functions. (English summary) **93g:65173**

— (*with* Whitt, Ward) The Fourier-series method for inverting transforms of probability distributions. **93b:60002**

Abolnikov, Lev (*with* Dukhovny, Alexander) Markov chains with transition delta-matrix: ergodicity conditions, invariant probability measures and applications. **93e:60132**

— (*with* Dshalalow, Jewgeni H.) A first passage problem and its applications to the analysis of a class of stochastic models. **93d:60146**

Agarwal, Manju *see* **Chaudhry, Mohan L.; et al., 93m:90037**

Ahn, Wi Chong *see* **Choi, Bong Dae; et al., 93h:68011**

Aldous, David J. (*with* Hofri, Micha; Szpankowski, Wojciech) Maximum size of a dynamic data structure: hashing with lazy deletion revisited. **93i:68042**

Asmussen, Søren Phase-type representations in random walk and queueing problems. **93c:60100**

— Queueing simulation in heavy traffic. **93e:90027**

Badrinath, Vivek *see* **Mazumdar, Ravi R.; et al., 93g:90038**

Bajpai, S. D. Solution of a partial differential equation related to queuing theory, heat conduction and quantum mechanics. (English summary)

(Basawa, Ishwar V.) *see* **Queueing and related models, 93i:60006**

(Bhat, U. Narayan) *see* **Queueing and related models, 93i:60006**

Bitran, Gabriel R. (*with* Dasu, Sriram) A review of open queueing network models of manufacturing systems. (English summary)

Blanc, J. P. C. (*with* de Waal, Peter R.; Nain, Philippe; Towsley, Donald) Optimal control of admission to a multiserver queue with two arrival streams. **93c:90033**

Blondia, C. Performance evaluation of an $M/1$-stage in an ATM switching element. **93i:68027**

Brandt, Andreas (*with* Sulanke, H.) A queueing network model for a communication system with channel allocation. (English summary) **93f:90069**

Brémaud, Pierre An elementary proof of Sengupta's invariance relation and a remark on Miyazawa's conservation principle. **93b:60101**

— (*with* Kannurpatti, Raghavan; Mazumdar, Ravi R.) Event and time averages: a review. **93i:60092**

Burlakov, M. V. ★ Ситуационное управление в системах массового обслуживания. (Russian) [Situational control in queueing systems] **93e:90001**

Buzacott, John A. *see* **Liu, Xiao-Gao, 93k:68014**

Cassandras, Christos G. *see* **Wardi, Y.; et al., 93j:90042**

Cavazos-Cadena, Rolando (*with* Hernández-Lerma, Onésimo) Adaptive policies for priority assignment in discrete time queues—discounted cost criterion. (Russian and Polish summaries) **93c:90034**

Chang, Cheng-Shang A new ordering for stochastic majorization: theory and applications. **93g:60039**

Chaudhry, Mohan L. Numerical issues in computing steady-state queueing-time distributions of single-server bulk-service queues: $M/G^b/1$ and $M/G^d/1$. (English summary) **93f:90070**

— (*with* Agarwal, Manju; Templeton, James G. C.) Computing steady-state queueing-time distributions of single-server queues: $GI^X/M/1$. (English summary) **93m:90037**

Cheng, Dinah W. Second order properties in a tandem queue with general blocking. (English summary) **93f:90071**

— Analysis of a tandem queue with state-dependent general blocking: a GSMP perspective. (English summary)

Choi, Bong Dae (*with* Shin, Yang Woo; Ahn, Wi Chong) Retrial queues with collision arising from unslotted CMSA/CD protocol. (English summary) **93h:68011**

— *see also* **Analysis and geometry, 93k:00029**

Chukova, S. (*with* Dimitrov, B.) On distributions having the almost-lack-of-memory property. **93k:62026**

Çinlar, Erhan Sunset over Brownistan. **93f:60120**

Dallery, Yves (*with* Towsley, Donald) Symmetry property of the throughput in closed tandem queueing networks with finite buffers. **93b:90027**

Dasu, Sriram *see* **Bitran, Gabriel R.**

Decreusefond, L. (*with* Körezlioğlu, H.; van Dijk, Nico M.) An error bound for infinite approximations of queueing networks with large finite stations under RSRD protocol. (English summary)

van Dijk, Nico M. Approximate uniformization for continuous-time Markov chains with an application to performability analysis. **93b:60162**

— *see also* **Decreusefond, L.; et al.**

Dimitrov, B. *see* **Chukova, S., 93k:62026**

Ding, Yiping *see* **Sholl, Howard A., (93a:41001)**

Dshalalow, Jewgeni H. *see* **Abolnikov, Lev, 93d:60146**

Dukhovny, Alexander *see* **Abolnikov, Lev, 93e:60132**

Fayolle, G. (*with* Ignatyuk, I. A.; Malyshev, V. A.; Men′shikov, M. V.) Random walks in two-dimensional complexes. **93a:60101**

Foss, S. G. On the ergodicity conditions for stochastically recursive sequences. (English summary) **93m:60071**

Frostig, Esther On the optimal assignment of servers in a two stations tandem queue with no intermediate waiting room. (English summary) **93k:90037**

Gail, H. R. (*with* Hantler, S. L.; Taylor, B. A.) On a preemptive Markovian queue with multiple servers and two priority classes. **93b:90028**

Gasanenko, V. A. Applications of thinning processes. **93g:60101**

Glynn, Peter W. (*with* Sigman, Karl) Uniform Cesàro limit theorems for synchronous processes with applications to queues. **93b:60041**

Goldie, Charles M. Implicit renewal theory and tails of solutions of random equations. **93i:60118**

Gong, Wei Bo *see* **Wardi, Y.; et al., 93j:90042**

Grassmann, Winfried K. Computational methods in probability theory. (*see* **93a:60001**)

Guillemin, Fabrice *see* **Mazumdar, Ravi R.; et al., 93g:90038**

Hantler, S. L. *see* **Gail, H. R.; et al., 93b:90028**

van Harn, K. (*with* Steutel, F. W.) On a characterization of the exponential distribution. **93a:62014**

Harrison, J. Michael (*with* Williams, Ruth J.) Brownian models of feedforward queueing networks: quasireversibility and product form solutions. **93d:60126**

Hasegawa, Toshiharu *see* **Takine, Tetsuya, 93b:90034**

Hernández-Lerma, Onésimo *see* **Cavazos-Cadena, Rolando, 93c:90034**

(Heyman, D. P.) *see* **Stochastic models, 93a:60001**

Hofri, Micha *see* **Aldous, David J.; et al., 93i:68042**

Hordijk, Arie (*with* Spieksma, Flos) On ergodicity and recurrence properties of a Markov chain with an application to an open Jackson network. **93i:60126**

Horváth, Lajos Strong approximations of open queueing networks. **93d:60055**

Hu, Jian Qiang Variance properties of sample path derivatives of parametric random variables. **93a:60162**

Ignatyuk, I. A. *see* **Fayolle, G.; et al., 93a:60101**

Jain, Sudha² Estimation in $M/E_r/1$ queueing systems. **93f:62120**

Kallmes, M. H. *see* **Wardi, Y.; et al., 93j:90042**

Kannurpatti, Raghavan *see* **Mazumdar, Ravi R.; et al., 93g:90038** *and* **Brémaud, Pierre; et al., 93i:60092**

Körezlioğlu, H. *see* **Decreusefond, L.; et al.**

Korotaev, I. A. (*with* Spivak, L. R.) Queueing systems in a semi-Markov random environment. (Russian. Russian summary) **93h:90042**

Kouvatsos, Demetres D. (*with* Tomaras, Panagiotis J.) Multilevel aggregation of central server models: a minimum relative entropy approach. **93b:90029**

Kranakis, Evangelos (*with* Vitányi, Paul M. B.) A note on weighted distributed matchmaking. **93f:68010**

Kumar, Anurag On the average idle time and average queue length estimates in an $M/M/1$ queue. (English summary) **93f:90074**

Lee, Duan-Shin (*with* Li, San-Qi) Transient analysis of a switched Poisson arrival queue under overload control. (English summary)

Li, San-Qi *see* **Lee, Duan-Shin**

Liu, Dan *see* **Neuts, Marcel F.; et al., 93e:60092**

Liu, Xiao-Gao (*with* Buzacott, John A.) The reversibility of cyclic queues. (English summary) **93k:68014**

Lyakhu, A. K. (*with* Matveev, V. F.) Finite projection of regenerative processes. (Russian. English, Russian and Moldavian summaries)

Malyshev, V. A. *see* **Fayolle, G.; et al., 93a:60101**

Massey, William A. Stochastic ordering for Markov processes on partially ordered spaces with applications to queueing networks. (English summary) **93h:60116**

— (*with* Whitt, Ward) A probabilistic generalization of Taylor's theorem. (English summary) **93m:60040**

Masuda, Yasushi *see* **Sumita, Ushio, 93e:60179**

Matveev, V. F. *see* **Lyakhu, A. K.**

Mazumdar, Ravi R. (*with* Guillemin, Fabrice; Badrinath, Vivek; Kannurpatti, Raghavan) On pathwise behavior of queues. (English summary) **93g:90038**

— *see also* **Brémaud, Pierre; et al., 93i:60092**

Men′shikov, M. V. *see* **Fayolle, G.; et al., 93a:60101**

Miyazawa, Masakiyo (*with* Yamazaki, Genji) Relationships in stationary jump processes with countable state space and their applications to queues. (English summary) **93m:60092**

Mohanty, S. G. (*with* Montazer-Haghighi, A.; Trueblood, R.) On the transient behavior of a finite birth-death process with an application. (English summary) **93h:60137**

Montazer-Haghighi, A. *see* **Mohanty, S. G.; et al., 93h:60137**

Nain, Philippe *see* **Blanc, J. P. C.; et al., 93c:90033**

Narayana, Surya *see* **Neuts, Marcel F.; et al., 93e:60092**

Neuts, Marcel F. (*with* Liu, Dan; Narayana, Surya) Local Poissonification of the Markovian arrival process. **93e:60092**

Ou, Jihong (*with* Wein, Lawrence M.) On the improvement from scheduling a two-station queueing network in heavy traffic. (English summary) **93f:90076**

Reiman, Martin I. (*with* Simon, Burton; Willie, J. Stanford) Simterpolation: a simulation based interpolation approximation for queueing systems. (English summary) **93f:90078**

Shanthikumar, J. George (*with* Yao, David D.) Bivariate characterization of some stochastic order relations. **93d:60030**

Shin, Yang Woo *see* **Choi, Bong Dae; et al., 93h:68011**

Sholl, Howard A. (*with* Ding, Yiping) On queueing approximation formulas for mean waiting time. (*see* **93a:41001**)

Sigman, Karl *see* **Glynn, Peter W., 93b:60041**

Simon, Burton *see* **Reiman, Martin I.; et al., 93f:90078**

(Sobel, Matthew J.) *see* **Stochastic models, 93a:60001**

Spieksma, Flos *see* **Hordijk, Arie, 93i:60126**

Spivak, L. R. *see* **Korotaev, I. A., 93h:90042**

Srinivas, V. *see* **Subba Rao, S.**

Steutel, F. W. *see* **van Harn, K., 93a:62014**

Subba Rao, S. (*with* Srinivas, V.) Bounds for design parameters in queues. (English summary)

Sulanke, H. *see* **Brandt, Andreas, 93f:90069**

Sumita, Ushio (*with* Masuda, Yasushi) Analysis of multivariate Markov modulated Poisson processes. (English summary) **93e:60179**

Szczotka, Władysław Weak convergence under mapping. (English summary) **93m:60019**

Szpankowski, Wojciech *see* **Aldous, David J.; et al., 93i:68042**

Takagi, Hideaki Analysis of an $M/G/1//N$ queue with multiple server vacations, and its application to a polling model. (English summary)

Takine, Tetsuya (*with* Hasegawa, Toshiharu) Average waiting time of a symmetric polling system under Bernoulli scheduling. **93b:90034**

Tatashev, A. G. A queueing system with invariant discipline. (Russian. Russian summary)

Taylor, B. A. *see* **Gail, H. R.; et al., 93b:90028**

Templeton, James G. C. *see* **Chaudhry, Mohan L.; et al., 93m:90037**

Timofeev, E. A. Realization of given average waiting times in a single-channel queueing system. (Russian. English and Ukrainian summaries)
Tomaras, Panagiotis J. *see* **Kouvatsos, Demetres D., 93b:90029**
Towsley, Donald *see* **Dallery, Yves, 93b:90027** *and* **Blanc, J. P. C.; et al., 93c:90033**
Trueblood, R. *see* **Mohanty, S. G.; et al., 93h:60137**
Vitányi, Paul M. B. *see* **Kranakis, Evangelos, 93f:68010**
de Waal, Peter R. *see* **Blanc, J. P. C.; et al., 93c:90033**
Wang, P. Patrick Static and dynamic scheduling of customer arrivals to a single-server system. (English summary)
Wardi, Y. (*with* Kallmes, M. H.; Cassandras, Christos G.; Gong, Wei Bo) Smoothed perturbation analysis algorithms for estimating the derivatives of occupancy-related functions in serial queueing networks. (English summary) **93j:90042**
Wein, Lawrence M. Dynamic scheduling of a multiclass make-to-stock queue. (English summary) **93f:90097**
— *see also* **Ou, Jihong, 93f:90076**
Whitt, Ward *see* **Abate, Joseph, 93b:60002; 93g:65173** *and* **Massey, William A., 93m:60040**
Williams, Ruth J. Asymptotic variance parameters for the boundary local times of reflected Brownian motion on a compact interval. (English summary) **93h:60127**
— *see also* **Harrison, J. Michael, 93d:60126**
Willie, J. Stanford *see* **Reiman, Martin I.; et al., 93f:90078**
Xu, Xue Lei *see* **Zheng, Da Zhong**
Yamazaki, Genji *see* **Miyazawa, Masakiyo, 93m:60092**
Yao, David D. *see* **Shanthikumar, J. George, 93d:60030**
(Yim, J.-W.) *see* **Analysis and geometry, 93k:00029**
Zheng, Da Zhong (*with* Xu, Xue Lei) Advances in the study of modeling and the analysis of fork-join queueing networks. (Chinese. English and Chinese summaries)
Zheng, Yao Hui The Markov property and limit distribution of infinite particle systems. (Chinese. English summary)

Items listed otherwise than by author

Analysis and geometry ★ Analysis and geometry 1991. **93k:00029**
Queueing and related models ★ Queueing and related models. **93i:60006**
Stochastic models ★ Stochastic models. **93a:60001**
Taejón ★ Analysis and geometry 1991. **93k:00029**
Workshop:
Analysis and Geometry ★ Analysis and geometry 1991. **93k:00029**

60K30 Applications (congestion, allocation, storage, traffic, etc.) [see also 90Bxx]

Kella, Offer (*with* Whitt, Ward) Useful martingales for stochastic storage processes with Lévy input. **93j:60154**
Matta, C. H. *see* **Mokaddis, G. S., 93c:60155**
Mokaddis, G. S. (*with* Matta, C. H.) Some extensions of dams with inputs forming a stationary process. **93c:60155**
Sim, C. H. On the simulation of geometric processes. (English summary)
Simonot, François Analyse de la stabilité de systèmes de stockage par la métrique de Wasserstein. (English and French summaries) [Analysis of the stability of storage systems using the Vaserstein metric] **93m:60194**
Venugopal, N. Some new approaches to problems in storage and general reliability systems. (*see* **93m:60007**)
Whitt, Ward *see* **Kella, Offer, 93j:60154**

Items with secondary classifications in 60K30

Abolnikov, Lev (*with* Dukhovny, Alexander) Markov chains with transition delta-matrix: ergodicity conditions, invariant probability measures and applications. **93e:60132**
Aldous, David J. (*with* Hofri, Micha; Szpankowski, Wojciech) Maximum size of a dynamic data structure: hashing with lazy deletion revisited. **93i:68042**
Anisimov, Vladimir Vladislavovich (*with* Atadzhanov, Kh. L.) ★ Асимптотический анализ очередей в системах с повторными вызовами и сдвоенными соединениями. (Russian. Russian summary) [Asymptotic analysis of queues in systems with repeated calls and with duplex connections] **93f:60133**
Atadzhanov, Kh. L. *see* **Anisimov, Vladimir Vladislavovich, 93f:60133**
Attia, F. A. On a reflected Ornstein-Uhlenbeck process with an application. **93c:60114**
Boland, Philip J. (*with* Proschan, Frank; Tong, Yung Liang) A stochastic ordering of partial sums of independent random variables and of some random processes. **93m:60035**
Chen, Fangruo (*with* Zheng, Yu-Sheng) Waiting time distribution in (T, S) inventory systems. (English summary) **93h:90031**
Dukhovny, Alexander *see* **Abolnikov, Lev, 93e:60132**
Gusak, D. V. An oscillating inventory control model. (Russian. Russian summary) (*see* **93m:60009**)
Hofri, Micha *see* **Aldous, David J.; et al., 93i:68042**
Kel'bert, M. Ya. (*with* Sukhov, Yu. M.) Nonlinear law of large numbers and Gaussian fluctuation for star-like networks. **93b:60219**
Ou, Jihong (*with* Wein, Lawrence M.) Performance bounds for scheduling queueing networks. **93b:60221**
Postan, M. Ya. A class of mixed Markov processes and their application in teletraffic theory. (Russian. Russian summary) **93j:60103**
Proschan, Frank *see* **Boland, Philip J.; et al., 93m:60035**
Ramsay, Colin M. On the probabilities associated with exponential type 1 counters. (English summary) **93k:60241**
Sukhov, Yu. M. *see* **Kel'bert, M. Ya., 93b:60219**
Szpankowski, Wojciech *see* **Aldous, David J.; et al., 93i:68042**
Tong, Yung Liang *see* **Boland, Philip J.; et al., 93m:60035**
Wein, Lawrence M. *see* **Ou, Jihong, 93b:60221**
Zheng, Yu-Sheng *see* **Chen, Fangruo, 93h:90031**

60K35 Interacting random processes; statistical mechanics type models; percolation theory [see also 82B43, 82C43]

Abraham, D. B. (*with* Newman, Charles M.) Remarks on a random surface. (English summary) **93h:60160**
Aizenman, Michael *see* **Barsky, David J., 93b:60224**
Albeverio, Sergio (*with* Høegh-Krohn, Raphael; Surgailis, Donatas) Some Euclidean integer-valued random fields with Markov properties. (English summary) **93i:60180**
Alexander, Kenneth S. Stability of the Wulff minimum and fluctuations in shape for large finite clusters in two-dimensional percolation. **93e:60191**
Andjel, Enrique D. (*with* Liggett, Thomas M.; Mountford, Thomas S.) Clustering in one-dimensional threshold voter models. **93i:60181**
Avi-Itzhak, Benjamin (*with* Halfin, Shlomo) Servers in tandem with communication and manufacturing blocking. (English summary) **93m:60195**
Barsky, David J. (*with* Grimmett, Geoffrey R.; Newman, Charles M.) Dynamic renormalization and continuity of the percolation transition in orthants. **93a:60155**
— (*with* Aizenman, Michael) Percolation critical exponents under the triangle condition. **93b:60224**
Bendjilali, Boualem *see* **Konsowa, Mokhtar H.; et al., 93j:60157**
Boldrighini, C. (*with* De Masi, Anna; Pellegrinotti, Alessandro) Nonequilibrium fluctuations in particle systems modelling reaction-diffusion equations. **93m:60196**
Bramson, Maury D. (*with* Gray, Lawrence) A useful renormalization argument. **93d:60162**
— (*with* Griffeath, David) Capture problems for coupled random walks. **93e:60192**
Burton, Robert M., Jr. (*with* Keane, Michael S.) Topological and metric properties of infinite clusters in stationary two-dimensional site percolation. (English summary) **93i:60182**
Buttell, L. (*with* Cox, J. T.; Durrett, Richard) Estimating the critical values of stochastic growth models. (English summary) **93k:60231**
Chayes, J. T. (*with* Chayes, L.; Grannan, E.; Swindle, G.) Phase transitions in Mandelbrot's percolation process in three dimensions. **93a:60156**
Chayes, L. On the critical behavior of the first passage time in $d \geq 3$. **93e:60193**
— *see also* **Chayes, J. T.; et al., 93a:60156**
Chen, Da Yue (*with* Liggett, Thomas M.) Finite reversible nearest particle systems in inhomogeneous and random environments. **93b:60225**
Chen, Hwa-Nien On the stability of a population growth model with sexual reproduction on Z^2. **93c:60156**
Chen, Mu Fa (*with* Huang, Li Ping[2]; Xu, Xian Jin) Continuum limit for reaction diffusion processes with several species. (English summary) **93i:60183**
— Stochastic processes from Yang-Mills lattice field. (English summary) **93k:60232**
Cheng, Zheming (*with* Lebowitz, Joel L.; Speer, Eugene R.) Microscopic shock structure in model particle systems: the Boghosian-Levermore cellular automaton revisited. **93b:60226**
Comets, Francis Limites hydrodynamiques. [Hydrodynamical limits] **93e:60194**
Cox, J. T. (*with* Greven, Andreas) On the long term behavior of finite particle systems: a critical dimension example. **93d:60163**
— (*with* Durrett, Richard) Nonlinear voter models. **93e:60195**
— *see also* **Buttell, L.; et al., 93k:60231**
Dai Pra, P. Space-time large deviations for interacting particle systems. (English summary) **93k:60233**
Darling, R. W. R. (*with* Mukherjea, Arunava) Discrete time voter models: a class of stochastic automata. (English summary) **93h:60161**
De Masi, Anna (*with* Presutti, Errico) ★ Mathematical methods for hydrodynamic limits. **93k:60234**
— *see also* **Boldrighini, C.; et al., 93m:60196**
Derrida, B. (*with* Domany, E.; Mukamel, D.) An exact solution of a one-dimensional asymmetric exclusion model with open boundaries. (English summary) **93m:60197**
Dobrushin, R. L. (*with* Sokolovskii, F.) Higher order hydrodynamic equations for a system of independent random walks. **93c:60157**
Domany, E. *see* **Derrida, B.; et al., 93m:60197**
Durrett, Richard A new method for proving the existence of phase transitions. **93c:60158**
— (*with* Steif, Jeffrey E.) Some rigorous results for the Greenberg-Hastings model. **93h:60162**
— Multicolor particle systems with large threshold and range. **93b:60227**
— *see also* **Cox, J. T., 93e:60195** *and* **Buttell, L.; et al., 93k:60231**
Ferrari, Pablo Augusto (*with* Presutti, Errico; Scacciatelli, E.; Vares, M. E.) The symmetric simple exclusion process. I. Probability estimates. **93d:60164**
— (*with* Presutti, Errico; Scacciatelli, E.; Vares, M. E.) The symmetric simple exclusion process. II. Applications. **93d:60165**
— (*with* Ravishankar, Krishnamurthi) Shocks in asymmetric exclusion automata. (English summary) **93k:60235**
— Shock fluctuations in asymmetric simple exclusion. **93b:60228**
Fichtner, Karl-Heinz Random permutations of countable sets. **93a:60157**
Fisch, Robert Clustering in the one-dimensional three-color cyclic cellular automaton. (English summary) **93j:60155**
Fleischmann, Klaus (*with* Greven, Andreas) Localization and selection in a mean field branching random walk in a random environment. (English summary) **93k:60236**
Fouque, Jean-Pierre Hydrodynamical behavior of asymmetric attractive particle systems. One example: one-dimensional nearest-neighbors asymmetric simple exclusion process. **93c:60159**
Gandolfi, Alberto (*with* Keane, Michael S.; Newman, Charles M.) Uniqueness of the infinite component in a random graph with applications to percolation and spin glasses. **93f:60149**
Gordon, Daniel M. Percolation in high dimensions. **93d:60166**
Graham, C. Robin Nonlinear diffusion with jumps. (English and French summaries) **93i:60184**
— (*with* Méléard, Sylvie) Propagation of chaos for a fully connected loss network with alternate routing. (English summary) **93h:60163**
Grannan, E. *see* **Chayes, J. T.; et al., 93a:60156**
Gray, Lawrence *see* **Bramson, Maury D., 93d:60162**
Greven, Andreas (*with* den Hollander, Frank) Branching random walk in random

environment: phase transitions for local and global growth rates. **93c:60160**
— *see also* **Cox, J. T., 93d:60163** *and* **Fleischmann, Klaus, 93k:60236**
Griffeath, David *see* **Bramson, Maury D., 93e:60192**
Grimmett, Geoffrey R. *see* **Barsky, David J.; et al., 93a:60155**
Grishin, S. A. Solution of the problem on the universality of the coordination number and critical percolation indices on a binary tree. (Russian. Russian summary) **93m:60198**
Halfin, Shlomo *see* **Avi-Itzhak, Benjamin, 93m:60195**
Han, Dong Uniqueness of martingale solutions to infinite-dimensional reaction-diffusion systems with multispecies. (Chinese. Chinese summary) **93k:60237**
Haroon, Ahmed H. *see* **Konsowa, Mokhtar H.; et al., 93j:60157**
Hattori, Tetsuya (*with* Kusuoka, Shigeo) The exponent for the mean square displacement of self-avoiding random walk on the Sierpiński gasket. (English summary) **93m:60199**
Høegh-Krohn, Raphael *see* **Albeverio, Sergio; et al., 93i:60180**
den Hollander, Frank *see* **Greven, Andreas, 93c:60160**
Holley, Richard The one-dimensional stochastic X-Y model. **93b:60229**
Huang, Li Ping[2] *see* **Chen, Mu Fa; et al., 93i:60183**
Keane, Michael S. *see* **Gandolfi, Alberto; et al., 93f:60149** *and* **Burton, Robert M., Jr., 93i:60182**
Kesten, Harry Asymptotics in high dimensions for the Fortuin-Kasteleyn random cluster model. **93e:60196**
— Some caricatures of multiple contact diffusion-limited aggregation and the η-model. **93j:60156**
Konsowa, Mokhtar H. (*with* Bendjilali, Boualem; Haroon, Ahmed H.) Conductivity of random trees and the existence of infinite conducting components-percolation model. (English summary) **93j:60157**
Kotelenez, Peter Fluctuations in a nonlinear reaction-diffusion model. (English summary) **93i:60185**
Kuroda, Koji (*with* Tanemura, Hideki) Limit theorem and large deviation principle for the Voronoi tessellation generated by a Gibbs point process. **93c:60161**
Kusuoka, Shigeo *see* **Hattori, Tetsuya, 93m:60199**
Landim, C. Hydrodynamical limit for asymmetric attractive particle systems on $\mathbf{Z}^d$. (French summary) **93m:60200**
— Hydrodynamical equation for attractive particle systems on $\mathbf{Z}^d$. **93d:60167**
— Occupation time large deviations for the symmetric simple exclusion process. **93f:60150**
Lebowitz, Joel L. *see* **Cheng, Zheming; et al., 93b:60226**
Liggett, Thomas M. The periodic threshold contact process. **93b:60230**
— Spatially inhomogeneous contact processes. **93a:60158**
— L_2 rates of convergence for attractive reversible nearest particle systems: the critical case. **93a:60159**
— Remarks on the sufficient condition for survival of spatially inhomogeneous contact processes. **93k:60238**
— *see also* **Chen, Da Yue, 93b:60225** *and* **Andjel, Enrique D.; et al., 93i:60181**
Luo, Xiaolong The Richardson model in a random environment. (English summary) **93k:60239**
Meester, Ronald W. J. Connectivity in fractal percolation. (English summary) **93m:60201**
Méléard, Sylvie *see* **Graham, C. Robin, 93h:60163**
Miclo, Laurent Comportement asymptotique de l'énergie libre spécifique. Application à l'ergodicité et au recuit simulé en dimension infinie. (English summary) [Asymptotic behavior of specific free energy. Application to ergodicity and simulated annealing in infinite dimension] **93f:60151**
Mountford, Thomas S. The critical value for the uniform nearest particle process. (English summary) **93i:60186**
— Generalized voter models. **93e:60197**
— The ergodicity of a class of reversible reaction-diffusion processes. **93d:60168**
— The critical value for some nonattractive long range nearest particle systems. **93g:60205**
— *see also* **Andjel, Enrique D.; et al., 93i:60181**
Mukamel, D. *see* **Derrida, B.; et al., 93m:60197**
Mukherjea, Arunava *see* **Darling, R. W. R., 93h:60161**
Neuhauser, Claudia Ergodic theorems for the multitype contact process. **93c:60162**
Newman, Charles M. Ising models and dependent percolation. (English summary) **93j:60158**
— *see also* **Barsky, David J.; et al., 93a:60155**; **Gandolfi, Alberto; et al., 93f:60149** *and* **Abraham, D. B., 93h:60160**
Noble, Chris Equilibrium behavior of the sexual reproduction process with rapid diffusion. **93f:60152**
Pellegrinotti, Alessandro *see* **Boldrighini, C.; et al., 93m:60196**
Petritis, D. The zero-level set of the Brownian bridge as a model of disordered physical systems. **93k:60240**
Pickard, D. K. *see* **Tory, E. M., 93i:60187**
Platen, Eckhard On the macroscopic nonequilibrium dynamics of an exclusion process. (*see* **93d:93009**)
Presutti, Errico *see* **Ferrari, Pablo Augusto; et al., 93d:60164**; **93d:60165** *and* **De Masi, Anna, 93k:60234**
Quastel, Jeremy Diffusion of color in the simple exclusion process. **93e:60198**
Ravishankar, Krishnamurthi Fluctuations from the hydrodynamical limit for the symmetric simple exclusion in $\mathbf{Z}^d$. **93m:60202**
— Interface fluctuations in the two-dimensional weakly asymmetric simple exclusion process. (English summary) **93m:60203**
— *see also* **Ferrari, Pablo Augusto, 93k:60235**
Scacciatelli, E. *see* **Ferrari, Pablo Augusto; et al., 93d:60164** *and* **93d:60165**
Schinazi, Rinaldo Brownian fluctuations of the edge for critical reversible nearest-particle systems. **93a:60160**
Schonmann, Roberto H. On the behavior of some cellular automata related to bootstrap percolation. **93b:60231**
Sokolovskii, F. *see* **Dobrushin, R. L., 93c:60157**
Speer, Eugene R. *see* **Cheng, Zheming; et al., 93b:60226**
Srinivasan, Rengarajan Stochastic comparisons of density profiles for the road-hog process. **93d:60169**
Steif, Jeffrey E. $\overline{d}$-convergence to equilibrium and space-time Bernoullicity for spin systems in the $M < \varepsilon$ case. **93b:60232**
— *see also* **Durrett, Richard, 93h:60162**
Surgailis, Donatas *see* **Albeverio, Sergio; et al., 93i:60180**
Swindle, G. *see* **Chayes, J. T.; et al., 93a:60156**
Tanemura, Hideki *see* **Kuroda, Koji, 93c:60161**
Tempelman, A. A. *see* **Žalys, Albertas, 93d:60171**
Tory, E. M. (*with* Pickard, D. K.) Unilateral Gaussian fields. **93i:60187**
Trouvé, Alain Partially parallel simulated annealing: low and high temperature approach of the invariant measure. **93f:60153**
Vahidi-Asl, Mohammad Q. (*with* Wierman, John C.) A shape result for first-passage percolation on the Voronoi tessellation and Delaunay triangulation. **93e:60199**
Vares, M. E. *see* **Ferrari, Pablo Augusto; et al., 93d:60164** *and* **93d:60165**
Wierman, John C. Equality of the bond percolation critical exponents for two pairs of dual lattices. **93f:60154**
— *see also* **Vahidi-Asl, Mohammad Q., 93e:60199**
Xu, Xian Jin *see* **Chen, Mu Fa; et al., 93i:60183**
Yang, Wei-Shih (*with* Zhang, Yu[1]) A note on differentiability of the cluster density for independent percolation in high dimensions. **93d:60170**
Žalys, Albertas (*with* Tempelman, A. A.) Generalized Gaussian fields with local interaction that are stationary over a space. (Russian) **93d:60171**
Zhang, Yu[1] *see* **Yang, Wei-Shih, 93d:60170**
Zheng, Yao Hui The Markov property and limit distribution of infinite particle systems. (Chinese. English summary)
Zhou, Xian Yin A note on the asymptotics of the polymer measures in one dimension. (English summary) **93m:60204**

Items with secondary classifications in 60K35

Alexander, Francis J. (*with* Cheng, Zheming; Janowsky, Steven A.; Lebowitz, Joel L.) Shock fluctuations in the two-dimensional asymmetric simple exclusion process. (English summary) **93g:82066**
Arak, T. (*with* Surgailis, Donatas) Markov random graphs and polygonal fields with Y-shaped nodes. **93c:60054**
Arzumanyan, V. A. (*with* Nakhapetyan, B. S.; Pogosyan, S. K.) A local limit theorem for the number of particles in lattice spin systems. (Russian. English summary) **93d:82007**
Béllissard, Jean (*with* Vaienti, Sandro) Rigorous diffusion properties for the sawtooth map. **93e:58145**
Ben Arous, Gérard (*with* Deuschel, Jean-Dominique; Stroock, Daniel W.) Precise asymptotics in large deviations. **93m:60052**
Bogachev, L. V. (*with* Molchanov, S. A.; Pastur, L. A.) On the density of states of random band matrices. (Russian) **93b:82032**
Bolthausen, Erwin On directed polymers in a random environment. **93g:60147**
Brax, Ph. On the emergence of asymptotic localization for some random diffusion processes. **93h:82076**
Bricmont, J. (*with* Kupiainen, Antti) Random walks in asymmetric random environments. **93d:82045**
Briozzo, Carlos B. (*with* Budde, Carlos E.; Osenda, Omar; Cáceres, Manuel O.) Exact and asymptotic properties of multistate random walks. **93c:60101**
Budde, Carlos E. *see* **Briozzo, Carlos B.; et al., 93c:60101**
Bulinskiĭ, A. V. (*with* Molchanov, S. A.) Asymptotic Gaussian property of the solution of the Burgers equation with random initial data. (Russian) **93c:60090**
Cáceres, Manuel O. *see* **Briozzo, Carlos B.; et al., 93c:60101**
Campanino, Massimo Ornstein-Zernike behavior for connectivities in the subcritical regime and the local limit theorem. (English summary) (*see* **93g:81002**)
Chauvin, Brigitte (*with* Olivares-Rieumont, P.; Rouault, Alain) Fluctuations of spatial branching processes with mean-field interaction. **93d:60137**
Chen, Dong Ching A uniform central limit theorem for nonuniform φ-mixing random fields. **93a:60050**
Cheng, Zheming *see* **Alexander, Francis J.; et al., 93g:82066**
Dâo Quang Tuyên *see* **Erdős, L., 93d:82058**
Darling, R. W. R. The Lyapunov exponent for products of infinite-dimensional random matrices. (English summary) **93m:60138**
Deuschel, Jean-Dominique *see* **Ben Arous, Gérard; et al., 93m:60052**
Dorlas, T. C. (*with* Lewis, John Trevor; Pulé, J. V.) Condensation in some perturbed meanfield models of a Bose gas. **93c:82035**
Duplantier, Bertrand (*with* Lawler, Gregory F.; Le Gall, Jean-François; Lyons, T. J.) The geometry of the Brownian curve. (English and French summaries) **93k:60205**
Ellis, Richard S. A unified approach to large deviations for Markov chains and applications to statistical mechanics. **93b:60138**
Erdős, L. (*with* Dâo Quang Tuyên) Central limit theorems for the one-dimensional Rayleigh gas with semipermeable barriers. **93d:82058**
Ferrari, Pablo Augusto Microscopic shocks in one-dimensional driven systems. (French summary) **93e:82032**
Fort, Jean-Claude *see* **Prum, Bernard, 93k:82001**
Funaki, Tadahisa Hydrodynamic limit for Ginzburg-Landau type continuum model. **93f:60094**
— The reversible measures of multi-dimensional Ginzburg-Landau type continuum model. **93d:60105**
— The hydrodynamic limit for a system with interactions prescribed by Ginzburg-Landau type random Hamiltonian. **93e:82031**
Gao, Fu Qing Large deviations for stationary Gaussian fields. (English summary) **93i:60051**
Gavioli, Andrea Some bounds on the bulk conductivity of a two-phase medium: a comparison between periodic and random structure. (English summary) **93k:82032**
Greven, Andreas (*with* den Hollander, Frank) Population growth in random media. I. Variational formula and phase diagram. **93g:82067**
— (*with* den Hollander, Frank) Population growth in random media. II. Wavefront propagation. **93g:82068**
Gurevich, B. M. On joint distributions of random elements with given mutual conditional distributions. **93e:60029**
Guyon, Xavier (*with* Künsch, Hans R.) Asymptotic comparison of estimators in the Ising model. (*see* **93e:62005**)
(Holický, P.) *see* **Malyshev, V. A., 93i:82003**

den Hollander, Frank (*with* Naudts, J.; Redig, Frank) Long-time tails in a random diffusion model. (English summary) **93k:82056**
— *see also* **Greven, Andreas, 93g:82067** *and* **93g:82068**
Holley, Richard On the asymptotics of the spin-spin autocorrelation function in stochastic Ising models near the critical temperature. **93a:82039**
Ignatyuk, I. A. (*with* Malyshev, V. A.; Sidoravičius, V.) Convergence of the stochastic quantization method. **93d:81094**
Ito, H. M. (*with* Ogura, Yukio; Tomisaki, Matsuyo) Stretched-exponential decay laws of general defect diffusion models. **93a:82040**
Janowsky, Steven A. *see* **Alexander, Francis J.; et al., 93g:82066**
Janžura, Martin An approximation of the pressure for the two-dimensional Ising model. **93i:82013**
Ji, Chuanshu Some estimation problems for Gibbs states. (English summary) (*see* **93g:62004**)
Khorunzhii, A. M. *see* **Molchanov, S. A.; et al., 93g:82056**
Klein, Abel (*with* Perez, J. Fernando) Localization in the ground state of a disordered array of quantum rotators. **93i:82046**
Koch, Hans A scaling limit of the Glauber dynamics for a class of neural network models. **93c:82040**
(Kotecký, Roman) *see* **Malyshev, V. A., 93i:82003**
Künsch, Hans R. *see* **Guyon, Xavier, (93e:62005)**
Kupiainen, Antti *see* **Bricmont, J., 93d:82045**
Kurien, T. V. (*with* Sethuraman, Jayaram) Singularities in Gaussian random fields. (English summary) **93k:60124**
Landim, C. Large fluctuations for Markov processes: an application to interacting particle systems. (English summary) **93m:82026**
Lawler, Gregory F. *see* **Duplantier, Bertrand; et al., 93k:60205**
Lebowitz, Joel L. *see* **Alexander, Francis J.; et al., 93g:82066**
Le Gall, Jean-François *see* **Duplantier, Bertrand; et al., 93k:60205**
Lewicki, Paweł Infinite interacting particle systems: the fluctuation phenomenon. **93m:60066**
Lewis, John Trevor *see* **Dorlas, T. C.; et al., 93c:82035**
Lyons, Russell (*with* Pemantle, Robin) Random walk in a random environment and first-passage percolation on trees. **93c:60103**
— Random walks, capacity and percolation on trees. (English summary) **93k:60175**
Lyons, T. J. *see* **Duplantier, Bertrand; et al., 93k:60205**
Madras, Neal Bounds on the critical exponent of self-avoiding polygons. **93a:82027**
— (*with* Schinazi, Rinaldo) Branching random walks on trees. (English summary) **93j:60099**
Maes, Christian An invitation to probabilistic cellular automata. (English summary) **93k:82050**
— (*with* Vande Velde, Koen) Defining relative energies for the projected Ising measure. (English summary) **93m:82002**
Malyshev, V. A. (*with* Minlos, R. A.) ★ Gibbs random fields. **93i:82003**
— *see also* **Ignatyuk, I. A.; et al., 93d:81094**
Mann, J. Adin, Jr. *see* **Pittel, Boris; et al., 93c:60105**
Mase, Shigeru (*with* Ogata, Yosihiko; Tanemura, Masaharu) Statistical point configuration data—the present state of theory and applications. (Japanese)
Menzel, Peter A limit theorem for one-dimensional Gibbs measures under conditions on the empirical field. (English summary) **93m:60054**
Minlos, R. A. *see* **Malyshev, V. A., 93i:82003**
Molchanov, S. A. Localization and intermittency: new results. **93i:82051**
— (*with* Pastur, L. A.; Khorunzhii, A. M.) Distribution of the eigenvalues of random band matrices in the limit of their infinite order. (Russian. English and Russian summaries) **93g:82056**
— *see also* **Bogachev, L. V.; et al., 93b:82032** *and* **Bulinskiĭ, A. V., 93c:60090**
Nakhapetyan, B. S. *see* **Arzumanyan, V. A.; et al., 93d:82007**
Naudts, J. *see* **den Hollander, Frank; et al., 93k:82056**
(Nazaĭkinskiĭ, V. E.) *see* **Pesin, Ya. B., 93a:58108**
Neves, E. Jordão (*with* Schonmann, Roberto H.) Behavior of droplets for a class of Glauber dynamics at very low temperature. **93f:82034**
Ogata, Yosihiko *see* **Mase, Shigeru; et al.**
Ogura, Yukio *see* **Ito, H. M.; et al., 93a:82040**
Olivares-Rieumont, P. *see* **Chauvin, Brigitte; et al., 93d:60137**
Osenda, Omar *see* **Briozzo, Carlos B.; et al., 93c:60101**
Pastur, L. A. *see* **Bogachev, L. V.; et al., 93b:82032** *and* **Molchanov, S. A.; et al., 93g:82056**
Pemantle, Robin *see* **Lyons, Russell, 93c:60103**
Perez, J. Fernando *see* **Klein, Abel, 93i:82046**
Pesin, Ya. B. (*with* Sinaĭ, Ya. G.) Space-time chaos in chains of weakly interacting hyperbolic mappings. **93a:58108**
Piekarski, Sławomir *see* **Trzęsowski, Andrzej, 93m:82035**
(Pietronero, Luciano) *see* **Fractals' physical origin and properties, 93k:00018**
Pittel, Boris (*with* Woyczyński, W. A.; Mann, J. Adin, Jr.) Correction: "Random tree-type partitions as a model for acyclic polymerization: Holtsmark (3/2-stable) distribution of the supercritical gel" [Ann. Probab. **18** (1990), no. 1, 319–341; MR 91f:60122]. **93c:60105**
Pogosyan, S. K. Probabilities of large deviations for Gibbs random fields. (Russian. English and Armenian summaries) **92e:60098**
— *see also* **Arzumanyan, V. A.; et al., 93d:82007**
Prum, Bernard (*with* Fort, Jean-Claude) ★ Stochastic processes on a lattice and Gibbs measures. **93k:82001**
Pulé, J. V. *see* **Dorlas, T. C.; et al., 93c:82035**
Redig, Frank *see* **den Hollander, Frank; et al., 93k:82056**
Rezakhanlou, Fraydoun Hydrodynamic limit for attractive particle systems on $\mathbb{Z}^d$. **93f:82035**
Roelly-Coppoletta, Sylvie (*with* Zessin, Hans) Sur la mécanique statistique d'une particule brownienne sur le tore. [On the statistical mechanics of a Brownian particle on the torus] **93m:60055**
Rouault, Alain *see* **Chauvin, Brigitte; et al., 93d:60137**
Saisho, Yasumasa On the equation describing the random motion of mutually reflecting molecules. **93b:60125**
Schinazi, Rinaldo *see* **Madras, Neal, 93j:60099**
Schonmann, Roberto H. An approach to characterize metastability and critical droplets in stochastic Ising models. (French summary) **93g:82088**
— *see also* **Neves, E. Jordão, 93f:82034**
(Schwarzbach, Bertram Eugene) *see* **Prum, Bernard, 93k:82001**
Sethuraman, Jayaram *see* **Kurien, T. V., 93k:60124**
Sidoravičius, V. *see* **Ignatyuk, I. A.; et al., 93d:81094**
Sinaĭ, Ya. G. *see* **Pesin, Ya. B., 93a:58108**
Strobel, Thomas A contribution to shape theory for the Ising model at low temperature. **93b:82018**
Stroock, Daniel W. (*with* Zegarliński, Boguslaw) The equivalence of the logarithmic Sobolev inequality and the Dobrushin-Shlosman mixing condition. **93b:82005**
— (*with* Zegarliński, Boguslaw) The logarithmic Sobolev inequality for continuous spin systems on a lattice. **93f:82015**
— *see also* **Ben Arous, Gérard; et al., 93m:60052**
Surgailis, Donatas *see* **Arak, T., 93c:60054**
Sznitman, Alain-Sol Topics in propagation of chaos. **93b:60179**
Tanemura, Masaharu *see* **Mase, Shigeru; et al.**
Tomisaki, Matsuyo *see* **Ito, H. M.; et al., 93a:82040**
Trzęsowski, Andrzej (*with* Piekarski, Sławomir) Markovian description of irreversible processes and the time randomization. (English summary) **93m:82035**
Valenti, Sandro *see* **Bellissard, Jean, 93e:58145**
Vande Velde, Koen *see* **Maes, Christian, 93m:82002**
Vares, M. E. On long time behaviour of a class of reaction-diffusion models. (French summary) **93d:82059**
Vermet, Franck Convergence de la variance de l'énergie libre pour le modèle de Hopfield. (English and French summaries) [Convergence of the variance of the free energy in the Hopfield model] **93h:82045**
Woyczyński, W. A. *see* **Pittel, Boris; et al., 93c:60105**
Zegarliński, Bogusław *see* **Stroock, Daniel W., 93b:82005** *and* **93f:82015**
Zessin, Hans *see* **Roelly-Coppoletta, Sylvie, 93m:60055**

Items listed otherwise than by author

Erice ★ Fractals' physical origin and properties. **93k:00018**
Fractals' physical origin and properties ★ Fractals' physical origin and properties. **93k:00018**
Seminar:
Fractals ★ Fractals' physical origin and properties. **93k:00018**

60K40 Other physical applications of random processes

Items with secondary classifications in 60K40

Hongler, M.-O. On the diffusion induced by alternating renewal processes. (English summary) **93j:82053**

60K99 None of the above, but in this section

Anantharam, Venkat On fast simulation of the time to saturation of slotted ALOHA. **93g:60206**
Bruni, C. (*with* Koch, Giorgio) Some results about two-mode stochastic compartmental models. (*see* **93d:93009**)
De Vylder, F. (*with* Goovaerts, M. J.; Kaas, R.) Stochastic processes defined from a Lagrangian. (English summary) **93g:60207**
Ebrahimi, Nader How to compare two systems. **93a:60161**
Goovaerts, M. J. *see* **De Vylder, F.; et al., 93g:60207**
Hu, Jian Qiang Variance properties of sample path derivatives of parametric random variables. **93a:60162**
Huang, Ch'i Jui (*with* Sheu, Shuenn Jyi) A remark on the ergodicity of systematic sweep in stochastic relaxation. (English summary) (*see* **93e:62005**)
Isham, Valerie Stochastic models for epidemics with special reference to AIDS. (English summary) **93i:60188**
Kaas, R. *see* **De Vylder, F.; et al., 93g:60207**
Kabatyanskiĭ, G. A. Order statistics and a problem of the time of transmission of messages along a network with packet switching. (Russian) (*see* **93b:60003**)
Koch, Giorgio *see* **Bruni, C., (93d:93009)**
Li, Xin Wei A discussion on multistate life distributions relative to σ-fields ($\mathscr{P}_t$). (Chinese. English and Chinese summaries)
Qian, Wei (*with* Titterington, D. M.) Normal approximations for lattice systems. **93a:60163**
Ramsay, Colin M. On the probabilities associated with exponential type 1 counters. (English summary) **93k:60241**
Reinert, Gesine A threshold theorem for the general stochastic epidemic via a discrete approach.
Sheu, Shuenn Jyi *see* **Huang, Ch'i Jui, (93e:62005)**
Titterington, D. M. *see* **Qian, Wei, 93a:60163**

Items with secondary classifications in 60K99

Asmussen, Søren (*with* Rolski, Tomasz) Computational methods in risk theory: a matrix-algorithmic approach.
Barbour, A. D. (*with* Kafetzaki, Maria) A host-parasite model yielding heterogeneous parasite loads. (English summary) **93j:92029**
Burton, Robert M., Jr. (*with* Dabrowski, André Robert) Positive dependence of exchangeable sequences. (English summary) **93g:60038**
— (*with* Keller, Gerhard) Stationary measures for randomly chosen maps. (English summary) **93m:60141**
Chao, Min Te From animal trapping to type-token. **93a:60053**
Corradi, C. Approximating the solution of an integral equation arising in the theory of risk: a comment. (English and Italian summaries)

Dabrowski, André Robert *see* **Burton, Robert M., Jr., 93g:60038**
Evans, Steven N. (*with* Speed, T. P.) Invariants of some probability models used in phylogenetic inference. (English summary) **93m:62121**
Glynn, Peter W. (*with* Heidelberger, Philip) Analysis of initial transient deletion for parallel steady-state simulations. **93c:68110**
Heidelberger, Philip *see* **Glynn, Peter W., 93c:68110**
Igarashi, A. (*with* McClintock, P. V. E.; Stocks, N. G.) Velocity spectrum for non-Markovian Brownian motion in a periodic potential. **93d:82062**
Jensen, J. L. Saddlepoint approximations to the distribution of the total claim amount in some recent risk models. (English summary) **93h:62188**
Kafetzaki, Maria *see* **Barbour, A. D., 93j:92029**
Kalpazidou, Sofia Invariant stochastic properties of a class of directed circuits. **93a:60093**
Kawazu, Kiyoshi (*with* Tamura, Yozo; Tanaka, Hiroshi[1]) Localization of diffusion processes in one-dimensional random environment. **93k:60201**
Keller, Gerhard *see* **Burton, Robert M., Jr., 93m:60141**
Le Doussal, Pierre Diffusion in layered random flows, polymers, electrons in random potentials, and spin depolarization in random fields. (English summary) **93j:82073**
McClintock, P. V. E. *see* **Igarashi, A.; et al., 93d:82062**
Mitra, Tapan (*with* Nyarko, Yaw) On the existence of optimal processes in nonstationary environments. **93b:90023**
Mountford, Thomas S. (*with* Port, Sidney C.) Random splittings of an interval. (English summary) **93m:60068**
Nyarko, Yaw *see* **Mitra, Tapan, 93b:90023**
Pemantle, Robin Vertex-reinforced random walk. **93b:60145**
Penrose, Mathew D. Semi-min-stable processes. (English summary) **93h:60081**
Port, Sidney C. *see* **Mountford, Thomas S., 93m:60068**
Rolski, Tomasz *see* **Asmussen, Søren**
Shalamov, A. S. Probability characteristics of bounded quasi-Poisson processes of inventory control systems. (Russian) **93d:90022**
Speed, T. P. *see* **Evans, Steven N., 93m:62121**
Stocks, N. G. *see* **Igarashi, A.; et al., 93d:82062**
Tamura, Yozo *see* **Kawazu, Kiyoshi; et al., 93k:60201**
Tanaka, Hiroshi[1] *see* **Kawazu, Kiyoshi; et al., 93k:60201**
Woodside, William The waiting time for the occurrence of k or more events in each of n independent Poisson processes. **93g:60114**

62–XX Statistics {For numerical methods, see 65U05.}

62–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

(Aivazyan, S. A.) *see* **Handbook: Applied statistics, 93d:62002b**
(Antle, Charles E.) *see* **Harter, H. Leon, 93c:62001b**
(Bain, Lee J.) *see* **Harter, H. Leon, 93c:62001d**
(Balakrishnan, Narayanaswamy) *see* **Harter, H. Leon, 93c:62001c**
(Beyer, William H.) *see* **CRC standard probability and statistics, 93f:62001**
(Dubey, Satya D.) *see* **Harter, H. Leon, 93c:62001a**
Harter, H. Leon ★ The chronological annotated bibliography of order statistics. Vol. IV. **93c:62001a**
— ★ The chronological annotated bibliography of order statistics. Vol. V. **93c:62001b**
— ★ The chronological annotated bibliography of order statistics. Vol. VI. **93c:62001c**
— ★ The chronological annotated bibliography of order statistics. Vol. VII. **93c:62001d**
Hutchinson, T. P. (*with* Ke, Y.) ★ Index to corrections, addenda, and comments that were published in statistics journals, 1970–1991. **93d:62001**
Ke, Y. *see* **Hutchinson, T. P., 93d:62001**
(Lloyd, Emlyn H.) *see* **Handbook: Applied statistics, 93d:62002a** *and* **93d:62002b**
(Tyurin, Yu. N.) *see* **Handbook: Applied statistics, 93d:62002a** *and* **93d:62002b**

Items listed otherwise than by author

CRC standard probability and statistics ★ CRC standard probability and statistics. **93f:62001**
Handbook:
Applied statistics ★ Справочник по прикладной статистике. Том 1. (Russian) [Handbook of applied statistics. Vol. 1] **93d:62002a**
— ★ Справочник по прикладной статистике. Том 2. (Russian) [Handbook of applied statistics. Vol. 2] **93d:62002b**
Index:
Corrections, addenda, and comments that were published in statistics journals *see* **Hutchinson, T. P., 93d:62001**
Tables:
Statistics and probability ★ CRC standard probability and statistics. **93f:62001**

Items with secondary classifications in 62–00

(Chakraborty, Ranajit) *see* **Statistical methods in biological and medical sciences, 93b:62141**
Draper, Norman R. Applied regression analysis. Bibliography update 1990–91. (English summary)
(Ghosh, Bhaskar K.) *see* **Handbook of sequential analysis, 93g:62102**
(Rao, Calyampudi Radhakrishna) *see* **Statistical methods in biological and medical sciences, 93b:62141**
(Sen, Pranab Kumar) *see* **Handbook of sequential analysis, 93g:62102**

Items listed otherwise than by author

Handbook of sequential analysis ★ Handbook of sequential analysis. **93g:62102**
Index:
Adv. in Appl. Probab. Applied probability. Complete author and subject index: 1989–91. **93f:00002**
J. Appl. Probab. Applied probability. Complete author and subject index: 1989–91. **93f:00002**
Statistical methods in biological and medical sciences ★ Statistical methods in biological and medical sciences. **93b:62141**

62–01 Instructional exposition (textbooks, tutorial papers, etc.)

Biswas, Suddhendu ★ Topics in statistical methodology. **93m:62001**
Chistyakov, A. V. *see* **Ivchenko, G. I.; et al., 93h:62001**
Dillmann, Roland ★ Statistik. I. (German) [Statistics. I] **93d:62003a**
— ★ Statistik. II. (German) [Statistics. II] **93d:62003b**
Ivchenko, G. I. (*with* Medvedev, Yu. I.) ★ Mathematical statistics. (English. English summary) **93m:62002**
— (*with* Medvedev, Yu. I.; Chistyakov, A. V.) ★ Problems in mathematical statistics. **93h:62001**
Kuznetsov, V. P. ★ Интервальные статистические модели. (Russian. Russian summary) [Interval statistical models] **93j:62001**
Lee, Peter M. ★ Bayesian statistics. **93h:62002**
Lehoczky, John Statistical methods. (*see* **93a:60001**)
Medvedev, Yu. I. *see* **Ivchenko, G. I.; et al., 93h:62001** *and* **93m:62002**
(Mitra, A. P.) *see* **Rao, Calyampudi Radhakrishna, 93e:62001**
Pieraccini, Luciano ★ Fondamenti di inferenza statistica. (Italian) [Foundations of statistical inference] **93b:62001**
(Ramanujan, Srinivasa) *see* **Rao, Calyampudi Radhakrishna, 93e:62001**
Rao, Calyampudi Radhakrishna ★ Statistics and truth. **93e:62001**
(Sehgal, Vijay Kumar) *see* **Biswas, Suddhendu, 93m:62001**
(Troshneva, Elena) *see* **Ivchenko, G. I.; et al., 93h:62001** *and* **93m:62002**

Items listed otherwise than by author

Problems:
Mathematical statistics *see* **Ivchenko, G. I.; et al., 93h:62001**

62–02 Research exposition (monographs, survey articles)

Beran, Rudolf (*with* Ducharme, Gilles R.) ★ Asymptotic theory for bootstrap methods in statistics. **93c:62002**
Cooke, Roger Marvin ★ Experts in uncertainty. **93a:62001**
Ducharme, Gilles R. *see* **Beran, Rudolf, 93c:62002**
Edwards, A. W. F. ★ Likelihood. **93m:62003**
Hoffmann, Kurt ★ Improved estimation of distribution parameters: Stein-type estimators. **93i:62001**
(Kendall, Maurice) *see* **Stuart, Alan, 93d:62004**
Kocherlakota, Kathleen *see* **Kocherlakota, Subrahmaniam, 93h:62003**
Kocherlakota, Subrahmaniam (*with* Kocherlakota, Kathleen) ★ Bivariate discrete distributions. **93h:62003**
Lehmann, Erich Leo ★ Theory of point estimation. **93c:62003a**
— ★ Теория точечного оценивания. (Russian) [Theory of point estimation] **93c:62003b**
Ord, J. Keith *see* **Stuart, Alan, 93d:62004**
(Prokhorov, Yu. V.) *see* **Lehmann, Erich Leo, 93c:62003b**
Stuart, Alan (*with* Ord, J. Keith) ★ Kendall's advanced theory of statistics. Vol. 2. **93d:62004**
Tanner, Martin A. ★ Tools for statistical inference. **93b:62002**
Whittaker, Joe ★ Graphical models in applied multivariate statistics. **93f:62002**

Items with secondary classifications in 62–02

(Chakraborty, Ranajit) *see* **Statistical methods in biological and medical sciences, 93b:62141**
(Rao, Calyampudi Radhakrishna) *see* **Statistical methods in biological and medical sciences, 93b:62141**

Items listed otherwise than by author

Statistical methods in biological and medical sciences ★ Statistical methods in biological and medical sciences. **93b:62141**

62–03 Historical (must also be assigned at least one classification number from Section 01)

Chen, Xi Ru *see* **Wang, Shou Ren; et al., (93e:62004)**
Fang, Kai Tai *see* **Wang, Shou Ren; et al., (93e:62004)**
Fienberg, Stephen E. A brief history of statistics in three and one-half chapters: a review essay.
Monterrey, Pedro A. A brief historical sketch of parameter estimation in linear and nonlinear models. (Spanish. English and Spanish summaries)
Stigler, Stephen M. Studies in the history of probability and statistics. XLIII. Karl Pearson and quasi-independence. (English summary)
Wang, Shou Ren (*with* Chen, Xi Ru; Fang, Kai Tai) Statistics in China: a brief account of the past and present. (*see* **93e:62004**)

Items with secondary classifications in 62–03

(Britton, J. L.) *see* **Turing, A. M., 93k:01094**
(Bunyakovskii, V. Ya.) *see* **Sheinin, O. B., 93g:01041**
Dale, Andrew I. ★ A history of inverse probability. **93d:60003**
(Fisher, Ronald Aylmer) *see* **Rao, Calyampudi Radhakrishna**
(Furbank, P. N.) *see* **Turing, A. M., 93k:01094**
Ghosh, Bhaskar K. A brief history of sequential analysis. (*see* **93g:62102**)
(Good, I. J.) *see* **Turing, A. M., 93k:01094**
Ineichen, Robert Aus der Vorgeschichte der mathematischen Statistik. (German summary) [From the prehistory of mathematical statistics] **93h:01004**

Rao, Calyampudi Radhakrishna R. A. Fisher: the founder of modern statistics.
Sheinin, O. B. On V. Ya. Buniakovsky's work in the theory of probability. **93g:01041**
Turing, A. M. ★ Pure mathematics. **93k:01094**

Items listed otherwise than by author

Bibliography:
Bunyakovskiĭ, V. Ya. *see* **Sheinin, O. B., 93g:01041**
Collected Works:
Turing, Alan M. *see* **Turing, A. M., 93k:01094**

62-04 Explicit machine computation and programs (not the theory of computation or programming)

Brandt, Siegmund ★ Datenanalyse. (German) [Data analysis]
Späth, Helmuth ★ Mathematical algorithms for linear regression. **93a:62002**

Items with secondary classifications in 62-04

Belsley, David A. Paring 3SLS calculations down to manageable proportions. (English summary)
Flannery, Brian P. *see* **Press, William H.; et al., 93i:65001a** *and* **93i:65001b**
(Joss, Johann) *see* **Marazzi, Alfio, 93j:62086**
Marazzi, Alfio ★ Algorithms, routines, and S functions for robust statistics. **93j:62086**
Myszka, Wojciech *see* **Rafajłowicz, Ewaryst, (93a:60004)**
Pagano, Marcello *see* **Spino, Cathie, 93b:62051**
Press, William H. (*with* Teukolsky, Saul A.; Vetterling, William T.; Flannery, Brian P.) ★ Numerical recipes in FORTRAN. **93i:65001a**
— (*with* Teukolsky, Saul A.; Vetterling, William T.; Flannery, Brian P.) ★ Numerical recipes in C. (English. English summary) **93i:65001b**
Rafajłowicz, Ewaryst (*with* Myszka, Wojciech) Computational algorithm for generating optimum experimental designs on a hypercube. (*see* **93a:60004**)
(Randriamiharisoa, Alex) *see* **Marazzi, Alfio, 93j:62086**
Spiro, Cathie (*with* Pagano, Marcello) Efficient calculation of the permutation distribution of robust two-sample statistics. **93b:62051**
Teukolsky, Saul A. *see* **Press, William H.; et al., 93i:65001a** *and* **93i:65001b**
Vetterling, William T. *see* **Press, William H.; et al., 93i:65001a** *and* **93i:65001b**

Items listed otherwise than by author

Atlanta, GA ★ 1991 Proceedings of the Statistical Computing Section, American Statistical Association. **93m:62005**
Meeting:
American Statistical Association, Statistical Computing Section ★ 1991 Proceedings of the Statistical Computing Section, American Statistical Association. **93m:62005**
Proceedings:
Statistical Computing Section, American Statistical Association ★ 1991 Proceedings of the Statistical Computing Section, American Statistical Association. **93m:62005**

62-06 Proceedings, conferences, collections, etc.

(Antoch, Jaromír) *see* **Computational aspects of model choice, 93k:62001**
(Barnett, William A.) *see* **Nonparametric and semiparametric methods in econometrics and statistics, 93c:62005**
(Barone, P.) *see* **Stochastic models, statistical methods, and algorithms in image analysis, 93e:62005**
(Basu, Debabrata[1]) *see* **Current issues in statistical inference: essays in honor of D. Basu, 93e:62003**
(Billard, Lynne) *see* **Exploring the limits of bootstrap, 93f:62003**
(Block, Henry W.) *see* **Topics in statistical dependence, 93f:62004**
(Bock, M. E.) *see* **Readings in econometric theory and practice, 93m:62006**
(Bofinger, Eve) *see* **Frontiers of modern statistical inference procedures, 93g:62002**
(Chen, Xi Ru) *see* **Development of statistics: recent contributions from China, 93e:62004**
(Dodge, Yadolah) *see* **Computational statistics, 93k:62002; 93k:62003** *and* **L_1-statistical analysis and related methods, 93k:62005**
(Dudewicz, Edward J.) *see* **Frontiers of modern statistical inference procedures, 93g:62002**
(Fang, Kai Tai) *see* **Development of statistics: recent contributions from China, 93e:62004**
(Fedrizzi, Mario) *see* **Fuzzy regression analysis, 93k:62004**
(Frigessi, Arnoldo) *see* **Stochastic models, statistical methods, and algorithms in image analysis, 93e:62005**
(Ghosh, Malay) *see* **Current issues in statistical inference: essays in honor of D. Basu, 93e:62003**
(Goel, Prem K.) *see* **Survival analysis: state of the art, 93b:62005** *and* **Bayesian analysis in statistics and econometrics, 93e:62002**
(Govindarajulu, Z.) *see* **Modern sequential analysis, 93c:62004**
(Griffiths, W. E.) *see* **Readings in econometric theory and practice, 93m:62006**
(Gutiérrez Jáimez, Ramón) *see* **Applied stochastic models and data analysis, 93g:62001**
(Härdle, Wolfgang) *see* **Computer intensive methods in statistics, 93m:62004**
(Iyengar, N. Sreenivas) *see* **Bayesian analysis in statistics and econometrics, 93e:62002**
(Judge, George) *see* **Readings in econometric theory and practice, 93m:62006**
(Kacprzyk, Janusz) *see* **Fuzzy regression analysis, 93k:62004**
(Khas'minskiĭ, R. Z.) *see* **Topics in nonparametric estimation, 93e:62006**
(Klein, John P.) *see* **Survival analysis: state of the art, 93b:62005**
(Lenz, H.-J.) *see* **Frontiers in statistical quality control, 93i:62002**
(LePage, Raoul) *see* **Exploring the limits of bootstrap, 93f:62003**
(Lewis, Gwenda J.) *see* **Frontiers of modern statistical inference procedures, 93g:62002**
(Lütkepohl, Helmut) *see* **Readings in econometric theory and practice, 93m:62006**
(Mardia, Kanti V.) *see* **Art of statistical science, 93b:62003**
(Mengersen, Kerrie) *see* **Frontiers of modern statistical inference procedures, 93g:62002**
(Pathak, Pramod K.) *see* **Current issues in statistical inference: essays in honor of D. Basu, 93e:62003**
(Piccioni, Mauro) *see* **Stochastic models, statistical methods, and algorithms in image analysis, 93e:62005**
(Possolo, Antonio) *see* **Spatial statistics and imaging, 93g:62004**
(Powell, James L.) *see* **Nonparametric and semiparametric methods in econometrics and statistics, 93c:62005**
(Racugno, Walter) *see* **Survey of statistical methods and applications, 93m:62007**
(Robbins, Herbert) *see* **Modern sequential analysis, 93c:62004**
(Sampson, Allan R.) *see* **Topics in statistical dependence, 93f:62004**
(Savits, Thomas H.) *see* **Topics in statistical dependence, 93f:62004**
(Simar, Léopold) *see* **Computer intensive methods in statistics, 93m:62004**
(Tauchen, George E.) *see* **Nonparametric and semiparametric methods in econometrics and statistics, 93c:62005**
(Valderrama Bonnet, Mariano J.) *see* **Applied stochastic models and data analysis, 93g:62001**
(Watson, G. S.) *see* **Art of statistical science, 93b:62003**
(Wetherill, G. Barrie) *see* **Frontiers in statistical quality control, 93i:62002**
(Whittaker, Joe) *see* **Computational statistics, 93k:62002** *and* **93k:62003**
(Wilrich, P.-Th.) *see* **Frontiers in statistical quality control, 93i:62002**
(Yang, Chung-Chun) *see* **Development of statistics: recent contributions from China, 93e:62004**

Items listed otherwise than by author

Applied stochastic models and data analysis ★ Applied stochastic models and data analysis. **93g:62001**
Art of statistical science ★ The art of statistical science. **93b:62003**
Atlanta, GA ★ 1991 Proceedings of the Statistical Computing Section, American Statistical Association. **93m:62005**
Bangalore ★ Bayesian analysis in statistics and econometrics. **93e:62002**
Baton Rouge, LA ★ Frontiers in statistical quality control. 4. **93i:62002**
Bayesian analysis in statistics and econometrics ★ Bayesian analysis in statistics and econometrics. **93e:62002**
Biography:
Judge, George G. ★ Readings in econometric theory and practice. **93m:62006**
Birthday:
Basu, Debabrata[1] ★ Current issues in statistical inference: essays in honor of D. Basu. **93e:62003**
Brunswick, ME ★ Spatial statistics and imaging. **93g:62004**
Cagliari ★ Rassegna di metodi statistici ed applicazioni. 8. [Survey of statistical methods and applications. 8] **93m:62007**
Columbus, OH ★ Survival analysis: state of the art. **93b:62005**
Computational aspects of model choice ★ Computational aspects of model choice. **93k:62001**
Computational statistics ★ Computational statistics. Vol. 1. **93k:62002**
— ★ Computational statistics. Vol. 2. **93k:62003**
Computer intensive methods in statistics ★ Computer intensive methods in statistics. **93m:62004**
Conference:
Computer Intensive Methods in Statistics ★ Computer intensive methods in statistics. **93m:62004**
Image Analysis and Spatial Statistics ★ Spatial statistics and imaging. **93g:62004**
Inference Procedures Associated with Statistical Ranking and Selection ★ The frontiers of modern statistical inference procedures. II. **93g:62002**
Statistical Data Analysis Based on the L_1-Norm and Related Methods ★ L_1-statistical analysis and related methods. **93k:62005**
Current issues in statistical inference: essays in honor of D. Basu ★ Current issues in statistical inference: essays in honor of D. Basu. **93e:62003**
Development of statistics: recent contributions from China ★ The development of statistics: recent contributions from China. **93e:62004**
Durham, NC ★ Nonparametric and semiparametric methods in econometrics and statistics. **93c:62005**
East Lansing, MI ★ Exploring the limits of bootstrap. **93f:62003**
Exploring the limits of bootstrap ★ Exploring the limits of bootstrap. **93f:62003**
Frontiers in statistical quality control ★ Frontiers in statistical quality control. 4. **93i:62002**
Frontiers of modern statistical inference procedures ★ The frontiers of modern statistical inference procedures. II. **93g:62002**
Fuzzy regression analysis ★ Fuzzy regression analysis. **93k:62004**
Granada ★ Applied stochastic models and data analysis. **93g:62001**
Kochi ★ Proceedings of the Symposium on Distribution Theory. **93h:62004**
L_1-statistical analysis and related methods ★ L_1-statistical analysis and related methods. **93k:62005**
Lecture Notes in Statistics ★ Bayesian analysis in statistics and econometrics. **93e:62002**
— ★ Stochastic models, statistical methods, and algorithms in image analysis. **93e:62005**
Louvain-la-Neuve ★ Computer intensive methods in statistics. **93m:62004**
Mathematical methods applied to the sciences ★ Mathematical methods applied to the sciences. (Spanish) **93b:62004**
Meeting:
American Statistical Association, Statistical Computing Section ★ 1991 Proceedings of the Statistical Computing Section, American Statistical Association. **93m:62005**
Exploring the Limits of Bootstrap ★ Exploring the limits of bootstrap. **93f:62003**
Statisticians ★ Computer intensive methods in statistics. **93m:62004**
Miniconference:
Sequential Statistical Analysis ★ Modern sequential analysis (SSA). Vol. II. **93c:62004**
Modern sequential analysis ★ Modern sequential analysis (SSA). Vol. II. **93c:62004**
NATO Advanced Research Workshop:
Survival Analysis and Related Topics ★ Survival analysis: state of the art. **93b:62005**
Neuchâtel ★ Computational statistics. Vol. 1. **93k:62002**
— ★ Computational statistics. Vol. 2. **93k:62003**
— ★ L_1-statistical analysis and related methods. **93k:62005**
Nonparametric and semiparametric methods in econometrics and statistics ★ Nonparametric and semiparametric methods in econometrics and statistics. **93c:62005**
Prague ★ Computational aspects of model choice. **93k:62001**
Proceedings:
Statistical Computing Section, American Statistical Association ★ 1991 Proceedings of

Proceedings: (*cont'd.*)
the Statistical Computing Section, American Statistical Association. **93m:62005**
Symposium on Distribution Theory ★ Proceedings of the Symposium on Distribution Theory. **93h:62004**
Readings in econometric theory and practice ★ Readings in econometric theory and practice. **93m:62006**
Research into the structure of statistical models ★ Tōkeiteki moderu no kōzō no kenkyū. (Japanese) [Research into the structure of statistical models] **93g:62003**
Rome ★ Stochastic models, statistical methods, and algorithms in image analysis. **93e:62005**
San José ★ Mathematical methods applied to the sciences. (Spanish) **93b:62004**
— ★ Mathematical methods applied to the sciences. (Spanish) **93b:62004**
School:
Computational Aspects of Model Choice ★ Computational aspects of model choice. **93k:62001**
Somerset, PA ★ Topics in statistical dependence. **93f:62004**
Spatial statistics and imaging ★ Spatial statistics and imaging. **93g:62004**
Special Year:
Image Analysis ★ Stochastic models, statistical methods, and algorithms in image analysis. **93e:62005**
Stochastic models, statistical methods, and algorithms in image analysis ★ Stochastic models, statistical methods, and algorithms in image analysis. **93e:62005**
Survey of statistical methods and applications ★ Rassegna di metodi statistici ed applicazioni. 8. [Survey of statistical methods and applications. 8] **93m:62007**
Survival analysis: state of the art ★ Survival analysis: state of the art. **93b:62005**
Sydney ★ The frontiers of modern statistical inference procedures. II. **93g:62002**
Symposium:
Applied Stochastic Models and Data Analysis ★ Applied stochastic models and data analysis. **93g:62001**
Computational Statistics ★ Computational statistics. Vol. 1. **93k:62002**
— ★ Computational statistics. Vol. 2. **93k:62003**
Dependence in Probability and Statistics ★ Topics in statistical dependence. **93f:62004**
Distribution Theory ★ Proceedings of the Symposium on Distribution Theory. **93h:62004**
Economic Theory and Econometrics ★ Nonparametric and semiparametric methods in econometrics and statistics. **93c:62005**
Mathematical Methods Applied to the Sciences ★ Mathematical methods applied to the sciences. (Spanish) **93b:62004**
— ★ Mathematical methods applied to the sciences. (Spanish) **93b:62004**
Research into the Structure of Statistical Models ★ Tōkeiteki moderu no kōzō no kenkyū. (Japanese) [Research into the structure of statistical models] **93g:62003**
Syracuse, NY ★ Modern sequential analysis (SSA). Vol. II. **93c:62004**
Topics in nonparametric estimation ★ Topics in nonparametric estimation. **93e:62006**
Topics in statistical dependence ★ Topics in statistical dependence. **93f:62004**
Workshop:
Bayesian Analysis in Statistics and Econometrics ★ Bayesian analysis in statistics and econometrics. **93e:62002**
Statistical Quality Control ★ Frontiers in statistical quality control. 4. **93i:62002**

Items with secondary classifications in 62–06

(Basawa, Ishwar V.) *see* **Proceedings: Symposium on Applied Probability, 93f:60003**
(Butsan, G. P.) *see* **Analytic problems for stochastic systems, 93m:60006**
(Cheng, Ping[1]) *see* **Probability and statistics, 93b:60004**
(Dall'Aglio, G.) *see* **Advances in probability distributions with given marginals, 93k:60004**
(Fukushima, Masatoshi) *see* **Probability theory and mathematical statistics, 93k:60008**
(Grandy, W. T., Jr.) *see* **Maximum entropy and Bayesian methods, 93b:00011**
(Jiang, Ze Pei) *see* **Probability and statistics, 93b:60004**
(Kasprzak, W.) *see* **Stochastic methods in experimental sciences, 93a:60004**
(Korolyuk, V. S.) *see* **Probability theory and mathematical statistics, 93k:60008**
(Kotz, Samuel) *see* **Advances in probability distributions with given marginals, 93k:60004**
(Mosler, K.) *see* **Stochastic orders and decision under risk, 93g:60003**
(Prokhorov, Yu. V.) *see* **New trends in probability and statistics, 93g:60001**
(Salinetti, Gabriella) *see* **Advances in probability distributions with given marginals, 93k:60004**
(Sazonov, Vyacheslav Vasil'evich) *see* **New trends in probability and statistics, 93g:60001**
(Scarsini, Marco) *see* **Stochastic orders and decision under risk, 93g:60003**
(Schick, L. H.) *see* **Maximum entropy and Bayesian methods, 93b:00011**
(Shervashidze, T.) *see* **New trends in probability and statistics, 93g:60001**
(Shiryaev, A. N.) *see* **Probability theory and mathematical statistics, 93k:60008**
(Taylor, Robert Lee) *see* **Proceedings: Symposium on Applied Probability, 93f:60003**
(Venugopal, N.) *see* **Contributions to stochastics, 93m:60007**
(Watanabe, Shinzo) *see* **Probability theory and mathematical statistics, 93k:60008**
(Weron, Aleksander) *see* **Stochastic methods in experimental sciences, 93a:60004**
(Wu, Rong[1]) *see* **Probability and statistics, 93b:60004**
(Yan, Shi Jian) *see* **Probability and statistics, 93b:60004**
(Zolotarev, V. M.) *see* **Seminar: Problems of the Stability of Stochastic Systems**

Items listed otherwise than by author

Advances in probability distributions with given marginals ★ Advances in probability distributions with given marginals. **93k:60004**
Analytic problems for stochastic systems ★ Аналитические вопросы стохастических систем. (Russian) [Analytic problems for stochastic systems] **93m:60006**
Bakuriani ★ New trends in probability and statistics. Vol. 1. **93g:60001**
Colloquium:
Probability Theory and Mathematical Statistics ★ New trends in probability and statistics. Vol. 1. **93g:60001**
Conference:
Stochastic Methods in Experimental Sciences ★ Stochastic methods in experimental sciences. **93a:60004**
Congress:
Bernoulli Society ★ Второй Всемирный Конгресс Общества Бернулли. Часть III. (Russian) [Second World Congress of the Bernoulli Society. Part III] **93k:60006**
— Второй Всемирный Конгресс Общества Бернулли. Часть I, II. (Russian) **93k:60005**
Contributions to stochastics ★ Contributions to stochastics. **93m:60007**
Hamburg ★ Stochastic orders and decision under risk. **93g:60003**
Kiev ★ Probability theory and mathematical statistics. **93k:60008**
Laramie, WY ★ Maximum entropy and Bayesian methods. **93b:00011**
Maximum entropy and Bayesian methods ★ Maximum entropy and Bayesian methods. **93b:00011**
Meeting:
Institute of Mathematical Statistics ★ Второй Всемирный Конгресс Общества Бернулли. Часть III. (Russian) [Second World Congress of the Bernoulli Society. Part III] **93k:60006**
— Второй Всемирный Конгресс Общества Бернулли. Часть I, II. (Russian) **93k:60005**
New trends in probability and statistics ★ New trends in probability and statistics. Vol. 1. **93g:60001**
Perm' XVI Seminar on Problems of the Stability of Stochastic Systems. (Russian)
Probability and statistics ★ Probability and statistics. **93b:60004**
Probability theory and mathematical statistics ★ Probability theory and mathematical statistics. **93k:60008**
Proceedings:
Symposium on Applied Probability ★ Selected Proceedings of the Sheffield Symposium on Applied Probability. **93f:60003**
Rome ★ Advances in probability distributions with given marginals. **93k:60004**
Seminar:
Problems of the Stability of Stochastic Systems XVI Seminar on Problems of the Stability of Stochastic Systems. (Russian)
Sheffield ★ Selected Proceedings of the Sheffield Symposium on Applied Probability. **93f:60003**
Special Year:
Probability and Statistics ★ Probability and statistics. **93b:60004**
Stochastic methods in experimental sciences ★ Stochastic methods in experimental sciences. **93a:60004**
Stochastic orders and decision under risk ★ Stochastic orders and decision under risk. **93g:60003**
Symposium:
Applied Probability ★ Selected Proceedings of the Sheffield Symposium on Applied Probability. **93f:60003**
Distributions with Given Marginals ★ Advances in probability distributions with given marginals. **93k:60004**
Probability Theory and Mathematical Statistics ★ Probability theory and mathematical statistics. **93k:60008**
Szklarska Poręba ★ Stochastic methods in experimental sciences. **93a:60004**
Tianjin ★ Probability and statistics. **93b:60004**
Uppsala ★ Второй Всемирный Конгресс Общества Бернулли. Часть III. (Russian) [Second World Congress of the Bernoulli Society. Part III] **93k:60006**
— Второй Всемирный Конгресс Общества Бернулли. Часть I, II. (Russian) **93k:60005**
Workshop:
Maximum Entropy and Bayesian Methods ★ Maximum entropy and Bayesian methods. **93b:00011**
Stochastic Orders and Decision Under Risk ★ Stochastic orders and decision under risk. **93g:60003**

62–07 Data analysis

Alvo, Mayer (*with* Ertas, Kadir) Graphical methods for ranking data. (English and French summaries) **93m:62008**
Bandemer, Hans (*with* Näther, Wolfgang) ★ Fuzzy data analysis. **93m:62009**
Benzécri, J.-P. ★ Correspondence analysis handbook. **93e:62007**
Daigle, Gaétan (*with* Rivest, Louis-Paul) A robust biplot. (English and French summaries) **93g:62005**
Dawid, A. Philip Prequential data analysis. (English summary) **93g:62006**
Diday, Edwin From data to knowledge: probabilist objects for a symbolic data analysis. (English summary) (*see* **93k:62002**)
Ertas, Kadir *see* **Alvo, Mayer, 93m:62008**
Frank, Ove (*with* Nowicki, Krzysztof) Exploratory statistical analysis of networks. (English summary) (*see* **93k:05003**)
(Gopalan, T. K.) *see* **Benzécri, J.-P., 93e:62007**
Härdle, Wolfgang ★ Smoothing techniques. **93b:62006**
Lerman, Israël César Conception et analyse de la forme limite d'une famille de coefficients statistiques d'association entre variables relationnelles. I. (English and French summaries) [Elaboration and analysis of the limit form of a family of statistical association coefficients between relational variables. I]
— Conception et analyse de la forme limite d'une famille de coefficients statistique d'association entre variables relationnelles. II. (English and French summaries) [Elaboration and analysis of the limit form of a family of statistical association coefficients between relational variables. II]
Näther, Wolfgang *see* **Bandemer, Hans, 93m:62009**
Nowicki, Krzysztof *see* **Frank, Ove, (93k:05003)**
Oller, José M. *see* **Rios, Martin; et al.**
Rios, Martin (*with* Villarroya, Angel; Vegas, E.; Oller, José M.) Simultaneous canonical representation of populations and variables: an application to the study of kidney disease. (Spanish. Spanish summary)
Rivest, Louis-Paul *see* **Daigle, Gaétan, 93g:62005**
Vegas, E. *see* **Rios, Martin; et al.**
Villarroya, Angel *see* **Rios, Martin; et al.**

Items with secondary classifications in 62–07

Baccini, Alain (*with* de Falguerolles, Antoine; Qannari, El Mostafa) Approche exploratoire

de l'inégalité en situation multivariée. (English and French summaries) [Empirical multivariate analysis of income inequality] **93e:62159**
Bickel, Peter J. (*with* Zhang, Ping[1]) Variable selection in nonparametric regression with categorical covariates. **93d:62087**
Brandt, Siegmund ★ Datenanalyse. (German) [Data analysis]
Cornelius, Paul L. *see* **Seyedsadr, Mahmoud, 93k:62144**
de Falguerolles, Antoine *see* **Baccini, Alain; et al., 93e:62159**
Qannari, El Mostafa *see* **Baccini, Alain; et al., 93e:62159**
Seyedsadr, Mahmoud (*with* Cornelius, Paul L.) Shifted multiplicative models for nonadditive two-way tables. (English summary) **93k:62144**
Zhang, Ping[1] *see* **Bickel, Peter J., 93d:62087**

62–09 Graphical methods

Items with secondary classifications in 62–09

Chalton, Derek O. (*with* Troskie, Cas G.) *Q* plots, a graphical aid for regression analysis.
Lauritzen, Steffen L. Propagation of probabilities, means, and variances in mixed graphical association models. (English summary) **93j:62040**
Lindsay, Bruce G. (*with* Roeder, Kathryn) Residual diagnostics for mixture models. (English summary) **93h:62065**
Roeder, Kathryn *see* **Lindsay, Bruce G., 93h:62065**
Troskie, Cas G. *see* **Chalton, Derek O.**

62Axx Foundations

62A05 Invariance and group considerations

Atkins, Joel E. (*with* Sherman, Gary J.) Sets of typical subsamples. **93e:62008**
Bondar, James V. A Hunt-Stein theorem for amenable semigroups. **93g:62007**
García Nogales, Agustín Statistical models strongly-invariant under the action of a group. **93b:62007**
Lehmann, Erich Leo (*with* Rojo, Javier) Invariant directional orderings. (English summary) **93m:62010**
Rojo, Javier *see* **Lehmann, Erich Leo, 93m:62010**
Sherman, Gary J. *see* **Atkins, Joel E., 93e:62008**

Items with secondary classifications in 62A05

Browne, Michael W. (*with* Shapiro, Alexander) Invariance of covariance structures under groups of transformations. **93c:62108**
Cadet, Alain Une unification des tests du maximum de vraisemblance de la loi normale multidimensionnelle. (English and French summaries) [A unification of maximum likelihood tests for the multivariate normal laws] **93g:62033**
Ćmiel, Adam (*with* Szkutnik, Zbigniew) On the distribution of a useful maximal invariant. **93g:62072**
Critchlow, Douglas E. On rank statistics: an approach via metrics on the permutation group. (English summary) **93j:62127**
Eaton, Morris L. *see* **Runger, George C., 93m:62128**
Fel'dman, G. M. The Cauchy distribution on abelian groups and its characterization. (Russian) **93a:60015**
Kubokawa, Tatsuya Equivariant estimation under the Pitman closeness criterion. **93e:62075**
Kumar, Somesh (*with* Sharma, Divakar) An inadmissibility result for affine equivariant estimators. **93g:62013**
Rubin, Donald B. (*with* Thomas, Neal) Affinely invariant matching methods with ellipsoidal distributions. **93h:62015**
Runger, George C. (*with* Eaton, Morris L.) Most powerful invariant permutation tests. (English summary) **93m:62128**
Shapiro, Alexander *see* **Browne, Michael W., 93c:62108**
Sharma, Divakar *see* **Kumar, Somesh, 93g:62013**
Szkutnik, Zbigniew Special capacities, the Hunt-Stein theorem and transformation groups. **93g:62065**
— *see also* **Ćmiel, Adam, 93g:62072**
Thomas, Neal *see* **Rubin, Donald B., 93h:62015**

62A10 The likelihood approach

Aitkin, Murray Evidence and the posterior Bayes factor.
(Barnard, G. A.) *see* **Goldstein, Michael, 93d:62005**
Casella, George Conditional inference from confidence sets. (English summary) **93g:62008**
Cox, D. R. *see* **Ferguson, H.; et al., 93a:62003**
Ferguson, H. (*with* Reid, N.; Cox, D. R.) Estimating equations from modified profile likelihood. **93a:62003**
Fraser, D. A. S. Statistical inference: likelihood to significance. **93c:62006**
Gill, Richard D. Marginal partial likelihood. **93g:62009**
Goldstein, Michael (*with* Howard, J. V.) A likelihood paradox. **93d:62005**
Howard, J. V. *see* **Goldstein, Michael, 93d:62005**
Jørgensen, Bent (*with* Labouriau, Rodrigo S.) ★ Famílias exponenciais e inferência teórica. (Portuguese) [Exponential families and theoretical inference] **93m:62011**
Labouriau, Rodrigo S. *see* **Jørgensen, Bent, 93m:62011**
Lee, Youngjo *see* **Nelder, J. A., 93e:62010**
Liseo, Brunero A note on a counterexample against the likelihood principle. **93e:62009**
(Martínez, José Raúl) *see* **Jørgensen, Bent, 93m:62011**
Nelder, J. A. (*with* Lee, Youngjo) Likelihood, quasi-likelihood and pseudolikelihood: some comparisons. **93e:62010**
Reid, N. *see* **Ferguson, H.; et al., 93a:62003**
Slud, Eric V. Partial likelihood for continuous-time stochastic processes. **93j:62002**
(Stone, Mervyn) *see* **Goldstein, Michael, 93d:62005**
Yip, Paul Conditional inference on a mixture model for the analysis of count data. **93a:62004**

Items with secondary classifications in 62A10

Arjas, Elja (*with* Haara, Pentti) Observation scheme and likelihood. **93m:60091**
Arnold, Barry C. (*with* Strauss, David) Pseudolikelihood estimation: some examples. (English summary) **93e:62069**
Boos, Dennis D. *see* **Monahan, John F., 93j:62006**
Christensen, Bent Jesper (*with* Kiefer, Nicholas M.) The exact likelihood function for an empirical job search model. **93c:62168**
Gerencsér, László (*with* Vágó, Zsuzsanna) A strong approximation theorem for parameter estimators in continuous time. **93c:62047**
Gushchin, A. A. On quasi-score processes. **93d:62036**
Haara, Pentti *see* **Arjas, Elja, 93m:60091**
Heitjan, Daniel F. (*with* Rubin, Donald B.) Ignorability and coarse data. **93f:62042**
Jacod, Jean Régularité d'ordre quelconque pour un modèle statistique filtré. [Regularity of any order for a filtered statistical model] **93j:62013**
Kiefer, Nicholas M. *see* **Christensen, Bent Jesper, 93c:62168**
McLeish, D. L. (*with* Small, Christopher G.) A projected likelihood function for semiparametric models. **93e:62076**
Monahan, John F. (*with* Boos, Dennis D.) Proper likelihoods for Bayesian analysis. (English summary) **93j:62006**
Mukerjee, Rahul Conditional likelihood and power: higher-order asymptotics. (English summary) **93k:62038**
Rubin, Donald B. *see* **Heitjan, Daniel F., 93f:62042**
Small, Christopher G. *see* **McLeish, D. L., 93e:62076**
Strauss, David *see* **Arnold, Barry C., 93e:62069**
Vágó, Zsuzsanna *see* **Gerencsér, László, 93c:62047**

62A15 The Bayesian approach

Basu, Debabrata[1] Learning statistics from counterexamples: ancillary statistics. (English summary) **93j:62003**
Boos, Dennis D. *see* **Monahan, John F., 93j:62006**
Brunk, H. D. Fully coherent inference. **93a:62005**
Cooke, Roger Marvin (*with* Misiewicz, J. K.; Mendel, Max B.) Applications of l_p symmetric measures to Bayesian inference. **93b:62008**
Crosse, Jo *see* **West, Mike, 93d:62006**
(Fisher, Ronald Aylmer) *see* **Seidenfeld, Teddy, 93j:62009**
Good, I. J. The Bayes/non-Bayes compromise: a brief review. (English summary) **93f:62005**
Hill, Bruce M. Bayesian nonparametric prediction and statistical inference. (English summary) **93j:62003**
Kadane, Joseph B. *see* **Schervish, Mark J.; et al., 93j:62008**
Lavine, Michael Some aspects of Pólya tree distributions for statistical modelling. (English summary) **93k:62006b**
Lloyd, Christopher Effective conditioning. (English summary) **93m:62012**
Majumdar, Suman On topological support of Dirichlet prior. (English summary) **93j:62004**
Mauldin, R. Daniel (*with* Sudderth, William D.; Williams, Stanley Carl) Pólya trees and random distributions. (English summary) **93k:62006a**
Meeden, Glen An elicitation procedure using piecewise conjugate priors. (English summary) **93j:62005**
Mendel, Max B. *see* **Cooke, Roger Marvin; et al., 93b:62008**
Misiewicz, J. K. *see* **Cooke, Roger Marvin; et al., 93b:62008**
Monahan, John F. (*with* Boos, Dennis D.) Proper likelihoods for Bayesian analysis. (English summary) **93j:62006**
Mortera, Julia Aggregation of opinions: an overview. (*see* **93m:62007**)
Parmigiani, Giovanni Minimax, information and ultrapessimism. (English summary) **93j:62007**
Polson, Nicholas G. A representation of the posterior mean for a location model. **93c:62007**
Schervish, Mark J. (*with* Seidenfeld, Teddy; Kadane, Joseph B.) Small worlds and state dependent utilities. (English summary) **93j:62008**
Seidenfeld, Teddy R. A. Fisher's fiducial argument and Bayes' theorem. **93j:62009**
— *see also* **Schervish, Mark J.; et al., 93j:62008**
Steffey, Duane Hierarchical Bayesian modeling with elicited prior information. **93e:62011**
Sudderth, William D. *see* **Mauldin, R. Daniel; et al., 93k:62006a**
Verbraak, H. L. F. ★ The logic of objective Bayesianism. **93g:62010**
West, Mike (*with* Crosse, Jo) Modelling probabilistic agent opinion. **93d:62006**
Williams, Stanley Carl *see* **Mauldin, R. Daniel; et al., 93k:62006a**
Zabell, S. L. Predicting the unpredictable. **93c:62008**

Items with secondary classifications in 62A15

Barlow, Richard E. (*with* Pereira, Carlos Alberto de Bragança) Conditional independence and probabilistic influence diagrams. (English summary) **93g:60024**
Başar, Tamer Optimum performance levels for minimax filters, predictors and smoothers. **93a:93104**
Bayarri, M. J. (*with* DeGroot, M. H.) What Bayesians expect of each other. **93k:62063**
Berliner, L. Mark Likelihood and Bayesian prediction of chaotic systems. **93e:62228**
Darwiche, Adnan Y. (*with* Ginsberg, Matthew L.) A symbolic generalization of probability theory. (English summary) **93j:68200**
Dawid, A. Philip Prequential data analysis. (English summary) **93g:62006**
— *see also* **Seillier-Moiseiwitsch, F.; et al., 93g:62063**
DeGroot, M. H. *see* **Bayarri, M. J., 93k:62063**
Dey, Dipak K. *see* **Gelfand, Alan E., 93a:62042**
Di Bacco, Mario Aggregation of probability assessments: a (not impartial) review. (Italian) (*see* **93m:62007**)
Earman, John ★ Bayes or bust? **93f:60004**
Edwards, A. W. F. ★ Likelihood. **93m:62003**
Gelfand, Alan E. (*with* Dey, Dipak K.) On Bayesian robustness of contaminated classes of priors. **93a:62042**

Gilboa, Itzhak (*with* Schmeidler, David) Updating ambiguous beliefs. (English summary) **93k:60009**
Ginsberg, Matthew L. *see* **Darwiche, Adnan Y., 93j:68200**
Heitjan, Daniel F. (*with* Rubin, Donald B.) Ignorability and coarse data. **93f:62042**
Jaffray, Jean-Yves Bayesian updating and belief functions. (English summary) **93j:68202**
Jeffrey, Richard ★ Probability and the art of judgment. **93e:00006**
Kulhavý, Rudolf On design of approximate finite-dimensional estimators: the Bayesian view. (English summary) **93i:93119**
Kunte, Sudhakar Jeffreys-Lindley paradox and a related problem. (English summary) **93j:62080**
Lavine, Michael (*with* Wasserman, Larry; Wolpert, Robert L.) Bayesian inference with specified prior marginals. **93f:62035**
— Sensitivity in Bayesian statistics: the prior and the likelihood. **93g:62047**
Lee, Peter M. ★ Bayesian statistics. **93h:62002**
Li, Zhi Qiang Asymptotic solutions to a class of Bayesian discrimination problems. (Chinese. English and Chinese summaries) **93m:62018**
Liseo, Brunero A note on a counterexample against the likelihood principle. **93e:62009**
O'Hagan, A. Bayes-Hermite quadrature. **93c:62013**
Pereira, Carlos Alberto de Bragança *see* **Barlow, Richard E., 93g:60024**
Rosenkrantz, R. D. The justification of induction. (English summary) **93m:03038**
Rubin, Donald B. *see* **Heitjan, Daniel F., 93f:62042**
Schmeidler, David *see* **Gilboa, Itzhak, 93k:60009**
Seillier-Moiseiwitsch, F. (*with* Sweeting, Trevor J.; Dawid, A. Philip) Prequential tests of model fit. **93g:62063**
Sher, David B. A computational normative theory of scientific evidence. **93f:68083**
Stinchcombe, Maxwell B. A further note on Bayesian information topologies. (English summary) **93k:60011**
Sweeting, Trevor J. *see* **Seillier-Moiseiwitsch, F.; et al., 93g:62063**
Venegas-Martínez, F. Erratum: "On regularity and optimality conditions for maximum entropy priors" [Rebrape **4** (1990), no. 2, 105–136; MR 92h:62007]. **93k:62009**
Wasserman, Larry *see* **Lavine, Michael; et al., 93f:62035**
Wolpert, Robert L. *see* **Lavine, Michael; et al., 93f:62035**
Ye, Keying Reference priors when the stopping rule depends on the parameter of interest. (English summary) **93k:62069**

62A20 The classical approach

Cooke, Roger Marvin Statistics in expert resolution: a theory of weights for combining expert opinion. **93e:62012**

Items with secondary classifications in 62A20

Albert, Max Die Falsifikation statistischer Hypothesen. (English summary) [The falsification of statistical hypotheses]
Fraser, D. A. S. Statistical inference: likelihood to significance. **93c:62006**
Mayo, Deborah G. Did Pearson reject the Neyman-Pearson philosophy of statistics? **93b:03030**

62A25 The structural approach

Items with secondary classifications in 62A25

(Fisher, Ronald Aylmer) *see* **Seidenfeld, Teddy, 93j:62009**
Seidenfeld, Teddy R. A. Fisher's fiducial argument and Bayes' theorem. **93j:62009**

62A30 The fiducial approach

Fang, Xing *see* **Wu, Cheng Ou; et al.**
Klimov, G. P. (*with* Rajaonera, Ida C.) Décisions statistiques invariantes: invariance et théorie fiducielle. [Invariant statistical decisions: invariance and fiducial theory] **93e:62013**
Rajaonera, Ida C. *see* **Klimov, G. P., 93e:62013**
Wu, Cheng Ou (*with* Zhang, Rong Qing; Fang, Xing) Inference distribution theory. (Chinese. English and Chinese summaries)
Zhang, Rong Qing *see* **Wu, Cheng Ou; et al.**

Items with secondary classifications in 62A30

(Fisher, Ronald Aylmer) *see* **Seidenfeld, Teddy, 93j:62009**
Seidenfeld, Teddy R. A. Fisher's fiducial argument and Bayes' theorem. **93j:62009**

62A99 None of the above, but in this section

Barndorff-Nielsen, Ole E. (*with* Blæsild, P.) Inversion and index notation. (English summary) **93d:62007**
Berliner, L. Mark Statistics, probability and chaos.
Blæsild, P. *see* **Barndorff-Nielsen, Ole E., 93d:62007**
Cox, D. R. Causality: some statistical aspects. **93b:62009**
Csiszár, Imre Why least squares and maximum entropy? An axiomatic approach to inference for linear inverse problems. **93c:62009**
Dickey, James M. *see* **Lad, Frank; et al.**
Draper, David (*with* Hodges, James S.; Mallows, Colin L.; Pregibon, Daryl) Exchangeability and data analysis. (English summary) **93j:62010**
Genest, Christian Vincentization revisited. **93e:62014**
Goldman, Alvin I. (*with* Shaked, Moshe) Results on inquiry and truth possession. **93c:62010**
Hodges, James S. *see* **Draper, David; et al., 93j:62010**
Lad, Frank (*with* Dickey, James M.; Rahman, Mohammad A.) Numerical application of the fundamental theorem of prevision. (English summary)
Mallows, Colin L. *see* **Draper, David; et al., 93j:62010**
Pregibon, Daryl *see* **Draper, David; et al., 93j:62010**
Rahman, Mohammad A. *see* **Lad, Frank; et al.**
Shaked, Moshe *see* **Goldman, Alvin I., 93c:62010**
Walley, Peter ★ Statistical reasoning with imprecise probabilities. **93d:62008**

Items with secondary classifications in 62A99

Bhapkar, V. P. Sufficiency, ancillarity, and information in estimating functions. **93a:62006**
Casella, George *see* **Hwang, Jiunn Tzon; et al., 93a:62020** *and* **Goutis, Constantinos, 93j:62083**
Chuaqui, Rolando ★ Truth, possibility and probability. **93h:03021**
Eguchi, Shinto Geometry of minimum contrast. **93i:62004**
Farrell, Roger H. *see* **Hwang, Jiunn Tzon; et al., 93a:62020**
Gil, María Angeles (*with* Gil Álvarez, Pedro Ángel) Fuzziness in the experimental outcomes: comparing experiments and removing the loss of information. **93e:62016**
Gil Álvarez, Pedro Ángel *see* **Gil, María Angeles, 93e:62016**
Goodman, Irwin R. (*with* Nguyen, Hung T.; Walker, Elbert A.) ★ Conditional inference and logic for intelligent systems. **93j:03015**
Goutis, Constantinos (*with* Casella, George) Increasing the confidence in Student's t interval. (English summary) **93j:62083**
Hwang, Jiunn Tzon (*with* Casella, George; Robert, Christian P.; Wells, Martin T.; Farrell, Roger H.) Estimation of accuracy in testing. **93a:62020**
Kandel, Abraham Theory and applications of fuzzy statistics. (*see* **93c:90002**)
Khan, Rasul A. On the monotonicity of a certain expectation. **93b:62114**
Kreinovich, V. Ya. (*with* Quintana, Chris) How does new evidence change our estimates of probabilities? Carnap's formula revisited. **93c:60002**
Lehmann, Erich Leo (*with* Scholz, F.-W.) Ancillarity. **93j:62011**
Nguyen, Hung T. On combining uncertainty measures. (*see* **93c:90002**)
— *see also* **Goodman, Irwin R.; et al., 93j:03015**
Quintana, Chris *see* **Kreinovich, V. Ya., 93c:60002**
Robert, Christian P. *see* **Hwang, Jiunn Tzon; et al., 93a:62020**
Roccetti, Marco (*with* Teolis, Antonio) On the probabilistic correctness of expert systems. (Italian. English summary) **93j:68204**
Scholz, F.-W. *see* **Lehmann, Erich Leo, 93j:62011**
Teolis, Antonio *see* **Roccetti, Marco, 93j:68204**
Wakker, Peter Clarification of some mathematical misunderstandings about Savage's foundations of statistics, 1954. (English summary) **93m:60013**
Walker, Elbert A. *see* **Goodman, Irwin R.; et al., 93j:03015**
Wells, Martin T. *see* **Hwang, Jiunn Tzon; et al., 93a:62020**

62Bxx Sufficiency and information

62B05 Sufficient statistics and fields

Bhapkar, V. P. Sufficiency, ancillarity, and information in estimating functions. **93a:62006**
Bhat, B. R. (*with* Datta, Somnath) On the completeness of a family of conditional distributions. (English summary) **93k:62007**
Datta, Somnath *see* **Bhat, B. R., 93k:62007**
Fujii, Junji Partitions of sample space and smallest pairwise sufficient subfields. **93e:62015**
Gil, María Angeles Sufficiency and fuzziness in random experiments. (English summary)
Lehmann, Erich Leo (*with* Scholz, F.-W.) Ancillarity. **93j:62011**
Michaletzky, Gy. Sufficiency in the non-weakly dominated case. **93d:62009**
Morimoto, Haruki *see* **Yamada, Sakutarō, 93k:62008**
Scholz, F.-W. *see* **Lehmann, Erich Leo, 93j:62011**
Weiss, Lionel Asymptotically sufficient grouping. (English summary) **93m:62013**
Yamada, Sakutarō (*with* Morimoto, Haruki) Sufficiency. **93k:62008**

Items with secondary classifications in 62B05

Chen, Gui Jing *see* **Hu, Shu He; et al., 93j:62130**
Diaconis, Persi Sufficiency as statistical symmetry. (English summary) **93g:60137**
García Nogales, Agustín Statistical models strongly-invariant under the action of a group. **93b:62007**
Hu, Shu He (*with* Zhou, Wei Xin; Chen, Gui Jing) Asymptotic sufficiency of rank statistics. (Chinese. English and Chinese summaries) **93j:62130**
Jørgensen, Bent (*with* Labouriau, Rodrigo S.) ★ Famílias exponenciais e inferência teórica. (Portuguese) [Exponential families and theoretical inference] **93m:62011**
Kusama, Tokitake On some class properties of statistical experiments under weak Blackwell equivalence. **93a:62008**
Labouriau, Rodrigo S. *see* **Jørgensen, Bent, 93m:62011**
(Martínez, José Raúl) *see* **Jørgensen, Bent, 93m:62011**
McCullagh, Peter Conditional inference and Cauchy models. (English summary) **93h:62048**
Zhou, Wei Xin *see* **Hu, Shu He; et al., 93j:62130**

62B10 Statistical information theory [see also 94A17]

Awad, Adnan M. On the Fisher β-sufficient partition. (English summary) **93k:62009**
Donoho, David L. (*with* Johnstone, Iain M.; Hoch, Jeffrey C.; Stern, Alan S.) Maximum entropy and the nearly black object. **93d:62010**
Ebrahimi, Nader Information theory and the failure time of a system. (English summary) **93k:62010**
Eguchi, Shinto Geometry of minimum contrast. **93i:62004**
Gil, María Angeles (*with* Gil Álvarez, Pedro Ángel) Fuzziness in the experimental outcomes: comparing experiments and removing the loss of information. **93e:62016**
Gil Álvarez, Pedro Ángel *see* **Gil, María Angeles, 93e:62016**
González, Lourdes Analysis of the duality between linear and loglinear families of distributions by geometric programming. (Hungarian. English and Hungarian summaries) **93k:62011**
Hoch, Jeffrey C. *see* **Donoho, David L.; et al., 93d:62010**
Johnstone, Iain M. *see* **Donoho, David L.; et al., 93d:62010**
Liu, Zhi Jun Bootstrapping one way analysis of Rao's quadratic entropy. **93a:62007**

Menéndez, Maria L. (*with* Pardo, Leandro; Taneja, Inder Jeet) On M-dimensional unified (r,s)-Jensen difference divergence measures and their applications. (English summary) **93g:62011**
— (*with* Pardo, Leandro; Morales, Domingo; Salicrú, Miquel) Some statistical applications of (r,s)-directed divergences. (English summary) **93h:62005**
— *see also* **Pardo, Leandro, 93e:62017**
Morales, Domingo *see* **Pardo, Leandro; et al., 93d:62011** *and* **Menéndez, Maria L.; et al., 93h:62005**
Pardo, Leandro (*with* Taneja, Inder Jeet; Morales, Domingo) λ-measures of hypoentropy and comparison of experiments: Bayesian approach. (Italian summary) **93d:62011**
— (*with* Menéndez, Maria L.) Informational energy in the sequential design of experiments in a Bayesian context. **93e:62017**
— *see also* **Menéndez, Maria L.; et al., 93g:62011** *and* **93h:62005**
Pardo Llorente, Julio Ángel Connection between the criterion based on (α,β)-information energy and other criteria for comparing fuzzy information systems. (Spanish. English summary) **93e:62018**
— The (α,β)-terminal information energy in the sequential selection of fuzzy information systems. (English summary)
Polson, Nicholas G. On the expected amount of information from a nonlinear model. (English summary) **93k:62012**
Quesada, Vicente (*with* Taneja, Inder Jeet) Order preserving property of unified (r,s)-information measures. (English summary) **93j:62012**
Salicrú, Miquel Information matrices associated with divergences. (Spanish. English summary) **93e:62019**
— *see also* **Menéndez, Maria L.; et al., 93h:62005**
Stern, Alan S. *see* **Donoho, David L.; et al., 93d:62010**
Taneja, Inder Jeet *see* **Pardo, Leandro; et al., 93d:62011**; **Menéndez, Maria L.; et al., 93g:62011** *and* **Quesada, Vicente, 93j:62012**
Venegas-Martínez, F. Erratum: "On regularity and optimality conditions for maximum entropy priors" [Rebrape **4** (1990), no. 2, 105–136; MR 92h:62007].

Items with secondary classifications in 62B10

Basu, Debabrata[1] Learning statistics from counterexamples: ancillary statistics. (English summary) **93j:62003**
Bhapkar, V. P. Sufficiency, ancillarity, and information in estimating functions. **93a:62006**
Cho, Byung Yup A distribution with maximum entropy. (English summary) **93e:62038**
Cooke, Roger Marvin Statistics in expert resolution: a theory of weights for combining expert opinion. **93e:62012**
Ebrahimi, Nader More predictable, less predictable and stable counting processes. (English summary) **93m:60176**
Gil, María Angeles Sufficiency and fuzziness in random experiments. (English summary)
— *see also* **Martínez, Ignacio; et al.**
Golubtsov, P. V. Informativeness in the category of linear measuring systems. (Russian. Russian summary) **93e:00010**
Hollander, Myles (*with* Proschan, Frank; Sconing, James) Information, censoring, and dependence. (English summary) **93h:62180**
Inada, Kôichi (*with* Kim, Hea-Jung) A minimum discrimination information shrinkage to interval estimator of the normal mean. **93a:62037**
Jørgensen, Bent (*with* Labouriau, Rodrigo S.) ★ Famílias exponenciais e inferência teórica. (Portuguese) [Exponential families and theoretical inference] **93m:62011**
Kapur, J. N. (*with* Kesavan, H. K.) ★ Entropy optimization principles with applications. **93k:94003**
Keitel, C. H. (*with* Wódkiewicz, K.) On the information entropy of squeezed states and the entropic uncertainty relation. **93g:81013**
Kesavan, H. K. *see* **Kapur, J. N., 93k:94003**
Khan, Mohammad Zubair *see* **Saud, Ibne**
Kim, Hea-Jung *see* **Inada, Kôichi, 93a:62037**
Labouriau, Rodrigo S. *see* **Jørgensen, Bent, 93m:62011**
Leshno, Moshe (*with* Spector, Yishay) An elementary proof of Blackwell's theorem. (English summary) **93m:62014**
Lloyd, Christopher Effective conditioning. (English summary) **93m:62012**
López, María Teresa *see* **Martínez, Ignacio; et al.**
Martínez, Ignacio (*with* Gil, María Angeles; López, María Teresa) Analysis of mutual information measures in cluster sampling. (English summary)
(Martínez, José Raúl) *see* **Jørgensen, Bent, 93m:62011**
Menéndez, Maria L. *see* **Morales, Domingo; et al., 93c:62084**; **Pardo Llorente, Julio Ángel; et al., 93i:62005** *and* **Pardo, Leandro; et al.**
Mielniczuk, Jan Grade estimation of Kullback-Leibler information number. (English summary) **93m:62079**
Morales, Domingo (*with* Pardo, Leandro; Salicrú, Miquel; Menéndez, Maria L.) A test of independence based on the (r,s)-directed divergence. **93c:62084**
— *see also* **Pardo, Leandro; et al.**
Mordeski, Èrnesto Convergence of binary statistical experiments and Hellinger processes. (Russian)
Pardo, Leandro (*with* Salicrú, Miquel; Menéndez, Maria L.; Morales, Domingo) Asymptotic properties of (r,s)-directed divergences in a stratified sampling. (English summary)
— *see also* **Morales, Domingo; et al., 93c:62084** *and* **Pardo Llorente, Julio Ángel; et al., 93i:62005**
Pardo Llorente, Julio Ángel (*with* Taneja, Inder Jeet) On the probability of error in fuzzy discrimination problems.
— (*with* Menéndez, Maria L.; Pardo, Leandro) f^*-divergence as a Bayes criterion for the comparison of experiments. (Spanish. English summary) **93i:62005**
Parzen, Emanuel Goodness of fit tests and entropy. (English summary) **93i:62045**
Proschan, Frank *see* **Hollander, Myles; et al., 93h:62180**
Reschenhofer, E. Bayesian derivation of Akaike's information criterion. (English and Italian summaries)
Salicrú, Miquel *see* **Morales, Domingo; et al., 93c:62084** *and* **Pardo, Leandro; et al.**
Saud, Ibne (*with* Khan, Mohammad Zubair) Axiomatic characterization of a generalized information improvement. (English summary)
Sconing, James *see* **Hollander, Myles; et al., 93h:62180**
Spector, Yishay *see* **Leshno, Moshe, 93m:62014**
Taneja, Inder Jeet *see* **Pardo Llorente, Julio Ángel**
Targhetta, M. Luisa Some characterizations based on Fisher's information. (Italian summary) **93d:62024**
Vajda, Igor Rényi distances of some diffusion processes. **93i:60152**
Vos, Paul W. Minimum f-divergence estimators and quasi-likelihood functions. (English summary) **93i:62023**
Wiens, Douglas P. (*with* Wu, K. H. Eden) Distributions minimizing Fisher information for scale in Kolmogorov neighbourhoods. (French summary) **93f:62041**
Wódkiewicz, K. *see* **Keitel, C. H., 93g:81013**
Wu, K. H. Eden *see* **Wiens, Douglas P., 93f:62041**

62B15 Theory of statistical experiments

Afanas'ev, A. A. On a generalization of a theorem of Chernoff. (Russian)
Jacod, Jean Régularité d'ordre quelconque pour un modèle statistique filtré. [Regularity of any order for a filtered statistical model] **93j:62013**
Kusama, Tokitake On some class properties of statistical experiments under weak Blackwell equivalence. **93a:62008**
Leshno, Moshe (*with* Spector, Yishay) An elementary proof of Blackwell's theorem. (English summary) **93m:62014**
Luschgy, Harald Ordering regression models of Gaussian processes. (English summary) **93m:62015**
— Local asymptotic mixed normality for semimartingale experiments. **93e:62020**
Menéndez, Maria L. *see* **Pardo Llorente, Julio Ángel; et al., 93i:62005** *and* **Pardo, Leandro; et al.**
Pardo, Leandro (*with* Pardo Llorente, Julio Ángel; Menéndez, Maria L.) Unified (r,s)-entropy as an index of diversity. (English summary)
— *see also* **Pardo Llorente, Julio Ángel; et al., 93i:62005**
Pardo Llorente, Julio Ángel (*with* Menéndez, Maria L.; Pardo, Leandro) f^*-divergence as a Bayes criterion for the comparison of experiments. (Spanish. English summary) **93i:62005**
— *see also* **Pardo, Leandro; et al.**
Shaked, Moshe (*with* Tong, Yung Liang) Comparison of experiments via dependence of normal variables with a common marginal distribution. **93e:62021**
Spector, Yishay *see* **Leshno, Moshe, 93m:62014**
Tong, Yung Liang *see* **Shaked, Moshe, 93e:62021**
Torgersen, Erik Stochastic orders and comparison of experiments. (English summary) **93m:62016**
Vos, Paul W. Geometry of f-divergence. **93c:62011**

Items with secondary classifications in 62B15

Afanas'ev, A. A. On a problem of distinguishing hypotheses in binary partially defined statistical experiments. (Russian)
Barlow, Richard E. (*with* Pereira, Carlos Alberto de Bragança) Conditional independence and probabilistic influence diagrams. (English summary) **93g:60024**
Bhattacharyya, A. On a geometrical representation of probability distributions and its use in statistical inference. **93i:62014**
Gil, María Angeles (*with* Gil Álvarez, Pedro Ángel) Fuzziness in the experimental outcomes: comparing experiments and removing the loss of information. **93e:62016**
Gil Álvarez, Pedro Ángel *see* **Gil, María Angeles, 93e:62016**
Kramkov, D. O. On a class of filtered spaces arising in filtered statistical problems. (Russian)
Mordeski, Èrnesto Convergence of binary statistical experiments and Hellinger processes. (Russian)
Pereira, Carlos Alberto de Bragança *see* **Barlow, Richard E., 93g:60024**

62B20 Measure-theoretic results, etc.

Plachky, D. (*with* Rukhin, Andrew L.) Characterization of some types of completeness resp. total completeness and their conservation under direct products. **93d:62012**
Rukhin, Andrew L. *see* **Plachky, D., 93d:62012**

Items with secondary classifications in 62B20

Fujii, Junji Partitions of sample space and smallest pairwise sufficient subfields. **93e:62015**
Grigelionis, B. Hellinger integrals and Hellinger processes for solutions of martingale problems. **93c:60093**

62B99 None of the above, but in this section

Items with secondary classifications in 62B99

Barndorff-Nielsen, Ole E. (*with* Blæsild, P.; Carey, A. L.; Jupp, P. E.; Mora, Marianne; Murray, M. K.) Finite-dimensional algebraic representations of the infinite phylon group. (English summary) **93k:58004**
Blæsild, P. *see* **Barndorff-Nielsen, Ole E.; et al., 93k:58004**
Carey, A. L. *see* **Barndorff-Nielsen, Ole E.; et al., 93k:58004**
Friedrich, Thomas Die Fisher-Information und symplektische Strukturen. [The Fisher information and symplectic structures] **93e:58008**
Jupp, P. E. *see* **Barndorff-Nielsen, Ole E.; et al., 93k:58004**
Mora, Marianne *see* **Barndorff-Nielsen, Ole E.; et al., 93k:58004**
Murray, M. K. *see* **Barndorff-Nielsen, Ole E.; et al., 93k:58004**

62Cxx Decision theory [see also 90A05, 90B50; for game theory, see 90D35]

62C05 General considerations

Fujishiro, Yuko A new approach to the decision theory of model selections. (English summary) **93m:62017**

Repin, V. G. (*with* Tartakovskiĭ, G. P.; Slepokurov, A. A.) Testing multi-alternative hypotheses under conditions of a priori uncertainty. (Russian) **93b:62010**
Slepokurov, A. A. *see* **Repin, V. G.; et al., 93b:62010**
Tartakovskiĭ, G. P. *see* **Repin, V. G.; et al., 93b:62010**

Items with secondary classifications in 62C05

Angus, John E. Computer-assisted improvement of mean squared error in statistical estimation. (English summary) **93k:62047**
Burshtein, David (*with* Della Pietra, Vincent; Kanevsky, Dimitri; Nádas, Arthur) Minimum impurity partitions. (English summary) **93i:62054**
Della Pietra, Vincent *see* **Burshtein, David; et al., 93i:62054**
Kanevsky, Dimitri *see* **Burshtein, David; et al., 93i:62054**
Karni, Edi A definition of subjective probabilities with state-dependent preferences. (English summary) **93k:90012**
Klimov, G. P. (*with* Rajaonera, Ida C.) Décisions statistiques invariantes: invariance et théorie fiducielle. [Invariant statistical decisions: invariance and fiducial theory] **93e:62013**
Luce, R. Duncan Singular points in generalized concatenation structures that otherwise are homogeneous. (English summary) **93i:90011**
Mathew, Thomas[1] (*with* Sinha, Bimal Kumar; Sutradhar, Brajendra C.) Nonnegative estimation of variance components in unbalanced mixed models with two variance components. (English summary) **93f:62099**
Nádas, Arthur *see* **Burshtein, David; et al., 93i:62054**
Rajaonera, Ida C. *see* **Klimov, G. P., 93e:62013**
Różański, Roman Random stopping sets in a sequential analysis of random measures and fields. **93g:62105**
Schmitz, Norbert J. Sequential decision theory. (*see* **93g:62102**)
Sinha, Bimal Kumar *see* **Mathew, Thomas[1]; et al., 93f:62099**
Sutradhar, Brajendra C. *see* **Mathew, Thomas[1]; et al., 93f:62099**

62C07 Complete class results

Al-Rawwash, Hussein M. On dominating the χ^2-test in the case of multivariate normal distribution with one-sided alternatives. (English summary) **93e:62022**

Items with secondary classifications in 62C07

Casella, George *see* **Hwang, Jiunn Tzon; et al., 93a:62020**
Farrell, Roger H. *see* **Hwang, Jiunn Tzon; et al., 93a:62020**
Hwang, Jiunn Tzon (*with* Casella, George; Robert, Christian P.; Wells, Martin T.; Farrell, Roger H.) Estimation of accuracy in testing. **93a:62020**
Robert, Christian P. *see* **Hwang, Jiunn Tzon; et al., 93a:62020**
Wells, Martin T. *see* **Hwang, Jiunn Tzon; et al., 93a:62020**

62C10 Bayesian problems; characterization of Bayes procedures

Charras, A. (*with* van Eeden, Constance) Bayes properties of estimators of location parameters in truncated parameter spaces. **93h:62006**
Datta, Gauri Sankar Pitman closeness for hierarchical Bayes predictors in mixed linear models. **93d:62013**
Eaton, Morris L. A statistical diptych: admissible inferences—recurrence of symmetric Markov chains. (English summary) **93i:62006**
van Eeden, Constance *see* **Charras, A., 93h:62006**
Gittins, John (*with* Wang, You-Gan) The learning component of dynamic allocation indices. (English summary) **93k:62013**
Hesselager, Ole Rates of risk convergence of empirical linear Bayes estimators. (English summary) **93g:62012**
Li, Zhi Qiang Asymptotic solutions to a class of Bayesian discrimination problems. (Chinese. English and Chinese summaries) **93m:62018**
O'Geran, J. H. (*with* Wynn, Henry P.; Zhiglyavskiĭ, A. A.) Search. **93c:62012**
O'Hagan, A. Bayes-Hermite quadrature. **93c:62013**
Rukhin, Andrew L. Influence of the prior distribution on the risk of the Bayes rule. (English summary) **93k:62014**
Wang, You-Gan *see* **Gittins, John, 93k:62013**
Wynn, Henry P. *see* **O'Geran, J. H.; et al., 93c:62012**
Yang, Ming Chung Ridge estimation of independent Poisson means under entropy loss. **93h:62007**
Zhiglyavskiĭ, A. A. *see* **O'Geran, J. H.; et al., 93c:62012**
Zou, Yuan Some properties of convex functions and their applications to Bayes estimation under convex loss. (Chinese. English and Chinese summaries) **93m:62019**

Items with secondary classifications in 62C10

Burshtein, David (*with* Della Pietra, Vincent; Kanevsky, Dimitri; Nádas, Arthur) Minimum impurity partitions. (English summary) **93i:62054**
Criticou, Doukissa (*with* Terzakis, Dimitris) Une classe d'estimateurs à rétrécisseur bayesiens pour la moyenne d'un vecteur normal. (English and French summaries) [A class of Bayes shrinkage estimators for the mean of a normal vector]
Crosse, Jo *see* **West, Mike, 93d:62006**
Della Pietra, Vincent *see* **Burshtein, David; et al., 93i:62054**
(Dey, Dipak K.) *see* **Ghosh, Malay, 93d:62035**
Ebrahimi, Nader An optimal stopping time for a power law process. (English summary) **93i:62071**
El-Krunz, Sadi M. (*with* Studden, W. J.) Bayesian optimal designs for linear regression models. **93a:62104**
Ferguson, Thomas S. (*with* Phadia, Eswar G.; Tiwari, Ram C.) Bayesian nonparametric inference. **93i:62028**
Ghosh, Malay (*with* Sen, Pranab Kumar) Bayesian Pitman closeness. **93d:62035**
Giles, Robin A generalization of the theory of subjective probability and expected utility. **93a:90007**
Hill, Bruce M. Bayesian nonparametric prediction and statistical inference. (English summary) **93i:62003**
Kadane, Joseph B. *see* **Schervish, Mark J.; et al., 93j:62008**
Kanevsky, Dimitri *see* **Burshtein, David; et al., 93i:62054**
Mazloum, Reda Ibrahim Limiting the risk of the Bayes estimator for the binomial distribution. (English summary) **93j:62081**
Nádas, Arthur *see* **Burshtein, David; et al., 93i:62054**
(Nayak, Tapan K.) *see* **Ghosh, Malay, 93d:62035**
Pandey, B. N. (*with* Rai, Omkar) Bayesian estimation of mean and square of mean of normal distribution using LINEX loss function. (English summary) **93i:62026**
Parmigiani, Giovanni Minimax, information and ultrapessimism. (English summary) **93j:62007**
Phadia, Eswar G. *see* **Ferguson, Thomas S.; et al., 93i:62028**
Rai, Omkar *see* **Pandey, B. N., 93i:62026**
Sarkar, Jyotirmoy One-armed bandit problems with covariates. **93g:62103**
Schervish, Mark J. (*with* Seidenfeld, Teddy; Kadane, Joseph B.) Small worlds and state dependent utilities. (English summary) **93j:62008**
Seidenfeld, Teddy *see* **Schervish, Mark J.; et al., 93j:62008**
Sen, Pranab Kumar *see* **Ghosh, Malay, 93d:62035**
Shao, Jun[1] Empirical Bayes estimation of heteroscedastic variances. (English summary) **93j:62082**
(Strawderman, William E.) *see* **Ghosh, Malay, 93d:62035**
Studden, W. J. *see* **El-Krunz, Sadi M., 93a:62104**
Terzakis, Dimitris *see* **Criticou, Doukissa**
Tiwari, Ram C. *see* **Ferguson, Thomas S.; et al., 93i:62028**
Watson, Patrick Kent The derivation of optimal forecasts of stochastic processes using a Bayes decision framework.
West, Mike (*with* Crosse, Jo) Modelling probabilistic agent opinion. **93d:62006**

62C12 Empirical decision procedures; empirical Bayes procedures

Ali Mousa, M. A. M. The bootstrap risk of linear empirical Bayes estimates. (English summary)
Chen, Xi Ru (*with* Tao, Bo) Corrected proof of a theorem concerning a conjecture of Singh. (English summary) **93e:62023**
Dey, Dipak K. (*with* Kuo, Lynn) A new empirical Bayes estimator with type II censored data. **93b:62011**
Edwards, Howard P. Empirical Bayes estimators of the probability of correct selection. (English summary) (*see* **93g:62002**)
He, Kun Parametric empirical Bayes confidence intervals based on James-Stein estimator. **93d:62014**
He, Zhong Luo Empirical Bayes estimation for parameters of one-dimensional continuous exponential families. (Chinese. English and Chinese summaries) **93m:62020**
Hwang, Hyung-Tae *see* **Kim, Woo Chul, 93f:62006**
Jung, Inha Empirical Bayes problem with random sample size components. **93e:62024**
Khatri, C. G. (*with* Rao, Calyampudi Radhakrishna) Empirical hierarchical Bayes estimation. (English summary) **93j:62014**
Kim, Woo Chul (*with* Hwang, Hyung-Tae) Empirical Bayesian multiple comparisons with the best. **93f:62006**
Kuo, Lynn *see* **Dey, Dipak K., 93b:62011**
Lahiri, Parthasarathi "Adjusted" Bayes and empirical Bayes estimation in finite population sampling. (English summary) **93f:62007**
— (*with* Tiwari, Ram C.) Nonparametric Bayes and empirical Bayes estimation of variance from stratified samples. (English summary) **93e:62025**
Li, Jin Ping Empirical Bayes rules for selecting good populations from one-dimensional discrete exponential families. (Chinese. Chinese summary) **93m:62021**
Liang, Kung-Yee (*with* Tsou, Daniel) Empirical Bayes and conditional inference with many nuisance parameters. (English summary) **93i:62007**
Liang, TaChen (*with* Panchapakesan, S.) On a monotone empirical Bayes test procedure in geometric model. **93m:62022**
Lwin, T. *see* **Maritz, J. S.**
Maritz, J. S. (*with* Lwin, T.) Assessing the performance of empirical Bayes estimators. (English summary)
Panchapakesan, S. *see* **Liang, TaChen, 93m:62022**
Prasad, B. *see* **Singh, Radhey S., 93d:62015**
Rao, Calyampudi Radhakrishna *see* **Khatri, C. G., 93j:62014**
Singh, Radhey S. (*with* Prasad, B.) Uniformly strongly consistent prior-distribution and empirical Bayes estimators with asymptotic optimality and rates in a nonexponential family. (English summary) **93d:62015**
— (*with* Wei, Lai Sheng) Empirical Bayes with rates and best rates of convergence in $u(x)C(\theta)\exp(-x/\theta)$-family: estimation case. (English summary) **93k:62015**
Tao, Bo The best uniform convergence rate of linear empirical Bayes estimators. **93i:62008**
— *see also* **Chen, Xi Ru, 93e:62023**
Tiwari, Ram C. *see* **Lahiri, Parthasarathi, 93e:62025**
Tsou, Daniel *see* **Liang, Kung-Yee, 93i:62007**
Wang, Shi Qing (*with* Wu, Guo An) A class of linear empirical Bayes estimators. (Chinese. English and Chinese summaries)
Wei, Lai Sheng Empirical Bayes two-sided test problems for the parameters of a class of one-parameter discrete exponential families. (Chinese. English and Chinese summaries)
— *see also* **Singh, Radhey S., 93k:62015**
Wu, Guo An *see* **Wang, Shi Qing**
Yang, Ya Ning The empirical Bayes test for parameters of normal distributions. (Chinese. English summary) **93c:62014**

Items with secondary classifications in 62C12

Basawa, Ishwar V. *see* **Kim, Young-Won, 93m:62198**
Billard, Lynne *see* **Meshkani, M. R., 93d:62155**
Chen, Xu Dong Letter to the editor: "On robust empirical Bayes analysis of means and variances from stratified samples" [Comm. Statist. Theory Methods **18** (1989), no. 3, 913–926; MR 90m:62032] by R. C. Tiwari and P. Lahiri. **93m:62030**
Cheng, Ping[1] *see* **Wu, Chuan Yi; et al., (93e:62004)**

Datta, Gauri Sankar (*with* Ghosh, Malay) Asymptotic optimality of hierarchical Bayes estimators and predictors. **93c:62052**
Ghosh, Malay Hierarchical and empirical Bayes sequential estimation. (*see* **93g:62102**)
— *see also* **Datta, Gauri Sankar, 93c:62052**
Green, Edwin J. (*with* Strawderman, William E.) A James-Stein type estimator for combining unbiased and possibly biased estimators. **93b:62083**
Karunamuni, R. J. Empirical Bayes sequential estimation of the mean. **93j:62204**
Kim, Young-Won (*with* Basawa, Ishwar V.) Empirical Bayes estimation for first-order autoregressive processes. (English summary) **93m:62198**
Lahiri, Parthasarathi (*with* Peddada, Shyamal Das) Bayes and empirical Bayes estimation of the finite population mean using auxiliary information. **93f:62011**
— *see also* **Chen, Xu Dong, 93m:62030**
Meshkani, M. R. (*with* Billard, Lynne) Empirical Bayes estimators for a finite Markov chain. **93d:62155**
Peddada, Shyamal Das *see* **Lahiri, Parthasarathi, 93f:62011**
Rekab, Kamel A nearly optimal two stage procedure. **93i:62074**
Shao, Jun[1] Empirical Bayes estimation of heteroscedastic variances. (English summary) **93j:62082**
Strawderman, William E. *see* **Green, Edwin J., 93b:62083**
Tao, Bo *see* **Wu, Chuan Yi; et al., (93e:62004)**
(Tiwari, Ram C.) *see* **Chen, Xu Dong, 93m:62030**
Wu, Chuan Yi (*with* Tao, Bo; Cheng, Ping[1]) Research on some problems of parameter estimation in China. (*see* **93e:62004**)

62C15 Admissibility

Ai, Ming Yao (*with* Qin, Hong) Admissibility of linear estimators for random regression coefficients and parameters in a multivariate linear model. (Chinese. English and Chinese summaries) **93m:62023**
Ananda, Malwane M. A. *see* **Rukhin, Andrew L., 93c:62016**
Chen, Jian Bao Some results on admissibility of simultaneous estimates of regression coefficients and error variance under a matrix loss function. (Chinese. English and Chinese summaries) **93m:62024**
— *see also* **Zhan, Jin Long, 93b:62014**
Edelman, David Inadmissibility of fixed-sample procedures in two independent tests for normal means. (English summary) **93e:62026**
El-Arishy, Samia M. Admissibility of continuous unbiased estimators in linear mixed models. **93d:62016**
Fourdrinier, Dominique (*with* Wells, Martin T.) Estimation d'un coût quadratique pour des lois à symétrie sphérique. (English and French summaries) [Estimation of a quadratic loss under spherically symmetric distribution] **93h:62008**
Guo, Ying Yueh (*with* Pal, Nabendu) A sequence of improvements over the James-Stein estimator. (English summary) **93h:62009**
Kim, Byung Hwee A class of admissible estimators in the one parameter exponential family. **93b:62012**
Kumar, Somesh (*with* Sharma, Divakar) An inadmissibility result for affine equivariant estimators. **93g:62013**
Leung, Pui Lam Estimation of eigenvalues of the scale matrix of the multivariate F distribution. **93e:62027**
Mathew, Thomas[1] (*with* Sinha, Bimal Kumar; Sutradhar, Brajendra C.) Improved estimation of error variance in general balanced mixed models. (English summary) **93h:62010**
Pal, Nabendu *see* **Guo, Ying Yueh, 93h:62009**
Parsian, A. *see* **Sadooghi-Alvandi, S. M., 93h:62011**
Perron, François Minimax estimators of a covariance matrix. (English summary) **93j:62015**
Phadia, Eswar G. (*with* Yu, Qi Qing) Minimaxity and admissibility of the product limit estimator. **93a:62009**
— *see also* **Yu, Qi Qing, 93j:62018**
Qin, Hong *see* **Ai, Ming Yao, 93m:62023**
Rukhin, Andrew L. (*with* Sinha, Bimal Kumar) Decision-theoretic estimation of the product of gamma scales and generalized variance. **93g:62014**
— Generalized Bayes estimators of a normal discriminant function. **93c:62015**
— Linear estimators of a location parameter and canonical parameter estimators for a Poisson distribution. **93g:62015**
— (*with* Ananda, Malwane M. A.) Risk behavior of variance estimators in multivariate normal distribution. **93c:62016**
— Estimating the noncentrality parameter of a t-distribution. (English summary) **93j:62016**
Sadooghi-Alvandi, S. M. (*with* Parsian, A.) Estimation of the binomial parameter n using a LINEX loss function. **93h:62011**
Sen, Pranab Kumar *see* **Sengupta, Debapriya, 93m:62025**
Sengupta, Debapriya (*with* Sen, Pranab Kumar) Shrinkage estimation in a restricted parameter space. (English summary) **93m:62025**
Sharma, Divakar *see* **Kumar, Somesh, 93g:62013**
Sheena, Yo (*with* Takemura, Akimichi) Inadmissibility of non-order-preserving orthogonally invariant estimators of the covariance matrix in the case of Stein's loss. **93j:62017**
Singh, Harshinder *see* **Vijayasree, G., 93b:62013**
Sinha, Bimal Kumar *see* **Rukhin, Andrew L., 93g:62014** *and* **Mathew, Thomas[1]; et al., 93h:62010**
Sutradhar, Brajendra C. *see* **Mathew, Thomas[1]; et al., 93h:62010**
Takemura, Akimichi *see* **Sheena, Yo, 93j:62017**
Vellaisamy, P. Inadmissibility results for the selected scale parameters. (English summary) **93m:62026**
Vijayasree, G. (*with* Singh, Harshinder) Simultaneous estimation of two ordered exponential parameters. **93b:62013**
Wells, Martin T. *see* **Fourdrinier, Dominique, 93h:62008**
Yu, Qi Qing (*with* Phadia, Eswar G.) Minimaxity of the best invariant estimator of a distribution function under the Kolmogorov-Smirnov loss. (English summary) **93j:62018**
— A general method of finding a minimax estimator of a distribution function when no equalizer rule is available. (English and French summaries) **93k:62016**
— Inadmissibility of the best invariant estimator of a distribution function. (English summary) **93j:62019**
— *see also* **Phadia, Eswar G., 93a:62009**
Zhan, Jin Long (*with* Chen, Jian Bao) Admissibility of linear estimators of regression coefficients with constraints. (Chinese. English summary) **93b:62014**
Zhou, Guang Ya *see* **Zou, Guo Hua, 93m:62027**
Zhu, Jin Admissibility of estimators in linear models. (Chinese. English and Chinese summaries) **93k:62017**
Zontek, Stefan Admissible estimators of variance components in normal mixed models. (English summary) **93k:62018**
Zou, Guo Hua (*with* Zhou, Guang Ya) Admissibility of estimators for loss functions. (Chinese. English and Chinese summaries) **93m:62027**

Items with secondary classifications in 62C15

Ali, Mohamed Akkas (*with* Smadi, A. A.) Modified generalized Stein estimator of regression coefficients. (English summary) **93j:62182**
Al-Rawwash, Hussein M. On dominating the χ^2-test in the case of multivariate normal distribution with one-sided alternatives. (English summary) **93e:62022**
Bai, Zhi Dong (*with* Chow, Mo Suk) Inadmissibility of the maximum likelihood estimator in the sequential estimation of the size of a population. **93k:62167**
Bertuzzi, Alessandro (*with* Gandolfi, Alberto) Ridge regression versus OLS by Pitman's closeness under quadratic and Fisher's loss. **93e:62177**
Brown, Lawrence D. (*with* Marden, John I.) Local admissibility and local unbiasedness in hypothesis testing problems. **93g:62032**
Casella, George *see* **Hwang, Jiunn Tzon; et al., 93a:62020**
Cellier, Dominique (*with* Fourdrinier, Dominique) Estimation du paramètre de position d'une loi à symétrie sphérique: une condition générale de domination de l'estimateur des moindres carrés. (English and French summaries) [Estimation of the location parameter of a spherically symmetric distribution: a general condition of domination of the least-squares estimator] **93j:62151**
Chow, Mo Suk (*with* Fong, Duncan K. H.) Simultaneous estimation of the Hardy-Weinberg proportions. (English and French summaries) **93h:62042**
— *see also* **Bai, Zhi Dong, 93k:62167**
Cohen, Arthur *see* **Kushary, Debashis, 93j:62066**
Eaton, Morris L. A statistical diptych: admissible inferences—recurrence of symmetric Markov chains. (English summary) **93i:62006**
Farrell, Roger H. *see* **Hwang, Jiunn Tzon; et al., 93a:62020**
Fong, Duncan K. H. *see* **Chow, Mo Suk, 93h:62042**
Fourdrinier, Dominique *see* **Cellier, Dominique, 93j:62151**
Gandolfi, Alberto *see* **Bertuzzi, Alessandro, 93e:62177**
Guo, Ying Yueh (*with* Pal, Nabendu) A note on the trace of a normal dispersion matrix. (English summary) **93j:62153**
He, Kun Parametric empirical Bayes confidence intervals based on James-Stein estimator. **93d:62014**
Hwang, Jiunn Tzon (*with* Casella, George; Robert, Christian P.; Wells, Martin T.; Farrell, Roger H.) Estimation of accuracy in testing. **93a:62020**
Iwasa, Manabu Admissibility of unbiased tests for a composite hypothesis with a restricted alternative. **93c:62030**
Jin, Chun (*with* Pal, Nabendu) A note on the location parameters of two exponential distributions under order restrictions. **93e:62109**
Klonecki, Witold (*with* Zontek, Stefan) Admissible estimators of variance components obtained via submodels. (English summary) **93h:62047**
Krishnamoorthy, K. Estimation of normal covariance and precision matrices with incomplete data. **93b:62015**
Kumar, Somesh (*with* Sharma, Divakar) Estimating the common mean of a bivariate normal population. (English summary) **93f:62080**
Kushary, Debashis (*with* Cohen, Arthur) Estimation of ordered Poisson parameters. (English summary) **93j:62066**
Lahiri, Parthasarathi (*with* Peddada, Shyamal Das) Bayes and empirical Bayes estimation of the finite population mean using auxiliary information. **93f:62011**
Liski, Erkki P. On a relationship between minimax-linear and admissible estimators in linear regression. (English summary) **93j:62176**
Lu, Chang Yu Admissibility of nonnegative quadratic estimators for combined variance components. (Chinese) **93b:62093**
Magiera, Ryszard Admissibility of polynomial estimators in sequential estimation for exponential-type processes. (English summary) **93d:62148**
Marden, John I. *see* **Brown, Lawrence D., 93g:62032**
Meeden, Glen The admissibility of the linear interpolation estimator of the population total. **93c:62020**
— Noninformative nonparametric Bayesian estimation of quantiles. (English summary) **93k:62093**
Pal, Nabendu *see* **Jin, Chun, 93e:62109** *and* **Guo, Ying Yueh, 93j:62153**
Peddada, Shyamal Das *see* **Lahiri, Parthasarathi, 93f:62011**
Robert, Christian P. *see* **Hwang, Jiunn Tzon; et al., 93a:62020**
Rukhin, Andrew L. Asymptotic risk behavior of mean vector and variance estimators and the problem of positive normal mean. (English summary) **93g:62075**
Schmitz, Norbert J. Sequential decision theory. (*see* **93g:62102**)
Sengupta, Samindranath A note on the admissibility of a variance estimator in SRSWR. (English summary)
Sharma, Divakar (*with* Vellaisamy, P.) Quantile estimation of the selected normal population. (English summary) **93e:62065**
— *see also* **Kumar, Somesh, 93f:62080**
Smadi, A. A. *see* **Ali, Mohamed Akkas, 93j:62182**
Song, Ruiguang On estimating the mean of the selected uniform population. (English summary) **93h:62039**
Steffey, Duane Hierarchical Bayesian modeling with elicited prior information. **93e:62011**
Stępniak, Czesław On characterization of the normal law in the Gauss-Markov model. (English summary) **93g:62025**
Stuchlý, Jaroslav The Bayes estimator of the variance components and its admissibility. **93d:62127**

Sun, Liu Quan Admissibility of linear estimators for general multivariate regression coefficients. (Chinese. English and Chinese summaries) **93g:62094**
Vellaisamy, P. *see* **Sharma, Divakar, 93e:62065**
Wells, Martin T. *see* **Hwang, Jiunn Tzon; et al., 93a:62020**
Wieczorkowski, Robert (*with* Zieliński, Ryszard) Minimax estimation of binomial probability with entropy loss function. **93i:62009**
Wu, Qi Guang On admissibility of estimators for parameters in linear models. (*see* **93e:62004**)
— Inadmissibility and admissibility of some unbiased loss estimators in linear models. (Chinese. Chinese summary) **93k:62141**
Zhou, Guang Ya *see* **Zou, Guo Hua, 93f:62081**
Zieliński, Ryszard *see* **Wieczorkowski, Robert, 93i:62009**
Zontek, Stefan *see* **Klonecki, Witold, 93h:62047**
Zou, Guo Hua (*with* Zhou, Guang Ya) Estimation of the loss function for an estimator of location parameters. (Chinese. English and Chinese summaries) **93f:62081**

62C20 Minimax procedures

Betrò, Bruno (*with* Ruggeri, Fabrizio) Conditional Γ-minimax actions under convex losses. **93h:62012**
Bischoff, Wolfgang (*with* Fieger, W.) Minimax estimators and Γ-minimax estimators for a bounded normal mean under the loss $l_p(\theta, d) = |\theta - d|^p$. **93g:62016**
— Minimax and Γ-minimax estimation for functions of the bounded parameter of a scale parameter family under "L_p-loss". **93f:62008**
Brockmann, M. (*with* Eichenauer-Herrmann, Jürgen) Gamma-minimax estimation of multinomial probabilities. (English summary) **93f:62009**
Chen, Lan Xiang Minimax estimation of the variance of a normal distribution in restricted parameter spaces. (Chinese. English and Chinese summaries) **93m:62028**
Drygas, Hilmar Minimax linear estimation in a convex linear model—a paradoxon in decision theory? **93g:62017**
Eichenauer-Herrmann, Jürgen Gamma-minimax estimation in exponential families with quadratic variance functions. **93c:62017**
— *see also* **Brockmann, M., 93f:62009**
Fieger, W. *see* **Bischoff, Wolfgang, 93g:62016**
Gödde, M. Statistical games against a prophet—proof of a minimax conjecture. **93a:62010**
Krishnamoorthy, K. Estimation of normal covariance and precision matrices with incomplete data. **93b:62015**
Landsman, Z. M. (*with* Levit, B. Ya.) Second order minimax estimation: the nuisance parameters and hypoelliptic operators. **93a:62011**
Levit, B. Ya. *see* **Landsman, Z. M., 93a:62011**
Nazin, A. V. On minimax bound for parameter estimation in ball (bias accounting). (English summary) **93k:62019**
Ruggeri, Fabrizio *see* **Betrò, Bruno, 93h:62012**
Trybuła, Stanisław Minimax estimation of a cumulative distribution function for a special loss function. **93m:62029**
Wieczorkowski, Robert (*with* Zieliński, Ryszard) Minimax estimation of binomial probability with entropy loss function. **93i:62009**
Yu, Qi Qing Minimaxity of the empirical distribution function in discrete invariant estimation of a distribution function. **93g:62018**
Zieliński, Ryszard *see* **Wieczorkowski, Robert, 93i:62009**

Items with secondary classifications in 62C20

Bilodeau, Martin (*with* Srivastava, M. S.) Estimation of the eigenvalues of $\Sigma_1\Sigma_2^{-1}$. **93b:62082**
Das, Kalyan *see* **Giri, N., 93e:62148**
Datta, Gauri Sankar Some applications of Anderson's inequality to some optimality criteria of the generalized least squares estimator. **93j:62170**
Ermakov, M. S. Asymptotic minimaxity of usual goodness of fit tests. **93d:62032**
Feldman, Israel Constrained minimax estimation of the mean of the normal distribution with known variance. **93d:62107**
Giri, N. (*with* Das, Kalyan) Locally minimax tests of independence with additional observations. (English summary) **93e:62148**
Girko, V. L. *S*-estimates. (Russian) **93c:62096**
Golubev, G. K. Asymptotically minimax estimation of a regression function in an additive model. (Russian. Russian summary) **93k:62089**
Heckman, Nancy E. Minimax Bayes estimation, penalized likelihood methods, and restricted minimax estimation. **93a:62058**
Inada, Kôichi A minimax regret estimator of the normal mean with unknown variance after preliminary test. **93i:62021**
Ingster, Yu. I. Adaptive tests for minimax testing of nonparametric hypotheses. **93b:62072**
Johnstone, Iain M. (*with* MacGibbon, K. Brenda) Minimax estimation of a constrained Poisson vector. **93d:62038**
Kerkyacharian, Gérard (*with* Picard, Dominique) Density estimation in Besov spaces. **93a:62060**
Lauterbach, Jörg (*with* Stahlecker, Peter) A numerical method for an approximate minimax estimator in linear regression. (English summary) **93j:62174**
Liski, Erkki P. On a relationship between minimax-linear and admissible estimators in linear regression. (English summary) **93j:62176**
MacGibbon, K. Brenda *see* **Johnstone, Iain M., 93d:62038**
Parmigiani, Giovanni Minimax, information and ultrapessimism. (English summary) **93j:62007**
Phadia, Eswar G. (*with* Yu, Qi Qing) Minimaxity and admissibility of the product limit estimator. **93a:62009**
Picard, Dominique *see* **Kerkyacharian, Gérard, 93a:62060**
Radavičius, M. From asymptotic efficiency in minimax sense to Bahadur efficiency. (English summary) **93k:62056**
Różański, Roman Minimax sequential estimation based on random fields. **93h:62149**
Samanta, Tapas Local asymptotic minimax estimation in nonregular case. (English summary) **93c:62050**
Shi, Ning Zhong The minimax direction for the direct product of a convex cone with its application to testing problems. **93f:62027**
Srivastava, M. S. *see* **Bilodeau, Martin, 93b:62082**
Stahlecker, Peter *see* **Lauterbach, Jörg, 93j:62174**
Szkutnik, Zbigniew Special capacities, the Hunt-Stein theorem and transformation groups. **93g:62065**
Trybuła, Stanisław Minimax prediction of the difference of multinomial random variables. **93c:62057**
Yu, Qi Qing *see* **Phadia, Eswar G., 93a:62009**

62C25 Compound decision problems

(Hashemi, H. R.) *see* **Veeravalli, Venugopal V., 93c:62018**
(Rhodes, Ian B.) *see* **Veeravalli, Venugopal V., 93c:62018**
Veeravalli, Venugopal V. Comments on: "Decentralized sequential detection" [IEEE Trans. Inform. Theory **35** (1989), no. 3, 509–520; MR 90i:62016] by H. R. Hashemi and I. B. Rhodes. **93c:62018**

62C99 None of the above, but in this section

Brandwein, Ann Cohen (*with* Strawderman, William E.) Improved estimates of location in the presence of an unknown scale. **93d:62017**
Sen, Pranab Kumar (*with* Sengupta, Debapriya) On characterizations of Pitman closeness of some shrinkage estimators. **93c:62019**
Sengupta, Debapriya *see* **Sen, Pranab Kumar, 93c:62019**
Strawderman, William E. *see* **Brandwein, Ann Cohen, 93d:62017**
Wu, Qi Guang Admissibility of simultaneous estimation of several losses. (*see* **93b:00022**)
Yatracos, Yannis G. On prediction and mean squared error. (English and French summaries) **93k:62020**

Items with secondary classifications in 62C99

Bohrer, Robert *see* **Yancey, T. A., (93m:62006)**
Bromek, T. (*with* Kowalczyk, T.) A decision approach to ordering stochastic dependence. (English summary) **93i:62051**
Brown, Lawrence D. (*with* Greenshtein, Eitan) Two-sided sequential tests. **93c:62133**
Casella, George *see* **Goutis, Constantinos, 93j:62083**
Cooke, Roger Marvin ★ Experts in uncertainty. **93a:62001**
Dhagat, Aditi (*with* Gács, Péter; Winkler, Peter M.) On playing "twenty questions" with a liar. **93f:68022**
Gács, Péter *see* **Dhagat, Aditi; et al., 93f:68022**
Goutis, Constantinos (*with* Casella, George) Increasing the confidence in Student's t interval. (English summary) **93j:62083**
Greenshtein, Eitan *see* **Brown, Lawrence D., 93c:62133**
Kowalczyk, T. *see* **Bromek, T., 93i:62051**
Liu, Jin Quan *see* **Zhou, Guang Ya**
McKendall, R. (*with* Mintz, M.) Data fusion techniques using robust statistics. (*see* **93g:68002**)
Mintz, M. *see* **McKendall, R., (93g:68002)**
Plachky, D. (*with* Rukhin, Andrew L.) Characterization of some types of completeness resp. total completeness and their conservation under direct products. **93d:62012**
Rukhin, Andrew L. *see* **Plachky, D., 93d:62012**
Shaked, Moshe (*with* Tong, Yung Liang) Comparison of experiments via dependence of normal variables with a common marginal distribution. **93e:62021**
Tong, Yung Liang *see* **Shaked, Moshe, 93e:62021**
Walley, Peter ★ Statistical reasoning with imprecise probabilities. **93d:62008**
Wells, Martin T. ε-solutions of minimization problems in statistics. **93e:62078**
Winkler, Peter M. *see* **Dhagat, Aditi; et al., 93f:68022**
Yancey, T. A. (*with* Bohrer, Robert) Risk and power for inequality pre-test estimators: general case in two dimensions. (English summary) (*see* **93m:62006**)
Zhou, Guang Ya (*with* Liu, Jin Quan) The problem of robustness of loss functions. (Chinese. English summary)

62D05 Sampling theory, sample surveys

Aragon, Jorge (*with* Pathak, Pramod K.) An algorithm for optimal integration of two surveys. (English summary)
Arnab, Raghunath Estimation of a finite population total in two-stage and stratified sampling under superpopulation models. **93d:62018**
— Estimation of a finite population mean under superpopulation models. **93e:62028**
Bagchi, Tapati *see* **Mukhopadhyay, Parimal**
Bahl, Shashi *see* **Tuteja, R. K.**
Bhattacharyya, Sikha *see* **Mukhopadhyay, Parimal**
Biemer, Paul P. (*with* Forsman, Gösta) On the quality of reinterview data with application to the current population survey. (English summary) **93j:62020**
Biradar, R. S. (*with* Singh, Housila Prasad) A class of estimators for finite population correlation coefficient using auxiliary information. (English and Hindi summaries)
Blumenthal, Saul Population size estimation with truncated data: a survey. (English summary) (*see* **93e:62002**)
Bolfarine, Heleno *see* **Zacks, Shelemyahu, 93e:62036**
Chambers, Raymond L. (*with* Dorfman, Alan H.; Wehrly, Thomas E.) Bias robust estimation in finite populations using nonparametric calibration. (English summary) **93k:62021**
Chaubey, Y. P. *see* **Tripathi, T. P., 93m:62033**
Chaudhuri, Arijit Ray (*with* Mitra, Joydip) A note on two variance estimators for Rao-Hartley-Cochran estimator. (English summary) **93h:62013**
— Randomized response: estimating mean square errors of linear estimators and finding optimal unbiased strategies. (English summary) **93k:62022**
Chen, Xu Dong Letter to the editor: "On robust empirical Bayes analysis of means and variances from stratified samples" [Comm. Statist. Theory Methods **18** (1989), no. 3, 913–926; MR 90m:62032] by R. C. Tiwari and P. Lahiri. **93m:62030**

Choi, Jong-Suk *see* **Lee, Suk-Hoon; et al., 93e:62029**
Conti, P. L. *see* **De Giovanni, L.**
Datta, Gauri Sankar (*with* Ghosh, Malay) On the frequentist properties of some hierarchical Bayes predictors in finite population sampling. **93i:62010**
Dayal, Shambhu (*with* Kumar, Rajesh) Estimation of weighted mean of finite populations. (English and Hindi summaries)
De Giovanni, L. (*with* Conti, P. L.) Sampling strategies for stratified superpopulation models in the presence of an auxiliary variable. (Italian. English and Italian summaries)
Desu, M. M. (*with* Raghavarao, Damaraju) ★ Sample size methodology. **93f:62010**
Deville, Jean-Claude (*with* Särndal, Carl-Erik) Calibration estimators in survey sampling. **93h:62014**
Dharmadhikari, Sudhakar (*with* Tankou, V.) Improvement of ratio-type estimators. II. **93d:62019**
Dorfman, Alan H. *see* **Chambers, Raymond L.; et al., 93k:62021**
Erdem, Ismail *see* **Proctor, Charles**
Fahimi, M. *see* **Pathak, Pramod K., 93g:62019**
Fairley, David *see* **Pearl, Dennis K.**
Forsman, Gösta *see* **Biemer, Paul P., 93j:62020**
Gandge, S. N. (*with* Prabhu-Ajgaonkar, S. G.) The Searls technique in the regression method of estimation. (English and Italian summaries)
Ghosh, Jayanta K. The Horvitz-Thompson estimate and Basu's circus revisited. (English summary) **93i:62011**
Ghosh, Malay *see* **Datta, Gauri Sankar, 93i:62010**
Gil, María Angeles (*with* Martínez, Ignacio) On the asymptotic optimum allocation in estimating inequality from complete data. (English summary)
— *see also* **Martínez, Ignacio; et al.**
Godambe, V. P. Survey sampling—as I understand it (a development of optimality criterion). **93m:62031**
Govindarajulu, Z. (*with* Katehakis, Michael N.) Dynamic allocation in survey sampling. (English summary) **93j:62021**
Gwet, Jean-Philippe (*with* Rivest, Louis-Paul) Outlier resistant alternatives to the ratio estimator. (English summary)
Hedayat, A. S. (*with* Pesotan, H.) Coexistence of a family of systematic sampling designs with positive second order inclusion probabilities and block designs. (English summary) **93m:62032**
Hussein, Mounira Ahmed Alternative estimators for stratified random sampling. (English summary)
Isaki, Cary T. Model bias effects in small area coverage error estimation.
Jhajj, H. S. (*with* Sharma, M. K.) A class of estimators of finite population mean using information on two auxiliary variables.
— (*with* Sharma, M. K.) Generalized class of estimators of finite population mean using multi-auxiliary information when pairwise correlation coefficients are known. (English and Hindi summaries)
Katehakis, Michael N. *see* **Govindarajulu, Z., 93j:62021**
Kaur, Surinder *see* **Singh, Padam**
Khonov, S. A. A maximum likelihood estimate for the sizes of strata of a finite population. (Russian) (*see* **93b:60003**)
Kuk, Anthony Y. C. *see* **Mak, Tak K.**
Kumar, Rajesh *see* **Dayal, Shambhu**
Lahiri, Parthasarathi (*with* Peddada, Shyamal Das) Bayes and empirical Bayes estimation of the finite population mean using auxiliary information. **93f:62011**
— *see also* **Chen, Xu Dong, 93m:62030**
Lee, Suk-Hoon (*with* Park, Nae Hyun; Choi, Jong-Suk) Bayesian ration estimation in finite populations. (Korean. English and Korean summaries) **93e:62029**
Li, H. G. *see* **Ouyang, Zhao; et al., 93k:62023**
Li, Junfang *see* **Ouyang, Zhao; et al., 93b:62016**
López, María Teresa *see* **Martínez, Ignacio; et al.**
Mak, Tak K. (*with* Kuk, Anthony Y. C.) A new method for estimating finite-population quantiles using auxiliary information. (English and French summaries)
Mangat, Naurang Singh (*with* Singh, Ravindra) An alternative approach to randomized response survey. (English and Italian summaries) **93j:62022**
— An optional randomized response sampling technique using nonstigmatized attribute. (English and Italian summaries)
Manton, Kenneth G. *see* **Potthoff, Richard F.; et al., 93e:62033**
Martínez, Ignacio (*with* Gil, María Angeles; López, María Teresa) Analysis of mutual information measures in cluster sampling. (English summary)
— *see also* **Gil, María Angeles**
Meeden, Glen Basu's contributions to the foundations of sample survey. (*see* **93e:62003**)
— The admissibility of the linear interpolation estimator of the population total. **93c:62020**
Menéndez, Maria L. *see* **Pardo, Leandro; et al.**
Milbrodt, Hartmut Comparing inclusion probabilities and drawing probabilities for rejective sampling and successive sampling. **93e:62030**
Mitra, Joydip *see* **Chaudhuri, Arijit Ray, 93h:62013**
Molina C., E. A. (*with* Skinner, C. J.) Pseudo-likelihood and quasi-likelihood estimation for complex sampling schemes.
Morales, Domingo *see* **Pardo, Leandro; et al.**
Mukerjee, Rahul *see* **Sengupta, Samindranath, 93j:62024** *and* **93k:62024**
Mukhopadhyay, Parimal (*with* Bhattacharyya, Sikha) Estimating a finite population variance under some general linear models with exchangeable errors.
— On asymptotic properties of a generalised predictor of finite population variance. (English summary) **93e:62031**
— (*with* Bagchi, Tapati) On comparing sampling strategies. (English and Hindi summaries)
Ohlsson, Esbjörn Variance estimation in the Rao-Hartley-Cochran procedure. (English summary) **93e:62032**
Okafor, F. C. The theory and application of sampling over two occasions for the estimation of current population ratio. (English and Italian summaries)
Ouyang, Zhao (*with* Schreuder, Hans T.; Li, Junfang) Regression estimation under sampling with one unit per stratum. **93b:62016**
— (*with* Schreuder, Hans T.; Li, H. G.) Robust sampling strategies for regression estimation. (English summary) **93k:62023**
— *see also* **Srivastava, Jagdish N., 93g:62022** *and* **93h:62016**
Öztaş Ayhan, H. Multiplicity estimators for multistage sample surveys: a review. (English summary)
Pardo, Leandro (*with* Salicrú, Miquel; Menéndez, Maria L.; Morales, Domingo) Asymptotic properties of (r,s)-directed divergences in a stratified sampling. (English summary)
Park, Nae Hyun *see* **Lee, Suk-Hoon; et al., 93e:62029**
Pathak, Pramod K. (*with* Fahimi, M.) Optimal integration of surveys. (English summary) **93g:62019**
— *see also* **Aragon, Jorge**
Pearl, Dennis K. (*with* Fairley, David) Using strength of opinion to test for nonresponse bias in mail surveys. (English summary)
Peddada, Shyamal Das (*with* Saxena, K. M. Lal) Minimum norm constrained estimators in randomized response surveys. (English summary) **93g:62020**
— *see also* **Lahiri, Parthasarathi, 93f:62011**
Pervaiz, Muhammad Khalid (*with* Skinner, C. J.) Multivariate analysis of clustered survey data: testing equality of covariance matrices. (English summary) **93g:62021**
Pesotan, H. *see* **Hedayat, A. S., 93m:62032**
Potthoff, Richard F. (*with* Woodbury, Max A.; Manton, Kenneth G.) "Equivalent sample size" and "equivalent degrees of freedom" refinements for inference using survey weights under superpopulation models. **93e:62033**
Prabhu-Ajgaonkar, S. G. *see* **Gandge, S. N.**
Prasad, B. (*with* Singh, Housila Prasad) Unbiased estimators of finite population variance using auxiliary information in sample surveys. **93e:62034**
Proctor, Charles (*with* Erdem, Ismail) Three-phase sampling for quantitative and for binary measurements. (English summary)
Raghavarao, Damaraju *see* **Desu, M. M., 93f:62010**
Rao, T. J. (*with* Sengupta, Samindranath; Sinha, Bikas Kumar) Some order relations between selection and inclusion probabilities for PPSWOR sampling scheme. **93b:62017**
Rivest, Louis-Paul *see* **Gwet, Jean-Philippe**
Rizzo, Louis Conditionally consistent estimators using only probabilities of selection in complex sample surveys. (English summary) **93j:62023**
Royall, Richard M. The model based (prediction) approach to finite population sampling theory. (*see* **93e:62003**)
Rubin, Donald B. (*with* Thomas, Neal) Affinely invariant matching methods with ellipsoidal distributions. **93h:62015**
Rueda García, M. Multivariate extension of the ratio method of estimation. (English summary) (*see* **93g:62001**)
Ruíz Espejo, Mariano The generalized product estimator. (Spanish. English summary)
— Stratified sampling in analytic studies. (Spanish. English and Spanish summaries)
— Optimality of sample means. (Spanish. English summary)
Salicrú, Miquel *see* **Pardo, Leandro; et al.**
Sampath, S. (*with* Suresh Chandra, K.) Estimation of population mean in the presence of parabolic trend. (Hindi summary)
Särndal, Carl-Erik (*with* Swensson, Bengt; Wretman, Jan) ★ Model assisted survey sampling. **93d:62020**
— *see also* **Deville, Jean-Claude, 93h:62014**
Saxena, K. M. Lal *see* **Peddada, Shyamal Das, 93g:62020**
Schreuder, Hans T. *see* **Ouyang, Zhao; et al., 93b:62016** *and* **93k:62023**
Sen, A. R. Some early developments in ratio estimation. (English summary)
Sengupta, Samindranath A note on the admissibility of a variance estimator in SRSWR. (English summary)
— A note on Murthy's estimator in PPSWOR sampling. (English summary)
— (*with* Mukerjee, Rahul) Optimal spatial sampling plans in the presence of linear trend. (English summary) **93k:62024**
— (*with* Mukerjee, Rahul) Some optimal sampling designs in the presence of polynomial trends. (English summary) **93j:62024**
— *see also* **Rao, T. J.; et al., 93b:62017**
Shanker, U. *see* **Zaidi, S. M. H.; et al.**
Sharma, M. K. *see* **Jhajj, H. S.**
Singh, G. N. *see* **Singh, Vijay Kumar; et al.**
Singh, Housila Prasad *see* **Prasad, B., 93e:62034** *and* **Biradar, R. S.**
Singh, Padam (*with* Kaur, Surinder) On nearly πPS sampling scheme. (English and Hindi summaries)
Singh, R. Karan *see* **Zaidi, S. M. H.; et al.**
Singh, R. V. K. *see* **Singh, Vijay Kumar; et al.**
Singh, Ravindra *see* **Mangat, Naurang Singh, 93j:62022** *and* **Singh, Sarjinder, 93k:62025**
Singh, Sarjinder (*with* Singh, Ravindra) Improved Franklin's model for randomized response sampling. (English summary) **93k:62025**
Singh, Vijay Kumar (*with* Singh, G. N.) Chain type regression estimators with two auxiliary variables under double sampling scheme. (English and Italian summaries)
— (*with* Singh, R. V. K.; Singh, G. N.) Efficiency comparison of modified class of ratio type estimators using coefficient of variation of auxiliary variable. (English summary)
Sinha, Bikas Kumar *see* **Rao, T. J.; et al., 93b:62017**
Sitter, R. R. Comparing three bootstrap methods for survey data. (English and French summaries) **93e:62035**
Skinner, C. J. *see* **Pervaiz, Muhammad Khalid, 93g:62021** *and* **Molina C., E. A.**
Srivastava, Jagdish N. (*with* Ouyang, Zhao) Sampling theory using experimental design concepts. (English summary) **93g:62022**
— (*with* Ouyang, Zhao) Studies on a general estimator in sampling, utilizing extraneous information through a sample weight function. **93h:62016**
Srivastava, Surendra K. A note on improving classes of estimators in survey sampling. (English and Hindi summaries)
Suresh Chandra, K. *see* **Sampath, S.**
Swensson, Bengt *see* **Särndal, Carl-Erik; et al., 93d:62020**
Tankou, V. *see* **Dharmadhikari, Sudhakar, 93d:62019**
Thomas, Neal *see* **Rubin, Donald B., 93h:62015**
Thompson, Steven K. ★ Sampling. **93j:62025**
(Tiwari, Ram C.) *see* **Chen, Xu Dong, 93m:62030**
Tripathi, T. P. (*with* Chaubey, Y. P.) Improved estimation of a finite population mean based on paired observations. (English summary) **93m:62033**

Tuteja, R. K. (*with* Bahl, Shashi) Multivariate product estimators. (English summary)
Valliant, Richard Poststratification and conditional variance estimation. (English summary)
Vijayan, Kaipillil Estimating functions in survey sampling: estimation of super-population regression parameters. **93d:62021**
Wang, Jie Fu² Allocation of the second-stage sampling units in two-stage sampling. (Chinese. English and Chinese summaries)
Weerahandi, Samaradasa (*with* White, Robert G.) Some survey techniques for sampling rare subjects. (English summary)
Wehrly, Thomas E. *see* **Chambers, Raymond L.; et al., 93k:62021**
White, Robert G. *see* **Weerahandi, Samaradasa**
Woodbury, Max A. *see* **Potthoff, Richard F.; et al., 93e:62033**
Wretman, Jan *see* **Särndal, Carl-Erik; et al., 93d:62020**
Wright, Tommy A note on sampling to locate rare defectives with strong prior evidence. (English summary) **93j:62026**
Wu, Kwei Mei (*with* Yao, Ching Hsing) Optimum boundary points for double stratification. (English summary) **93j:62027**
Yao, Ching Hsing *see* **Wu, Kwei Mei, 93j:62027**
Zacks, Shelemyahu (*with* Bolfarine, Heleno) Equivariant prediction of the population variance under location-scale superpopulation models. (English summary) **93e:62036**
Zaidi, S. M. H. (*with* Shanker, U.; Singh, R. Karan) An optimum allocation with a class of estimators using auxiliary information. (English summary)

Items with secondary classifications in 62D05

Beal, Stuart L. Confidence regions with fixed effects linear models in the finite population case. (English summary)
Bickel, Peter J. (*with* Nair, Vijayan N.; Wang, Paul C. C.) Nonparametric inference under biased sampling from a finite population. **93h:62068**
Chambers, Raymond L. (*with* Dorfman, Alan H.; Hall, Peter Gavin) Properties of estimators of the finite population distribution function. (English summary) **93j:62090**
— (*with* Welsh, A. H.) Log-linear models for survey data with nonignorable nonresponse. (English summary)
Dorfman, Alan H. *see* **Chambers, Raymond L.; et al., 93j:62090**
Hall, Peter Gavin *see* **Chambers, Raymond L.; et al., 93j:62090**
Lahiri, Parthasarathi "Adjusted" Bayes and empirical Bayes estimation in finite population sampling. (English summary) **93f:62007**
— (*with* Tiwari, Ram C.) Nonparametric Bayes and empirical Bayes estimation of variance from stratified samples. (English summary) **93e:62025**
Little, Roderick J. A. (*with* Rubin, Donald B.) ★ Статистический анализ данных с пропусками. (Russian) [Statistical analysis with missing data] **93a:62029**
Lloyd, Christopher Testing capture homogeneity in a recapture model. (English summary)
Naiman, Daniel Q. (*with* Wynn, Henry P.) Inclusion-exclusion-Bonferroni identities and inequalities for discrete tube-like problems via Euler characteristics. **93b:60035**
Nair, Vijayan N. *see* **Bickel, Peter J.; et al., 93h:62068**
(Nikiforov, A. M.) *see* **Little, Roderick J. A., 93a:62029**
Pham-Gia, T. (*with* Turkkan, N.) Information loss in a noisy dichotomous sampling process. **93c:62162**
Rubin, Donald B. *see* **Little, Roderick J. A., 93a:62029**
Sinha, Bikas Kumar Sequential methods for finite populations. (*see* **93g:62102**)
Sitter, R. R. A resampling procedure for complex survey data. (English summary) **93h:62092**
Tiwari, Ram C. *see* **Lahiri, Parthasarathi, 93e:62025**
Turkkan, N. *see* **Pham-Gia, T., 93c:62162**
Wang, Paul C. C. *see* **Bickel, Peter J.; et al., 93h:62068**
Welsh, A. H. *see* **Chambers, Raymond L.**
Wynn, Henry P. *see* **Naiman, Daniel Q., 93b:60035**

62Exx Distribution theory [see also 60Exx]

62E10 Characterization and structure theory

Ahmed, Abdul-Hadi Nabih *see* **Yehia, A. Y., 93i:62017**
Ahsanullah, Mohammad Two characteristic properties of the generalized negative binomial distribution. **93a:62012**
— (*with* Bansal, Naveen K.; Hamedani, G. G.) On characterizations of normal distributions. (English summary) **93h:62017**
— Some characteristic properties of the record values from the exponential distribution. (English summary) **93e:62037**
Al-Osh, Mohamed A. *see* **Alzaid, Abdulhamid A.**
Alzaid, Abdulhamid A. (*with* Al-Osh, Mohamed A.) Characterization of probability distributions based on the relation $X \stackrel{d}{=} U(X_1 + X_2)$. (English summary)
Arnold, Barry C. Dependence in conditionally specified distributions. (English summary) **93i:62012**
— (*with* Norton, Robert M.) On Cauchy-like distributions. (English summary) **93f:62012**
Balakrishnan, Narayanaswamy *see* **Liang, TaChen, 93c:62022**
Balasubramanian, Krishnaswami (*with* Beg, M. I.) Distributions determined by conditioning on a pair of order statistics. **93h:62018**
Bansal, Naveen K. *see* **Ahsanullah, Mohammad; et al., 93h:62017**
Bar-Lev, Shaul K. (*with* Bshouty, Daoud; Enis, Peter) On polynomial variance functions. (English summary) **93i:62013**
Beg, M. I. *see* **Balasubramanian, Krishnaswami, 93h:62018**
Bhandari, Subir Kumar *see* **Purkayastha, Sumitra, 93e:62043**
Bhattacharyya, A. On a geometrical representation of probability distributions and its use in statistical inference. **93i:62014**
Block, Henry W. (*with* Chhetry, D.; Fang, Zhao Ben; Sampson, Allan R.) Partial orderings on permutations. (English summary) **93i:62015**
Bryc, Włodzimierz (*with* Szablowski, Paweł J.) Some characteristic of normal distribution by conditional moments. (English summary) **93i:62016**
Bshouty, Daoud *see* **Bar-Lev, Shaul K.; et al., 93i:62013**
Casalis, Muriel Les familles exponentielles sur $\mathbf{R}^2$ de fonction-variance $V(m) = am \otimes m + B(m) + C$. (English summary) [Natural exponential families on $\mathbf{R}^2$ with variance-function $V(m) = am \otimes m + B(m) + C$] **93c:62021**
Cheng, Kan *see* **Ma, Ben Cheng**
Chhetry, D. *see* **Block, Henry W.; et al., 93i:62015**
Cho, Byung Yup A distribution with maximum entropy. (English summary) **93e:62038**
Choi, Byoung Seon On the conditional probability density functions of multivariate uniform random vectors and multivariate normal random vectors. **93a:62013**
Chukova, S. (*with* Dimitrov, B.) On distributions having the almost-lack-of-memory property. **93k:62026**
Deng, Lih-Yuan (*with* George, E. Olusegun) Some characterizations of the uniform distribution with applications to random number generation. (English summary) **93j:62028**
Dimitrov, B. *see* **Chukova, S., 93k:62026**
van Eeden, Constance On a conjecture concerning a characterization of the exponential distribution. **93d:62022**
Encarnación, Mark J. A note on linear regression functions. **93e:62039**
Enis, Peter *see* **Bar-Lev, Shaul K.; et al., 93i:62013**
Fang, Zhao Ben *see* **Block, Henry W.; et al., 93i:62015**
Galambos, Janos (*with* Hagwood, Robert Charles) The characterization of a distribution function by the second moment of the residual life. **93e:62040**
George, E. Olusegun *see* **Deng, Lih-Yuan, 93j:62028**
Glänzel, W. Characterization through some conditional moments of Pearson-type distributions and discrete analogues. (English summary) **93e:62041**
Hagwood, Robert Charles *see* **Galambos, Janos, 93e:62040**
Hamedani, G. G. *see* **Ahsanullah, Mohammad; et al., 93h:62017**
van Harn, K. (*with* Steutel, F. W.) On a characterization of the exponential distribution. **93a:62014**
Hitha, N. (*with* Unnikrishnan Nair, N.) Characterizations of bivariate Lomax and finite range distributions. (English summary) **93h:62019**
Hürlimann, Werner On parameter orthogonality to the mean. (English summary) **93j:62029**
Jayakumar, K. (*with* Pillai, R. N.) On class L distributions. (English summary) **93m:62034**
John, K. J. Characterization of a mixture of gamma density. (English summary)
Jørgensen, Bent ★ Exponential dispersion models. **93j:62030**
Kagan, A. M. Linearity of regression of the third sample moment of the sample average. (Italian summary) **93d:62023**
Klebanov, L. B. (*with* Zinger, A. A.) Characterization of distributions: problems, methods, applications. **93a:62015**
Kokonendji, Célestin Clotaire Caractérisation des fonctions variances de Seshadri des familles exponentielles sur **R**. (English summary) [A characterization of Seshadri's variance functions of exponential families in **R**] **93e:62042**
Korwar, R. M. A characterization of the family of distributions with a linear mean residual life function. (English summary) **93m:62035**
Kunte, Sudhakar (*with* Rattihalli, R. N.) Uniform random variables: do they exist in the subjective sense? (English summary) **93k:62027**
Lau, Ka-Sing (*with* Prakasa Rao, B. L. S.) Letter to the editor: "Characterization of the exponential distribution by the relevation transform" [J. Appl. Probab. **27** (1990), no. 3, 726–729; MR 91i:62026]. **93j:62031**
Liang, TaChen (*with* Balakrishnan, Narayanaswamy) A characterization of exponential distributions through conditional independence. **93c:62022**
Lin, Kuo Tung Characterizations of continuous distributions via expected values of two functions of order statistics. (English summary)
— Characterizations of distributions via moments. (English summary) **93j:62032**
Ma, Ben Cheng (*with* Cheng, Kan) Characterizations of geometric distributions based on moments. (English summary)
Ma, Chung Sheng The order of a univariate elliptical distribution. (English summary) **93j:62033**
Mukerjee, Rahul *see* **Purkayastha, Sumitra, 93j:62035**
Nagaraja, H. N. Two characterizations of the exponential laws. (English summary) **93g:62023**
Nevzorov, V. B. A characterization of exponential distributions by correlations between records. (English summary) **93m:62036**
Nguyen, Truc T. (*with* Sampson, Allan R.) A note on characterizations of multivariate stable distributions. **93b:62018**
Norton, Robert M. *see* **Arnold, Barry C., 93f:62012**
Pázman, Andrej Curvatures and the distribution of the maximum likelihood estimator in nonlinear exponential models. **93h:62020**
Pillai, R. N. *see* **Jayakumar, K., 93m:62034**
Prakasa Rao, B. L. S. ★ Identifiability in stochastic models. **93j:62034**
— *see also* **Lau, Ka-Sing, 93j:62031**
Purkayastha, Sumitra (*with* Bhandari, Subir Kumar) Characterization of uniform distributions by inequalities of Chernoff-type. (English summary) **93e:62043**
— (*with* Mukerjee, Rahul) Maximum likelihood characterization of the von Mises-Fisher matrix distribution. (English summary) **93j:62035**
Ramachandran Nair, V. K. (*with* Unnikrishnan Nair, N.) On conditional lack of memory. (English summary) **93h:62021**
Rattihalli, R. N. *see* **Kunte, Sudhakar, 93k:62027**
Salama, Ibrahim A. (*with* Sen, Pranab Kumar) Spherical uniformity and some characterizations of the Cauchy distribution. **93j:62036**
Sampson, Allan R. *see* **Nguyen, Truc T., 93b:62018** *and* **Block, Henry W.; et al., 93i:62015**
Sankaran, P. G. (*with* Unnikrishnan Nair, N.) On bivariate vitality functions. (English summary) **93h:62022**
Sen, Pranab Kumar *see* **Salama, Ibrahim A., 93j:62036**
Seshadri, Vanamamalai Finite mixtures of natural exponential families. (French summary) **93g:62024**
— General exponential models on the unit simplex and related multivariate inverse Gaussian distributions. (English summary) **93h:62023**
Sreehari, M. *see* **Srivastava, Deo Kumar, 93f:62013**
Srivastava, Deo Kumar (*with* Sreehari, M.) Characterization results based on variance bounds. (English summary) **93f:62013**

Stępniak, Czesław On characterization of the normal law in the Gauss-Markov model. (English summary) **93g:62025**
Steutel, F. W. *see* **van Harn, K., 93a:62014**
Swanepoel, J. W. H. A note on the characterization of the exponential distribution by the covariance of spacings.
Szabłowski, Paweł J. Binormal law characterized by polynomial conditional moments. **93f:62014**
— *see also* **Bryc, Włodzimierz, 93i:62016**
Targhetta, M. Luisa Some characterizations based on Fisher's information. (Italian summary) **93d:62024**
Unnikrishnan Nair, N. *see* **Hitha, N., 93h:62019**; **Ramachandran Nair, V. K., 93h:62021** *and* **Sankaran, P. G., 93h:62022**
Weber, James Generalized transformations of random variables. **93a:62016**
Wesołowski, Jacek Characterizations of distributions by constant regression of quadratic statistics on a linear one. (English summary) **93f:62015**
— A characterization of the bivariate elliptically contoured distribution. (English summary) **93e:62044**
Yanagimoto, Takemi Dependence ordering in statistical models and other notions. (English summary) **93g:62026**
Yehia, A. Y. (*with* Ahmed, Abdul-Hadi Nabih) Two characterizations of geometric distributions. (English summary) **93i:62017**
— Characterization of a mixture of generalized gamma distribution. (English summary) **93f:62016**
Zinger, A. A. *see* **Klebanov, L. B., 93a:62015**

Items with secondary classifications in 62E10

Arnold, Barry C. (*with* Castillo, Enrique; Sarabia Alegría, José María) ★ Conditionally specified distributions. **93h:60018**
Atkins, Joel E. (*with* Sherman, Gary J.) Sets of typical subsamples. **93e:62008**
Baringhaus, L. (*with* Henze, N.) A characterization of and new consistent tests for symmetry. **93k:62105**
Bar-Lev, Shaul K. (*with* Bshouty, Daoud; Enis, Peter; Ohayon, Avital Y.) Compositions and products of infinitely divisible variance functions. **93h:60021**
— (*with* Bshouty, Daoud; Letac, Gérard) Natural exponential families and self-decomposability. **93c:60012**
Baxter, Laurence A. (*with* Rachev, Svetlozar T.) The stability of a characterization of the bivariate Marshall-Olkin distribution. **93a:60022**
Bélisle, Claude Odd central moments of unimodal distributions. **93a:60020**
Bshouty, Daoud *see* **Bar-Lev, Shaul K.; et al., 93c:60012** *and* **93h:60021**
Cacoullos, Theophilos Two LDF characterizations of the normal as a spherical distribution. **93f:60018**
— (*with* Papathanasiou, V.) Lower variance bounds and a new proof of the central limit theorem. (English summary) **93k:60046**
Castillo, Enrique *see* **Arnold, Barry C.; et al., 93h:60018**
Cheng, Kan (*with* Ma, Ben Cheng) Characterizations of exponential distributions in life distribution classes. (Chinese. English and Chinese summaries)
Cheng, Shi Xue Characterization for binomial sequences among renewal sequences. **93f:60019**
Draper, David (*with* Hodges, James S.; Mallows, Colin L.; Pregibon, Daryl) Exchangeability and data analysis. (English summary) **93j:62010**
Enis, Peter *see* **Bar-Lev, Shaul K.; et al., 93h:60021**
Fel'dman, G. M. The Cauchy distribution on abelian groups and its characterization. (Russian) **93a:60015**
Gabrielyan, S. S. Characterization of the Cauchy distribution on abelian groups. (Russian. English summary) **93b:60021**
Gelbrich, Matthias On a formula for the L^2 Wasserstein metric between measures on Euclidean and Hilbert spaces. **93a:62081**
Genest, Christian Vincentization revisited. **93e:62014**
Hamedani, G. G. Bivariate and multivariate normal characterizations: a brief survey. **93h:62103**
Hassairi, Abdelhamid La classification des familles exponentielles naturelles sur $\mathbf{R}^n$ par l'action du groupe linéaire de $\mathbf{R}^{n+1}$. (English and French summaries) [Classification of natural exponential families in $\mathbf{R}^n$ by the action of the linear group in $\mathbf{R}^{n+1}$] **93i:60023**
Henze, N. *see* **Baringhaus, L., 93k:62105**
Hodges, James S. *see* **Draper, David; et al., 93j:62010**
Hürlimann, Werner On parameter orthogonality to the mean. **93c:62063**
Iverson, Geoffrey J. (*with* Sheu, Ching Fan) Characterizing random variables in the context of signal detection theory. **93b:94006**
Jankovic, S. Preservation of type under mixing. (English summary) **93m:60031**
Jørgensen, Bent ★ The theory of exponential dispersion models and analysis of deviance. **93j:62164**
Kemperman, J. H. B. Mixtures with a limited number of modal intervals. **93f:60020**
Klebanov, L. B. (*with* Melamed, Joseph A.) Generalized Marcinkiewicz's theorem and asymptotic expansions in the central limit theorem. (English summary) **93h:60019**
Knautz, Henning (*with* Trenkler, Götz) On the correlation between $\overline{X}$ and S^2. (English summary) **93k:62028**
Knott, Martin *see* **Smith, Cyril, 93a:60024**
Koicheva, Maia On an inequality and the related characterization of the gamma distribution. (English summary) **93k:60049**
Lachout, Petr Linear rescaling of the stochastic process. (English summary) **93m:60102**
Lau, Ka-Sing *see* **Ramachandran, Balasubrahmanyan, 93c:60016**
Letac, Gérard *see* **Bar-Lev, Shaul K.; et al., 93c:60012**
Ma, Ben Cheng *see* **Cheng, Kan**
Ma, Ren Jun A further investigation of multivariate Liouville distributions and some related distributions. (Chinese. English and Chinese summaries) **93m:62122**
Majumdar, Suman On topological support of Dirichlet prior. (English summary) **93j:62004**
Mallows, Colin L. *see* **Draper, David; et al., 93j:62010**
Marshall, Albert W. (*with* Olkin, Ingram) Multivariate distributions generated from mixtures of convolution and product families. (English summary) **93i:60025**
Melamed, Joseph A. Inequalities for the moments of ν-infinitely divisible laws and the characterization of probability distributions. **93g:60034**
— *see also* **Klebanov, L. B., 93h:60019**
Mora, Marianne Geometrical expansions for the distributions of the score vector and the maximum likelihood estimator. **93g:62038**
Móri, Tamás F. Essential correlatedness and almost independence. (English summary) **93i:60027**
Neupokoeva, M. V. On the recovery of a distribution from the moments of sums of independent random variables. **93d:60019**
Ohayon, Avital Y. *see* **Bar-Lev, Shaul K.; et al., 93h:60021**
Olkin, Ingram *see* **Marshall, Albert W., 93i:60025**
Pakes, Anthony G. On characterizations through mixed sums. (English summary) **93k:60043**
— A characterization of gamma mixtures of stable laws motivated by limit theorems. (English summary) **93i:60028**
Papathanasiou, V. *see* **Cacoullos, Theophilos, 93k:60046**
Pregibon, Daryl *see* **Draper, David; et al., 93j:62010**
Rachev, Svetlozar T. *see* **Baxter, Laurence A., 93a:60022**
Ramachandran, Balasubrahmanyan (*with* Lau, Ka-Sing) ★ Functional equations in probability theory. **93c:60016**
Rojo, Javier A pure-tail ordering based on the ratio of the quantile functions. **93c:60017**
Roy, Dilip A stability property of the linear growth birth and death process under restricted power series distributions.
Sarabia Alegría, José María *see* **Arnold, Barry C.; et al., 93h:60018**
Sherman, Gary J. *see* **Atkins, Joel E., 93e:62008**
Sheu, Ching Fan *see* **Iverson, Geoffrey J., 93b:94006**
Smith, Cyril (*with* Knott, Martin) On Hoeffding-Fréchet bounds and cyclic monotone relations. **93a:60024**
Trenkler, Götz *see* **Knautz, Henning, 93k:62028**
Vitale, Richard A. On stochastic dependence and a class of degenerate distributions. (English summary) **93i:60030**
Wesołowski, Jacek Gaussian conditional structure of the second order and the Kagan classification of multivariate distributions. **93a:62082**
Yanushkevichius, R. On the stability of characterizations of a mixture of probability distributions. **93k:60039**
Zeng, Wei Bin A note on stability of multivariate distributions. **93f:60023**

62E15 Exact distribution theory

Ahsanullah, Mohammad A note on the one parameter power series distribution. (English summary)
Ali, Mir Masoom *see* **Roy, Manindra Kumar; et al., 93j:62041**
Barndorff-Nielsen, Ole E. (*with* Jørgensen, Bent) Some parametric models on the simplex. **93c:62023**
Basak, P. *see* **Lindsay, Bruce G., 93a:62017**
Bhoj, Dinesh S. On the distribution of the weighted combination of independent probabilities. (English summary) **93j:62037**
Bowman, K. O. (*with* Shenton, L. R.) Some exact expressions for the mean and higher moments of functions of sample moments. (English summary)
— (*with* Kastenbaum, Marvin A.; Shenton, L. R.) The negative hypergeometric distribution and estimation by moments.
Bunge, J. A. (*with* Nagaraja, H. N.) Exact distribution theory for some point process record models. **93d:62025**
— (*with* Nagaraja, H. N.) Correction: "Exact distribution theory for some point process record models" [Adv. in Appl. Probab. **24** (1992), no. 1, 20–44; MR 93d:62025].
Cabuk, Serafettin *see* **Springer, Melvin D.**
Chu, David P. T. Exact distribution of random volume from beta type-2 random points. **93e:62045**
Chung, Younshik *see* **Dey, Dipak K., 93m:62037**
Dey, Dipak K. (*with* Chung, Younshik) Compound Poisson distributions: properties and estimation. (English summary) **93m:62037**
Ennis, Daniel M. (*with* Johnson, Norman Lloyd[2]) Noncentral and central chi-square, F and beta distribution functions as special cases of the distribution function of an indefinite quadratic form. (English summary)
Fang, Zhao Ben (*with* Joe, Harry) Further developments on some dependence orderings for continuous bivariate distributions. (English summary) **93j:62038**
Fung, Karen Yuen *see* **Huang, Mei-Ling**
Garg, Sheekha The distribution of the sum of mixed independent random variables. (English summary)
Gastaldi, Tommaso On the mean and the variance of a generalized oscillation index derived via the Minkowski metric, and of a spatial correlation index. (Italian. English and Italian summaries)
Gather, U. (*with* Kale, B. K.) Outlier generating models—a review. (*see* **93m:60007**)
Gerber, Hans U. From the generalized gamma to the generalized negative binomial distribution.
Giles, David E. A. The exact distribution of a simple pre-test estimator. (English summary) (*see* **93m:62006**)
Gupta, Ramesh C. *see* **Tiwari, Ram C.; et al., 93b:62019**
Huang, Mei-Ling (*with* Fung, Karen Yuen) Intervened truncated Poisson distribution. (English summary)
Hutcheson, K. *see* **McCormick, William P.; et al., 93e:62046**
Janardan, K. G. Some properties of the generalized Eulerian distribution. (English summary) **93j:62039**
Joe, Harry *see* **Fang, Zhao Ben, 93j:62038**
Johnson, Norman Lloyd[2] (*with* Kotz, Samuel) Some further (more or less) naturally occurring mixture distributions. (English summary) **93h:62024**
— *see also* **Ennis, Daniel M.**
Jørgensen, Bent *see* **Barndorff-Nielsen, Ole E., 93c:62023**
Kale, B. K. *see* **Gather, U., (93m:60007)**
Kastenbaum, Marvin A. *see* **Bowman, K. O.; et al.**

Kemp, Adrienne W. Heine-Euler extensions of the Poisson distribution.
Knautz, Henning (*with* Trenkler, Götz) On the correlation between $\overline{X}$ and S^2. (English summary) **93k:62028**
Kotz, Samuel *see* **Johnson, Norman Lloyd², 93h:62024**
Krysicki, W. On the modes of a mixture of two Laplace distributions. (Polish. Polish summary)
Kulasekera, K. B. (*with* Tonkyn, David W.) A new discrete distribution, with applications to survival, dispersal and dispersion.
Kulkarni, H. V. *see* **Prasad, M. S., 93h:62025**
Lauritzen, Steffen L. Propagation of probabilities, means, and variances in mixed graphical association models. (English summary) **93j:62040**
Lindsay, Bruce G. (*with* Basak, P.) On using bivariate moment equations in mixed normal problems. **93a:62017**
Lingappaiah, G. S. Distribution of the sum of independent right truncated geometric variables. (English and Italian summaries)
— On the modified binomial distribution. (English summary)
— Prediction in samples from a gamma population where switch points are present. (English summary)
Lo, Hing Po *see* **Wani, Jagannath K., 93g:62028**
Loukas, S. Some methods of estimation for a trivariate Poisson distribution. (English summary)
Lyons, N. I. *see* **McCormick, William P.; et al., 93e:62046**
MacGillivray, H. L. Shape properties of the g-and-h and Johnson families. **93f:62017**
Manatunga, Amita K. *see* **Oakes, David**
Mathai, A. M. (*with* Moschopoulos, Panagis G.) On a multivariate gamma. **93d:62026**
— On linear functions of certain noncentral versions of independent gamma variables. **93g:62027**
McCormick, William P. (*with* Lyons, N. I.; Hutcheson, K.) Distributional properties of Jaccard's index of similarity. **93e:62046**
Mishra, Amarendra (*with* Tiwary, D.; Singh, S. K.) A class of quasi-binomial distributions. (English summary)
Moschopoulos, Panagis G. *see* **Mathai, A. M., 93d:62026**
Nagaraja, H. N. *see* **Bunge, J. A., 93d:62025**
Oakes, David (*with* Manatunga, Amita K.) Fisher information for a bivariate extreme value distribution. (English summary)
Olkin, Ingram A matrix formulation on how deviant an observation can be. (English summary)
Pace, Luigi (*with* Salvan, Alessandra) A note on conditional cumulants in canonical exponential families. **93f:62018**
Prabhakara Rao, R. *see* **Sarma, P. V. S.; et al.**
Prasad, M. S. (*with* Kulkarni, H. V.) A class of absolutely continuous bivariate life-time distributions. (English summary) **93h:62025**
Rahman, S. *see* **Roy, Manindra Kumar; et al., 93j:62041**
Rao, K. S. Srinivasa *see* **Sarma, P. V. S.; et al.**
Razpet, Marko An application of elliptic integrals. (English summary) **93f:62019**
Roy, Ashish Kumar *see* **Roy, Manindra Kumar; et al.**
Roy, Manindra Kumar (*with* Rahman, S.; Ali, Mir Masoom) A class of Poisson mixtured distributions. (English summary) **93j:62041**
— (*with* Roy, Ashish Kumar; Ali, Mir Masoom) Binomial mixtures of some standard distributions. (English summary)
Salvan, Alessandra *see* **Pace, Luigi, 93f:62018**
Sarma, P. V. S. (*with* Rao, K. S. Srinivasa; Prabhakara Rao, R.) On a family of bimodal distributions. (English summary)
Shenton, L. R. *see* **Bowman, K. O.; et al.**
Singh, S. K. *see* **Mishra, Amarendra; et al.**
Smith, Murray D. Comparing the exact distribution of the t-statistic to Student's distribution when its constituent normal and chi-squared variables are dependent. (English summary)
Springer, Melvin D. (*with* Cabuk, Serafettin) Distribution identification, analysis and approximation via Mellin transforms. (English summary)
Thomas, P. Yageen Recurrence relations for moments of extremes from a chi distribution. (English summary)
Tiwari, Ram C. (*with* Yang, J.) Is ratio of the maximum to the minimum of two normal sample variance a viable alternative to F-ratio test? (English and Italian summaries)
— (*with* Tripathi, Ram C.; Gupta, Ramesh C.) Some weighted distributions of order k. **93b:62019**
Tiwary, D. *see* **Mishra, Amarendra; et al.**
Tonkyn, David W. *see* **Kulasekera, K. B.**
Trenkler, Götz *see* **Knautz, Henning, 93k:62028**
Tripathi, Ram C. *see* **Tiwari, Ram C.; et al., 93b:62019**
Wani, Jagannath K. (*with* Lo, Hing Po) Generalized Stirling numbers in the structure invariant abundance distributions. (English summary) **93g:62028**
Withers, C. S. Corrigendum: "Moment estimates for mixtures with common scale" [Comm. Statist. Theory Methods **20** (1991), no. 4, 1445–1461].
— Corrigendum: "Moment estimates for mixtures with common scale" [Comm. Statist. Theory Methods **20** (1991), no. 4, 1445–1461].
Wu, Chuan Yi On constructing the natural exponential families with polynomial variance functions. **93b:62020**
Yang, J. *see* **Tiwari, Ram C.**
Zhu, Hong Distribution of extreme values of dependent identically distributed samples. (Chinese. English and Chinese summaries)

Items with secondary classifications in 62E15

Balakrishnan, Narayanaswamy *see* **Balasubramanian, Krishnaswami, 93a:62078**
Balasubramanian, Krishnaswami (*with* Balakrishnan, Narayanaswamy) Indicator method for a recurrence relation for order statistics. **93a:62078**
Caraux, G. (*with* Gascuel, O.) Bounds on distribution functions of order statistics for dependent variates. **93e:62135**
Chatterjee, Aditya *see* **Mukherjee, S. P., 93e:62251**
Chou, Youn-Min A bivariate noncentral t-distribution with applications. (English summary) **93h:62109**
Ćmiel, Adam (*with* Szkutnik, Zbigniew) On the distribution of a useful maximal invariant. **93g:62072**
Diaconis, Persi (*with* Perlman, Michael D.) Bounds for tail probabilities of weighted sums of independent gamma random variables. (English summary) **93i:60036**
— (*with* Zabell, S. L.) Closed form summation for classical distributions: variations on a theme of de Moivre. **93b:60001**
Dufour, Jean-Marie (*with* Hallin, Marc) Simple exact bounds for distributions of linear signed rank statistics. **93j:62128**
Duong, Quang Phuc The distribution of the run length in CUSUM procedures. (English summary)
Elewa, S. A. (*with* Nagarsenker, B. N.; Nagarsenker, P. B.) On a test of equality of exponential populations based on censored samples. (English summary) **93j:62050**
Fairley, David (*with* Pearl, Dennis K.; Verducci, Joseph S.) Some ramifications of a bound on the MSE of a prediction. (English summary) **93e:62165**
Gascuel, O. *see* **Caraux, G., 93e:62135**
Glaz, Joseph A comparison of Bonferroni-type and product-type inequalities in presence of dependence. (English summary) **93j:60018**
Gonzacenco, Florin (*with* Mărgăritescu, Eugen; Vodă, Viorel Gh.) Statistical consequences of some old and new algebraic inequalities. (English summary) **93k:60048**
González, Lourdes Analysis of the duality between linear and loglinear families of distributions by geometric programming. (Hungarian. English and Hungarian summaries) **93k:62011**
Gupta, Rajenda P. *see* **Rahman, M. S.**
Hallin, Marc *see* **Dufour, Jean-Marie, 93j:62128**
Ivchenko, G. I. (*with* Morozova, N. M.) The negative multinomial distribution and its probabilistic analysis. (Russian) (*see* **93b:60003**)
Jha, V. D. *see* **Khurana, A. P., 93e:62138**
Khattree, Ravindra *see* **Sen, Pranab Kumar; et al., 93a:62033**
Khurana, A. P. (*with* Jha, V. D.) Recurrence relations between moments of order statistics from a doubly truncated Pareto distribution. (English summary) **93e:62138**
Kocherlakota, Kathleen *see* **Kocherlakota, Subrahmaniam, 93h:62003**
Kocherlakota, Subrahmaniam (*with* Kocherlakota, Kathleen) ★ Bivariate discrete distributions. **93h:62003**
Ling, K. D. A generalization of the sooner and later waiting time problems for Bernoulli trials: frequency quota. (English summary)
Longford, N. T. Classes of multivariate exponential and multivariate geometric distributions derived from Markov processes. (English summary) **93g:60027**
Mărgăritescu, Eugen *see* **Gonzacenco, Florin; et al., 93k:60048**
Mathai, A. M. On fractional moments of quadratic expressions in normal variables. **93d:62104**
Mian, I. U. H. *see* **Shoukri, M. M., 93a:62022**
(de Moivre, Abraham) *see* **Diaconis, Persi, 93b:60001**
Morozova, N. M. *see* **Ivchenko, G. I., (93b:60003)**
Mukherjee, S. P. (*with* Chatterjee, Aditya) Stochastic dominance of higher orders and its implications. **93e:62251**
Nagarsenker, B. N. *see* **Elewa, S. A.; et al., 93j:62050**
Nagarsenker, P. B. *see* **Elewa, S. A.; et al., 93j:62050**
Nayak, Tapan K. *see* **Sen, Pranab Kumar; et al., 93a:62033**
Ostrovs'ka, S. İ. (*with* Ryabokon', V. A.) On a class of random variables that are close to Gaussian. (Ukrainian. Russian summary) (*see* **93e:00014**)
Pearl, Dennis K. *see* **Fairley, David; et al., 93e:62165**
Perlman, Michael D. *see* **Diaconis, Persi, 93i:60036**
Pillai, R. N. (*with* Satheesh, S.) α-inverse Gaussian distributions. (English summary)
Rahman, M. S. (*with* Gupta, Rajenda P.) Family of transformed chi-square distributions. (English summary)
Raina, R. K. *see* **Saigo, Megumi, 93b:26009**
Royen, T. Expansions for the multivariate chi-square distribution. **93c:62092**
Ryabokon', V. A. *see* **Ostrovs'ka, S. İ., (93e:00014)**
Saigo, Megumi (*with* Raina, R. K.) On the fractional calculus operator involving Gauss's series and its application to certain statistical distributions. (Spanish summary) **93b:26009**
Satheesh, S. *see* **Pillai, R. N.**
Saunders, L. R. An exact formula for the symmetrical incomplete beta function where the parameter is an integer or half-integer. (English summary) **93j:65030**
Scozzafava, P. Sum and difference modulo m between two independent random variables. (English, French and Italian summaries)
Sen, Pranab Kumar (*with* Nayak, Tapan K.; Khattree, Ravindra) Comparison of estimators of a dispersion matrix under generalized Pitman nearness criterion. **93a:62033**
Shoukri, M. M. (*with* Mian, I. U. H.) Some aspects of statistical inference on the Lagrange (generalized) Poisson distribution. **93a:62022**
Siegel, Andrew F. A surprising covariance involving the minimum of multivariate normal variables. (English summary) **93k:62121**
Singh, Bishwambhar A comparison of variance component estimators under unbalanced situations. (English summary)
Song, Ruiguang Moments of variables summing to gamma order statistics. (English summary)
Szkutnik, Zbigniew *see* **Ćmiel, Adam, 93g:62072**
Takács, Lajos Random walk processes and their applications in order statistics. **93h:60114**
Verducci, Joseph S. *see* **Fairley, David; et al., 93e:62165**
Vodă, Viorel Gh. *see* **Gonzacenco, Florin; et al., 93k:60048**
Wang, Yuchung J. Construction of continuous bivariate density functions. (English summary) **93m:62131**
Zabell, S. L. *see* **Diaconis, Persi, 93b:60001**

62E17 Approximations to distributions (nonasymptotic)

Göb, R. An interesting property of the Poisson operating characteristic function. (English summary) **93f:62020**

Piterbarg, V. I. On the distribution of the maximum similarity score for fragments of two random sequences. (*see* **93f:92019**)

Items with secondary classifications in 62E17

Barbour, A. D. (*with* Holst, Lars; Janson, Svante) ★ Poisson approximation. **93g:60043**
Barndorff-Nielsen, Ole E. (*with* Klüppelberg, Claudia) A note on the tail accuracy of the univariate saddlepoint approximation. (English and French summaries) **93k:60033**
Baxter, Laurence A. (*with* Rachev, Svetlozar T.) The stability of a characterization of the bivariate Marshall-Olkin distribution. **93a:60022**
Chang, Myron N. Edgeworth expansion for the Kaplan-Meier estimator. **93i:62027**
Chen, Louis H. Y. (*with* Choi, Kwok Pui) Some asymptotic and large deviation results in Poisson approximation. (English summary) **93k:60067**
Choi, Kwok Pui *see* **Chen, Louis H. Y., 93k:60067**
Conaway, Mark (*with* Pillers, Carolyn; Robertson, Tim; Sconing, James) A circular-cone test for testing homogeneity against a simple tree order. (French summary) **93c:62029**
Gaĭvoronskiĭ, È. I. (*with* Ostrovskiĭ, E. I.) Nonasymptotic estimation of the deviation of a multidimensional empirical distribution function. (Russian) **93a:60040**
Höglund, Thomas Bounds for the sample size to justify normal approximation of the confidence level. **93a:62044**
Holst, Lars *see* **Barbour, A. D.; et al., 93g:60043**
Janson, Svante *see* **Barbour, A. D.; et al., 93g:60043**
Klüppelberg, Claudia *see* **Barndorff-Nielsen, Ole E., 93k:60033**
Mosyagin, V. E. An estimate for the rate of convergence of the distribution of the maximum likelihood process in the nonregular case. (Russian) **93c:62048**
Nieuwenhuis, Gert Central limit theorems for sequences with $m(n)$-dependent main part. (English summary) **93i:60043**
Ostrovskiĭ, E. I. *see* **Gaĭvoronskiĭ, È. I., 93a:60040**
Pillers, Carolyn *see* **Conaway, Mark; et al., 93c:62029**
Rachev, Svetlozar T. *see* **Baxter, Laurence A., 93a:60022**
Robertson, Tim *see* **Conaway, Mark; et al., 93c:62029**
Sconing, James *see* **Conaway, Mark; et al., 93c:62029**

62E20 Asymptotic distribution theory

Anderson, Niall H. (*with* Hall, Peter Gavin; Titterington, D. M.) Interpolation rules suggested by asymptotic expansions. (English summary)
Angus, John E. An alternative derivation of asymptotic normality for sample quantiles. **93c:62024**
Arcones, Miguel A. (*with* Giné, Evarist) On the bootstrap of U and V statistics. **93f:62021**
Babu, Gutti Jogesh (*with* Rao, Calyampudi Radhakrishna) Expansions for statistics involving the mean absolute deviations. (English summary) **93m:62038**
Bai, Zhi Dong Edgeworth expansion for convolutions. (English summary) **93j:62042**
Bansal, Naveen K. On testing linear hypotheses on linear functional and structural relationships. **93d:62027**
Barbe, Philippe Limiting distribution of the maximal spacing when the density function admits a positive minimum. **93e:62047**
Barndorff-Nielsen, Ole E. (*with* Chamberlin, S. R.) An ancillary invariant modification of the signed log likelihood ratio. **93c:62025**
— (*with* Blæsild, P.) A type of second-order asymptotic independence. (English summary) **93h:62026**
Beran, Rudolf (*with* Hall, Peter Gavin) Estimating coefficient distributions in random coefficient regressions. (English summary) **93m:62039**
Blæsild, P. *see* **Barndorff-Nielsen, Ole E., 93h:62026**
Böhning, Dankmar Multinomial logistic regression algorithm. Supplement to: "Monotonicity of quadratic-approximation algorithms" [Ann. Inst. Statist. Math. **40** (1988), no. 4, 641–663; MR 90m:62045] by Böhning and B. G. Lindsay. **93e:62048**
Booth, James G. *see* **Butler, Ronald W.; et al.**
Butler, Ronald W. (*with* Huzurbazar, S.; Booth, James G.) Saddlepoint approximations for tests of block independence, sphericity and equal variances and covariances. (English summary)
Chamberlin, S. R. *see* **Barndorff-Nielsen, Ole E., 93c:62025**
Cheah, P. K. (*with* Fraser, D. A. S.; Reid, N.; Tapia, A.) Third order asymptotics: connections among test quantities. (English summary) **93f:62022**
Cuesta, Juan Antonio (*with* Matrán, Carlos) A short proof of the law of convergence of types. (English summary) **93d:62028**
Dorea, C. C. Y. (*with* Miazaki, E. S.) Parameter free limiting distribution for a random optimization algorithm. (English summary) **93m:62040**
Dykstra, Richard L. Asymptotic normality for chi-bar-square distributions. (French summary) **93k:62029**
Dzhaparidze, K. O. (*with* Nikulin, M. S.) On the calculation of statistics of chi-square-type tests. (Russian. Russian summary) **93g:62029**
Falk, Michael (*with* Janas, Daniel) Edgeworth expansions for Studentized and prepivoted sample quantiles. **93h:62027**
Fernholz, Luisa Turrin Almost sure convergence of smoothed empirical distribution functions. **93d:62029**
Fraser, D. A. S. *see* **Cheah, P. K.; et al., 93f:62022**
Giné, Evarist *see* **Arcones, Miguel A., 93f:62021**
Govindarajulu, Z. (*with* Nanthakumar, A.) Rate of convergence for the distribution of the Spearman-Karber estimator. **93e:62049**
Gray, H. L. *see* **Wang, Suojin**
Grigor'ev, Yu. D. (*with* Ivanov, Aleksandr Vladimirovich) Asymptotic expansion of the distribution of a functional of the least squares estimate. (Russian. English and Russian summaries) **93h:62028**
Gu, Ming Gao[2] On the Edgeworth expansion and bootstrap approximation for the Cox regression model under random censorship. (English and French summaries) **93m:62041**
Gupta, Arjun K. (*with* Nagar, Daya K.; Jain, Kalpana) On the asymptotic distribution of likelihood ratio statistic for testing multisample sphericity in the complex case. (English and Italian summaries)
Hall, Peter Gavin ★ The bootstrap and Edgeworth expansion. **93h:62029**
— (*with* Padmanabhan, A. R.) On the bootstrap and the trimmed mean. **93d:62030**
— *see also* **Beran, Rudolf, 93m:62039** *and* **Anderson, Niall H.; et al.**
Hallin, Marc (*with* Puri, Madan L.) Some asymptotic results for a broad class of nonparametric statistics. (English summary) **93k:62030**
Huzurbazar, S. *see* **Butler, Ronald W.; et al.**
Ivanov, Aleksandr Vladimirovich *see* **Grigor'ev, Yu. D., 93h:62028**
Jain, Kalpana *see* **Gupta, Arjun K.; et al.**
Janas, Daniel *see* **Falk, Michael, 93h:62027**
Janson, Svante (*with* Nowicki, Krzysztof) The asymptotic distributions of generalized U-statistics with applications to random graphs. **93b:62021**
Janssen, Arnold Conditions for local asymptotic normality of exponential families. **93h:62030**
Kolassa, John E. Saddlepoint approximations in the case of intractable cumulant generating functions. (English summary) **93g:62030**
Lee, Moy Chee *see* **Lee, Yoong-Sin**
Lee, Yoong-Sin (*with* Lee, Moy Chee) On the derivation and computation of the Cornish-Fisher expansion. (English summary)
(Lindsay, Bruce G.) *see* **Böhning, Dankmar, 93e:62048**
Magdalinos, Michael A. Stochastic expansions and asymptotic approximations. (English summary) **93k:62031**
Matrán, Carlos *see* **Cuesta, Juan Antonio, 93d:62028**
Miazaki, E. S. *see* **Dorea, C. C. Y., 93m:62040**
Mordeski, Ernesto Convergence of binary statistical experiments and Hellinger processes. (Russian)
Mukerjee, Rahul Corrigendum: "Third-order comparison of unbiased tests: a simple formula for the power difference in the one-parameter case" [Sankhyā Ser. A **51** (1989), no. 2, 212–232; MR 92b:62020].
— Parametric orthogonality and a Bartlett-type modification for Rao's statistic in the presence of a nuisance parameter.
Mykland, Per Aslak Asymptotic expansions and bootstrapping distributions for dependent variables: a martingale approach. **93e:62050**
Nagar, Daya K. *see* **Gupta, Arjun K.; et al.**
Nanthakumar, A. *see* **Govindarajulu, Z., 93e:62049**
Nikulin, M. S. *see* **Dzhaparidze, K. O., 93g:62029**
Nishii, Ryuei Saddlepoint approximation for the distribution function of the mean of random variables. **93e:62051**
Nolan, D. Asymptotics for multivariate trimming. **93j:62043**
Nowicki, Krzysztof *see* **Janson, Svante, 93b:62021**
Orlov, A. I. Asymptotic behavior of statistics of integral type. (Russian) (*see* **93b:60003**)
Owen, Art B. Empirical likelihood for linear models. **93b:62022**
Padmanabhan, A. R. *see* **Hall, Peter Gavin, 93d:62030**
Puri, Madan L. *see* **Hallin, Marc, 93k:62030**
Rao, Calyampudi Radhakrishna (*with* Tu, Dong Sheng) Inference of the occurrence/exposure rate with mixed censoring models. **93f:62023**
— Current trends of research in statistics: small sample asymptotics, resampling techniques and robustness. (English summary) (*see* **93m:00047**)
— *see also* **Babu, Gutti Jogesh, 93m:62038**
Reid, N. *see* **Cheah, P. K.; et al., 93f:62022**
Roberts, Leigh A. On ratios of random variables and generalised mortality rates. **93c:62026**
Szeidl, László On the limit distributions of multi-sample von Mises functionals with variable polynomial kernels. **93h:62031**
Tapia, A. *see* **Cheah, P. K.; et al., 93f:62022**
Titterington, D. M. *see* **Anderson, Niall H.; et al.**
Tu, Dong Sheng The Berry-Esseen theorem for the subject-years method in mortality analysis with censored data. **93a:62018**
— *see also* **Rao, Calyampudi Radhakrishna, 93f:62023**
Wang, Suojin (*with* Gray, H. L.) Approximating tail probabilities of noncentral distributions. (English summary)
Wu, Yao Hua[1] Convergence of regression quantile processes. (Chinese. Chinese summary) **93m:62042**
Yang, Song Some inequalities about the Kaplan-Meier estimator. **93b:62023**
Yoshida, Nakahiro Asymptotic expansions of maximum likelihood estimators for small diffusions via the theory of Malliavin-Watanabe. **93k:62032**
Zhao, Lin Cheng On jackknifing the sample median. (English summary) **93j:62044**
Zhu, Yun Min ★ Asymptotic normality for a vector stochastic difference equation with applications in stochastic approximation. (English. English summary) **93j:62045**

Items with secondary classifications in 62E20

Aleškevičienė, Aldona Large and moderate deviations for L-statistics. (Russian. English and Lithuanian summaries) **93h:60035**
Aly, Emad-Eldin A. A. On the convergence of an Anderson-Darling statistic based on normalized spacings. **93b:62070**
Anderson, T. W. The asymptotic distribution of autocorrelation coefficients. (English summary) **93h:62174**
Andrews, Donald W. K. Generic uniform convergence. (English summary) **93i:60068**
Au, S. T. *see* **Yao, Yi-Ching, 93c:62077**
Babu, Gutti Jogesh (*with* Bai, Zhi Dong) Edgeworth expansions for errors-in-variables models. (English summary) **93j:62168**
— *see also* **Serinko, Regis J., 93k:60062**
Bai, Zhi Dong *see* **Babu, Gutti Jogesh, 93j:62168**
Bajorski, Piotr Max-type rank tests in the two-sample problem. **93m:62102**
Bartmańska, Barbara (*with* Szynal, Dominik) On Berry-Esseen theorem for some functions of U-statistics. **93b:60037**
Bhattacharya, Rabi N. (*with* Ghosh, Jayanta K.) A class of U-statistics and asymptotic normality of the number of k-clusters. (English summary) **93m:60041**
Bingham, Christopher (*with* Chang, Theodore; Richards, Donald St. P.) Approximating the matrix Fisher and Bingham distributions: applications to spherical regression and Procrustes analysis. **93f:62078**
Borisov, I. S. Approximation of distributions of von Mises statistics with multidimensional kernels. (Russian) **93b:60038**

Braunstein, Samuel L. How large a sample is needed for the maximum likelihood estimator to be approximately Gaussian?

Bykov, S. I. Conditions for asymptotic normality of the statistics μ_r in a multinomial scheme. (Russian) (*see* **93b:60003**)

Carrera, A. R. (*with* Martinez, M.; González, J. M.) Poisson approximation for independent Bernoulli summands using the semi-group operators theory. **93g:60044**

Chang, Theodore *see* **Bingham, Christopher; et al., 93f:62078**

Chaudhuri, Probal Nonparametric estimates of regression quantiles and their local Bahadur representation. **93d:62055**

— Multivariate location estimation using extension of R-estimates through U-statistics type approach. **93h:62072**

Chen, Gui Jing (*with* Zhao, Lin Cheng) Some contributions of Chinese statisticians to the asymptotic theory of inferences in linear models. (*see* **93e:62004**)

Cheng, Ping[1] (*with* Zhu, Li Xing) The tail probability inequalities for the PP type Cramér-von Mises statistics. (English summary) **93h:62093**

Chikuse, Yasuko Asymptotic expansions for distributions of the large sample matrix resultant and related statistics on the Stiefel manifold. **93d:62103**

— Properties of Hermite and Laguerre polynomials in matrix argument and their applications. (English summary) **93j:33003**

— Generalized Hermite and Laguerre polynomials in multiple symmetric matrix arguments and their applications. (English summary) **93j:33004**

Chiu, Shean-Tsong Bandwidth selection for kernel density estimation. **93a:62051**

Choi, Byoung Seon The asymptotic joint distribution of the correlation determinant estimates of an ARMA process. **93c:62144**

Choi, In Asymptotic normality of the instrumental variable estimates for ARIMA(p, m, q) processes. (English summary)

Csörgő, Sándor (*with* Viharos, László) Asymptotic distributions for vectors of power sums. **93i:60040**

Deheuvels, Paul On the limiting behavior of the Pickands estimator for bivariate extreme-value distributions. **93g:62069**

— (*with* Einmahl, John H. J.) Approximations and two-sample tests based on P-P and Q-Q plots of the Kaplan-Meier estimators of lifetime distributions. (English summary) **93k:60053**

— Large deviations by Poisson approximations. (English summary) **93k:60068**

Dehling, H. G. (*with* Kalma, J. N.; Moes, C.; Schaafsma, W.) The Islamic mean: a peculiar L-statistic. (English summary) **93h:62099**

De Souza, Geraldo Soares *see* **Gallant, A. Ronald, 93d:62174**

Eastwood, Brian J. (*with* Huse-Eastwood, Vera R.) Percentiles for Cramér-von Mises functionals of Gaussian processes and some applications to Bayesian tests. (English summary) **93j:62136**

Ebneshahrashoob, M. *see* **Jammalamadaka, Sreenivasa R.; et al., 93k:62114**

Einmahl, John H. J. (*with* Mason, David M.) Generalized quantile processes. **93c:60023**

— *see also* **Deheuvels, Paul, 93k:60053**

Eubank, R. L. (*with* Hart, Jeffrey D.) Testing goodness-of-fit in regression via order selection criteria. (English summary) **93k:62107**

— (*with* LaRiccia, V. N.) Asymptotic comparison of Cramér-von Mises and nonparametric function estimation techniques for testing goodness-of-fit. (English summary) **93k:62108**

Fisher, Nicholas I. *see* **Mammen, Enno; et al., 93c:62083**

Fotopoulos, S. B. On the rate of convergence for sequential density estimation. **93d:62062**

Franke, Jürgen *see* **Kreiss, Jens-Peter, 93h:62162**

Fujikoshi, Yasunori (*with* Watamori, Yoko) Tests for the mean direction of the Langevin distribution with large concentration parameter. (English summary) **93h:62112**

Gallant, A. Ronald (*with* De Souza, Geraldo Soares) On the asymptotic normality of Fourier flexible form estimates. **93d:62174**

Gangopadhyay, Ashis K. (*with* Sen, Pranab Kumar) Bootstrap confidence intervals for conditional quantile functions. (English summary) **93f:62063**

Gao, Ji Ti *see* **Hong, Sheng Yan, 93m:62077**

Ghosh, Jayanta K. *see* **Bhattacharya, Rabi N., 93m:60041**

Gill, Richard D. *see* **Heesterman, C. C., 93h:62055**

González, J. M. *see* **Carrera, A. R.; et al., 93g:60044**

Grigor'ev, Yu. D. (*with* Ivanov, Aleksandr Vladimirovich) Asymptotic expansions connected with estimators of the observation error variance in Gaussian nonlinear regression. (Russian. English and Ukrainian summaries) **93m:62142**

Gupta, Arjun K. (*with* Nagar, Daya K.; Jain, Kalpana) Asymptotic distribution of likelihood ratio statistic for testing multisample sphericity. (English summary) **93e:62149**

de Haan, L. A Brownian bridge connected with extreme values. (English summary) **93d:60093**

Hall, Peter Gavin Effect of bias estimation on coverage accuracy of bootstrap confidence intervals for a probability density. **93e:62131**

Hart, Jeffrey D. *see* **Eubank, R. L., 93k:62107**

Heesterman, C. C. (*with* Gill, Richard D.) A central limit theorem for M-estimators by the von Mises method. (English summary) **93h:62055**

Hong, Sheng Yan Asymptotic normality of nearest neighbour regression estimators. (Chinese. English and Chinese summaries)

— (*with* Gao, Ji Ti) The rate of convergence of the nearest neighbour regression function estimator. (Chinese. English and Chinese summaries) **93m:62077**

Horváth, Lajos (*with* Johnson, Richard A.) Tests of fit for composite hypotheses with censored data. **93f:62028**

Huse-Eastwood, Vera R. *see* **Eastwood, Brian J., 93j:62136**

Ioannides, D. A. *see* **Rousssas, George G.; et al., 93j:62105**

Iosifescu, Marius On U-statistics and von Mises statistics for a special class of Markov chains. **93h:60030**

Ivanov, Aleksandr Vladimirovich *see* **Grigor'ev, Yu. D., 93m:62142**

Jain, Kalpana *see* **Gupta, Arjun K.; et al., 93e:62149**

Jammalamadaka, Sreenivasa R. (*with* Wan, Xinyuan) On a problem in semiparametric estimation. **93b:62060**

— (*with* Tiwari, Ram C.; Sen, Pranab Kumar; Ebneshahrashoob, M.) A rank test based on the number of "near-matches" for ordered alternatives in randomized blocks. (English summary) **93k:62114**

Johnson, Richard A. *see* **Horváth, Lajos, 93f:62028**

Kalma, J. N. *see* **Dehling, H. G.; et al., 93h:62099**

Kamalesh, V. *see* **Suresh Chandra, K., 93f:62126**

Kanagawa, S. (*with* Mochizuki, Y.; Tanaka, Hiroshi[1]) Limit theorems for the minimum interpoint distance between any pair of i.i.d. random points in $\mathbf{R}^d$. **93h:60031**

Kasahara, Yuji (*with* Maejima, Makoto) Limit theorems for trimmed sums. (English summary) **93k:60056**

Khanin, A. G. (*with* Khanin, S. G.) Estimating the quality of a method of modeling random variables by means of interpolational cubic splines. (Russian) **93e:62110**

Khanin, S. G. *see* **Khanin, A. G., 93e:62110**

Kohatsu-Higa, Arturo Weak convergence of infinite order U-processes. **93a:60032**

Kreiss, Jens-Peter (*with* Franke, Jürgen) Bootstrapping stationary autoregressive moving-average models. **93h:62162**

Kudlaev, È. M. Classification of decomposable statistics. (Russian) (*see* **93b:60003**)

Ladalla, Joseph N. A closed form approximation to the posterior distribution when sampling from multiparameter exponential family models. (English summary) **93e:62087**

Lahiri, Soumendra Nath Bootstrapping M-estimators of a multiple linear regression parameter. (English summary) **93i:62038**

— On bootstrapping M-estimators. (English summary) **93m:62096**

LaRiccia, V. N. *see* **Eubank, R. L., 93k:62108**

Li, Guo Ying[1] *see* **Tang, Xiang Lian, 93h:62118**

Lopuhaä, Hendrik P. Highly efficient estimators of multivariate location with high breakdown point. **93e:62097**

Lotov, V. I. Asymptotic expansions for the CUSUM procedure in a change point problem. (English summary) **93k:60057**

Luschgy, Harald Local asymptotic mixed normality for semimartingale experiments. **93e:62020**

Maejima, Makoto *see* **Kasahara, Yuji, 93k:60056**

Maesono, Yoshihiko (*with* Yamato, Hajime) U-statistics and related topics. (Japanese) **93h:60032**

Majsnerowska, M. A note on mixed Poisson approximation. (English summary) **93k:60058**

Mammen, Enno (*with* Marron, J. Stephen; Fisher, Nicholas I.) Some asymptotics for multimodality tests based on kernel density estimates. **93c:62083**

— Bootstrap, wild bootstrap, and asymptotic normality. (English summary) **93h:62090**

Manton, Kenneth G. *see* **Tolley, H. Dennis, 93k:62099**

Marron, J. Stephen *see* **Mammen, Enno; et al., 93c:62083**

Martinez, M. *see* **Carrera, A. R.; et al., 93g:60044**

Mason, David M. (*with* Shorack, Galen R.) Necessary and sufficient conditions for asymptotic normality of L-statistics. (English summary) **93k:60059**

— *see also* **Einmahl, John H. J., 93c:60023**

Mnatsakanov, R. M. Limit theorems for some random processes based on frequencies. (English summary) **93h:60033**

Mochizuki, Y. *see* **Kanagawa, S.; et al., 93h:60031**

Moes, C. *see* **Dehling, H. G.; et al., 93h:62099**

Mustafi, C. K. A note on the covariance kernel of the residual mean and residual median processes. (English summary) **93e:60053**

Nagao, Hisao Asymptotic expansions of some test criteria for sphericity test and test of independence under local alternatives from an elliptical distribution. (English summary) **93m:62124**

Nagar, Daya K. *see* **Gupta, Arjun K.; et al., 93e:62149**

Paparoditis, Efstathios (*with* Streitberg, Bernd) Order identification statistics in stationary autoregressive moving-average models: vector autocorrelations and the bootstrap. (English summary) **93h:62166**

Peters, Dawn *see* **Pierce, Donald A., 93f:62034**

Pierce, Donald A. (*with* Peters, Dawn) Practical use of higher order asymptotics for multiparameter exponential families. (English summary) **93f:62034**

Puri, Madan L. (*with* Sazonov, Vyacheslav Vasil'evich) On Hilbert space valued U-statistics. **93d:60011a**

— *see also* **Sazonov, Vyacheslav Vasil'evich, 93d:60011b**

Qian, Wei (*with* Titterington, D. M.) Normal approximations for lattice systems. **93a:60163**

Radavičius, M. From asymptotic efficiency in minimax sense to Bahadur efficiency. (English summary) **93k:62056**

Ralescu, Stefan S. A remainder estimate for the normal approximation of perturbed sample quantiles. **93m:62083**

Richards, Donald St. P. *see* **Bingham, Christopher; et al., 93f:62078**

Roeder, Kathryn Semiparametric estimation of normal mixture densities. **93e:62116**

Rousssas, George G. (*with* Tran, Lanh Tat; Ioannides, D. A.) Fixed design regression for time series: asymptotic normality. **93j:62105**

Sazonov, Vyacheslav Vasil'evich Letter to the editors: "On Hilbert space valued U-statistics" by M. L. Puri and Sazonov. (Russian) **93d:60011b**

— *see also* **Puri, Madan L., 93d:60011a**

Schaafsma, W. *see* **Dehling, H. G.; et al., 93h:62099**

Sen, Pranab Kumar *see* **Gangopadhyay, Ashis K., 93f:62063** *and* **Jammalamadaka, Sreenivasa R.; et al., 93k:62114**

Serinko, Regis J. (*with* Babu, Gutti Jogesh) Weak limit theorems for univariate k-mean clustering under a nonregular condition. **93k:60062**

Shao, Qi Man *see* **Su, Chun, 93g:60068**

Shorack, Galen R. *see* **Mason, David M., 93k:60059**

Skorokhod, A. V. (*with* Stepakhno, V. I.) Asymptotic properties of the correlation operator for the multivariate random vectors. (*see* **93k:60008**)

Stadnik, A. I. Conditions for the convergence of an estimate of the variance of Gaussian stationary random processes in Orlicz spaces. (Russian) **93c:62142**

Stepakhno, V. I. *see* **Skorokhod, A. V., (93k:60008)**

Streitberg, Bernd *see* **Paparoditis, Efstathios, 93h:62166**

Su, Chun (*with* Shao, Qi Man) An investigation of conditions for complete convergence of U-statistics. (Chinese) **93g:60068**

Suresh Chandra, K. (*with* Kamalesh, V.) Limit theorems on serial moment of a time series and their statistical applications. **93f:62126**

Sweeting, Trevor J. Asymptotic ancillarity and conditional inference for stochastic processes. **93b:62044**

Szynal, Dominik *see* **Bartmańska, Barbara, 93b:60037**
Szyszkowicz, Barbara Asymptotic distributions of weighted pontograms under contiguous alternatives. **93g:60055**
Takács, Lajos Random walk processes and their applications in order statistics. **93h:60114**
Tanaka, Hiroshi[1] *see* **Kanagawa, S.; et al., 93h:60031**
Tang, Xiang Lian (*with* Li, Guo Ying[1]) PP U-statistics and their applications. (English summary) **93h:62118**
Thavaneswaran, A. Tests based on an optimal estimate. **93a:62117**
Titterington, D. M. *see* **Qian, Wei, 93a:60163**
Tiwari, Ram C. *see* **Jammalamadaka, Sreenivasa R.; et al., 93k:62114**
Tolley, H. Dennis (*with* Manton, Kenneth G.) Large sample properties of estimates of a discrete grade of membership model. **93k:62099**
Tran, Lanh Tat *see* **Roussas, George G.; et al., 93j:62105**
Viharos, László *see* **Csörgő, Sándor, 93i:60040**
Wan, Xinyuan *see* **Jammalamadaka, Sreenivasa R., 93b:62060**
Wang, Jing Fang Limit distributions of random empirical distributions of projection pursuit for two classes of distribution functions. (Chinese. English and Chinese summaries)
Wang, Qi Ying Upper and lower bounds on the rate of convergence to the normal distribution of estimates of error variances. (Chinese. English and Chinese summaries)
— Two-sided bounds for the rate of convergence to asymptotic normality of U-statistics. (Chinese. English summary)
Wang, Xue Biao Limiting distributions of order statistics with random variable ranks from stationary sequences. (Chinese) **93d:62096**
Watamori, Yoko Tests for a given linear structure of the mean direction of the Langevin distribution. **93e:62151**
— *see also* **Fujikoshi, Yasunori, 93h:62112**
Weiss, Lionel Asymptotically sufficient grouping. (English summary) **93m:62013**
Wong, Wing Hung On asymptotic efficiency in estimation theory. **93k:62061**
Wu, Tiee-Jian Contiguous alternatives which preserve L_1-nonuniform central limit bounds for a general class of statistics. (English summary) **93j:60028**
Xia, Ming Yuan Weak congruence of LS estimates for regression coefficients of equicorrelation linear models. (Chinese. Chinese summary)
Yamato, Hajime *see* **Maesono, Yoshihiko, 93h:60032**
Yang, Song Minimum Hellinger distance estimation of parameter in the random censorship model. **93a:62048**
Yao, Yi-Ching (*with* Au, S. T.) Least-squares estimation of a step function. (English summary) **93c:62077**
Yoshihara, Ken-ichi Limiting behavior of U-statistics for strongly mixing sequences. **93c:60046**
— Limiting behavior of generalized quadratic forms generated by regular sequences. III. (English summary) **93m:60051**
Zhao, Lin Cheng *see* **Chen, Gui Jing, (93e:62004)**
Zhu, Li Xing *see* **Cheng, Ping[1], 93h:62093**
Zitikis, R. Cramér type large deviations for a class of statistics. (Russian and Lithuanian summaries) **93f:60036**

62E25 Monte Carlo studies

Fishman, George S. (*with* Granovsky, Boris L.; Rubin, David S.) Evaluating best-case and worst-case variances when bounds are available. (English summary) **93f:62024**
Granovsky, Boris L. *see* **Fishman, George S.; et al., 93f:62024**
Lavine, Michael A note on bounding Monte Carlo variances. (English summary) **93j:62046**
Li, Chunhui *see* **Tingley, Maureen**
Owen, Art B. A central limit theorem for Latin hypercube sampling. **93j:62047**
Rubin, David S. *see* **Fishman, George S.; et al., 93f:62024**
Tingley, Maureen (*with* Li, Chunhui) A note on obtaining confidence intervals for discrete parameters. (English summary)

Items with secondary classifications in 62E25

Bajorski, Piotr Max-type rank tests in the two-sample problem. **93m:62102**
Baringhaus, L. (*with* Henze, N.) A goodness of fit test for the Poisson distribution based on the empirical generating function. **93e:62054**
Casella, George (*with* George, Edward I.) Explaining the Gibbs sampler. (English summary)
Chen, Cathy W. S. Bayesian analysis of bilinear time series models: a Gibbs sampling approach. (English summary)
Faraway, Julian J. Smoothing in adaptive estimation. **93b:62049**
George, Edward I. *see* **Casella, George**
Hall, Peter Gavin ★ The bootstrap and Edgeworth expansion. **93h:62029**
— (*with* Marron, J. Stephen) Corrigendum: "Local minima in cross-validation functions" [J. Roy. Statist. Soc. Ser. B **53** (1991), no. 1, 245–252; MR 92d:62044]. **93h:62077**
Henze, N. *see* **Baringhaus, L., 93e:62054**
Kushner, Harold J. (*with* Yang, Jichuan) A Monte Carlo method for sensitivity analysis and parametric optimization of nonlinear stochastic systems: the ergodic case. **93a:90049**
— *see also* **Yang, Jichuan, 93d:93093**
Marron, J. Stephen *see* **Hall, Peter Gavin, 93h:62077**
Rajarshi, M. B. *see* **Ramanathan, T. V., (93h:62004)**
Ramanathan, T. V. (*with* Rajarshi, M. B.) Stationary distribution of random coefficient autoregressive models: some approximations and numerical evaluations. (English summary) (*see* **93h:62004**)
Sadowsky, John S. On the optimality and stability of exponential twisting in Monte Carlo estimation. (English summary)
Stoffer, David S. (*with* Wall, Kent D.) Bootstrapping state-space models: Gaussian maximum likelihood estimation and the Kalman filter. **93a:62129**
Wall, Kent D. *see* **Stoffer, David S., 93a:62129**
Yang, Jichuan (*with* Kushner, Harold J.) A Monte Carlo method for sensitivity analysis and parametric optimization of nonlinear stochastic systems. **93d:93093**
— *see also* **Kushner, Harold J., 93a:90049**

62E30 Formal computational methods (polykays, etc.)

Items with secondary classifications in 62E30

(Cleveland, William S.) *see* **Tukey, John W., 93a:01068**
(Cox, D. R.) *see* **Tukey, John W., 93a:01068**
Koning, Ruud H. (*with* Neudecker, Heinz; Wansbeek, Tom) Unbiased estimation of fourth-order matrix moments. **93c:62097**
Mason, David M. (*with* Schuenemeyer, John H.) Correction: "A modified Kolmogorov-Smirnov test sensitive to tail alternatives" [Ann. Statist. **11** (1983), no. 3, 933–946; MR 85c:62113]. **93b:62074**
(Mosteller, Frederick) *see* **Tukey, John W., 93a:01068**
Neudecker, Heinz *see* **Koning, Ruud H.; et al., 93c:62097**
Schuenemeyer, John H. *see* **Mason, David M., 93b:62074**
Tukey, John W. ★ The collected works of John W. Tukey. Vol. VII. **93a:01068**
Wansbeek, Tom *see* **Koning, Ruud H.; et al., 93c:62097**

Items listed otherwise than by author

Bibliography:
Tukey, John W. *see* **Tukey, John W., 93a:01068**
Biography:
Tukey, John W. *see* **Tukey, John W., 93a:01068**
Collected Works:
Tukey, John W. *see* **Tukey, John W., 93a:01068**

62E99 None of the above, but in this section

Brentari, Eugenio ★ Asimmetria e misure di asimmetria. (Italian) [Asymmetry and measures of asymmetry] **93c:62027**
Burbea, Jacob (*with* del Castillo Franquet, Joan) Geodesic submanifolds of statistical models with location parameters. (English summary) **93m:62043**
Calvetti, Daniela Roundoff error for floating point representation of real data. **93d:62031**
del Castillo Franquet, Joan *see* **Burbea, Jacob, 93m:62043**
Dargahi-Noubary, G. R. (*with* Nanthakumar, A.) A method for estimating and detecting treatment effects. (English summary) **93j:62048**
Fang, Kai Tai *see* **Wang, Yuan[1], (93d:00033)**
Johnson, Norman Lloyd[2] (*with* Kotz, Samuel) Some (more or less) naturally occurring mixtures.
Kotz, Samuel *see* **Johnson, Norman Lloyd[2]**
Lee, Chu-In Charles On Laplace continued fraction for the normal integral. **93g:62031**
Leysieffer, Frederick *see* **Proschan, Michael, 93b:62024**
Mirás Amor, Julio Distortion of distribution functions: a statistical technique. (Spanish. English summary) **93e:62052**
Moothathu, T. S. K. On a sufficient condition for two nonintersecting Lorenz curves. (English summary) **93e:62053**
Nanthakumar, A. *see* **Dargahi-Noubary, G. R., 93j:62048**
Proschan, Michael (*with* Leysieffer, Frederick) A partial ordering of rank densities. **93b:62024**
Taguchi, Tokio A characterization of Gini's statistics: on a system of vector analysis of distribution. (English and Italian summaries)
Wang, Yuan[1] (*with* Fang, Kai Tai) Number-theoretic method in applied statistics. I, II. (English summary) (*see* **93d:00033**)
(Zenga, Michele) *see* **Brentari, Eugenio, 93c:62027**

Items with secondary classifications in 62E99

Compagner, Aaldert The hierarchy of correlations in random binary sequences. **93c:65012**
Guiaşu, Silviu Deducing the Schrödinger equation from minimum χ^2. **93f:81011**
Kariya, Takeaki (*with* Toyooka, Yasuyuki) Bounds for normal approximations to the distributions of generalized least squares predictors and estimators. **93e:62166**
Makhmudov, Z. M. Taking into account supplementary information in randomized synthesis of composite indicators. (Russian. Russian summary)
Toyooka, Yasuyuki *see* **Kariya, Takeaki, 93e:62166**

62Fxx Parametric inference

62F03 Hypothesis testing

Ahsanullah, Mohammad *see* **Bhoj, Dinesh S.**
Alam, Khursheed (*with* Kulasekera, K. B.) Truncation error in the expansion of the distribution of a quadratic form. (English summary) **93k:62033**
Al-Hassan, Qassem M. *see* **Al-Rawash, Hussein**
Al-Khalidi, H. R. (*with* Hwang, L. J.) Some pitfalls of tests of separate families of hypotheses: normality vs. lognormality. **93c:62028**
Al-Rawash, Hussein (*with* Al-Hassan, Qassem M.) Construction of admissible tests for the geometric distribution with numerical applications. (English summary)
Baringhaus, L. (*with* Henze, N.) A goodness of fit test for the Poisson distribution based on the empirical generating function. **93e:62054**
Bhandary, Madhusudan Detection of the numbers of outliers present in a data set using an information-theoretic criterion. (English summary) **93m:62044**
Bhoj, Dinesh S. (*with* Ahsanullah, Mohammad) Testing equality of coefficients of variation of two populations. (English summary)
Borodyanskii, N. I. (*with* Matveichuk, S. A.; Petunin, Yu. I.) Statistical criteria for the identification of a population. (Russian. English and Ukrainian summaries)
Brown, Lawrence D. (*with* Marden, John I.) Local admissibility and local unbiasedness in hypothesis testing problems. **93g:62032**
Burnett, Richard *see* **Krewski, Daniel; et al., 93g:62034**
Cadet, Alain Une unification des tests du maximum de vraisemblance de la loi normale multidimensionnelle. (English and French summaries) [A unification of maximum likelihood tests for the multivariate normal laws] **93g:62033**
Calabria, R. (*with* Guida, M.; Pulcini, G.) Power bounds for a test of equality of trends in k independent power law processes. (English summary)

Casella, George *see* **Hwang, Jiunn Tzon; et al., 93a:62020**
Chen, Y. I. Robust umbrella tests for a generalized Behrens-Fisher problem.
Choudhury, D. Roy (*with* Das, M. N.) Use of combinatorics for unique detection of unknown numbers of outliers using group tests. (English summary) **93j:62049**
Cohen, Arthur (*with* Perlman, Michael D.; Sackrowitz, Harold B.) Unbiasedness of tests of homogeneity when alternatives are ordered. (English summary) **93i:62018**
Conaway, Mark (*with* Pillers, Carolyn; Robertson, Tim; Sconing, James) A circular-cone test for testing homogeneity against a simple tree order. (French summary) **93c:62029**
Dagenais, Marcel G. *see* **Dufour, Jean-Marie, 93m:62045**
Das, Biswanath Optimal gauging proportions to detect one-sided shifts in location. **93b:62025**
Das, M. N. *see* **Choudhury, D. Roy, 93j:62049**
Dufour, Jean-Marie (*with* Dagenais, Marcel G.) Nonlinear models, rescaling and test invariance. (English summary) **93m:62045**
Ebrahimi, Nader (*with* Habibullah, Mohamed; Soofi, Ehsan) Testing exponentiality based on Kullback-Leibler information. (English summary)
Elewa, S. A. (*with* Nagarsenker, B. N.; Nagarsenker, P. B.) On a test of equality of exponential populations based on censored samples. (English summary) **93j:62050**
Ermakov, M. S. Asymptotic minimaxity of usual goodness of fit tests. **93d:62032**
Farrell, Roger H. *see* **Hwang, Jiunn Tzon; et al., 93a:62020**
Feng, Ziding (*with* McCulloch, Charles E.) Statistical inference using maximum likelihood estimation and the generalized likelihood ratio when the true parameter is on the boundary of the parameter space. **93m:62046**
Feuerverger, Andrey (*with* Rahman, Sheikh) Some aspects of probability forecasting. **93a:62019**
Fung, Karen Yuen *see* **Krewski, Daniel; et al., 93g:62034**
Guida, M. *see* **Calabria, R.; et al.**
Gutmann, Sam *see* **Maymin, Zakhar, 93k:62035**
Habibullah, Mohamed *see* **Ebrahimi, Nader; et al.**
Hanagal, David D. (*with* Kale, B. K.) Large sample tests for testing symmetry and independence in some bivariate exponential models. (English summary)
Henderson, Robin (*with* Matthews, J. N. S.) An investigation of changepoints in the annual number of cases of haemolytic uraemic syndrome. (English summary)
Henze, N. *see* **Baringhaus, L., 93e:62054**
Hwang, Jiunn Tzon (*with* Casella, George; Robert, Christian P.; Wells, Martin T.; Farrell, Roger H.) Estimation of accuracy in testing. **93a:62020**
Hwang, L. J. *see* **Al-Khalidi, H. R., 93c:62028**
Ivanov, V. A. Discrimination of contiguous hypotheses based on randomly transformed realization. (Russian) (*see* **93b:60003**)
Iwasa, Manabu Admissibility of unbiased tests for a composite hypothesis with a restricted alternative. **93c:62030**
Jain, Madhu Bala *see* **Sen, Kanwar, 93c:62032**
James, Barry (*with* James, Kang Ling; Siegmund, David O.) Asymptotic approximations for likelihood ratio tests and confidence regions for a change-point in the mean of a multivariate normal distribution. **93f:62025**
James, Kang Ling *see* **James, Barry; et al., 93f:62025**
Jeon, Jong Woo (*with* Lee, Kee-Won) Behrens-Fisher problem from a model selection point of view.
Kale, B. K. *see* **Hanagal, David D.**
Kim, Byung Soo (*with* Park, Cheolyong) Some remarks on testing goodness of fit for the Poisson assumption. **93f:62026**
Kiselëva, E. M. Solution of the generalized Neyman-Pearson problem using optimal set-partitioning methods. (Russian) **93b:62026**
Krewski, Daniel (*with* Smythe, Robert T.; Fung, Karen Yuen; Burnett, Richard) Conditional and unconditional tests with historical controls. (French summary) **93g:62034**
Kulasekera, K. B. *see* **Alam, Khursheed, 93k:62033**
Laska, Eugene M. (*with* Tang, Dei-In; Meisner, Morris J.) Testing hypotheses about an identified treatment when there are multiple endpoints. (English summary) **93g:62035**
Lee, Kee-Won *see* **Jeon, Jong Woo**
Lienhard, Clarence W. An optimal curtailment of a randomized UMP test for a proportion. **93e:62055**
Liu, Bao *see* **Zhang, Wei²**
Luschgy, Harald (*with* Rukhin, Andrew L.; Vajda, Igor) Adaptive tests for stochastic processes in the ergodic case. (English summary) **93k:62034**
Marcus, Ruth (*with* Talpaz, Hovav) Further results on testing homogeneity of normal means against simple tree alternatives. (English summary)
Marden, John I. *see* **Brown, Lawrence D., 93g:62032**
Martínez, Carmen *see* **Moreno, Elías, (93k:00042)**
Marzec, Leszek Robustness of tests based on spacings in the exponential model. **93e:62056**
Marzec, Paweł Asymptotic stability of tests based on order statistics for the scale parameter. **93a:62021**
Matthews, J. N. S. *see* **Henderson, Robin**
Matveichuk, S. A. *see* **Borodyanskiĭ, N. I.; et al.**
Maymin, Zakhar (*with* Gutmann, Sam) Testing retrospective hypotheses. (English and French summaries) **93k:62035**
McCulloch, Charles E. *see* **Feng, Ziding, 93m:62046**
Meisner, Morris J. *see* **Laska, Eugene M.; et al., 93g:62035**
Menéndez Fernández, J. A. (*with* Rueda, C.; Salvador González, Bonifacio) Dominance of likelihood ratio tests under cone constraints. (English summary) **93m:62047**
— (*with* Rueda, C.; Salvador González, Bonifacio) Testing nonoblique hypotheses. **93e:62057**
Mian, I. U. H. *see* **Shoukri, M. M., 93a:62022**
Misra, Satish C. *see* **Sahai, Hardeo**
Miyaoka, Etsuo *see* **Ukita, Yoshimasa; et al., 93b:62027**
Moreno, Elías (*with* Martínez, Carmen) Testing precise hypotheses: p-values and a posteriori probabilities in Maxwell laws. (Spanish. Spanish summary) (*see* **93k:00042**)
Nagarsenker, B. N. *see* **Elewa, S. A.; et al., 93j:62050**
Nagarsenker, P. B. *see* **Elewa, S. A.; et al., 93j:62050**
Noda, Kazuo *see* **Ukita, Yoshimasa; et al., 93b:62027**
Nomakuchi, Kentaro A note on the uniformly most powerful tests in the presence of nuisance parameters. **93e:62058**
O'Reilly, F. *see* **Rueda, R.; et al., 93k:62036a** *and* **93k:62036b**
Park, Cheolyong *see* **Kim, Byung Soo, 93f:62026**
Pérez-Abreu, V. *see* **Rueda, R.; et al., 93k:62036a** *and* **93k:62036b**
Perlman, Michael D. *see* **Cohen, Arthur; et al., 93i:62018**
Petunin, Yu. I. *see* **Borodyanskiĭ, N. I.; et al.**
Pillers, Carolyn *see* **Conaway, Mark; et al., 93c:62029**
Pulcini, G. *see* **Calabria, R.; et al.**
Rahman, Sheikh *see* **Feuerverger, Andrey, 93a:62019**
Robert, Christian P. *see* **Hwang, Jiunn Tzon; et al., 93a:62020**
Robertson, Tim *see* **Conaway, Mark; et al., 93c:62029**
Rueda, C. *see* **Menéndez Fernández, J. A.; et al., 93e:62057** *and* **93m:62047**
Rueda, R. (*with* Pérez-Abreu, V.; O'Reilly, F.) Goodness of fit for the Poisson distribution based on the probability generating function. **93k:62036a**
— (*with* Pérez-Abreu, V.; O'Reilly, F.) Corrigendum: "Goodness of fit for the Poisson distribution based on the probability generating function". **93k:62036b**
Rukhin, Andrew L. *see* **Luschgy, Harald; et al., 93k:62034**
Sackrowitz, Harold B. *see* **Cohen, Arthur; et al., 93i:62018**
Sahai, Hardeo (*with* Misra, Satish C.) Comparing means of two Poisson distributions.
Salvador González, Bonifacio *see* **Menéndez Fernández, J. A.; et al., 93e:62057** *and* **93m:62047**
Sconing, James *see* **Conaway, Mark; et al., 93c:62029**
Seifert, Burkhardt Exact tests in unbalanced mixed analysis of variance. **93c:62031**
Sen, Kanwar (*with* Jain, Madhu Bala) Tests for bivariate mean residual life. **93c:62032**
Shi, Ning Zhong The minimax direction for the direct product of a convex cone with its application to testing problems. **93f:62027**
— A bounded P-value for composite null hypotheses and its application. (Chinese. English and Chinese summaries)
Shirley, Angela G. Is the minimum of several location parameters positive? **93g:62036**
Shoukri, M. M. (*with* Mian, I. U. H.) Some aspects of statistical inference on the Lagrange (generalized) Poisson distribution. **93a:62022**
Siegmund, David O. *see* **James, Barry; et al., 93f:62025**
Singh, Naunihal Correction to: "The likelihood ratio test for the equality of location parameters of k (≥ 2) exponential populations based on type II censored samples" [Technometrics **25** (1983), no. 2, 193–195; MR 84g:62031]. **93h:62032**
Smythe, Robert T. *see* **Krewski, Daniel; et al., 93g:62034**
Soofi, Ehsan *see* **Ebrahimi, Nader; et al.**
Stępniak, Czesław Towards a notion of testability. (English summary) **93h:62033**
Talpaz, Hovav *see* **Marcus, Ruth**
Tang, Dei-In *see* **Laska, Eugene M.; et al., 93g:62035**
Tiwari, Ram C. (*with* Wells, Martin T.) On the power-divergence statistic in sparse multinomial models requiring parameter estimation. **93i:62019**
Ukita, Yoshimasa (*with* Noda, Kazuo; Miyaoka, Etsuo) UMP invariant tests for a generalized linear model. **93b:62027**
Vajda, Igor *see* **Luschgy, Harald; et al., 93k:62034**
Weerakkody, Govinda J. Testing hypotheses about the common mean of two normal populations. (English summary) **93g:62037**
Wells, Martin T. *see* **Hwang, Jiunn Tzon; et al., 93a:62020** *and* **Tiwari, Ram C., 93i:62019**
Zhang, Wei² (*with* Liu, Bao) Hypotheses tests in absolute selection of separate models. (Chinese. English summary)

Items with secondary classifications in 62F03

Albert, Max Die Falsifikation statistischer Hypothesen. (English summary) [The falsification of statistical hypotheses]
Baksalary, Jerzy K. (*with* Nurhonen, Markku; Puntanen, Simo) Effect of correlations and unequal variances in testing for outliers in linear regression. **93e:62168**
Baringhaus, L. (*with* Henze, N.) An adaptive omnibus test for exponentiality. **93m:62103**
Bernhard, Gudrun *see* **Hommel, Gerhard, (93k:62001)**
Bhattacharyya, A. On a geometrical representation of probability distributions and its use in statistical inference. **93i:62014**
Bognárová, Marta *see* **Rublík, František, 93f:62137**
Bondar, James V. A Hunt-Stein theorem for amenable semigroups. **93g:62007**
Chakravorti, S. R. (*with* Chattopadhyay, A. K.) On testing homogeneity of variances of correlated variables with incomplete data. (English summary) **93m:62048**
Chattopadhyay, A. K. *see* **Chakravorti, S. R., 93m:62048**
Chen, Keh-Wei (*with* Zheng, Zhong Guo) A class of tests using L-statistic for constant relative failure rate against monotone relative failure rate. (English summary) **93g:62121**
Christensen, Ronald (*with* Utts, Jessica) Testing for nonadditivity in log-linear and logit models. (English summary) **93m:62164**
Desu, M. M. (*with* Raghavarao, Damaraju) ★ Sample size methodology. **93f:62010**
Dzhaparidze, K. O. (*with* Nikulin, M. S.) On the calculation of statistics of chi-square-type tests. (Russian. Russian summary) **93g:62029**
Edelman, David Inadmissibility of fixed-sample procedures in two independent tests for normal means. (English summary) **93e:62026**
Faraggi, D. *see* **Reiser, B.; et al., 93f:62136**
Frick, Hans On Lachin's formulae for sample sizes of survival tests. **93c:62159**
Ghosh, Jayanta K. Higher order asymptotics for the likelihood ratio, Rao's and Wald's tests. **93a:62023**
Grzegorzewski, P. The infinitesimal robustness of tests against dependence. (English summary) **93k:62110**
Guttman, Irwin *see* **Reiser, B.; et al., 93f:62136**
(Hashemi, H. R.) *see* **Veeravalli, Venugopal V., 93c:62018**
Henze, N. *see* **Baringhaus, L., 93m:62103**
Hommel, Gerhard (*with* Bernhard, Gudrun) Multiple hypotheses testing. (English summary) (*see* **93k:62001**)
Kass, Robert E. (*with* Vaidyanathan, Suresh K.) Approximate Bayes factors and orthogonal parameters, with application to testing equality of two binomial proportions. **93k:62067**
Kormos, János (*with* Piterbarg, V. I.) A nonstationarity criterion for a Gaussian autoregressive time series under a close alternative. (Russian) **93e:62234**

Lakshmi, Damaraju V. (*with* Raghavarao, Damaraju) A test for detecting untruthful answering in randomized response procedures. **93f:62108**
Levin, Bruce Tests of odds ratio homogeneity with improved power in sparse fourfold tables. **93e:62153**
Levine, A. (*with* Liukkonen, J.; Levine, D. W.) Predicting power changes under transformations in ANOVA tests. **93f:62098**
Levine, D. W. *see* **Levine, A.; et al., 93f:62098**
Liang, TaChen (*with* Panchapakesan, S.) On a monotone empirical Bayes test procedure in geometric model. **93m:62022**
Liukkonen, J. *see* **Levine, A.; et al., 93f:62098**
Loader, Clive R. A log-linear model for a Poisson process change point. (English summary) **93k:62200**
Mak, Kok-Sun *see* **Rukhin, Andrew L., 93j:62053**
Mathew, Thomas[1] (*with* Sinha, Bimal Kumar) Exact and optimum tests in unbalanced split-plot designs under mixed and random models. **93d:62130**
Mayo, Deborah G. Did Pearson reject the Neyman-Pearson philosophy of statistics? **93b:03030**
Monga (*with* Tardif, Serge) Validity of the F-ratio test for replicated Latin square designs under relaxed conditions. (English and French summaries) **93k:62159**
Nikulin, M. S. *see* **Dzhaparidze, K. O., 93g:62029**
Nurhonen, Markku *see* **Baksalary, Jerzy K.; et al., 93e:62168**
Panchapakesan, S. *see* **Liang, TaChen, 93m:62022**
Piterbarg, V. I. *see* **Kormos, János, 93e:62234**
Puntanen, Simo *see* **Baksalary, Jerzy K.; et al., 93e:62168**
Rachev, Svetlozar T. (*with* Sen Gupta, Ashis) Geometric stable distributions and Laplace-Weibull mixtures. (English summary) **93k:60040**
Raghavarao, Damaraju *see* **Desu, M. M., 93f:62010** *and* **Lakshmi, Damaraju V., 93f:62108**
Reiser, B. (*with* Faraggi, D.; Guttman, Irwin) Choice of sample size for testing the $P(X > Y)$. **93f:62136**
Repin, V. G. (*with* Tartakovskiĭ, G. P.; Slepokurov, A. A.) Testing multi-alternative hypotheses under conditions of a priori uncertainty. (Russian) **93b:62010**
(Rhodes, Ian B.) *see* **Veeravalli, Venugopal V., 93c:62018**
Roters, M. Minimax sequential tests for stationary Ornstein-Uhlenbeck processes. **93a:62109**
Rublík, František (*with* Bognárová, Marta) Tables for a statistical quality control test. (English and Slovak summaries) **93f:62137**
Rukhin, Andrew L. (*with* Mak, Kok-Sun) Adaptive test statistics and Bahadur efficiency. (English summary) **93j:62053**
Schell, Michael J. *see* **Singh, Bahadur, 93e:62092**
Schmid, Wolfgang How to locate outliers in a time series, if a starting-block is present. (English summary) **93e:62238**
Sen Gupta, Ashis *see* **Rachev, Svetlozar T., 93k:60040**
Silvapulle, Mervyn J. Robust tests of inequality constraints and one-sided hypotheses in the linear model. (English summary) **93k:62075**
Singh, Bahadur (*with* Schell, Michael J.) On power functions of the likelihood ratio tests for the simple loop order in normal means: unequal sample sizes. (English summary) **93e:62092**
Sinha, Bimal Kumar *see* **Mathew, Thomas[1], 93d:62130**
Slepokurov, A. A. *see* **Repin, V. G.; et al., 93b:62010**
Spruill, M. C. Good designs for testing the degree of a polynomial mean. (English summary) **93e:62188**
Steinberg, Y. (*with* Zeitouni, Ofer) On tests for normality. (English summary) **93k:62197**
Szroeter, Jerzy The asymptotic local structure of the Cox modified likelihood-ratio statistic for testing nonnested hypotheses. (English summary) **93m:62221**
Tardif, Serge *see* **Monga, 93k:62159**
Tartakovskiĭ, G. P. *see* **Repin, V. G.; et al., 93b:62010**
Toutenburg, H. *see* **Trenkler, Götz, 93e:62175**
Trenkler, Götz (*with* Toutenburg, H.) Pre-test procedures and forecasting in the regression model under restrictions. **93e:62175**
Utts, Jessica *see* **Christensen, Ronald, 93m:62164**
Vaidyanathan, Suresh K. *see* **Kass, Robert E., 93k:62067**
Veeravalli, Venugopal V. Comments on: "Decentralized sequential detection" [IEEE Trans. Inform. Theory **35** (1989), no. 3, 509–520; MR 90i:62016] by H. R. Hashemi and I. B. Rhodes. **93c:62018**
Zeitouni, Ofer *see* **Steinberg, Y., 93k:62197**
Zheng, Zhong Guo *see* **Chen, Keh-Wei, 93g:62121**
Zieliński, W. A robust test for variance.

62F04 Small sample properties of tests

Chakravorti, S. R. (*with* Chattopadhyay, A. K.) On testing homogeneity of variances of correlated variables with incomplete data. (English summary) **93m:62048**
Chattopadhyay, A. K. *see* **Chakravorti, S. R., 93m:62048**
Nechval', N. A. A new approach to constructing exact tests for discrimination between models from separate families of hypotheses. **93e:62059**

Items with secondary classifications in 62F04

Brown, Lawrence D. (*with* Marden, John I.) Local admissibility and local unbiasedness in hypothesis testing problems. **93g:62032**
Marden, John I. *see* **Brown, Lawrence D., 93g:62032**
Menéndez Fernández, J. A. (*with* Rueda, C.; Salvador González, Bonifacio) Testing nonoblique hypotheses. **93e:62057**
Rueda, C. *see* **Menéndez Fernández, J. A.; et al., 93e:62057**
Salvador González, Bonifacio *see* **Menéndez Fernández, J. A.; et al., 93e:62057**
Seifert, Burkhardt Exact tests in unbalanced mixed analysis of variance. **93c:62031**
Shirley, Angela G. Is the minimum of several location parameters positive? **93g:62036**
Tsai, Ming Tan M. On the power superiority of likelihood ratio tests for restricted alternatives. (English summary) **93k:62124**

62F05 Asymptotic properties of tests

Afanas'ev, A. A. On a problem of distinguishing hypotheses in binary partially defined statistical experiments. (Russian)
Begg, Melissa Dowd (*with* Lagakos, Stephen) Effects of mismodeling on tests of association based on logistic regression models. (English summary) **93k:62037**
Benson, Ya. E. (*with* Nikitin, Ya. Yu.) Conditions for local asymptotic optimality in the sense of Bahadur of weighted Kolmogorov-Smirnov statistics. (Russian. Russian summary) **93h:62034**
Bucklew, James A. (*with* Ney, Peter E.) Asymptotically optimal hypothesis testing with memory constraints. **93b:62028**
Chou, Jo Chên Unbiasedness of some tests in the Langevin distribution. (English summary) **93e:62060**
Ghosh, Jayanta K. Higher order asymptotics for the likelihood ratio, Rao's and Wald's tests. **93a:62023**
Horváth, Lajos (*with* Johnson, Richard A.) Tests of fit for composite hypotheses with censored data. **93f:62028**
Johnson, Richard A. *see* **Horváth, Lajos, 93f:62028**
Kano, Yutaka Robust statistics for test-of-independence and related structural models. (English summary) **93j:62051**
Kazakos, Dimitri Asymptotic error probability expressions for multihypothesis testing using multisensor data. (English summary) **93j:62052**
Lagakos, Stephen *see* **Begg, Melissa Dowd, 93k:62037**
Mak, Kok-Sun *see* **Rukhin, Andrew L., 93j:62053**
Merhav, Neri *see* **Zeitouni, Ofer; et al.**
Mora, Marianne Geometrical expansions for the distributions of the score vector and the maximum likelihood estimator. **93g:62038**
Mukerjee, Rahul Comparison between the conditional likelihood ratio and the usual likelihood ratio tests. **93b:62029**
— Conditional likelihood and power: higher-order asymptotics. (English summary) **93k:62038**
Ney, Peter E. *see* **Bucklew, James A., 93b:62028**
Nikitin, Ya. Yu. *see* **Benson, Ya. E., 93h:62034**
Rao, K. Aruna (*with* Vidya, R.) On the performance of a test for coefficient of variation. (English summary)
Rukhin, Andrew L. (*with* Mak, Kok-Sun) Adaptive test statistics and Bahadur efficiency. (English summary) **93j:62053**
Silvapulle, Mervyn J. Robust Wald-type tests of one-sided hypotheses in the linear model. **93c:62033**
Taniguchi, Masanobu Third-order asymptotic properties of a class of test statistics under a local alternative. **93d:62033**
Vidya, R. *see* **Rao, K. Aruna**
Zeitouni, Ofer (*with* Ziv, Jacob; Merhav, Neri) When is the generalized likelihood ratio test optimal? (English summary)
Ziv, Jacob *see* **Zeitouni, Ofer; et al.**

Items with secondary classifications in 62F05

Al-Khalidi, H. R. (*with* Hwang, L. J.) Some pitfalls of tests of separate families of hypotheses: normality vs. lognormality. **93c:62028**
Arcones, Miguel A. (*with* Giné, Evarist) On the bootstrap of U and V statistics. **93f:62021**
Borovkov, A. A. (*with* Mogul'skiĭ, A. A.) Large deviations and testing statistical hypotheses. I. Large deviations of sums of random vectors. (English summary) **93k:60066**
Boutahar, Mohamed Distribution asymptotique de l'estimateur des moindres carrés. Cas des modèles ARX(p,s) instables. (English summary) [Asymptotic distribution of least-squares estimates in unstable ARX(p,s) models] **93e:62241**
Chen, Xi Ru *see* **Zhao, Lin Cheng, 93m:62163**
Denny, J. L. (*with* Wright, A. Larry) Inference about the shape of neighboring points in fields. (English summary) **93h:62155**
Dykstra, Richard L. Asymptotic normality for chi-bar-square distributions. (French summary) **93k:62029**
Fraser, D. A. S. Statistical inference: likelihood to significance. **93c:62006**
Fuh, C. D. Bootstrapping the autocorrelation coefficient of finite Markov chains. (English summary) **93j:62209**
Giné, Evarist *see* **Arcones, Miguel A., 93f:62021**
Hwang, L. J. *see* **Al-Khalidi, H. R., 93c:62028**
Iwasaki, Manabu Construction of M-estimators by robustifying orthogonal polynomials associated with the density function. **93e:62072**
Jain, Madhu Bala *see* **Sen, Kanwar, 93b:62133**
Jammalamadaka, Sreenivasa R. *see* **Wells, Martin T.; et al., 93m:62116**
Johnson, Richard A. (*with* Langeland, Thore) A linear combination test for detecting serial correlation in multivariate samples. (English summary) **93i:62052**
Jupp, P. E. Derivative strings, differential strings and semi-holonomic jets. (English summary) **93i:58008**
Kallenberg, Wilbert C. M. (*with* Kourouklis, Stavros) Hodges-Lehmann optimality of tests. **93g:62066**
Kourouklis, Stavros *see* **Kallenberg, Wilbert C. M., 93g:62066**
Langeland, Thore *see* **Johnson, Richard A., 93i:62052**
Liang, TaChen (*with* Panchapakesan, S.) On a monotone empirical Bayes test procedure in geometric model. **93m:62022**
Luschgy, Harald (*with* Rukhin, Andrew L.; Vajda, Igor) Adaptive tests for stochastic processes in the ergodic case. (English summary) **93k:62034**
Marzec, Leszek Robustness of tests based on spacings in the exponential model. **93e:62056**
Marzec, Paweł Asymptotic stability of tests based on order statistics for the scale parameter. **93a:62021**
Mogul'skiĭ, A. A. *see* **Borovkov, A. A., 93k:60066**
O'Reilly, F. *see* **Rueda, R.; et al., 93k:62036a** *and* **93k:62036b**
Panchapakesan, S. *see* **Liang, TaChen, 93m:62022**
Pérez-Abreu, V. *see* **Rueda, R.; et al., 93k:62036a** *and* **93k:62036b**
Prasad, B. *see* **Singh, Radhey S., 93d:62015**
Rueda, R. (*with* Pérez-Abreu, V.; O'Reilly, F.) Goodness of fit for the Poisson distribution

based on the probability generating function. **93k:62036a**
— (*with* Pérez-Abreu, V.; O'Reilly, F.) Corrigendum: "Goodness of fit for the Poisson distribution based on the probability generating function". **93k:62036b**
Rukhin, Andrew L. *see* **Luschgy, Harald; et al., 93k:62034**
Sen, Kanwar (*with* Jain, Madhu Bala) A test for bivariate exponentiality against BIFR alternative. **93b:62133**
Silvapulle, Mervyn J. On limited dependent variable models: maximum likelihood estimation and test of one-sided hypothesis. **93e:62084**
Singh, Radhey S. (*with* Prasad, B.) Uniformly strongly consistent prior-distribution and empirical Bayes estimators with asymptotic optimality and rates in a nonexponential family. (English summary) **93d:62015**
Szroeter, Jerzy The asymptotic local structure of the Cox modified likelihood-ratio statistic for testing nonnested hypotheses. (English summary) **93m:62221**
Tiwari, Ram C. *see* **Wells, Martin T.; et al., 93m:62116**
Tu, Dong Sheng The Berry-Esseen theorem for the subject-years method in mortality analysis with censored data. **93a:62018**
Vajda, Igor *see* **Luschgy, Harald; et al., 93k:62034**
Wells, Martin T. (*with* Jammalamadaka, Sreenivasa R.; Tiwari, Ram C.) Tests of fit using spacings statistics with estimated parameters. (English summary) **93m:62116**
Wright, A. Larry *see* **Denny, J. L., 93h:62155**
Zhao, Lin Cheng (*with* Chen, Xi Ru) Asymptotic behavior of M-test statistics in linear models. (English summary) **93m:62163**

62F07 Ranking and selection

de Beer, C. F. *see* **Swanepoel, J. W. H., 93g:62040**
Bhandari, Subir Kumar (*with* Ray Chaudhuri, Atasi) On two conjectures about two-stage selection procedures. (English summary) **93f:62029**
— (*with* Mukerjee, Rahul) Two- and multi-stage selection procedures for Weibull populations. **93b:62030**
Bofinger, Eve Selecting "demonstrably best" or "demonstrably worst" exponential populations. **93b:62031**
— (*with* Lewis, Gwenda J.) Simultaneous comparisons with a control and with the best: two stage procedures. (English summary) **93k:62039**
— Unconstrained and nonlinear confidence bounds for location parameters. (English summary) **93k:62040**
— (*with* Lewis, Gwenda J.) Two-stage procedures for multiple comparisons with a control. (English summary) **93k:62041**
— Comparisons and selection of two-parameter exponential populations. (English summary)
— Multiple comparisons with "best" for multivariate normal populations. **93f:62030**
Borowiak, D. S. (*with* de los Reyes, J. P.) Selection of the best in 2×2 factorial designs. (English summary) **93m:62049**
Bristol, David R. (*with* Chen, Hubert J.; Mithongtae, Jirawan S.) Comparing exponential guarantee times with a control. (English summary) **93h:62035**
Chen, Hubert J. *see* **Bristol, David R.; et al., 93h:62035** *and* **Dudewicz, Edward J., (93g:62002)**
Chen, Pinyuen (*with* Hsu, Lifang) Partitioning multinomial cells. (English summary) **93h:62036**
— Truncated selection procedures for the most probable event and the least probable event. (English summary) **93m:62050**
Daley, D. J. Ranking in a one-factor model used to describe examination marks. (English summary) **93j:62054**
Dudewicz, Edward J. (*with* Chen, Hubert J.) Subset selection with expected subset size control. (English summary) (*see* **93g:62002**)
— *see also* **Taneja, Baldeo K., 93j:62060**
Findley, David F. Counterexamples to parsimony and BIC. **93e:62061**
Fong, Duncan K. H. Ranking and estimation of related means in the presence of a covariate—a Bayesian approach. (English summary)
Gill, Amar Nath (*with* Mehta, Gobind P.) Selection procedures for scale parameters using two-sample U-statistics. **93b:62032**
— (*with* Kumar, Narinder; Mehta, Gobind P.) A class of selection procedures for scale parameters. (English summary) **93j:62055**
Gupta, Shanti S. (*with* Miescke, Klaus J.) On finding the largest normal mean and estimating the selected mean. (English summary) **93e:62062**
— (*with* Leu, Lii Yuh; Liang, TaChen) Selection of the best with a preliminary test for location-scale parametric models. (English summary) **93k:62042**
— (*with* Sohn, Joong Kweon) Selection and ranking procedures for Tukey's generalized lambda distributions: symmetric case. (English summary) **93h:62037**
Hartmann, Mark E. An improvement on Paulson's procedure for selecting the population with the largest mean from k normal populations with a common unknown variance. **93c:62034**
Heffernan, Maika Behaxeteguy *see* **Santner, Thomas J., 93k:62046**
Hsu, Lifang *see* **Chen, Pinyuen, 93h:62036**
Hsü, T'ung An Some optimal selection procedures for dependent normal populations. (English summary) **93k:62043**
Hyakutake, Hiroto Selecting the better component of a bivariate exponential distribution. **93g:62039**
Judge, J. *see* **Mukhopadhyay, Nitis, 93j:62057**
Kang, Sang Gil *see* **Sohn, Joong Kweon**
Kim, Soon-Ki A lower bound on the probability of correct selection for two-stage selection procedure. (English summary) **93e:62063**
Kumar, Narinder *see* **Gill, Amar Nath; et al., 93j:62055**
van der Laan, Paul Subset selection of an almost best treatment. (English summary)
— On subset selection from logistic populations. (English summary) **93e:62064**
Lam, Kin Subset selection of normal populations under heteroscedasticity. (English summary) **93j:62056**
Leu, Lii Yuh *see* **Gupta, Shanti S.; et al., 93k:62042**
Lewis, Gwenda J. *see* **Bofinger, Eve, 93k:62039** *and* **93k:62041**
Liang, TaChen Empirical Bayes selection for the highest success probability in Bernoulli processes with negative binomial sampling. **93b:62033**
— *see also* **Gupta, Shanti S.; et al., 93k:62042**
Lin, Chê Yen Subset selection with a composite inverse sampling procedure in a multinomial distribution. **93b:62034**
— *see also* **Liu, Han Ch'u, 93a:62024**
Liu, Han Ch'u (*with* Lin, Chê Yen) On selecting a subset containing the most probable multinomial event. **93a:62024**
Mehta, Gobind P. *see* **Gill, Amar Nath, 93b:62032** *and* **93j:62055**
Mengersen, Kerrie Selecting the best candidate for the job. (English summary) **93h:62038**
Miescke, Klaus J. *see* **Gupta, Shanti S., 93e:62062**
Mishra, Satya N. A nonparametric procedure for selection of populations with extreme quantiles. (English summary) **93k:62044**
Mithongtae, Jirawan S. *see* **Bristol, David R.; et al., 93h:62035**
Mukerjee, Rahul *see* **Bhandari, Subir Kumar, 93b:62030**
Mukhopadhyay, Nitis (*with* Judge, J.) Three-stage procedures for selecting the largest normal mean. (English summary) **93j:62057**
— (*with* Solanky, Tumulesh K. S.) Accelerated sequential procedure for selecting the largest mean. **93f:62031**
Mulekar, Madhuri S. (*with* Young, Linda J.) Approximations for a fixed sample size selection procedure for negative binomial populations. **93a:62025**
— (*with* Young, Linda J.) A fixed sample size selection procedure for negative binomial populations. (English summary) **93k:62045**
Pollard, Graham H. The optimal test for selecting the greater of two binomial probabilities. (English summary) **93m:62051**
Ray Chaudhuri, Atasi *see* **Bhandari, Subir Kumar, 93f:62029**
de los Reyes, J. P. *see* **Borowiak, D. S., 93m:62049**
Roters, M. On a ranking problem for symmetric and unimodal location parameter families. (English summary) **93j:62058**
Santner, Thomas J. (*with* Heffernan, Maika Behaxeteguy) A two-stage procedure for selecting the largest normal mean whose first stage selects a bounded random number of populations. **93k:62046**
Sharma, Divakar (*with* Vellaisamy, P.) Quantile estimation of the selected normal population. (English summary) **93e:62065**
— *see also* **Vellaisamy, P., 93e:62067**
Sobel, Marc Cross-validated assessments of test scoring models. (English summary) **93j:62059**
— On selecting the Pareto-optimal subset of a class of populations.
Sohn, Joong Kweon (*with* Kang, Sang Gil) On the estimation of the true probability of a correct selection.
— *see also* **Gupta, Shanti S., 93h:62037**
Solanky, Tumulesh K. S. *see* **Mukhopadhyay, Nitis, 93f:62031**
Song, Ruiguang On estimating the mean of the selected uniform population. (English summary) **93h:62039**
Swanepoel, J. W. H. (*with* de Beer, C. F.) A new nonparametric estimator for the mean of the selected population. (English summary) **93g:62040**
Taneja, Baldeo K. (*with* Dudewicz, Edward J.) Selection of the best experimental category provided it is better than a standard: the heteroscedastic method solution. (English summary) **93j:62060**
Tappin, Linda Unbiased estimation of the parameter of a selected binomial population. **93e:62066**
Vellaisamy, P. (*with* Sharma, Divakar) On estimation after subset selection from exponential populations. (English summary) **93e:62067**
— *see also* **Sharma, Divakar, 93e:62065**
Wilson, John G. Robust Bayesian selection of the best Poisson population. (English summary) **93h:62040**
Young, Linda J. *see* **Mulekar, Madhuri S., 93a:62025** *and* **93k:62045**

Items with secondary classifications in 62F07

Bechhofer, Robert E. (*with* Chen, Pinyuen) A note on a curtailed sequential procedure for subset selection of multinomial cells. (English summary) **93k:62163**
Carpenter, Mark (*with* Pal, Nabendu; Kushary, Debashis) Estimation of the smaller and larger of two exponential location parameters. **93h:62041**
Chen, H. J. *see* **Ng, C. K.; et al., 93k:62206**
Chen, Pinyuen *see* **Sobel, Marc; et al., 93e:62205** *and* **Bechhofer, Robert E., 93k:62163**
Desu, M. M. (*with* Raghavarao, Damaraju) ★ Sample size methodology. **93f:62010**
Edwards, Howard P. Empirical Bayes estimators of the probability of correct selection. (English summary) (*see* **93g:62002**)
Fong, Duncan K. H. A Bayesian approach to the estimation of the largest normal mean. (English summary) **93j:62079**
Gupta, Shanti S. (*with* Panchapakesan, S.) Sequential ranking and selection procedures. (*see* **93g:62102**)
Gutmann, Sam *see* **Maymin, Zakhar, 93k:62035**
Huang, Têng Yüan (*with* Tsêng, Shêng Ts'ang) A decision procedure for determining the number of components in principal component analysis. **93e:62160**
Judge, J. *see* **Mukhopadhyay, Nitis, 93c:62137**
Kushary, Debashis *see* **Carpenter, Mark; et al., 93h:62041**
Lam, Kin *see* **Ng, C. K.; et al., 93k:62206**
Leysieffer, Frederick *see* **Proschan, Michael, 93b:62024**
Li, Jin Ping Empirical Bayes rules for selecting good populations from one-dimensional discrete exponential families. (Chinese. Chinese summary) **93m:62021**
Maymin, Zakhar (*with* Gutmann, Sam) Testing retrospective hypotheses. (English and French summaries) **93k:62035**
Mukhopadhyay, Nitis (*with* Judge, J.) Second order expansions for a sequential selection procedure. (English summary) **93c:62137**
— (*with* Solanky, Tumulesh K. S.) Accelerated sequential procedure for selecting the best exponential population. (English summary) **93j:62203**
Ng, C. K. (*with* Lam, Kin; Chen, H. J.) Multiple comparison of exponential location parameters with the best under type II censoring. (English summary) **93k:62206**
Pal, Nabendu *see* **Carpenter, Mark; et al., 93h:62041**
Panchapakesan, S. *see* **Gupta, Shanti S., (93g:62102)**

Proschan, Michael (*with* Leysieffer, Frederick) A partial ordering of rank densities. **93b:62024**
Raghavarao, Damaraju *see* **Desu, M. M., 93f:62010**
Sobel, Marc (*with* Chen, Pinyuen; Sobel, Milton) A two-stage procedure for selecting the largest mean based on conditional probability analysis. (English summary) **93e:62205**
Sobel, Milton *see* **Sobel, Marc; et al., 93e:62205**
Solanky, Tumulesh K. S. *see* **Mukhopadhyay, Nitis, 93j:62203**
Somerville, Paul N. Some P^*-level confidence bounds for the difference between the population mean of the apparent best (the one with the largest sample mean) and the best (three population case). (English summary) (*see* **93g:62002**)
Tsêng, Shêng Ts'ang *see* **Huang, Têng Yüan, 93e:62160**
Vellaisamy, P. Inadmissibility results for the selected scale parameters. (English summary) **93m:62026**

62F10 Point estimation

Ahmad, Mohammed Salahuddin (*with* Samawi, Hani Michel) Maximum likelihood estimates of Weibull parameters using accelerated life testing. (English and Arabic summaries)
Al-Hemyari, Z. A. *see* **Kambo, N. S.; et al., 93h:62046**
Ali, Abdunnabi M. (*with* Saleh, A. K. Md. Ehsanes) Estimation of means and treatment effects in a one-way ANOVA model. **93b:62035**
Angus, John E. Computer-assisted improvement of mean squared error in statistical estimation. (English summary) **93k:62047**
Anjaneyulu, G. V. S. R. *see* **Radhakrishna, C.; et al.**
Aragon, Jorge (*with* Eberly, David) Existence and uniqueness of maximum likelihood estimators for certain size-biased discrete distributions. (English summary) **93e:62068**
— (*with* Eberly, David; Eberly, Shelly) Existence and uniqueness of the maximum likelihood estimator for the two-parameter negative binomial distribution. (English summary)
Arnold, Barry C. (*with* Strauss, David) Pseudolikelihood estimation: some examples. (English summary) **93e:62069**
Ashour, S. K. (*with* El-Wakeel, M. A. M. H.) Estimation of the unknown parameters of the generalized Burr distribution. (English summary)
Back, Kerry (*with* Brown, David P.) GMM, maximum likelihood, and nonparametric efficiency. (English summary) **93c:62035**
Bai, Do Sun (*with* Hong, Y. W.) Estimation of $\Pr(X < Y)$ in the exponential case with common location parameter. **93c:62036**
Belov, A. G. On the uniqueness of maximum likelihood estimators for the parameters of the bivariate Poisson distribution. (Russian. Russian summary)
Berry, J. Calvin *see* **Pal, Nabendu**
Bhatt, M. B. *see* **Patel, S. R., 93c:62044; 93e:62077; 93g:62042; 93h:62051**
Bhattacharya, C. G. (*with* Shah, K. R.) Combined estimate of a location parameter. **93c:62037**
Bhattacharya, Samir Kumar *see* **Kumar, Santosh[2]; et al.**
Blyth, Colin R. Comments: "The 'closest' estimates of statistical parameters" by E. J. G. Pitman. **93g:62043c**
Bologna, Salvatore Estimating the shape parameter of distributions with regular variation. (Italian. English and Italian summaries) **93j:62061**
Bose, Sudip Some properties of posterior Pitman closeness. **93f:62032**
Brown, David P. *see* **Back, Kerry, 93c:62035**
Byrne, Charles L. (*with* Haughton, Dominique; Jiang, Jyh-Ming) High-resolution inversion of the discrete Poisson and binomial transformations. (English summary) **93k:62048**
Cai, Kai Yuan Parameter estimations of normal fuzzy variables. (English summary)
Carpenter, Mark (*with* Pal, Nabendu; Kushary, Debashis) Estimation of the smaller and larger of two exponential location parameters. **93h:62041**
Casella, George *see* **Searle, Shayle R.; et al., 93m:62054**
Chand, Lal *see* **Singh, Housila Prasad; et al.**
Chen, Huann Sheng *see* **Huang, Wên T'ao, 93j:62064**
Chêng, Kuang Fu (*with* Wu, J. W.) Estimation of exponential regression parameters using binary data. (English summary)
Cheng, Ping[1] (*with* Xu, Wen Yuan) Estimation of parameters of singular points and its applications to semiparametric models. (Chinese. English and Chinese summaries)
— *see also* **Wu, Chuan Yi; et al., (93e:62004)**
Cheng, Yi Ming Coefficients of the best linear unbiased estimators under the Weibull distribution when $n > 25$. (Chinese. English and Chinese summaries)
Chow, Mo Suk (*with* Fong, Duncan K. H.) Simultaneous estimation of the Hardy-Weinberg proportions. (English and French summaries) **93h:62042**
Christman, Mary C. *see* **Nayak, Tapan K.**
Clarke, Brenton R. The selection functional. **93d:62034**
Cohen, A. Clifford ★ Truncated and censored samples. **93e:62070**
Cohen, Arthur *see* **Kushary, Debashis, 93j:62066**
Comets, Francis (*with* Gidas, Basilis) Asymptotics of maximum likelihood estimators for the Curie-Weiss model. **93c:62038**
Cressie, Noel *see* **Nanayakkara, Nuwan, 93a:62031**
Czado, Claudia (*with* Santner, Thomas J.) Orthogonalizing parametric link transformation families in binary regression analysis. (French summary)
Dattatreya Rao, A. V. *see* **Radhakrishna, C.; et al.**
Dave, H. P. *see* **Jani, P. N., 93d:62037**
David, H. T. (*with* Salem, Shawki A.) Three shrinkage constructions for Pitman-closeness in the one-dimensional location case. **93b:62036**
(Dey, Dipak K.) *see* **Ghosh, Malay, 93d:62035**
Dijkstra, T. K. On statistical inference with parameter estimates on the boundary of the parameter space. (English summary) **93j:62062**
Donchenko, V. S. (*with* Shpak, V. M.) Estimation of parameters based on the Hough transform. (Russian. Russian summary) (*see* **93m:60009**)
Durairajan, T. M. Optimal estimating function for nonorthogonal model. (English summary) **93h:62043**
Eberly, David *see* **Aragon, Jorge, 93e:62068**
Eberly, Shelly *see* **Aragon, Jorge; et al.**
Elfessi, Abdulaziz (*with* Pal, Nabendu) A note on the common mean of two normal populations with order restricted variances. (English summary) **93k:62049**
Ellis, Steven P. A metric representation for minimum chi square. (English summary) **93i:62020**
El-Wakeel, M. A. M. H. *see* **Ashour, S. K.**
Ennis, M. (*with* Fraser, D. A. S.) Higher order local unbiasedness with computer algebra. (English summary) **93k:62050**
Ferrari, Pieralda A multidimensional model for discrete random variables. (Italian. English summary) **93a:62026**
Fong, Duncan K. H. *see* **Chow, Mo Suk, 93h:62042**
Fountain, Robert L. (*with* Keating, Jerome P.; Rao, Calyampudi Radhakrishna) An example arising from Berkson's conjecture. **93a:62027**
Fraser, D. A. S. *see* **Ennis, M., 93k:62050**
Friedman, Lea A note on estimation in a minimum type model.
Ghosh, Malay (*with* Sen, Pranab Kumar) Bayesian Pitman closeness. **93d:62035**
Gidas, Basilis *see* **Comets, Francis, 93c:62038**
Glynn, Peter W. (*with* Heidelberger, Philip) Jackknifing under a budget constraint. (English summary) **93e:62071**
Gokhale, D. V. (*with* Inada, Kôichi; Kim, Hea-Jung) A minimum discrimination information estimator of preliminary conjectured normal variance. (English summary) **93m:62052**
Gupta, Rajenda P. *see* **Rahman, M. S.**
Gupta, Rameshwar D. (*with* Singh, Harshinder) Pitman nearness comparisons of estimates of two ordered normal means. (English summary) **93k:62051**
— *see also* **Singh, Harshinder; et al., 93k:62055**
Gushchin, A. A. On quasi-score processes. **93d:62036**
Hagwood, Robert Charles The calibration problem as an ill-posed inverse problem. **93j:62063**
Hanagal, David D. Some inference results in bivariate exponential distributions based on censored samples.
— Some inference results in an absolutely continuous multivariate exponential model of Block. (English summary) **93k:62052**
Handa, B. R. *see* **Kambo, N. S.; et al., 93h:62046**
Harikar, Ranjan S. *see* **Nayak, Tapan K.**
Haughton, Dominique *see* **Byrne, Charles L.; et al., 93k:62048**
Heidelberger, Philip *see* **Glynn, Peter W., 93e:62071**
Henna, Jõgi An estimator of the number of components of finite mixtures of discrete distributions. **93c:62039**
Hili, Ouagnina Estimateurs du minimum de distance d'Hellinger des modèles EXPARMA. (English and French summaries) [Minimum Hellinger distance estimates for the EXPARMA models] **93h:62044**
Hong, Y. W. *see* **Bai, Do Sun, 93c:62036**
Hooda, B. K. (*with* Singh, N. P.; Singh, Umed) On estimation in Fréchet distribution of mth maxima. (English summary)
Huang, Wên T'ao (*with* Chen, Huann Sheng) Estimation of the exponential mean under type I censored sampling. (English summary) **93j:62064**
Inada, Kôichi A minimax regret estimator of the normal mean with unknown variance after preliminary test. **93i:62021**
— *see also* **Gokhale, D. V.; et al., 93m:62052**
Iusem, Alfredo N. (*with* Teboulle, Marc) A primal-dual iterative algorithm for a maximum likelihood estimation problem. (English summary) **93h:62045**
Iwasaki, Manabu Construction of M-estimators by robustifying orthogonal polynomials associated with the density function. **93e:62072**
Jamshidian, Mortaza (*with* Jennrich, Robert I.) Conjugate gradient acceleration of the EM algorithm. (English summary) **93k:62053**
Jani, P. N. (*with* Dave, H. P.) Minimum variance unbiased estimation in a class of exponential family of distributions and some of its applications. (Italian summary) **93d:62037**
Jennrich, Robert I. *see* **Jamshidian, Mortaza, 93k:62053**
Jensen, Søren Tolver (*with* Johansen, Søren; Lauritzen, Steffen L.) Globally convergent algorithms for maximizing a likelihood function. **93c:62040**
Jiang, Hong[2] (*with* Wang, Shi An) Optimal estimation of multiparameters. (Chinese. English and Chinese summaries)
Jiang, Jyh-Ming *see* **Byrne, Charles L.; et al., 93k:62048**
Johansen, Søren *see* **Jensen, Søren Tolver; et al., 93c:62040**
Johnson, Richard A. *see* **Morrell, Christopher H., 93j:62068**
Johnstone, Iain M. (*with* MacGibbon, K. Brenda) Minimax estimation of a constrained Poisson vector. **93d:62038**
Kadiyala, K. R. (*with* Oberhelman, H. Dennis) Optimizing in the class of Fuller modified limited information maximum likelihood estimators. (English summary) **93g:62041**
Kakosyan, A. V. (*with* Klebanov, L. B.; Melamed, Joseph A.) ★ Нелинейное статистическое оценивание параметров линейных регрессионных схем. (Russian) [Nonlinear statistical estimation of the parameters of linear regression schemes] **93d:62039**
Kambo, N. S. (*with* Handa, B. R.; Al-Hemyari, Z. A.) On Huntsberger type shrinkage estimator. **93h:62046**
— *see also* **Tiku, M. L.**
Kantam, R. R. L. (*with* Narasimham, V. L.) Linear estimation in reflected gamma distribution. (English summary)
— *see also* **Rosaiah, K.; et al., 93b:62039**
Kapadia, C. H. *see* **Lee, K. R., 93c:62041**
Katyar, N. P. *see* **Singh, Housila Prasad; et al.**
Keating, Jerome P. Karlin's corollary: a topological approach to Pitman's measure. **93e:62073**
— *see also* **Fountain, Robert L.; et al., 93a:62027**
Khattree, Ravindra Estimation of guarantee time and mean life after warranty for two-parameter exponential failure model. (English summary) **93j:62065**
— *see also* **Sen, Pranab Kumar; et al., 93a:62033** *and* **Peddada, Shyamal Das, 93b:62038**
Kim, Hea-Jung *see* **Gokhale, D. V.; et al., 93m:62052**
Klebanov, L. B. *see* **Kakosyan, A. V.; et al., 93d:62039**
Klonecki, Witold (*with* Zontek, Stefan) Admissible estimators of variance components

obtained via submodels. (English summary) **93h:62047**

Koop, Gary (*with* Poirier, Dale J.) Bayesian analysis of logit models using natural conjugate priors. (English summary)

Kourouklis, Stavros Bahadur efficiency of likelihood ratio and related tests in nonregular models. **93e:62074**

Krishnamoorthy, K. On a shrinkage estimator of a normal common mean vector. **93a:62028**

Kubokawa, Tatsuya Equivariant estimation under the Pitman closeness criterion. **93e:62075**

Kumar, Santosh[2] (*with* Tiwari, Ram C.; Tyagi, Ravinder K.; Bhattacharya, Samir Kumar) Pretest estimation for some discrete distributions.

Kushary, Debashis (*with* Cohen, Arthur) Estimation of ordered Poisson parameters. (English summary) **93j:62066**

— *see also* **Carpenter, Mark; et al., 93h:62041**

Lauritzen, Steffen L. *see* **Jensen, Søren Tolver; et al., 93c:62040**

Lee, K. R. (*with* Kapadia, C. H.) Restricted maximum likelihood estimation under Eisenhart model III. **93c:62041**

Leung, Chi-Ying Proportion estimation in mixtures with covariates. (English summary) **93j:62067**

Lin, Shang P. *see* **Tang, Dei-In, 93d:62041**

Little, Roderick J. A. (*with* Rubin, Donald B.) ★ Статистический анализ данных с пропусками. (Russian) [Statistical analysis with missing data] **93a:62029**

Liu, Jin Quan Simultaneous estimation of mean parameters of some discrete distributions under a class of weighted loss functions. (Chinese. English summary)

— *see also* **Zhou, Guang Ya**

MacGibbon, K. Brenda *see* **Johnstone, Iain M., 93d:62038**

Maguluri, Gangaji Estimation in a semiparametric model by the method of minimum distance. **93c:62042**

Maiboroda, R. E. Estimation of the parameters of variable mixtures. (Russian) **93b:62037**

— Nonparametric detection of a change point based on observations with error. (Russian. Ukrainian summary) **93a:62030**

Mason, Robert L. Comments: "The 'closest' estimates of statistical parameters" by E. J. G. Pitman. **93g:62043d**

McCullagh, Peter Conditional inference and Cauchy models. (English summary) **93h:62048**

McCulloch, Charles E. *see* **Searle, Shayle R.; et al., 93m:62054**

McLeish, D. L. (*with* Small, Christopher G.) A projected likelihood function for semiparametric models. **93e:62076**

— *see also* **Small, Christopher G., 93d:62040**

Melamed, Joseph A. *see* **Kakosyan, A. V.; et al., 93d:62039**

Melas, V. B. On an approach to the compression of simulation data. (Russian. English summary) **93c:62043**

Misra, Neeraj *see* **Singh, Harshinder; et al., 93k:62055**

Moothathu, T. S. K. The best estimator and a strongly consistent asymptotically normal unbiased estimator of Lorenz curve Gini index and Theil entropy index of Pareto distribution. (English summary)

Morrell, Christopher H. (*with* Johnson, Richard A.) Estimation from k independent randomly truncated samples: application to neutrino energies. (English summary) **93j:62068**

Mukhopadhyay, Nitis Simultaneous point estimation problems for two-parameter negative exponential populations. (English summary) **93h:62049**

Murzov, N. V. An adaptive approach to the construction of estimates via the method of moments. (Russian) (*see* **93m:00028**)

Nagelkerke, Nico J. D. ★ Maximum likelihood estimation of functional relationships. **93m:62053**

Nanayakkara, Nuwan (*with* Cressie, Noel) Combining two unbiased estimators of a common mean of two normal populations. **93a:62031**

Narasimham, V. L. *see* **Rosaiah, K.; et al., 93b:62039** *and* **Kantam, R. R. L.**

Nayak, Tapan K. (*with* Harikar, Ranjan S.) On estimating the number of errors in computer software. (English summary)

— On statistical analysis of a sample from a population of unknown species. **93h:62050**

— (*with* Christman, Mary C.) Effect of unequal catchability on estimates of the number of classes in a population. (English summary)

— *see also* **Sen, Pranab Kumar; et al., 93a:62033** *and* **Ghosh, Malay, 93d:62035**

Neves, M. Block estimation for the parameters of the Fréchet distribution. (English and Italian summaries)

(Nikiforov, A. M.) *see* **Little, Roderick J. A., 93a:62029**

Oberhelman, H. Dennis *see* **Kadiyala, K. R., 93g:62041**

Pal, Nabendu (*with* Berry, J. Calvin) On invariance and maximum likelihood estimation. (English summary)

— *see also* **Carpenter, Mark; et al., 93h:62041** *and* **Elfessi, Abdulaziz, 93k:62049**

Patel, S. R. (*with* Bhatt, M. B.) Unbiased estimation in sampling from two two-truncation parameter families when both samples are type II censored. (English summary) **93h:62051**

— (*with* Bhatt, M. B.) Unbiased estimation in doubly type II censored samples from two two-truncation parameter families. **93c:62044**

— (*with* Bhatt, M. B.) On unbiased estimation in two-truncation parameter density. (English and Italian summaries)

— (*with* Bhatt, M. B.) Unbiased estimation of parametric functions in sampling from one- and two-truncation parameter families. (English summary) **93g:62042**

— (*with* Bhatt, M. B.) Unbiased estimation of parametric functions in sampling from two two-truncation parameter families. **93e:62077**

Peddada, Shyamal Das (*with* Khattree, Ravindra) Comparison of estimators of the location parameter using Pitman's closeness criterion. **93b:62038**

Pitman, Edwin J. G. The "closest" estimates of statistical parameters [Proc. Cambridge Philos. Soc. **33** (1937), 212–222; Zbl **16**, 364]. **93g:62043a**

— *see also* **Sen, Pranab Kumar, 93g:62043b**; **Blyth, Colin R., 93g:62043c** *and* **Mason, Robert L., 93g:62043d**

Poirier, Dale J. *see* **Koop, Gary**

Prakasa Rao, B. L. S. Cramér-Rao type integral inequalities for estimators of functions of multidimensional parameter. (English summary) **93h:62052**

Radhakrishna, C. (*with* Dattatreya Rao, A. V.; Anjaneyulu, G. V. S. R.) Estimation of parameters in a two-component mixture generalized gamma distribution.

Rahman, M. S. (*with* Gupta, Rajenda P.) Family of transformed chi-square distributions. (English summary)

Rao, Calyampudi Radhakrishna *see* **Fountain, Robert L.; et al., 93a:62027**

Ritov, Ya'acov Estimating functions in semi-parametric models. **93a:62032**

Rosaiah, K. (*with* Kantam, R. R. L.; Narasimham, V. L.) Optimum linear unbiased estimation of scale parameter by absolute values of order statistics in symmetric distributions. **93b:62039**

Ross, G. J. S. Graphical methods for constructing data sets for which likelihood functions have multiple optima. **93b:62040**

Rubin, Donald B. *see* **Little, Roderick J. A., 93a:62029**

Ruíz Espejo, Mariano Estimation of variance with a systematic sample. (Spanish. English summary)

Sakaguchi, Minoru Bayesian information inequality for estimating the proportion in mixtures of two distributions. (English summary) **93k:62054**

Saleh, A. K. Md. Ehsanes (*with* Sen, Pranab Kumar) Pitman-closeness of some preliminary test and shrinkage estimators. **93f:62033**

— *see also* **Ali, Abdunnabi M., 93b:62035**

Salem, Shawki A. *see* **David, H. T., 93b:62036**

Samawi, Hani Michel *see* **Ahmad, Mohammed Salahuddin**

Santner, Thomas J. *see* **Czado, Claudia**

Searle, Shayle R. (*with* Casella, George; McCulloch, Charles E.) ★ Variance components. **93m:62054**

Selvavel, K. Uniform minimum variance unbiased estimators for bivariate families. **93h:62053**

Sen, Pranab Kumar (*with* Nayak, Tapan K.; Khattree, Ravindra) Comparison of estimators of a dispersion matrix under generalized Pitman nearness criterion. **93a:62033**

— Comments: "The 'closest' estimates of statistical parameters" by E. J. G. Pitman. **93g:62043b**

— The Pitman closeness of statistical estimators: latent years and the renaissance. (English summary) **93i:62022**

— *see also* **Ghosh, Malay, 93d:62035** *and* **Saleh, A. K. Md. Ehsanes, 93f:62033**

Shah, K. R. *see* **Bhattacharya, C. G., 93c:62037**

Shevlyakov, G. L. On the equivariance of the method of moments estimates of location and scale parameters of distributions. (Russian) (*see* **93m:00028**)

Shpak, V. M. *see* **Donchenko, V. S., (93m:60009)**

Singh, Harshinder (*with* Gupta, Rameshwar D.; Misra, Neeraj) Estimation of parameters of an exponential distribution when the parameter space is restricted with an application to two-sample problem. (English summary) **93k:62055**

— *see also* **Gupta, Rameshwar D., 93k:62051**

Singh, Housila Prasad (*with* Katyar, N. P.; Chand, Lal) Estimation of inverse of population mean when the coefficient of variation is known. (English summary)

Singh, N. P. *see* **Hooda, B. K.; et al.**

Singh, Umed *see* **Hooda, B. K.; et al.**

Small, Christopher G. (*with* McLeish, D. L.) Geometrical aspects of efficiency criteria for spaces of estimating functions. **93d:62040**

— *see also* **McLeish, D. L., 93e:62076**

Strauss, David *see* **Arnold, Barry C., 93e:62069**

(Strawderman, William E.) *see* **Ghosh, Malay, 93d:62035**

Subbaiah, Perla (*with* Taam, Winson) Inference on the capability index: C_{pm}. (English summary)

Taam, Winson *see* **Subbaiah, Perla**

Tang, Dei-In (*with* Lin, Shang P.) Extension of the pool-adjacent-violators algorithm. **93d:62041**

Tao, Bo *see* **Wu, Chuan Yi; et al., (93e:62004)**

Teboulle, Marc *see* **Iusem, Alfredo N., 93b:62045**

Tiku, M. L. (*with* Kambo, N. S.) Estimation and hypothesis testing for a new family of bivariate nonnormal distributions.

Tiwari, Ram C. *see* **Kumar, Santosh[2]; et al.**

Tyagi, Ravinder K. *see* **Kumar, Santosh[2]; et al.**

Viveros, R. Conditional inference under incomplete power-series samples. **93a:62034**

Volaufová, Júlia On variance of the two-stage estimator in variance-covariance components model. (English and Slovak summaries) **93m:62055**

Vos, Paul W. Minimum f-divergence estimators and quasi-likelihood functions. (English summary) **93i:62023**

Vuong, Quang H. (*with* Wang, Weiren) Minimum chi-square estimation and tests for model selection. (English summary) **93j:62069**

Wang, Shi An *see* **Jiang, Hong[2]**

Wang, Weiren *see* **Vuong, Quang H., 93j:62069**

Wells, Martin T. ε-solutions of minimization problems in statistics. **93e:62078**

Wu, Chuan Yi (*with* Tao, Bo; Cheng, Ping[1]) Research on some problems of parameter estimation in China. (*see* **93e:62004**)

Wu, J. W. *see* **Cheng, Kuang Fu**

Xu, Wen Yuan *see* **Cheng, Ping[1]**

Yanagimoto, Takemi The Mantel-Haenszel statistics for the extended odds ratio in the negative binomial distribution. (English summary) **93j:62070**

Yeo, Sung Chil On estimating the distributional parameter and the complete sample size from incomplete samples. **93e:62079**

Zhou, Guang Ya (*with* Liu, Jin Quan) The problem of robustness of loss functions. (Chinese. English summary)

Zontek, Stefan *see* **Klonecki, Witold, 93h:62047**

Items listed otherwise than by author

Lecture Notes in Statistics *see* **Nagelkerke, Nico J. D., 93m:62053**

Items with secondary classifications in 62F10

Alam, Khursheed (*with* Kulasekera, K. B.) Truncation error in the expansion of the distribution of a quadratic form. (English summary) **93k:62033**

Ananda, Malwane M. A. *see* **Rukhin, Andrew L., 93c:62016**

Anderson, Dale N. A multivariate Linnik distribution. (English summary) **93e:60032**
Bansal, Naveen K. (*with* Bhandary, Madhusudan) Bayes estimation of number of signals. **93a:62084**
Basak, P. *see* **Lindsay, Bruce G., 93a:62017**
Bhandary, Madhusudan *see* **Bansal, Naveen K., 93a:62084**
Bischoff, Wolfgang Minimax and Γ-minimax estimation for functions of the bounded parameter of a scale parameter family under "L_p-loss". **93f:62008**
Blumenthal, Saul Population size estimation with truncated data: a survey. (English summary) (*see* **93e:62002**)
Bohrer, Robert *see* **Yancey, T. A., (93m:62006**)
Brandwein, Ann Cohen (*with* Strawderman, William E.) Improved estimates of location in the presence of an unknown scale. **93d:62017**
Brockmann, M. (*with* Eichenauer-Herrmann, Jürgen) Gamma-minimax estimation of multinomial probabilities. (English summary) **93f:62009**
Chen, Cathy W. S. Bayesian analysis of bilinear time series models: a Gibbs sampling approach. (English summary)
Chen, Hong Jian The unbiased estimation theory for exponential family. (English summary) **93j:62071**
Chen, Lan Xiang Minimax estimation of the variance of a normal distribution in restricted parameter spaces. (Chinese. English and Chinese summaries) **93m:62028**
Chernov, N. I. (*with* Ososkov, G. A.; Pronzato, L.) 3-dimensional multivertex reconstruction from 2-dimensional tracks observations using likelihood inference. (English summary) **93f:62103**
Chung, Younshik *see* **Dey, Dipak K., 93m:62037**
Cox, D. R. *see* **Ferguson, H.; et al., 93a:62003**
Cressie, Noel Modeling growth with random sets. (English summary) (*see* **93g:62004**)
Das, Kalyan Improved estimation of the ratio of variance components for a balanced one-way random effects model. **93d:62129**
Datta, Gauri Sankar Pitman closeness for hierarchical Bayes predictors in mixed linear models. **93d:62013**
— Some applications of Anderson's inequality to some optimality criteria of the generalized least squares estimator. **93j:62170**
Dembo, Amir (*with* Zeitouni, Ofer) Erratum: "Parameter estimation of partially observed continuous time stochastic processes via the EM algorithm" [Stochastic Process. Appl. **23** (1986), no. 1, 91–113; MR 88h:93068]. **93b:93105**
Desu, M. M. (*with* Raghavarao, Damaraju) ★ Sample size methodology. **93f:62010**
Dey, Dipak K. (*with* Chung, Younshik) Compound Poisson distributions: properties and estimation. (English summary) **93m:62037**
Drygas, Hilmar *see* **Zymślony, Roman, 93c:15003**
Edwards, A. W. F. ★ Likelihood. **93m:62003**
Eichenauer-Herrmann, Jürgen Gamma-minimax estimation in exponential families with quadratic variance functions. **93c:62017**
— *see also* **Brockmann, M., 93f:62009**
Ferguson, H. (*with* Reid, N.; Cox, D. R.) Estimating equations from modified profile likelihood. **93a:62003**
— Asymptotic properties of a conditional maximum-likelihood estimator. (French summary) **93j:62072**
Fortier, Jean-J. Best linear corrector of classification estimates of proportions of objects in several unknown classes. (French summary) **93g:62085**
Fox, Bennett L. (*with* Glasserman, Paul) Estimating derivatives via Poisson's equation. (English summary) **93g:60140**
Glasserman, Paul *see* **Fox, Bennett L., 93g:60140**
He, Zhong Luo Empirical Bayes estimation for parameters of one-dimensional continuous exponential families. (Chinese. English and Chinese summaries) **93m:62020**
Heyde, C. C. (*with* Lin, Y.-X.) Approximate confidence zones in an estimating function context. **93a:62119**
Hürlimann, Werner On parameter orthogonality to the mean. (English summary) **93j:62029**
Imbens, Guido W. An efficient method of moments estimator for discrete choice models with choice-based sampling. (English summary) **93e:62262**
Jin, Chun (*with* Pal, Nabendu) A note on the location parameters of two exponential distributions under order restrictions. **93e:62109**
Johnson, Richard A. (*with* Wu, K. T.) Inferences about correlation structure based on proof loading experiments. **93d:62069**
Jørgensen, Bent (*with* Labouriau, Rodrigo S.) ★ Famílias exponenciais e inferência teórica. (Portuguese) [Exponential families and theoretical inference] **93m:62011**
Khonov, S. A. A maximum likelihood estimate for the sizes of strata of a finite population. (Russian) (*see* **93b:60003**)
Kisenkova, N. A. Estimation of the characteristics of objects and random perturbations by the minimal distance method. (Russian. Russian summary) **93i:93125**
Koutková, Helena On estimable and locally estimable functions in the nonlinear regression model. **93m:62143**
Koutrouvelis, Ioannis A. *see* **Meintanis, Simos, 93h:62095**
Kubáček, Lubomír Equivalent algorithms for estimation in linear model with condition. **93c:62118**
Kulasekera, K. B. *see* **Alam, Khursheed, 93k:62033**
Labouriau, Rodrigo S. *see* **Jørgensen, Bent, 93m:62011**
Landsman, Z. M. (*with* Levit, B. Ya.) Second order minimax estimation: the nuisance parameters and hypoelliptic operators. **93a:62011**
Lee, Youngjo *see* **Nelder, J. A., 93e:62010**
Lehmann, Erich Leo ★ Theory of point estimation. **93c:62003a**
— ★ Теория точечного оценивания. (Russian) [Theory of point estimation] **93c:62003b**
Levit, B. Ya. *see* **Landsman, Z. M., 93a:62011**
Lin, Y.-X. *see* **Heyde, C. C., 93a:62119**
Lindsay, Bruce G. (*with* Basak, P.) On using bivariate moment equations in mixed normal problems. **93a:62017**
Lopuhaä, Hendrik P. Highly efficient estimators of multivariate location with high breakdown point. **93e:62097**
Loukas, S. Some methods of estimation for a trivariate Poisson distribution. (English summary)
(Martínez, José Raúl) *see* **Jørgensen, Bent, 93m:62011**
Mathew, Thomas[1] (*with* Sinha, Bimal Kumar; Sutradhar, Brajendra C.) Improved estimation of error variance in general balanced mixed models. (English summary) **93h:62010**
Mattner, L. Completeness of location families, translated moments, and uniqueness of charges. **93f:60024**
Meintanis, Simos (*with* Koutrouvelis, Ioannis A.) Inference procedures based on the polar coordinates of the empirical characteristic function. (Italian summary) **93h:62095**
Menéndez, María L. (*with* Pardo, Leandro; Morales, Domingo; Salicrú, Miquel) Some statistical applications of (r,s)-directed divergences. (English summary) **93h:62005**
Morales, Domingo *see* **Menéndez, María L.; et al., 93h:62005**
Mukhopadhyay, Nitis Parametric sequential point estimation. (*see* **93g:62102**)
Nakamura, Tsuyoshi Proportional hazards model with covariates subject to measurement error. (English and French summaries) **93i:62089**
Nazin, A. V. On minimax bound for parameter estimation in ball (bias accounting). (English summary) **93k:62019**
Nelder, J. A. (*with* Lee, Youngjo) Likelihood, quasi-likelihood and pseudolikelihood: some comparisons. **93e:62010**
Ososkov, G. A. *see* **Chernov, N. I.; et al., 93f:62103**
Pal, Nabendu *see* **Jin, Chun, 93c:62109**
Pardo, Leandro *see* **Menéndez, María L.; et al., 93h:62005**
Parsian, A. *see* **Sadooghi-Alvandi, S. M., 93h:62011**
Peddada, Shyamal Das (*with* Saxena, K. M. Lal) Minimum norm constrained estimators in randomized response surveys. (English summary) **93g:62020**
Prabhakara Rao, R. *see* **Sarma, P. V. S.; et al.**
(Prokhorov, Yu. V.) *see* **Lehmann, Erich Leo, 93c:62003b**
Pronzato, L. *see* **Chernov, N. I.; et al., 93f:62103**
Rachev, Svetlozar T. (*with* Sen Gupta, Ashis) Geometric stable distributions and Laplace-Weibull mixtures. (English summary) **93k:60040**
Raghavarao, Damaraju *see* **Desu, M. M., 93f:62010**
Rao, K. S. Srinivasa *see* **Sarma, P. V. S.; et al.**
Reid, N. *see* **Ferguson, H.; et al., 93a:62003**
Rilstone, Paul Semiparametric IV estimation with parameter dependent instruments. (English summary) **93j:62249**
Roeder, Kathryn Semiparametric estimation of normal mixture densities. **93e:62116**
Rukhin, Andrew L. (*with* Sinha, Bimal Kumar) Decision-theoretic estimation of the product of gamma scales and generalized variance. **93g:62014**
— Generalized Bayes estimators of a normal discriminant function. **93c:62015**
— Linear estimators of a location parameter and canonical parameter estimators for a Poisson distribution. **93g:62015**
— (*with* Ananda, Malwane M. A.) Risk behavior of variance estimators in multivariate normal distribution. **93c:62016**
— Estimating the noncentrality parameter of a t-distribution. (English summary) **93j:62016**
Sadooghi-Alvandi, S. M. (*with* Parsian, A.) Estimation of the binomial parameter n using a LINEX loss function. **93h:62011**
Salicrú, Miquel *see* **Menéndez, María L.; et al., 93h:62005**
Sarma, P. V. S. (*with* Rao, K. S. Srinivasa; Prabhakara Rao, R.) On a family of bimodal distributions. (English summary)
Saxena, K. M. Lal *see* **Peddada, Shyamal Das, 93g:62020**
Schäbe, H. A nonrecursive estimator for the Cox model. **93c:62167**
Sen, Pranab Kumar *see* **Sengupta, Debapriya, 93m:62025**
Sen Gupta, Ashis *see* **Rachev, Svetlozar T., 93k:60040**
Sengupta, Debapriya (*with* Sen, Pranab Kumar) Shrinkage estimation in a restricted parameter space. (English summary) **93m:62025**
Shemyakin, A. E. Multidimensional integral inequalities of Rao-Cramér type for parametric families with singularities. (Russian) **93d:62047**
Singh, Harshinder *see* **Vijayasree, G., 93b:62013**
Singh, Radhey S. (*with* Wei, Lai Sheng) Empirical Bayes with rates and best rates of convergence in $u(x)C(\theta)\exp(-x/\theta)$-family: estimation case. (English summary) **93k:62015**
Sinha, Bimal Kumar *see* **Rukhin, Andrew L., 93g:62014** *and* **Mathew, Thomas[1]; et al., 93h:62010**
Song, Ruiguang On estimating the mean of the selected uniform population. (English summary) **93h:62039**
Steel, S. J. *see* **Venter, J. H., 93j:62178**
Strawderman, William E. *see* **Brandwein, Ann Cohen, 93d:62017**
Sutradhar, Brajendra C. *see* **Mathew, Thomas[1]; et al., 93h:62010**
Tanner, Martin A. ★ Tools for statistical inference. **93b:62002**
Tappin, Linda Unbiased estimation of the parameter of a selected binomial population. **93e:62066**
Trenkler, Götz Mean square error matrix comparisons between biased restricted least squares estimators. (English summary) **93m:62159**
Tu, Renjin (*with* Zheng, Quan[1]) Integral global optimization method in statistical applications. (English summary) **93k:90064**
Vellaisamy, P. Inadmissibility results for the selected scale parameters. (English summary) **93m:62026**
Venter, J. H. (*with* Steel, S. J.) Some contributions to selection and estimation in the normal linear model. (English summary) **93j:62178**
Vijayasree, G. (*with* Singh, Harshinder) Simultaneous estimation of two ordered exponential parameters. **93b:62013**
Wasan, M. T. *see* **Wu, Tiee-Jian, 93a:62114**
Weba, Michael A note on the estimation of nondifferentiable functions of multinomial probabilities. (English summary) **93j:62110**
Wei, Lai Sheng *see* **Singh, Radhey S., 93k:62015**
White, Halbert "Some asymptotic results for learning in single hidden-layer feedforward network models" [J. Amer. Statist. Assoc. **84** (1989), no. 408, 1003–1013; MR 92e:62119]. **93m:62144**
Wieczorkowski, Robert (*with* Zieliński, Ryszard) Minimax estimation of binomial probability with entropy loss function. **93i:62009**
Wimmer, Gejza Uniformly best linear-quadratic estimator in a special structure of the regression model. (English summary) **93m:62161**

Wu, K. T. *see* **Johnson, Richard A., 93d:62069**
Wu, Tiee-Jian (*with* Wasan, M. T.) Some results on sequential unbiased estimation of a binomial parameter. **93a:62114**
Yanagimoto, Takemi Estimating a model through the conditional MLE. **93c:62169**
Yancey, T. A. (*with* Bohrer, Robert) Risk and power for inequality pre-test estimators: general case in two dimensions. (English summary) (*see* **93m:62006**)
Yatracos, Yannis G. On prediction and mean squared error. (English and French summaries) **93k:62020**
Zeitouni, Ofer *see* **Dembo, Amir, 93b:93105**
Zheng, Quan[1] *see* **Tu, Renjin, 93k:90064**
Zieliński, Ryszard *see* **Wieczorkowski, Robert, 93i:62009**
Zyms̈lony, Roman (*with* Drygas, Hilmar) Jordan algebras and Bayesian quadratic estimation of variance components. **93c:15003**

62F11 Small sample properties of estimators

Chen, Hong Jian The unbiased estimation theory for exponential family. (English summary) **93j:62071**
Choi, In (*with* Phillips, Peter C. B.) Asymptotic and finite sample distribution theory for IV estimators and tests in partially identified structural equations. **93e:62080**
Heyde, C. C. On best asymptotic confidence intervals for parameters of stochastic processes. **93c:62045**
Kushary, Debashis *see* **Pal, Nabendu, 93g:62044**
Pal, Nabendu (*with* Kushary, Debashis) On order restricted location parameters of two exponential distributions. **93g:62044**
Phillips, Peter C. B. *see* **Choi, In, 93e:62080**
Radavičius, M. From asymptotic efficiency in minimax sense to Bahadur efficiency. (English summary) **93k:62056**
Sarkar, Sanat K. On estimating the common mean of several normal populations under the Pitman closeness criterion. **93d:62042**

Items with secondary classifications in 62F11

Bhatt, M. B. *see* **Patel, S. R., 93c:62044**
Blyth, Colin R. Comments: "The 'closest' estimates of statistical parameters" by E. J. G. Pitman. **93g:62043c**
DiCiccio, Thomas J. (*with* Efron, Bradley) More accurate confidence intervals in exponential families. (English summary) **93k:62070**
Efron, Bradley *see* **DiCiccio, Thomas J., 93k:62070**
Faraway, Julian J. Smoothing in adaptive estimation. **93b:62049**
Hendriks, Harrie A Cramér-Rao type lower bound for estimators with values in a manifold. **93b:62084**
Jin, Kun Empirical smoothing parameter selection in adaptive estimation. (English summary) **93m:62060**
Lehmann, Erich Leo ★ Theory of point estimation. **93c:62003a**
— ★ Теория точечного оценивания. (Russian) [Theory of point estimation] **93c:62003b**
Mason, Robert L. Comments: "The 'closest' estimates of statistical parameters" by E. J. G. Pitman. **93g:62043d**
Miao, Bai Qi Some methods of estimation of slope change points. (*see* **93b:00022**)
Patel, S. R. (*with* Bhatt, M. B.) Unbiased estimation in doubly type II censored samples from two two-truncation parameter families. **93c:62044**
Pitman, Edwin J. G. The "closest" estimates of statistical parameters [Proc. Cambridge Philos. Soc. **33** (1937), 212–222; Zbl **16**, 364]. **93g:62043a**
— *see also* **Sen, Pranab Kumar, 93g:62043b**; **Blyth, Colin R., 93g:62043c** *and* **Mason, Robert L., 93g:62043d**
Plante, André An inclusion-consistent solution to the problem of absurd confidence statements. I. Consistent exact confidence-interval estimation. (French summary) **93j:62084**
Prakasa Rao, B. L. S. Cramér-Rao type integral inequalities for estimators of functions of multidimensional parameter. (English summary) **93h:62052**
(Prokhorov, Yu. V.) *see* **Lehmann, Erich Leo, 93c:62003b**
Sen, Pranab Kumar (*with* Sengupta, Debapriya) On characterizations of Pitman closeness of some shrinkage estimators. **93c:62019**
— Comments: "The 'closest' estimates of statistical parameters" by E. J. G. Pitman. **93g:62043b**
Sengupta, Debapriya *see* **Sen, Pranab Kumar, 93c:62019**
Shao, Jun[1] *see* **Wang, Song Gui, 93j:62179**
Sugiura, Nariaki Entropy loss and a class of improved estimators for powers of the generalized variance. (English summary) **93c:62101**
Wang, Song Gui (*with* Shao, Jun[1]) Constrained Kantorovich inequalities and relative efficiency of least squares. (English summary) **93j:62179**

62F12 Asymptotic properties of estimators

Abd-El-Hakim, Nagi S. *see* **Al-Hussaini, Essam K., 93h:62054**
Akahira, Masafumi Second order asymptotic comparison of the discretized likelihood estimator with asymptotically efficient estimators in the double exponential case. (Italian summary) **93e:62081**
— (*with* Takeuchi, Kei) Asymptotic efficiency of estimators for a location parameter family of densities with the bounded support. **93b:62041**
Al-Hussaini, Essam K. (*with* Abd-El-Hakim, Nagi S.) Efficiency of schemes of sampling from the inverse Gaussian-Weibull mixture model. (English summary) **93h:62054**
Bai, Zhi Dong (*with* Chen, Xi Ru; Krishnaiah, P. R.; Wu, Yue Hua; Zhao, Lin Cheng) Strong consistency of maximum likelihood parameter estimation of superimposed exponential signals in noise. **93b:62042**
Bhattacharyya, Gouri K. (*with* Ghosh, Jayanta K.) Asymptotic properties of estimators in a binomial reliability growth model and its continuous-time analog. **93b:62043**
Braunstein, Samuel L. How large a sample is needed for the maximum likelihood estimator to be approximately Gaussian?
Bull, Shelley B. (*with* Donner, Allan) A characterization of the efficiency of individualized logistic regressions. (English and French summaries)
Chen, Xi Ru *see* **Bai, Zhi Dong; et al., 93b:62042**
Cormack, R. M. (*with* Jupp, P. E.) Inference for Poisson and multinomial models for capture-recapture experiments. **93a:62035**
Dollinger, Michael B. (*with* Staudte, Robert G.) Influence functions of iteratively reweighted least squares estimators. **93k:62057**
Donner, Allan *see* **Bull, Shelley B.**
Dupačová, Jitka Epi-consistency in restricted regression models. The case of a general convex fitting function. (English summary) **93k:62058**
Dzhaparidze, K. O. (*with* Valkeila, Esko) On large deviation probabilities for the maximum likelihood estimators. **93g:62045**
Ebrahimi, Nader On estimating change point in a mean residual life function. (English summary) **93k:62059**
Ellis, Richard S. (*with* Wang, Kong Ming) Limit theorems for maximum likelihood estimators in the Curie-Weiss-Potts model. **93c:62046**
Ferguson, H. Asymptotic properties of a conditional maximum-likelihood estimator. (French summary) **93j:62072**
Fountain, Robert L. Pitman closeness comparison of linear estimators: a canonical form. **93a:62036**
Gerencsér, László (*with* Vágó, Zsuzsanna) A strong approximation theorem for parameter estimators in continuous time. **93c:62047**
Ghosh, Jayanta K. *see* **Bhattacharyya, Gouri K., 93b:62043**
Gill, Richard D. *see* **Heesterman, C. C., 93h:62055**
Glynn, Peter W. (*with* Whitt, Ward) The asymptotic efficiency of simulation estimators. (English summary)
Heesterman, C. C. (*with* Gill, Richard D.) A central limit theorem for M-estimators by the von Mises method. (English summary) **93h:62055**
Hirji, Karim F. *see* **Salvan, Alessandra**
Inada, Kôichi (*with* Kim, Hea-Jung) A minimum discrimination information shrinkage to interval estimator of the normal mean. **93a:62037**
Jeon, Jong Woo *see* **Park, Byeong U.; et al., 93d:62043**
Jupp, P. E. *see* **Cormack, R. M., 93a:62035**
Kallianpur, Gopinath (*with* Selukar, R. S.) Parameter estimation in linear filtering. **93a:62038**
Kim, Hea-Jung *see* **Inada, Kôichi, 93a:62037**
Kim, Woo Chul *see* **Park, Byeong U.; et al., 93d:62043**
Krishnaiah, P. R. *see* **Bai, Zhi Dong; et al., 93b:62042**
Lazrieva, N. L. (*with* Torondzhadze, T. A.) On stable M-estimators in the partial likelihood scheme. (English summary) **93k:62060**
Lee, Lung Fei Amemiya's generalized least squares and tests of overidentification in simultaneous equation models with qualitative or limited dependent variables. (English summary) **93j:62073**
Lee, Youngjo (*with* Park, Byeong U.) A short note on superefficiency. **93g:62046**
Mosyagin, V. E. An estimate for the rate of convergence of the distribution of the maximum likelihood process in the nonregular case. (Russian) **93c:62048**
Nikulin, M. S. A remark on the converse of Laplace's theorem. **93c:62049**
O'Neill, Terence J. Error rates of non-Bayes classification rules and the robustness of Fisher's linear discriminant function. **93e:62082**
Park, Byeong U. (*with* Jeon, Jong Woo; Song, Moon S.; Kim, Woo Chul) Local asymptotic normality for independent not identically distributed observations in semiparametric models. **93d:62043**
— *see also* **Lee, Youngjo, 93g:62046**
Pepe, Margaret Sullivan Inference using surrogate outcome data and a validation sample. (English summary) **93j:62074**
Peters, Dawn *see* **Pierce, Donald A., 93f:62034**
Phillips, Peter C. B. A shortcut to LAD estimator asymptotics. **93d:62044**
Pierce, Donald A. (*with* Peters, Dawn) Practical use of higher order asymptotics for multiparameter exponential families. (English summary) **93f:62034**
Pollard, David Bracketing methods in statistics and econometrics. **93m:62056**
Radavičius, M. Some remarks on asymptotic efficiency in Bahadur sense of maximum likelihood estimator. **93e:62083**
Rao, Calyampudi Radhakrishna (*with* Zhao, Lin Cheng) On the consistency of M-estimate in a linear model obtained through an estimating equation. **93h:62056**
Salvan, Alessandra (*with* Hirji, Karim F.) Asymptotic equivalence of conditional median unbiased and maximum likelihood estimators in exponential families. (English and Italian summaries)
Samanta, Tapas Local asymptotic minimax estimation in nonregular case. (English summary) **93c:62050**
Sapra, Sunil K. Asymptotic properties of a quasi-maximum likelihood estimator in truncated regression model with serial correlation. (English summary) **93h:62057**
Scarf, P. A. Estimation for a four parameter generalized extreme value distribution. (English summary)
Selukar, R. S. *see* **Kallianpur, Gopinath, 93a:62038**
Silvapulle, Mervyn J. On limited dependent variable models: maximum likelihood estimation and test of one-sided hypothesis. **93e:62084**
Song, Moon S. *see* **Park, Byeong U.; et al., 93d:62043**
Staudte, Robert G. *see* **Dollinger, Michael B., 93k:62057**
Sweeting, Trevor J. Asymptotic ancillarity and conditional inference for stochastic processes. **93b:62044**
— Parameter-based asymptotics. (English summary) **93j:62075**
Takeuchi, Kei *see* **Akahira, Masafumi, 93b:62041**
Torondzhadze, T. A. *see* **Lazrieva, N. L., 93k:62060**
Vágó, Zsuzsanna *see* **Gerencsér, László, 93c:62047**
Valkeila, Esko *see* **Dzhaparidze, K. O., 93g:62045**
Vorlíčková, Dana On the asymptotic efficiency of estimates of parameters of regular densities. **93a:62039**
Wang, Kong Ming *see* **Ellis, Richard S., 93c:62046**
Whitt, Ward *see* **Glynn, Peter W.**
Wong, Wing Hung On asymptotic efficiency in estimation theory. **93k:62061**
Wu, Yue Hua *see* **Bai, Zhi Dong; et al., 93b:62042**
Zhao, Lin Cheng *see* **Bai, Zhi Dong; et al., 93b:62042** *and* **Rao, Calyampudi Radhakrishna,**

93h:62056

Items with secondary classifications in 62F12

Amato, David A. *see* **Lee, Eric W.; et al., (93b:62005)**
Anděl, Jiří Nonnegative multivariate AR(1) processes. **93i:62077**
Angus, John E. Limit laws in a stochastic model for profit from units sold under pro rata warranty. (English summary) **93h:62190**
Babu, Gutti Jogesh (*with* Bai, Zhi Dong) Edgeworth expansions for errors-in-variables models. (English summary) **93j:62168**
Bai, Zhi Dong *see* **Babu, Gutti Jogesh, 93j:62168** *and* **Chen, Xi Ru; et al., 93m:62148**
Berred, Mohamed On record values and the exponent of a distribution with regularly varying upper tail. **93h:60079**
Bhattacharyya, B. B. (*with* Richardson, Gary D.) Parameter estimation in nonlinear regression. **93c:62111**
— (*with* Otsuka, Y.; Richardson, Gary D.) Strong consistency in nonlinear regression with multiplicative error. (English summary) **93i:62056**
— (*with* Richardson, Gary D.) Strong consistency of a sieve estimator for the variance in nonlinear regression. **93g:62086**
Boutahar, Mohamed Distribution asymptotique de l'estimateur des moindres carrés. Cas des modèles ARX(p,s) instables. (English summary) [Asymptotic distribution of least-squares estimates in unstable ARX(p,s) models] **93e:62241**
Brockwell, Peter J. (*with* Liu, Jian[3]) Estimating the noise parameters from observations of a linear process with stable innovations. (English summary) **93j:62220**
Bucklew, James A. ★ Large deviation techniques in decision, simulation, and estimation. **93a:60038**
Chen, Xi Ru (*with* Wu, Yue Hua) On consistency of minimum L_1 norm estimates in linear models. (*see* **93b:60004**)
— On a problem of existence of consistent estimate. **93m:62147**
— (*with* Bai, Zhi Dong; Zhao, Lin Cheng; Wu, Yue Hua) Consistency of minimum L_1-norm estimates in linear models. **93m:62148**
Cheng, Ping[1] *see* **Wu, Chuan Yi; et al., (93e:62004)**
Chiu, Shean-Tsong Bandwidth selection for kernel density estimation. **93a:62051**
Choi, In (*with* Phillips, Peter C. B.) Asymptotic and finite sample distribution theory for IV estimators and tests in partially identified structural equations. **93e:62080**
Comets, Francis (*with* Gidas, Basilis) Asymptotics of maximum likelihood estimators for the Curie-Weiss model. **93c:62038**
— On consistency of a class of estimators for exponential families of Markov random fields on the lattice. **93c:82024**
Csörgő, Sándor (*with* Viharos, László) Asymptotic distributions for vectors of power sums. **93i:60040**
Datta, Somnath (*with* McCormick, William P.) Bootstrap for a finite state Markov chain based on i.i.d. resampling. (English summary) **93k:62171**
Davis, Richard Alan (*with* Knight, Keith; Liu, Jian[3]) M-estimation for autoregressions with infinite variance. **93c:62145**
De Souza, Geraldo Soares *see* **Gallant, A. Ronald, 93d:62174**
DiCiccio, Thomas J. (*with* Efron, Bradley) More accurate confidence intervals in exponential families. (English summary) **93k:62070**
Donald, Stephen G. (*with* Paarsch, Harry J.) Piecewise pseudo-maximum likelihood estimation in empirical models of auctions. (English summary) **93i:90036**
Dorogovtsev, A. Ya. Consistency of the least squares estimator of an infinite-dimensional parameter. (Russian. Russian summary) **93h:62119**
Efron, Bradley *see* **DiCiccio, Thomas J., 93k:62070**
Fei, W. *see* **Moser, B. K., 93a:62112**
Fenstad, Grete *see* **Hjort, Nils Lid, 93f:60029**
Fraser, D. A. S. Statistical inference: likelihood to significance. **93c:62006**
Gallant, A. Ronald (*with* De Souza, Geraldo Soares) On the asymptotic normality of Fourier flexible form estimates. **93d:62174**
Gart, John J. Pooling 2×2 tables: asymptotic moments of estimators. **93a:62088**
Gerencsér, László Rate of convergence of recursive estimators. (English summary) **93i:93124**
Gidas, Basilis *see* **Comets, Francis, 93c:62038**
Gumpertz, Marcia L. (*with* Pantula, Sastry G.) Nonlinear regression with variance components. **93c:62112**
Henna, Jōgi An estimator of the number of components of finite mixtures of discrete distributions. **93c:62039**
Hjort, Nils Lid (*with* Fenstad, Grete) On the last time and the number of times an estimator is more than ε from its target value. **93f:60029**
Honda, Toshio Construction of a confidence interval by triple sampling. (English summary) **93j:62200**
Huang, Wên T'ao (*with* Pao, Kuan Min) Minimum distance estimations in a switching regression model. (English summary) **93f:62091**
Judge, J. *see* **Mukhopadhyay, Nitis, 93j:62057**
Kadiyala, K. R. (*with* Oberhelman, H. Dennis) Optimizing in the class of Fuller modified limited information maximum likelihood estimators. (English summary) **93g:62041**
Kakosyan, A. V. (*with* Klebanov, L. B.; Melamed, Joseph A.) ★ Нелинейное статистическое оценивание параметров линейных регрессионных схем. (Russian) [Nonlinear statistical estimation of the parameters of linear regression schemes] **93d:62039**
Kasahara, Yuji (*with* Maejima, Makoto) Limit theorems for trimmed sums. (English summary) **93k:60056**
Kharin, Yu. S. Asymptotic analysis of the robustness of minimum contrast estimates. (Russian) **93e:62095**
Klebanov, L. B. *see* **Kakosyan, A. V.; et al., 93d:62039**
Knight, Keith *see* **Davis, Richard Alan; et al., 93c:62145**
Kourouklis, Stavros Bahadur efficiency of likelihood ratio and related tests in nonregular models. **93e:62074**
Lee, Eric W. (*with* Wei, L. J.; Amato, David A.) Cox-type regression analysis for large numbers of small groups of correlated failure time observations. (English summary) (*see* **93b:62005**)
Lee, Lung Fei Semiparametric nonlinear least-squares estimation of truncated regression models. **93c:62119**
Lehmann, Erich Leo ★ Theory of point estimation. **93c:62003a**
— ★ Теория точечного оценивания. (Russian) [Theory of point estimation] **93c:62003b**
Leroux, Brian G. Consistent estimation of a mixing distribution. (English summary) **93i:62033**
(Leurgans, Sue) *see* **Lee, Eric W.; et al., (93b:62005)**
Li, Gui Bin Estimates of orders and parameters in general ARMA models. (English summary) **93i:62082**
Lien, Da-Hsiang Donald (*with* Rearden, David) On the information content of partial observations. (English summary) **93h:62122**
Liu, Jian[3] *see* **Davis, Richard Alan; et al., 93c:62145** *and* **Brockwell, Peter J., 93j:62220**
Lütkepohl, Helmut (*with* Poskitt, D. S.) Estimating orthogonal impulse responses via vector autoregressive models. **93e:62236**
Maejima, Makoto *see* **Kasahara, Yuji, 93k:60056**
Maiboroda, R. E. Nonparametric detection of a change point based on observations with error. (Russian. Ukrainian summary) **93a:62030**
McCormick, William P. *see* **Datta, Somnath, 93k:62171**
Melamed, Joseph A. *see* **Kakosyan, A. V.; et al., 93d:62039**
Mel'nikov, A. V. (*with* Novikov, A. A.) Statistical inferences for semimartingale regression models. **93a:62121**
Mishra, M. N. (*with* Prakasa Rao, B. L. S.) Bounds for the equivalence of Bayes and maximum likelihood estimators for a class of diffusion processes. **93d:62156**
Moser, B. K. (*with* Fei, W.) A new sequential design based on the Robbins-Monro procedure. **93a:62112**
Mukhopadhyay, Nitis (*with* Judge, J.) Three-stage procedures for selecting the largest normal mean. (English summary) **93j:62057**
Nagelkerke, Nico J. D. ★ Maximum likelihood estimation of functional relationships. **93m:62053**
Novikov, A. A. *see* **Mel'nikov, A. V., 93a:62121**
Oberhelman, H. Dennis *see* **Kadiyala, K. R., 93g:62041**
Otsuka, Y. *see* **Bhattacharyya, B. B.; et al., 93i:62056**
Paarsch, Harry J. *see* **Donald, Stephen G., 93i:90036**
Pantula, Sastry G. *see* **Gumpertz, Marcia L., 93c:62112**
Pao, Kuan Min *see* **Huang, Wên T'ao, 93f:62091**
Pázman, Andrej Curvatures and the distribution of the maximum likelihood estimator in nonlinear exponential models. **93h:62020**
Phillips, Peter C. B. *see* **Choi, In, 93e:62080**
Poskitt, D. S. *see* **Lütkepohl, Helmut, 93e:62236**
Pötscher, Benedikt M. (*with* Prucha, Ingmar R.) Basic structure of the asymptotic theory in dynamic nonlinear econometric models. II. Asymptotic normality. **93e:62263**
Powell, James L. Estimation of monotonic regression models under quantile restrictions. **93j:62165**
Prakasa Rao, B. L. S. Asymptotic theory of weighted maximum likelihood estimation for growth models. **93e:62223**
— *see also* **Mishra, M. N., 93d:62156**
(Prokhorov, Yu. V.) *see* **Lehmann, Erich Leo, 93c:62003b**
Prucha, Ingmar R. *see* **Pötscher, Benedikt M., 93e:62263**
Rearden, David *see* **Lien, Da-Hsiang Donald, 93h:62122**
Richardson, Gary D. *see* **Bhattacharyya, B. B., 93c:62111; 93g:62086** *and* **93i:62056**
Rilstone, Paul Semiparametric IV estimation with parameter dependent instruments. (English summary) **93j:62249**
Romanazzi, Mario Jackknife estimation of the eigenvalues of the covariance matrix. (English summary)
Stoffer, David S. (*with* Wall, Kent D.) Bootstrapping state-space models: Gaussian maximum likelihood estimation and the Kalman filter. **93a:62129**
Stone, Charles J. Asymptotics for doubly flexible logspline response models. **93f:62060**
Tao, Bo *see* **Wu, Chuan Yi; et al., (93e:62004)**
Tugnait, Jitendra K. Stochastic system identification with noisy input using cumulant statistics. **93f:93131**
van der Vaart, A. W. (*with* Wellner, Jon A.) Existence and consistency of maximum likelihood in upgraded mixture models. (English summary) **93j:62140**
Viharos, László *see* **Csörgő, Sándor, 93i:60040**
Wall, Kent D. *see* **Stoffer, David S., 93a:62129**
Wei, L. J. *see* **Lee, Eric W.; et al., (93b:62005)**
Wellner, Jon A. *see* **van der Vaart, A. W., 93j:62140**
Wu, Chuan Yi (*with* Tao, Bo; Cheng, Ping[1]) Research on some problems of parameter estimation in China. (*see* **93e:62004**)
Wu, Yue Hua *see* **Chen, Xi Ru; et al., 93m:62148** *and* **(93b:60004)**
Xu, Bing Laws of the iterated logarithm for estimators for regression functions with randomly censored data. (Chinese) **93i:62057**
Yoshida, Nakahiro Asymptotic expansions of maximum likelihood estimators for small diffusions via the theory of Malliavin-Watanabe. **93k:62032**
Zhao, Lin Cheng *see* **Chen, Xi Ru; et al., 93m:62148**
Zvára, Karel Consistency of an estimate in linear regression with nonnegative errors. **93f:62095**

Items listed otherwise than by author

Lecture Notes in Statistics *see* **Nagelkerke, Nico J. D., 93m:62053**

62F15 Bayesian inference

Achcar, Jorge Alberto A Bayesian approach in the detection of outliers for normal and Weibull distributions. (English and Portuguese summaries)
Albert, James A Bayesian analysis of a Poisson random effects model for home run hitters. (English summary)
Al Yousef, M. H. *see* **Shalaby, O. A.**
Bagchi, Parthasarathy (*with* Kadane, Joseph B.) Laplace approximation for curved surfaces. (English summary) **93i:62024**
Barry, Daniel (*with* Hartigan, J. A.) A Bayesian analysis for change point problems. (English summary) **93k:62062**
Bayarri, M. J. (*with* DeGroot, M. H.) What Bayesians expect of each other. **93k:62063**

Bera, Anil K. (*with* Machado, José A. F.) Estimation of systematic risk using Bayesian analysis with hierarchical and nonnormal priors. (English summary) (*see* **93m:62006**)
Berger, James O. (*with* Bernardo, Jose M.) Reference priors in a variance components problem. (English summary) **93j:62076**
— (*with* Bernardo, Jose M.) Ordered group reference priors with application to the multinomial problem. **93c:62051**
— *see also* **Fan, Tsai Hung**, **93k:62065**
Bernardo, Jose M. *see* **Berger, James O.**, **93c:62051** *and* **93j:62076**
Bolfarine, Heleno (*with* Leite, José Galvão; Rodrigues, Josemar) On the estimation of the size of a finite and closed population. (English summary) **93k:62064**
Boys, Richard J. (*with* Glazebrook, Kevin D.) A robust design of a screen for a binary response. (English summary) **93j:62077**
Brorsen, B. Wade Approximation of Bayesian posterior densities in the heteroskedastic error regression model. **93a:62040**
Brunner, Lawrence J. Bayesian nonparametric methods for data from a unimodal density. **93e:62085**
Casals, M. R. Bayesian testing of fuzzy parametric hypotheses from fuzzy information. (English and French summaries)
Chang, Theodore *see* **Eaves, D. M.**, **93e:62086**
Christensen, Ronald (*with* Utts, Jessica) Bayesian resolution of the "exchange paradox". (English summary)
Crowder, Martin Bayesian priors based on a parameter transformation using the distribution function. (English summary) **93j:62078**
Cubeddu, C. A Bayesian estimate for the one-parameter exponential family. (Italian summary) **93a:62041**
Datta, Gauri Sankar (*with* Ghosh, Malay) Asymptotic optimality of hierarchical Bayes estimators and predictors. **93c:62052**
DeGroot, M. H. *see* **Bayarri, M. J.**, **93k:62063**
Dey, Dipak K. *see* **Gelfand, Alan E.**, **93a:62042**
Di Bacco, Mario Aggregation of probability assessments: a (not impartial) review. (Italian) (*see* **93m:62007**)
Dickey, James M. *see* **Garthwaite, Paul H.**, **93k:62066**
Duong, Quang Phuc *see* **Pham-Gia, T.; et al.**, **93c:62055**
Eaves, D. M. (*with* Chang, Theodore) Priors for ordered conditional variance and vector partial correlation. **93e:62086**
Fan, Tsai Hung (*with* Berger, James O.) Behaviour of the posterior distribution and inferences for a normal mean with t prior distributions. **93k:62065**
Fong, Duncan K. H. A Bayesian approach to the estimation of the largest normal mean. (English summary) **93j:62079**
Garthwaite, Paul H. (*with* Dickey, James M.) Elicitation of prior distributions for variable-selection problems in regression. (English summary) **93k:62066**
Geisser, Seymour Bayesian perturbation diagnostics and robustness. (English summary) **93i:62025**
— On the curtailment of sampling. (English and French summaries) **93h:62058**
Gelfand, Alan E. (*with* Dey, Dipak K.) On Bayesian robustness of contaminated classes of priors. **93a:62042**
— (*with* Smith, Adrian F. M.; Lee, Tai-Ming) Bayesian analysis of constrained parameter and truncated data problems using Gibbs sampling.
Ghosh, Malay Constrained Bayes estimation with applications. **93c:62053**
— *see also* **Datta, Gauri Sankar**, **93c:62052**
Glazebrook, Kevin D. *see* **Boys, Richard J.**, **93j:62077**
Gull, Stephen F. *see* **Skilling, John**, (**93g:62004**)
Hartigan, J. A. *see* **Barry, Daniel**, **93k:62062**
de la Horra Navarro, Julián Bayesian confidence estimation: an alternative approach. **93b:62045**
Ibrahim, Joseph G. (*with* Laud, Purushottam W.) On Bayesian analysis of generalized linear models using Jeffreys's prior. **93d:62045**
Johnson, Valen E. A technique for estimating marginal posterior densities in hierarchical models using mixtures of conditional densities. (English summary) **93m:62057**
Kadane, Joseph B. *see* **Wasserman, Larry**, **93c:62058**; **Bagchi, Parthasarathy**, **93i:62024** *and* **Verdinelli, Isabella**
Kass, Robert E. (*with* Vaidyanathan, Suresh K.) Approximate Bayes factors and orthogonal parameters, with application to testing equality of two binomial proportions. **93k:62067**
Kunte, Sudhakar Jeffreys-Lindley paradox and a related problem. (English summary) **93j:62080**
Ladalla, Joseph N. A closed form approximation to the posterior distribution when sampling from multiparameter exponential family models. (English summary) **93e:62087**
Laud, Purushottam W. *see* **Ibrahim, Joseph G.**, **93d:62045**
Lavine, Michael (*with* Wasserman, Larry; Wolpert, Robert L.) Bayesian inference with specified prior marginals. **93f:62035**
— Sensitivity in Bayesian statistics: the prior and the likelihood. **93g:62047**
Leamer, Edward E. Bayesian elicitation diagnostics. **93c:62054**
Lee, Tai-Ming *see* **Gelfand, Alan E.; et al.**
Leite, José Galvão *see* **Bolfarine, Heleno; et al.**, **93k:62064**
Li, Bing *see* **Wong, Wing Hung**, **93f:62038**
Liu, W. Predictive screening. (English summary) **93k:62068**
Lo, Albert Y. Bayesian bootstrap clones and a biometry function. (English summary) **93h:62059**
Machado, José A. F. *see* **Bera, Anil K.**, (**93m:62006**)
Mazioum, Reda Ibrahim Limiting the risk of the Bayes estimator for the binomial distribution. (English summary) **93j:62081**
McCulloch, Robert E. (*with* Rossi, Peter E.) Bayes factors for nonlinear hypotheses and likelihood distributions. (English summary)
Pandey, B. N. (*with* Rai, Omkar) Bayesian estimation of mean and square of mean of normal distribution using LINEX loss function. (English summary) **93i:62026**
Pham-Gia, T. (*with* Turkkan, N.; Duong, Quang Phuc) Using the mean deviation in the elicitation of the prior distribution. (English summary) **93c:62055**
Polasek, Wolfgang *see* **Pötzelberger, Klaus**, **93d:62046**
Pötzelberger, Klaus (*with* Polasek, Wolfgang) Robust HPD regions in Bayesian regression models. **93d:62046**
Prakasa Rao, B. L. S. On Cramér-Rao type integral inequalities. **93f:62036**
Rai, Omkar *see* **Pandey, B. N.**, **93i:62026**
Ramakrishnan, V. *see* **Viana, M. A. G.**
Reschenhofer, E. Bayesian derivation of Akaike's information criterion. (English and Italian summaries)
Rodrigues, Josemar *see* **Bolfarine, Heleno; et al.**, **93k:62064**
Rossi, Peter E. *see* **McCulloch, Robert E.**
Ruggeri, Fabrizio Robust Bayesian analysis given a lower bound on the probability of a set. **93f:62037**
Severini, Thomas A. A comparison of the maximum likelihood estimator and the posterior mean in the single-parameter case. **93b:62046**
Shalaby, O. A. (*with* Al Yousef, M. H.) Bayesian analysis of the parameters of a doubly truncated Weibull distribution. (English summary)
— Bayesian inference in truncated and censored exponential distribution and reliability estimation. (English summary)
Shanmugam, Ramalingam Incidence rate restricted Poissonness. (English summary) **93e:62088**
— Quantifying prior opinion in length-biased linear mean natural exponential family. (English summary) (*see* **93e:62002**)
Shao, Jun[1] Empirical Bayes estimation of heteroscedastic variances. (English summary) **93j:62082**
Shemyakin, A. E. Multidimensional integral inequalities of Rao-Cramér type for parametric families with singularities. (Russian) **93d:62047**
Skilling, John (*with* Gull, Stephen F.) Bayesian maximum entropy image reconstruction. (English summary) (*see* **93g:62004**)
Smith, Adrian F. M. *see* **Gelfand, Alan E.; et al.** *and* **Stephens, D. A.**, (**93m:62004**)
Stephens, D. A. (*with* Smith, Adrian F. M.) Bayesian edge-detection images via change-point methods. (English summary) (*see* **93m:62004**)
Swartz, T. (*with* Villegas, Cesareo) Posterior probability and conditional coverage. **93c:62056**
Trybuła, Stanisław Minimax prediction of the difference of multinomial random variables. **93c:62057**
— Some problems of prediction of the difference of random variables. **93d:62048**
Turkkan, N. *see* **Pham-Gia, T.; et al.**, **93c:62055**
Utts, Jessica *see* **Christensen, Ronald**
Vaidyanathan, Suresh K. *see* **Kass, Robert E.**, **93k:62067**
Verdinelli, Isabella (*with* Kadane, Joseph B.) Bayesian designs for maximizing information and outcome.
Viana, M. A. G. (*with* Ramakrishnan, V.) Bayesian estimates of predictive value and related parameters of a diagnostic test. (English and French summaries)
Villegas, Cesareo *see* **Swartz, T.**, **93c:62056**
Wasserman, Larry Invariance properties of density ratio priors. (English summary) **93m:62058**
— (*with* Kadane, Joseph B.) Computing bounds on expectations. **93c:62058**
— *see also* **Lavine, Michael; et al.**, **93f:62035**
Wolpert, Robert L. *see* **Lavine, Michael; et al.**, **93f:62035**
Wong, Wing Hung (*with* Li, Bing) Laplace expansion for posterior densities of nonlinear functions of parameters. (English summary) **93f:62038**
Woodroofe, Michael Integrable expansions for posterior distributions for one-parameter exponential families. **93g:62048**
Ye, Keying Reference priors when the stopping rule depends on the parameter of interest. (English summary) **93k:62069**
Young, K. D. S. Influence of groups of observations on Bayes factors.
Zellner, Arnold Bayesian methods and entropy in economics and econometrics. (*see* **93b:00011**)

Items with secondary classifications in 62F15

Achcar, Jorge Alberto (*with* Louzada Neto, Francisco) A Bayesian approach for accelerated life tests considering the Weibull distribution. (English summary)
Aigner, Dennis J. *see* **Ghali, Khalifa**, (**93m:62006**)
Ananda, Malwane M. A. Estimating the exponential reliability function for a system in series with type II censored data. (English summary) **93m:62210**
Angers, Jean-François (*with* Delampady, Mohan) Hierarchical Bayesian curve fitting and smoothing. (French summary) **93e:62100**
Bansal, Naveen K. (*with* Bhandary, Madhusudan) Bayes estimation of number of signals. **93a:62084**
Basu, Asit P. (*with* Ebrahimi, Nader) Bayesian approach to some problems in life testing and reliability estimation. (English summary) **93i:62085**
Besag, Julian (*with* Green, Peter J.) Spatial statistics and Bayesian computation. (English summary)
Bhandary, Madhusudan *see* **Bansal, Naveen K.**, **93a:62084**
Bhattacharya, Samir Kumar (*with* Tyagi, Ravinder K.) Bayesian reliability analysis for the two-parameter exponential distribution. (English and Italian summaries)
Blumenthal, Saul Population size estimation with truncated data: a survey. (English summary) (*see* **93e:62002**)
Boos, Dennis D. *see* **Monahan, John F.**, **93j:62006**
Bruno, G. A Bayesian analysis for generators of pseudorandom numbers. I. (Italian. Italian summary)
Bustos, Oscar H. (*with* Frery, Alejandro C.) A contribution to the study of Markovian degraded images: an extension of a theorem by Geman and Geman. (English and Portuguese summaries) **93i:68187**
Calabria, R. (*with* Pulcini, G.) Bayes probability intervals in a load-strength model. (English summary)
Canova, Fabio Modelling and forecasting exchange rates with a Bayesian time-varying coefficient model. (English summary)
Carriquiry, Alicia L. *see* **Harville, David A.**
Celeux, Gilles *see* **Robert, Christian P.; et al.**, **93k:62174**
Chan, K. S. Asymptotic behavior of the Gibbs sampler. (English summary) **93k:60165**
Charras, A. (*with* van Eeden, Constance) Bayes properties of estimators of location parameters in truncated parameter spaces. **93h:62006**

Chen, Cathy W. S. Bayesian inferences and forecasting in bilinear time series models.

Chen, Jia Xin The Bayesian estimation of the order of an AR model under the squared-error loss function. (Chinese. English and Chinese summaries)

Chung, Younshik *see* **Dey, Dipak K., 93m:62037**

Cipra, Tomáš (*with* Rubio, Asunción; Trujillo, J.) Time series analysis: recursive methods and their modifications for time series with outliers and missing observations. (English summary)

Cooke, Roger Marvin (*with* Misiewicz, J. K.; Mendel, Max B.) Applications of l_p symmetric measures to Bayesian inference. **93b:62008**

Criticou, Doukissa (*with* Terzakis, Dimitris) Une classe d'estimateurs à rétrécisseur bayesiens pour la moyenne d'un vecteur normal. (English and French summaries) [A class of Bayes shrinkage estimators for the mean of a normal vector]

Datta, Gauri Sankar Some applications of Anderson's inequality to some optimality criteria of the generalized least squares estimator. **93j:62170**

Delampady, Mohan *see* **Angers, Jean-François, 93e:62100**

Dey, Dipak K. (*with* Chung, Younshik) Compound Poisson distributions: properties and estimation. (English summary) **93m:62037**

— *see also* **Ghosh, Malay, 93d:62035**

Diebolt, Jean *see* **Robert, Christian P.; et al., 93k:62174**

Drygas, Hilmar *see* **Zmyślony, Roman, 93c:15003**

Ebrahimi, Nader *see* **Basu, Asit P., 93i:62085**

van Eeden, Constance *see* **Charras, A., 93h:62006**

Epstein, Leonardo D. (*with* Fienberg, Stephen E.) Bayesian estimation in multidimensional contingency tables. (English summary) **93i:62050**

Escalier S., Segundo *see* **Mondaca O., Guillermo; et al.**

Feldman, Israel Constrained minimax estimation of the mean of the normal distribution with known variance. **93d:62107**

Feuerverger, Andrey (*with* Rahman, Sheikh) Some aspects of probability forecasting. **93a:62019**

Fienberg, Stephen E. *see* **Epstein, Leonardo D., 93i:62050**

Fong, Duncan K. H. Ranking and estimation of related means in the presence of a covariate—a Bayesian approach. (English summary)

Frery, Alejandro C. *see* **Bustos, Oscar H., 93i:68187**

Ghali, Khalifa (*with* Aigner, Dennis J.) Data pooling and self-selection: a mixed effects hierarchical approach. (English summary) (*see* **93m:62006**)

Ghosh, Jayanta K. (*with* Mukerjee, Rahul) Improvement in Stein's procedure using a random confidence coefficient. **93g:62049**

Ghosh, Malay (*with* Sen, Pranab Kumar) Bayesian Pitman closeness. **93d:62035**

Green, Peter J. *see* **Besag, Julian**

Greenshtein, Eitan Monotonicity of sequential Bayes procedures in some multi-action problems. (English summary) **93k:62165**

Gu, Chong Penalized likelihood regression: a Bayesian analysis. **93e:62106**

Gupta, Shanti S. (*with* Miescke, Klaus J.) On finding the largest normal mean and estimating the selected mean. (English summary) **93e:62062**

Harville, David A. (*with* Carriquiry, Alicia L.) Classical and Bayesian prediction as applied to an unbalanced mixed linear model. (English and French summaries)

He, Zhong Luo Empirical Bayes estimation for parameters of one-dimensional continuous exponential families. (Chinese. English and Chinese summaries) **93m:62020**

Hesselager, Ole Rates of risk convergence of empirical linear Bayes estimators. (English summary) **93g:62012**

Hill, Bruce M. Bayesian nonparametric survival analysis: a comparison of the Kaplan-Meier and Berliner-Hill estimators. (English summary) **93d:62066**

Iwata, Shigeru Highest predictive density estimator in regression models. (English summary) **93j:62245**

Keating, Jerome P. Karlin's corollary: a topological approach to Pitman's measure. **93e:62073**

Kim, Byung Hwee A class of admissible estimators in the one parameter exponential family. **93b:62012**

Kochar, Subhash C. (*with* Woodworth, George) Rank order probabilities for the dispersion problem. **93e:62127**

Kubokawa, Tatsuya Equivariant estimation under the Pitman closeness criterion. **93e:62075**

Kuo, Lynn (*with* Smith, Adrian F. M.) Bayesian computations in survival models via the Gibbs sampler. (English summary) (*see* **93b:62005**)

Lahiri, Parthasarathi "Adjusted" Bayes and empirical Bayes estimation in finite population sampling. (English summary) **93f:62007**

Lavine, Michael A note on bounding Monte Carlo variances. (English summary) **93j:62046**

Lee, Myoung-jae Winsorized mean estimator for censored regression. (English summary) **93m:62165**

Lee, Peter M. ★ Bayesian statistics. **93h:62002**

Liang, Kung-Yee (*with* Tsou, Daniel) Empirical Bayes and conditional inference with many nuisance parameters. (English summary) **93i:62007**

Lingappaiah, G. S. On the modified binomial distribution. (English summary)

— Prediction in samples from a gamma population where switch points are present. (English summary)

Louzada Neto, Francisco *see* **Achcar, Jorge Alberto**

Lyazrhi, Faouzi Détection de ruptures dans un modèle linéaire gaussien: optimalité de procédures de décision multiple basées sur le rapport de vraisemblance. (English and French summaries) [Change-point detection in a Gaussian linear model: optimality of multiple-decision procedures based on the likelihood ratio]

(MacEachern, Steven) *see* **Hill, Bruce M., 93d:62066** *and* **Kuo, Lynn, (93b:62005)**

Mao, Shi Song (*with* Xia, Jian Feng) The hierarchical Bayesian analysis of the zero-failure data. (English summary)

Meeden, Glen An elicitation procedure using piecewise conjugate priors. (English summary) **93j:62005**

Mendel, Max B. *see* **Cooke, Roger Marvin; et al., 93b:62008**

Menéndez Fernández, J. A. (*with* Rueda, C.; Salvador González, Bonifacio) Testing nonoblique hypotheses. **93e:62057**

Miescke, Klaus J. *see* **Gupta, Shanti S., 93e:62062**

Mishra, M. N. (*with* Prakasa Rao, B. L. S.) Bounds for the equivalence of Bayes and maximum likelihood estimators for a class of diffusion processes. **93d:62156**

Misiewicz, J. K. *see* **Cooke, Roger Marvin; et al., 93b:62008**

Monahan, John F. (*with* Boos, Dennis D.) Proper likelihoods for Bayesian analysis. (English summary) **93j:62006**

Mondaca O., Guillermo (*with* Escalier S., Segundo; Varela V., Héctor) Alternative Bayes approach for estimating a distribution function in homogeneous right-neutral process. (Spanish. English summary)

Mortera, Julia Aggregation of opinions: an overview. (*see* **93m:62007**)

Mukerjee, Rahul *see* **Ghosh, Jayanta K., 93g:62049**

(Nayak, Tapan K.) *see* **Ghosh, Malay, 93d:62035**

Nikulin, M. S. A remark on the converse of Laplace's theorem. **93c:62049**

Polson, Nicholas G. A representation of the posterior mean for a location model. **93c:62007**

Prakasa Rao, B. L. S. Cramér-Rao type integral inequalities for estimators of functions of multidimensional parameter. (English summary) **93h:62052**

— *see also* **Mishra, M. N., 93d:62156**

Pulcini, G. *see* **Calabria, R.**

Rahman, Sheikh *see* **Feuerverger, Andrey, 93a:62019**

Robert, Christian P. (*with* Celeux, Gilles; Diebolt, Jean) Bayesian estimation of hidden Markov chains: a stochastic implementation. (English summary) **93k:62174**

Roters, M. Minimax sequential tests for stationary Ornstein-Uhlenbeck processes. **93a:62109**

Rubio, Asunción *see* **Cipra, Tomáš; et al.**

Rueda, C. *see* **Menéndez Fernández, J. A.; et al., 93e:62057**

Rukhin, Andrew L. Influence of the prior distribution on the risk of the Bayes rule. (English summary) **93k:62014**

Sakaguchi, Minoru Bayesian information inequality for estimating the proportion in mixtures of two distributions. (English summary) **93k:62054**

Salvador González, Bonifacio *see* **Menéndez Fernández, J. A.; et al., 93e:62057**

Sen, Pranab Kumar *see* **Ghosh, Malay, 93d:62035**

Smith, Adrian F. M. *see* **Kuo, Lynn, (93b:62005)**

(Strawderman, William E.) *see* **Ghosh, Malay, 93d:62035**

Tao, Bo The best uniform convergence rate of linear empirical Bayes estimators. **93i:62008**

Terzakis, Dimitris *see* **Criticou, Doukissa**

Tian, Guo Liang The Bayesian prediction intervals of the kth future failure time for the Weibull process. (Chinese. English summary)

Toman, Blaza Bayesian robust experimental designs for the one-way analysis of variance. (English summary)

Trujillo, J. *see* **Cipra, Tomáš; et al.**

Tsou, Daniel *see* **Liang, Kung-Yee, 93i:62007**

Tsutakawa, Robert K. Prior distribution for item response curves. (English summary) **93d:62172**

Tyagi, Ravinder K. *see* **Bhattacharya, Samir Kumar**

Varela V., Héctor *see* **Mondaca O., Guillermo; et al.**

Venegas-Martínez, F. Erratum: "On regularity and optimality conditions for maximum entropy priors" [Rebrape **4** (1990), no. 2, 105–136; MR 92h:62007].

Verbraak, H. L. F. ★ The logic of objective Bayesianism. **93g:62010**

(West, Mike) *see* **Kuo, Lynn, (93b:62005)**

Wilson, John G. Robust Bayesian selection of the best Poisson population. (English summary) **93h:62040**

Woodworth, George *see* **Kochar, Subhash C., 93e:62127**

Wright, Tommy A note on sampling to locate rare defectives with strong prior evidence. (English summary) **93j:62026**

Xia, Jian Feng *see* **Mao, Shi Song**

Yeo, Sung Chil On estimating the distributional parameter and the complete sample size from incomplete samples. **93e:62079**

Zellner, Arnold Bayesian analysis in econometrics. (English summary) (*see* **93m:62006**)

Zmyślony, Roman (*with* Drygas, Hilmar) Jordan algebras and Bayesian quadratic estimation of variance components. **93c:15003**

62F25 Tolerance and confidence regions

Anděl, Jiří Confidence intervals for the mode based on one observation. (Serbo-Croatian summary) **93a:62043**

Beal, Stuart L. Confidence regions with fixed effects linear models in the finite population case. (English summary)

Beran, Rudolf Simultaneous prediction regions. **93e:62089**

Casella, George *see* **Goutis, Constantinos, 93j:62083**

David, H. T. *see* **Jobe, J. Marcus, 93c:62059**

DiCiccio, Thomas J. (*with* Efron, Bradley) More accurate confidence intervals in exponential families. (English summary) **93k:62070**

Efron, Bradley *see* **DiCiccio, Thomas J., 93k:62070**

Fei, He Liang (*with* Xu, Xiao Ling) Simultaneous confidence regions for the parameters of the three-parameter Weibull distribution. (Chinese. English and Chinese summaries)

Gart, John J. (*with* Nam, J.) Correction to: "Approximate interval estimation of the difference in binomial parameters: correction for skewness and extension to multiple tables" [Biometrics **46** (1990), no. 3, 637–643].

Ghosh, Jayanta K. (*with* Mukerjee, Rahul) Improvement in Stein's procedure using a random confidence coefficient. **93g:62049**

Goutis, Constantinos (*with* Casella, George) Increasing the confidence in Student's t interval. (English summary) **93j:62083**

Gripenberg, Gustaf Confidence intervals for partial rank correlations. **93e:62090**

Höglund, Thomas Bounds for the sample size to justify normal approximation of the confidence level. **93a:62044**

Hwang, Jiunn Tzon (*with* Liu, Hung-Kung) Existence and nonexistence theorems of finite diameter sequential confidence regions for errors-in-variables models. **93a:62045**

Jobe, J. Marcus (*with* David, H. T.) Buehler confidence bounds for a reliability-maintainability measure. **93c:62059**

Krauth, Joachim Confidence intervals for discrete distributions based on a single observation.

Kuritsyn, Yu. G. *see* **Petunin, Yu. I.; et al., 93h:62060**

Liu, Hung-Kung *see* **Hwang, Jiunn Tzon, 93a:62045**
Liu, W. Simultaneous prediction intervals for all distances from the "best". (English summary)
Mamunya, L. A. *see* **Petunin, Yu. I.; et al., 93h:62060**
Min′ko, A. A. *see* **Petunin, Yu. I.; et al., 93h:62060**
Mukerjee, Rahul *see* **Ghosh, Jayanta K., 93g:62049**
Nam, J. *see* **Gart, John J.**
Papp, Zoltán Two-sided tolerance limits and confidence bounds for normal populations. **93e:62091**
Petunin, Yu. I. (*with* Mamunya, L. A.; Min′ko, A. A.; Kuritsyn, Yu. G.; Yakut, L. I.) Confidence intervals that contain the main distributed mass of values of a general population. I. (Russian) **93h:62060**
Plante, André An inclusion-consistent solution to the problem of absurd confidence statements. I. Consistent exact confidence-interval estimation. (French summary) **93j:62084**
Pooi, Ah Hin Interval estimates based on likelihood ratio in a nonlinear regression model. (English summary) **93h:62061**
Rattihalli, R. N. (*with* Shirke, D. T.) An improved confidence region for the common mean vector of two multivariate homoscedastic normal distributions.
Revyakov, M. I. Development of the Buehler approach for constructing a confidence interval for a function of parameters of a discrete distribution. (Russian. English and Ukrainian summaries)
Rychlik, Igor Confidence bands for linear regressions. **93h:62062**
Santner, Thomas J. (*with* Yamagami, Shin) Invariant small sample confidence intervals for the difference of two success probabilities. (English summary)
Shi, Sheng G. Accurate and efficient double-bootstrap confidence limit method. **93a:62046**
Shirke, D. T. *see* **Rattihalli, R. N.**
Somerville, Paul N. Some P^*-level confidence bounds for the difference between the population mean of the apparent best (the one with the largest sample mean) and the best (three population case). (English summary) (*see* **93g:62002**)
Withers, C. S. Corrigendum: "Tests and confidence intervals for the shape parameter of a gamma distribution" [Comm. Statist. Theory Methods **20** (1991), no. 8, 2663–2685].
Xu, Xiao Ling *see* **Fei, He Liang**
Yakut, L. I. *see* **Petunin, Yu. I.; et al., 93h:62060**
Yamagami, Shin *see* **Santner, Thomas J.**

Items with secondary classifications in 62F25

Atkins, Joel E. (*with* Sherman, Gary J.) Sets of typical subsamples. **93e:62008**
Bhatt, M. B. *see* **Patel, S. R., 93c:62044** *and* **93h:62051**
Bickel, Peter J. Theoretical comparison of different bootstrap t confidence bounds. (English summary) **93k:62102**
Bofinger, Eve Unconstrained and nonlinear confidence bounds for location parameters. (English summary) **93k:62040**
Casella, George Conditional inference from confidence sets. (English summary) **93g:62008**
Chang, Yuan-chin Ivan (*with* Martinsek, Adam T.) Fixed size confidence regions for parameters of a logistic regression model. (English summary) **93k:62168**
Dorea, C. C. Y. (*with* Miazaki, E. S.) Parameter free limiting distribution for a random optimization algorithm. (English summary) **93m:62040**
Feng, Ziding (*with* McCulloch, Charles E.) Statistical inference using maximum likelihood estimation and the generalized likelihood ratio when the true parameter is on the boundary of the parameter space. **93m:62046**
Gangopadhyay, Ashis K. (*with* Sen, Pranab Kumar) Bootstrap confidence intervals for conditional quantile functions. (English summary) **93f:62063**
He, Kun Parametric empirical Bayes confidence intervals based on James-Stein estimator. **93d:62014**
Heyde, C. C. On best asymptotic confidence intervals for parameters of stochastic processes. **93c:62045**
Honda, Toshio Construction of a confidence interval by triple sampling. (English summary) **93j:62200**
Horn, Paul S. Quasi-nonparametric upper tolerance regions based on the bootstrap. (English summary) **93h:62089**
de la Horra Navarro, Julián Bayesian confidence estimation: an alternative approach. **93b:62045**
James, Barry (*with* James, Kang Ling; Siegmund, David O.) Asymptotic approximations for likelihood ratio tests and confidence regions for a change-point in the mean of a multivariate normal distribution. **93f:62025**
James, Kang Ling *see* **James, Barry; et al., 93f:62025**
Jeyaratnam, S. Confidence intervals for the correlation coefficient. (English summary) **93g:62083**
Jurečková, Jana Confidence sets and intervals. (*see* **93g:62102**)
Kruse, Rudolf (*with* Meyer, Klaus Dieter) Confidence intervals for the parameters of a linguistic random variable. (*see* **93c:90002**)
Maĭboroda, R. E. Nonparametric detection of a change point based on observations with error. (Russian. Ukrainian summary) **93a:62030**
Martinsek, Adam T. Asymptotically fully efficient fixed-width confidence intervals for a location parameter. **93g:62107**
— *see also* **Chang, Yuan-chin Ivan, 93k:62168**
McCulloch, Charles E. *see* **Feng, Ziding, 93m:62046**
Meyer, Klaus Dieter *see* **Kruse, Rudolf, (93c:90002)**
Miazaki, E. S. *see* **Dorea, C. C. Y., 93m:62040**
Patel, S. R. (*with* Bhatt, M. B.) Unbiased estimation in sampling from two two-truncation parameter families when both samples are type II censored. (English summary) **93h:62051**
— (*with* Bhatt, M. B.) Unbiased estimation in doubly type II censored samples from two two-truncation parameter families. **93c:62044**
Patwardhan, Girish *see* **Peddada, Shyamal Das, 93j:62122**
Peddada, Shyamal Das (*with* Patwardhan, Girish) Qualms about BC_a bootstrap confidence intervals. (English summary) **93j:62122**
Perron, François Confidence sets having the shape of a half-space. (English summary) **93j:62155**
Polasek, Wolfgang *see* **Pötzelberger, Klaus, 93d:62046**
Potocký, Rastislav (*with* To Van Ban) Confidence regions in nonlinear regression models. (Slovak summary) **93k:62133**
Pötzelberger, Klaus (*with* Polasek, Wolfgang) Robust HPD regions in Bayesian regression models. **93d:62046**
Sarkar, Sanat K. Stein-type improvements of confidence intervals for the generalized variance. **93d:62108**
Schmoyer, Richard L. Asymptotically valid prediction intervals for linear models. (English summary) **93g:62092**
Sen, Pranab Kumar *see* **Gangopadhyay, Ashis K., 93f:62063**
Seppänen, Eila (*with* Uusipaikka, Esa) Confidence bands for linear regression over restricted regions. **93f:62094**
Sherman, Gary J. *see* **Atkins, Joel E., 93e:62008**
Shirley, Angela G. Is the minimum of several location parameters positive? **93g:62036**
Siegmund, David O. *see* **James, Barry; et al., 93f:62025**
To Van Ban *see* **Potocký, Rastislav, 93k:62133**
Uusipaikka, Esa *see* **Seppänen, Eila, 93f:62094**

62F30 Inference under constraints

Inutsuka, Makoto *see* **Sasabuchi, Syoichi; et al., 93m:62059**
Kulatunga, D. D. Sarath *see* **Sasabuchi, Syoichi; et al., 93m:62059**
Menéndez Fernández, J. A. (*with* Salvador González, Bonifacio) Equivalence of likelihood ratio tests and obliquity. **93f:62039**
Qian, Shi Xian Minimum lower sets algorithms for isotonic regression. (English summary) **93j:62085**
Salvador González, Bonifacio *see* **Menéndez Fernández, J. A., 93f:62039**
Sasabuchi, Syoichi (*with* Inutsuka, Makoto; Kulatunga, D. D. Sarath) An algorithm for computing multivariate isotonic regression. **93m:62059**
Schell, Michael J. *see* **Singh, Bahadur, 93e:62092**
Singh, Bahadur (*with* Schell, Michael J.) On power functions of the likelihood ratio tests for the simple loop order in normal means: unequal sample sizes. (English summary) **93e:62092**

Items with secondary classifications in 62F30

Calvin, James A. (*with* Dykstra, Richard L.) A note on maximizing a special concave function subject to simultaneous Loewner order constraints. (English summary) **93e:90057**
Cohen, Arthur (*with* Perlman, Michael D.; Sackrowitz, Harold B.) Unbiasedness of tests of homogeneity when alternatives are ordered. (English summary) **93i:62018**
Dykstra, Richard L. *see* **Calvin, James A., 93e:90057**
Lee, Lung Fei Amemiya's generalized least squares and tests of overidentification in simultaneous equation models with qualitative or limited dependent variables. (English summary) **93j:62073**
Perlman, Michael D. *see* **Cohen, Arthur; et al., 93i:62018**
Sackrowitz, Harold B. *see* **Cohen, Arthur; et al., 93i:62018**

62F35 Robustness and adaptive procedures

Bai, Zhi Dong (*with* Rao, Calyampudi Radhakrishna; Wu, Yue Hua) M-estimation of multivariate linear regression parameters under a convex discrepancy function. **93c:62060**
Basak, Indrani Robust regression with censored data. **93b:62047**
Bentler, Peter M. *see* **Satorra, Albert, (93g:62001)**
Cheng, Chi Lun (*with* Van Ness, John W.) Generalized M-estimators for errors-in-variables regression. **93h:62063**
Cook, R. Dennis (*with* Hawkins, D. M.; Weisberg, S.) Exact iterative computation of the robust multivariate minimum volume ellipsoid estimator. (English summary)
Croux, Christophe (*with* Rousseeuw, Peter J.) A class of high-breakdown scale estimators based on subranges. **93e:62093**
— *see also* **Rousseeuw, Peter J., (93k:62005)**
Das, Rita (*with* Sinha, Bimal Kumar) Robust optimum invariant tests of covariance structures useful in linear models. (English summary) **93e:62094**
DiCiccio, Thomas J. (*with* Martin, Michael A.; Young, G. Alastair) Fast and accurate approximate double bootstrap confidence intervals. (English summary) **93f:62040**
Dunne, Timothy T. *see* **Schall, Robert**
Elashoff, Robert M. *see* **Lee, J. Jack; et al., 93k:62073**
Ellis, Steven P. (*with* Morgenthaler, Stephan) Leverage and breakdown in L_1 regression. **93b:62048**
Faraway, Julian J. Smoothing in adaptive estimation. **93b:62049**
Hawkins, D. M. *see* **Cook, R. Dennis; et al.**
Huggins, Richard M. (*with* Marschner, Ian C.) Robust analysis of the bifurcating autoregressive model in cell lineage studies. **93a:62047**
Jin, Kun Empirical smoothing parameter selection in adaptive estimation. (English summary) **93m:62060**
(Joss, Johann) *see* **Marazzi, Alfio, 93j:62086**
Kharin, Yu. S. Asymptotic analysis of the robustness of minimum contrast estimates. (Russian) **93e:62095**
Kubokawa, Tatsuya (*with* Robert, Christian P.; Saleh, A. K. Md. Ehsanes) Robust estimation of common regression coefficients under spherical symmetry. **93e:62096**
Kurotschka, Viktor (*with* Müller, Christine H.) Optimum robust estimation of linear aspects in conditionally contaminated linear models. **93k:62071**
Lahiri, Soumendra Nath Edgeworth expansions for M-estimators of a regression parameter. (English summary) **93k:62072**
Lee, J. Jack (*with* Li, Ker-Chau; Elashoff, Robert M.) On recensoring for censored paired data. (English summary) **93k:62073**
Li, Ker-Chau *see* **Lee, J. Jack; et al., 93k:62073**
Lopuhaä, Hendrik P. Multivariate τ-estimators for location and scatter. (French summary) **93c:62061**
— Highly efficient estimators of multivariate location with high breakdown point. **93e:62097**

Marazzi, Alfio ★ Algorithms, routines, and S functions for robust statistics. **93j:62086**
Maronna, Ricardo A. (*with* Yohai, Víctor J.) The breakdown point of simultaneous general M estimates of regression and scale. **93g:62050**
Marschner, Ian C. Robust methods for dependent cell pedigree data. (English summary)
— *see also* **Huggins, Richard M., 93a:62047**
Martin, Michael A. *see* **DiCiccio, Thomas J.; et al., 93f:62040**
Masarotto, Guido (*with* Peracchi, Marco) M-type estimators for censored data and an application to the robust estimation of the parameter of an exponential distribution. (Italian. English and Italian summaries) **93h:62064**
Moreno, Elías (*with* Pericchi, Luis Raúl) Robust Bayesian analysis for ε-contaminations with shape and quantile constraints. (English summary) (*see* **93g:62001**)
Morgenthaler, Stephan *see* **Ellis, Steven P., 93b:62048**
Müller, Christine H. *see* **Kurotschka, Viktor, 93k:62071**
Nyquist, Hans Restricted M-estimation. (English summary) **93g:62051**
Olbricht, W. Robustification of estimators by Winsorizing on ellipsoids. (English summary) **93k:62074**
Pagano, Marcello *see* **Spino, Cathie, 93b:62051**
Peracchi, Marco *see* **Masarotto, Guido, 93h:62064**
Pericchi, Luis Raúl *see* **Moreno, Elías, (93g:62001)**
(Randriamiharisoa, Alex) *see* **Marazzi, Alfio, 93j:62086**
Rao, Calyampudi Radhakrishna *see* **Bai, Zhi Dong; et al., 93c:62060**
Robert, Christian P. *see* **Kubokawa, Tatsuya; et al., 93e:62096**
Ronchetti, Elvezio Optimal robust estimators for the concentration parameter of a von Mises-Fisher distribution. (English summary) **93e:62098**
Rousseeuw, Peter J. (*with* Croux, Christophe) Explicit scale estimators with high breakdown point. (English summary) (*see* **93k:62005**)
— *see also* **Croux, Christophe, 93e:62093**
Saleh, A. K. Md. Ehsanes *see* **Kubokawa, Tatsuya; et al., 93e:62096**
Satorra, Albert (*with* Bentler, Peter M.) Goodness-of-fit test under IV estimation: asymptotic robustness of a NT test statistic. (English summary) (*see* **93g:62001**)
Schall, Robert (*with* Dunne, Timothy T.) A note on the relationship between parameter collinearity and local influence. (English summary)
Severini, Thomas A. Conditional robustness in location estimation. **93b:62050**
Silvapulle, Mervyn J. Robust tests of inequality constraints and one-sided hypotheses in the linear model. (English summary) **93k:62075**
Sinha, Bimal Kumar *see* **Das, Rita, 93e:62094**
Slepokurov, A. A. Characteristics of robust rules for testing two-alternative hypotheses. (Russian. Russian summary) **93k:62076**
Spino, Cathie (*with* Pagano, Marcello) Efficient calculation of the permutation distribution of robust two-sample statistics. **93b:62051**
Van Ness, John W. *see* **Cheng, Chi Lun, 93h:62063**
Víšek, Jan Ámos Large adaptive estimation in linear regression model. I. Consistency. **93j:62087a**
— Adaptive estimation in linear regression model. II. Asymptotic normality. **93j:62087b**
V″ndev, Dimit″r L. A note on the breakdown point of the least median of squares and least trimmed squares estimators. (English summary)
Wang, Yu (*with* Wiens, Douglas P.) Optimal, robust R-estimators and test statistics in the linear model. **93c:62062**
Weisberg, S. *see* **Cook, R. Dennis; et al.**
Wiens, Douglas P. (*with* Wu, K. H. Eden) Distributions minimizing Fisher information for scale in Kolmogorov neighbourhoods. (French summary) **93f:62041**
— *see also* **Wang, Yu, 93c:62062**
Willemain, Thomas R. (*with* et al.) Robust estimation methods for exponential data: a Monte-Carlo comparison. (English summary)
Wu, K. H. Eden *see* **Wiens, Douglas P., 93f:62041**
Wu, Yue Hua *see* **Bai, Zhi Dong; et al., 93c:62060**
Yang, Song Minimum Hellinger distance estimation of parameter in the random censorship model. **93a:62048**
Yohai, Víctor J. *see* **Maronna, Ricardo A., 93g:62050**
Young, G. Alastair *see* **DiCiccio, Thomas J.; et al., 93f:62040**
Zhu, Hong Optimality of trimmed estimates of population parameters. (Chinese. English and Chinese summaries)
Zieliński, W. A robust test for variance.

Items with secondary classifications in 62F35

Berger, James O. *see* **Fan, Tsai Hung, 93k:62065**
Bhandary, Madhusudan Robust M-estimation of a dispersion matrix with a structure. **93d:62106**
Carroll, Raymond J. *see* **Simpson, Douglas G.; et al., 93e:62174**
Chaudhuri, Probal Generalized regression quantiles: forming a useful toolkit for robust linear regression. (English summary) **93m:62065**
Chen, Gui Jing (*with* Zhao, Lin Cheng) Some contributions of Chinese statisticians to the asymptotic theory of inferences in linear models. (*see* **93e:62004**)
Cheng, Bing Existence, uniqueness and Fréchet differentiability of ψ-estimates of parameters in stationary observation. (English summary) **93j:62224**
Cheng, Chi Lun Robust linear regression via bounded influence M-estimators. **93g:62087**
Cui, Heng Jian A necessary and sufficient condition for a weakly consistent PP estimator of a dispersion matrix to be robust. (Chinese. English and Chinese summaries)
Cuzick, Jack Efficient estimates in semiparametric additive regression models with unknown error distribution. **93h:62073**
Daigle, Gaétan (*with* Rivest, Louis-Paul) A robust biplot. (English and French summaries) **93g:62005**
Davies, P. Laurie An efficient Fréchet differentiable high breakdown multivariate location and dispersion estimator. **93c:62094**
Davis, Richard Alan (*with* Knight, Keith; Liu, Jian[3]) M-estimation for autoregressions with infinite variance. **93c:62145**
Dodge, Yadolah (*with* Jurečková, Jana) Flexible l-estimation in the linear model. **93a:62095**
Dollinger, Michael B. (*with* Staudte, Robert G.) Influence functions of iteratively reweighted least squares estimators. **93k:62057**
Fan, Tsai Hung (*with* Berger, James O.) Behaviour of the posterior distribution and inferences for a normal mean with t prior distributions. **93k:62065**
Geisser, Seymour Bayesian perturbation diagnostics and robustness. (English summary) **93i:62025**
Gill, Richard D. *see* **Heesterman, C. C., 93h:62055**
Grzegorzewski, P. The infinitesimal robustness of tests against dependence. (English summary) **93k:62110**
Gutenbrunner, C. Efficient L-estimators in semiparametric linear heteroscedastic models. (English summary) **93m:62075**
He, Xuming A local breakdown property of robust tests in linear regression. **93a:62097**
— (*with* Simpson, Douglas G.) Robust direction estimation. **93d:62105**
Heesterman, C. C. (*with* Gill, Richard D.) A central limit theorem for M-estimators by the von Mises method. (English summary) **93h:62055**
Heiler, Siegfried Bounded influence and high breakdown point regression with linear combinations of order statistics and rank statistics. (English summary) **93m:62151**
Hui, Yer Van (*with* Lee, Andy H.) Assessing influence in time series. (English summary) **93h:62158**
Hušková, Marie Sequentially adaptive nonparametric procedures. (*see* **93g:62102**)
Iwasaki, Manabu Construction of M-estimators by robustifying orthogonal polynomials associated with the density function. **93e:62072**
Jurečková, Jana *see* **Dodge, Yadolah, 93a:62095**
Kano, Yutaka Robust statistics for test-of-independence and related structural models. (English summary) **93j:62051**
Kasahara, Yuji (*with* Maejima, Makoto) Limit theorems for trimmed sums. (English summary) **93k:60056**
Kharin, Yu. S. (*with* Vasenkova, E. I.) Stability of statistical decision rules under parametric distortions of probability distributions. (Russian. English and Russian summaries) **93m:62139**
Knight, Keith *see* **Davis, Richard Alan; et al., 93c:62145**
Ko, Daijin Robust estimation of the concentration parameter of the von Mises-Fisher distribution. **93j:62150**
Koul, Hira L. M-estimators in linear models with long range dependent errors. **93f:62124**
Lahiri, Soumendra Nath On bootstrapping M-estimators. (English summary) **93m:62096**
Lavine, Michael Sensitivity in Bayesian statistics: the prior and the likelihood. **93g:62047**
Lazrieva, N. L. (*with* Torondzhadze, T. A.) On stable M-estimators in the partial likelihood scheme. (English summary) **93k:62060**
Lee, Andy H. *see* **Hui, Yer Van, 93h:62158**
Lepskiĭ, O. V. Asymptotically minimax adaptive estimation. I. Upper bounds. Optimally adaptive estimates. (Russian) **93d:62072**
Liu, Jian[3] *see* **Davis, Richard Alan; et al., 93c:62145**
Liu, Jin Quan *see* **Zhou, Guang Ya**
Maejima, Makoto *see* **Kasahara, Yuji, 93k:60056**
Markatou, Marianthi (*with* Stahel, Werner A.; Ronchetti, Elvezio) Robust M-type testing procedures for linear models. **93b:62094**
Maronna, Ricardo A. (*with* Stahel, Werner A.; Yohai, Víctor J.) Bias-robust estimators of multivariate scatter based on projections. (English summary) **93k:62122**
Marschner, Ian C. Robust estimation for epidemic models. **93k:62176**
Marzec, Leszek Robustness of tests based on spacings in the exponential model. **93e:62056**
Marzec, Paweł Asymptotic stability of tests based on order statistics for the scale parameter. **93a:62021**
McKendall, R. (*with* Mintz, M.) Data fusion techniques using robust statistics. (*see* **93g:68002**)
Mintz, M. *see* **McKendall, R., (93g:68002)**
Moon, Sung Ho (*with* Yanagi, Kikuo; Tanaka, Yutaka[1]) A clustering algorithm for detecting influential subsets in multivariate methods. (English summary)
Müller, Christine H. L_1-estimation and testing in conditionally contaminated linear models. (English summary) **93m:62153**
Nakamizo, Takayoshi (*with* Okazaki, Yoshinobu) Robust recursive identification of ARMAX model. (English summary) (*see* **93f:93007**)
Nazin, A. V. (*with* Yuditskiĭ, A. B.) Optimal and robust estimation of slowly drifting parameters of a linear regression process. (Russian) **93d:62125**
Okazaki, Yoshinobu *see* **Nakamizo, Takayoshi, (93f:93007)**
Pan, Shou Jie *see* **Shang, Shu Fang**
Polasek, Wolfgang *see* **Pötzelberger, Klaus, 93d:62046**
Pötzelberger, Klaus (*with* Polasek, Wolfgang) Robust HPD regions in Bayesian regression models. **93d:62046**
Rivest, Louis-Paul *see* **Daigle, Gaétan, 93g:62005**
Romanazzi, Mario Influence in canonical correlation analysis. **93e:62156**
Ronchetti, Elvezio *see* **Markatou, Marianthi; et al., 93b:62094**
Ruppert, David *see* **Simpson, Douglas G.; et al., 93e:62174**
Sen, Pranab Kumar The Pitman closeness of statistical estimators: latent years and the renaissance. (English summary) **93i:62022**
Shang, Shu Fang (*with* Pan, Shou Jie) Robustness of linear sufficient statistics for the general Gauss-Markov model. (Chinese. English and Chinese summaries)
Silvapulle, Mervyn J. On M-methods in growth curve analysis with asymmetric errors. (English summary) **93j:62156**
Simpson, Douglas G. (*with* Ruppert, David; Carroll, Raymond J.) On one-step GM estimates and stability of inferences in linear regression. **93e:62174**
— *see also* **He, Xuming, 93d:62105**
Stahel, Werner A. *see* **Markatou, Marianthi; et al., 93b:62094** *and* **Maronna, Ricardo A.; et al., 93k:62122**
Staudte, Robert G. *see* **Dollinger, Michael B., 93k:62057**
Sun, Xiao Dong *see* **Wei, Bo Cheng**
Tanaka, Yutaka[1] *see* **Moon, Sung Ho; et al.**
Toman, Blaza Bayesian robust experimental designs for the one-way analysis of variance. (English summary)
Torondzhadze, T. A. *see* **Lazrieva, N. L., 93k:62060**
Vasenkova, E. I. *see* **Kharin, Yu. S., 93m:62139**
Wang, Guo Jun[2] *see* **Zhu, Xiu Juan**

Wasserman, Larry Invariance properties of density ratio priors. (English summary) **93m:62058**

Wei, Bo Cheng (*with* Sun, Xiao Dong) An iterative formula for the M-estimator in nonlinear regression models and its convergence. (Chinese. English and Chinese summaries)

Wei, Feng Rong A robust method for regression lines. (Chinese. Chinese summary)

Wiens, Douglas P. Designs for approximately linear regression: two optimality properties of uniform designs. **93b:62105**

Yanagi, Kikuo *see* **Moon, Sung Ho; et al.**

Yohai, Víctor J. *see* **Maronna, Ricardo A.; et al., 93k:62122**

Yuditskii, A. B. *see* **Nazin, A. V., 93d:62125**

Zhao, Lin Cheng *see* **Chen, Gui Jing, (93e:62004)**

Zhou, Guang Ya (*with* Liu, Jin Quan) The problem of robustness of loss functions. (Chinese. English summary)

Zhu, Xiu Juan (*with* Wang, Guo Jun[2]) The AP statistic and distance influence functions in multivariate linear regression. (Chinese. English and Chinese summaries)

62F99 None of the above, but in this section

Bentler, Peter M. *see* **Fang, Kai Tai; et al., (93b:60004)**

Chung, Han Yeong (*with* Lee, Kee-Won) On the model selection criteria in normal distributions. (English summary) **93m:62061**

Fang, Kai Tai (*with* Yuan, Ke Hai; Bentler, Peter M.) Applications of sets of points uniformly distributed on a sphere to testing multinormality and robust estimation. (English summary) (*see* **93b:60004**)

Heitjan, Daniel F. (*with* Rubin, Donald B.) Ignorability and coarse data. **93f:62042**

Hürlimann, Werner On parameter orthogonality to the mean. **93c:62063**

Imaizumi, Tadashi *see* **Watanabe, Norio**

Lee, Kee-Won *see* **Chung, Han Yeong, 93m:62061**

Lindsay, Bruce G. (*with* Roeder, Kathryn) Residual diagnostics for mixture models. (English summary) **93h:62065**

Roeder, Kathryn *see* **Lindsay, Bruce G., 93h:62065**

Rubin, Donald B. *see* **Heitjan, Daniel F., 93f:62042**

Schnatter, Sylvia On statistical inference for fuzzy data with applications to descriptive statistics. (English summary)

Tricot, Jean-Marie Un modèle d'accord entre observateurs sur une échelle nominale. (English summary) [A nominal-scale interobserver-agreement model] **93d:62049**

Watanabe, Norio (*with* Imaizumi, Tadashi) A fuzzy statistical test of fuzzy hypotheses. (English summary)

Yuan, Ke Hai *see* **Fang, Kai Tai; et al., (93b:60004)**

Items with secondary classifications in 62F99

Barndorff-Nielsen, Ole E. (*with* Jørgensen, Bent) Some parametric models on the simplex. **93c:62023**

— (*with* Blæsild, P.) Inversion and index notation. (English summary) **93d:62007**

Bartoszewicz, Artur On the consistency of estimates in noncommutative statistics. **93i:46113**

Blæsild, P. *see* **Barndorff-Nielsen, Ole E., 93d:62007**

Comets, Francis (*with* Gidas, Basilis) Parameter estimation for Gibbs distributions from partially observed data. **93b:60056**

Evans, Steven N. (*with* Speed, T. P.) Invariants of some probability models used in phylogenetic inference. (English summary) **93m:62121**

Gather, U. (*with* Kale, B. K.) Outlier generating models—a review. (*see* **93m:60007**)

Gidas, Basilis *see* **Comets, Francis, 93b:60056**

Habib, Muhammad K. (*with* Thavaneswaran, A.) Optimal estimation for semimartingale neuronal models. (English summary)

Jørgensen, Bent *see* **Barndorff-Nielsen, Ole E., 93c:62023**

Kale, B. K. *see* **Gather, U., (93m:60007)**

Kramkov, D. O. On a class of filtered spaces arising in filtered statistical problems. (Russian)

Kushner, Harold J. *see* **Vázquez-Abad, Felisa J., 93d:93092**

Lehmann, Erich Leo (*with* Scholz, F.-W.) Ancillarity. **93j:62011**

Pázman, Andrej Curvatures and the distribution of the maximum likelihood estimator in nonlinear exponential models. **93h:62020**

Scholz, F.-W. *see* **Lehmann, Erich Leo, 93j:62011**

Speed, T. P. *see* **Evans, Steven N., 93m:62121**

Thavaneswaran, A. *see* **Habib, Muhammad K.**

Vázquez-Abad, Felisa J. (*with* Kushner, Harold J.) Estimation of the derivative of a stationary measure with respect to a control parameter. **93d:93092**

Yao, Qi Wei Boundary-crossing probabilities of some random fields related to likelihood ratio tests for epidemic alternatives. (English summary) **93j:60034**

62Gxx Nonparametric inference

62G05 Estimation

Abdous, Belkacem Note on the minimum mean integrated squared error of kernel estimates of a distribution function and its derivatives. (English summary) **93k:62077**

Abdul-Al, Khaled I. Estimating functionals of probability density for uniform mixing processes. (English summary) **93m:62062**

Abrahamowicz, Michał (*with* Ciampi, Antonio; Ramsay, James O.) Nonparametric density estimation for censored survival data: regression-spline approach. (English and French summaries) **93e:62099**

Adkins, Lee C. Finite sample moments of a bootstrap estimator of the James-Stein rule. (English summary)

Ahmad, Ibrahim A. Residuals density estimation in nonparametric regression. **93f:62043**

Ahn, Hyungtaik (*with* Manski, Charles F.) Distribution theory for the analysis of binary choice under uncertainty with nonparametric estimation of expectations. (English summary) **93m:62063**

Al-Harby, Abdullah H. *see* **Amira, Tarik A.; et al., 93j:62088**

Altman, N. S. An introduction to kernel and nearest-neighbor nonparametric regression. (English summary)

Amira, Tarik A. (*with* Habib, Mohamed E.; Al-Harby, Abdullah H.) Estimation of the intensity function of nonhomogeneous Poisson process using nonparametric density estimation methods. (English summary) **93j:62088**

Angers, Jean-François (*with* Delampady, Mohan) Hierarchical Bayesian curve fitting and smoothing. (French summary) **93e:62100**

Ango Nzé, Patrick (*with* Portier, Bruno) Estimation de la densité et de la fonction de régression d'un processus stationnaire géométriquement β-mélangeant. (English and French summaries) [Estimation of the density or of the regression function for a β-mixing stationary process] **93h:62066**

Ansley, Craig F. *see* **Kohn, Robert Jacob; et al., 93h:62085**

Atilgan, Taskin (*with* Bozdogan, Hamparsum) Convergence properties of MLE's and asymptotic simultaneous confidence intervals in fitting cardinal B-splines for density estimation. **93d:62050**

Au, S. T. *see* **Yao, Yi-Ching, 93c:62077**

Azaïs, Jean-Marc (*with* Lang, Gabriel) Estimation de l'exposant de longue dépendance dans un cadre semi-paramétrique. (English and French summaries) [Nonparametric estimation of the long-range dependence exponent] **93k:62078**

Azari, A. S. (*with* Müller, Hans-Georg) Preaveraged localized orthogonal polynomial estimators for surface smoothing and partial differentiation. (English summary) **93k:62079**

Babu, Gutti Jogesh (*with* Rao, Calyampudi Radhakrishna; Rao, M. Bhaskara) Nonparametric estimation of specific occurrence/exposure rate in risk and survival analysis. **93k:62080**

— *see also* **Rao, M. Bhaskara; et al., 93a:62063**

Bagai, Isha (*with* Prakasa Rao, B. L. S.) Estimation of the survival function for stationary associated processes. **93e:62101**

Barron, Andrew R. Complexity regularization with application to artificial neural networks. **93b:62052**

— (*with* Györfi, László; van der Meulen, Edward C.) Distribution estimation consistent in total variation and in two types of information divergence. (English summary) **93h:62067**

Bassiakos, Yiannis C. (*with* Meng, Xiao-Li; Lo, Shaw-Hwa) A general estimator of the treatment effect when the data are heavily censored. **93d:62051**

— Optimal choice for a Hodges-Lehmann type estimator in the two-sample problem with censoring. (English summary) (*see* **93k:62003**)

Berlinet, Alain Reproducing kernels and finite order kernels. **93d:62052**

— Hierarchies of higher order kernels. (English summary) **93k:62081**

Bickel, Peter J. (*with* Nair, Vijayan N.; Wang, Paul C. C.) Nonparametric inference under biased sampling from a finite population. **93h:62068**

Bilodeau, Martin Fourier smoother and additive models. (English and French summaries) **93k:62082**

(Blumenthal, Saul) *see* **Gulati, S., (93b:62005)**

Boente, Graciela (*with* Fraiman, Ricardo) Strong order of convergence and asymptotic distribution of nearest neighbor density estimates from dependent observations. (English summary) **93h:62069**

Bosq, Denis Erreur quadratique asymptotique optimale pour les estimateurs à noyau de la densité et de la régression d'un processus mélangeant. (English and French summaries) [Optimal asymptotic mean square error for kernel density and regression estimates under mixing] **93m:62064**

Bouchair, Mohamed Yacine On the relationship between k_n-uniform spacings and bandwidth selection in density estimation. (French summary) **93b:62053**

Boys, Richard J. On a kernel approach to a screening problem. **93b:62054**

Bozdogan, Hamparsum *see* **Atilgan, Taskin, 93d:62050**

Brooks, Maria Mori (*with* Marron, J. Stephen) Asymptotic optimality of the least-squares cross-validation bandwidth for kernel estimates of intensity functions. **93d:62053**

Brown, Lawrence D. (*with* Farrell, Roger H.) A lower bound for the risk in estimating the value of a probability density. **93e:62102**

Burman, Prabir Estimation of optimal transformations using v-fold cross validation and repeated learning-testing methods. (English summary) **93f:62044**

— (*with* Nolan, D.) Location-adaptive density estimation and nearest-neighbor distance. **93k:62083**

— (*with* Nolan, D.) Data-dependent estimation of prediction functions. **93e:62103**

Cadarso Suárez, Carmen *see* **González Manteiga, Wenceslao**

Cai, Zong Wu (*with* Roussas, George G.) Uniform strong estimation under α-mixing, with rates. (English summary) **93h:62070**

— On complete convergence of nonparametric regression M-quantiles. (English summary) **93j:62089**

Carbonez, A. (*with* Györfi, László; van der Meulen, Edward C.) Nonparametric entropy estimation based on randomly censored data. (Russian summary) **93d:62054**

— (*with* Györfi, László; van der Meulen, Edward C.) Universal consistency of partitioning-estimates of a regression function for randomly missing data. (English summary) (*see* **93k:62002**)

Carlstein, E. (*with* Krishnamoorthy, C.) Boundary estimation. **93c:62064**

Carroll, Raymond J. (*with* van Rooij, Arnoud C. M.; Ruymgaart, Frits H.) Theoretical aspects of ill-posed problems in statistics. **93a:62049**

— *see also* **Hsing, Tailen, 93h:62081**

Carter, C. K. (*with* Eagleson, G. K.) A comparison of variance estimators in nonparametric regression. (English summary) **93f:62045**

Chai, Gen Xiang (*with* Su, Yan; Shi, Sun Juan) A nonparametric approach to the estimation of error distributions in linear model. (English summary) **93h:62071**

— *see also* **Zhao, Lin Cheng, (93e:62004)**

Chambers, Raymond L. (*with* Dorfman, Alan H.; Hall, Peter Gavin) Properties of estimators of the finite population distribution function. (English summary) **93j:62090**

Chanda, Kamal C. (*with* Ruymgaart, Frits H.) Curve estimation for m_n-decomposable time series including bilinear processes. **93b:62055**

Chang, Myron N. Edgeworth expansion for the Kaplan-Meier estimator. **93i:62027**

Chang, San Chyi *see* **Huang, Wên T'ao, 93h:62082**

Chaudhuri, Probal Nonparametric estimates of regression quantiles and their local Bahadur

representation. **93d:62055**
— Global nonparametric estimation of conditional quantile functions and their derivatives. **93d:62056**
— Generalized regression quantiles: forming a useful toolkit for robust linear regression. (English summary) **93m:62065**
— Multivariate location estimation using extension of R-estimates through U-statistics type approach. **93h:62072**
Chen, Hung (*with* Chen, Keh-Wei) Selection of the splined variables and convergence rates in a partial spline model. (French summary) **93d:62057**
Chen, Keh-Wei *see* **Chen, Hung, 93d:62057**
Chen, Ping² Nonparametric estimation of survival functions from incomplete observations. (Chinese. English and Chinese summaries)
— Nonparametric estimation of bivariate survival functions under the competing risks case. (Chinese. English and Chinese summaries)
— Product limit estimation of bivariate survival functions in the case of competing risks. (Chinese. English and Chinese summaries)
— Random window size kernel estimators of regression functions with censored data. (Chinese. English and Chinese summaries)
— Kernel estimators of regression functions under random censorship and strong consistency. (Chinese. English summary)
Ch'ên, T'ien Wên (*with* Sheen, Wen Jinn) On the regression function estimation by first kind Tchebichef polynomial. (English summary) **93f:62046**
Chen, Ze Hua Interaction spline models and their convergence rates. **93a:62050**
Cheng, Cheng *see* **Kaigh, W. D., 93b:62061**
Cheze, Nathalie Régression non paramétrique pour un processus à temps continu. (English and French summaries) [Nonparametric regression for a continuous-time process] **93g:62052**
Chiu, Shean-Tsong Bandwidth selection for kernel density estimation. **93a:62051**
— An automatic bandwidth selector for kernel density estimation. (English summary) **93m:62066**
Chu, Chih Kang (*with* Marron, J. Stephen) Comparison of two bandwidth selectors with dependent errors. **93f:62047**
— Double smoothing bandwidth selection with dependent errors. (English summary) **93j:62091**
Chu, In-Sun *see* **Shirahata, Shingo, 93k:62097**
Chung, Sung S. *see* **Park, Byeong U.; et al.**
Ciampi, Antonio *see* **Abrahamowicz, Michal; et al., 93e:62099**
Ciesielski, Zbigniew Asymptotic nonparametric spline density estimation in the Sobolev norm in several variables. **93j:62092**
— Asymptotic nonparametric spline density estimation. **93d:62058**
Csörgő, Miklós (*with* Horváth, Lajos; Deheuvels, Paul) Estimating the quantile-density function. **93a:62052**
Cuevas, Antonio (*with* González Manteiga, Wenceslao) Data-driven smoothing based on convexity properties. **93b:62056**
— (*with* Walter, Gilbert G.) On estimation of generalized densities. **93k:62084**
Cuzick, Jack Efficient estimates in semiparametric additive regression models with unknown error distribution. **93h:62073**
Ćwik, Jan (*with* Mielniczuk, Jan) Some topics in estimation of Neyman-Pearson and performance curves. **93b:62057**
Dąbrowski, Jacek Density estimation for stationary processes and for Markov processes. **93f:62048**
Danga, Alexis Moment de sommes partielles et estimation de la densité dans L^1 pour les processus mélangeants. (English and French summaries) [Moment of partial sums and density estimation in L^1 for mixing processes] **93f:62049**
Deheuvels, Paul Laws of the iterated logarithm for density estimators. **93b:62058**
— *see also* **Csörgő, Miklós; et al., 93a:62052**
Delampady, Mohan *see* **Angers, Jean-François, 93e:62100**
Delecroix, M. (*with* Nogueira, M. E.; Rosa, A. C.) Sur l'estimation de la densité d'observations ergodiques. (English and French summaries) [Estimating the density of ergodic observations] **93m:62067**
— (*with* Yazourh, O.) Estimation non paramétrique du taux de hasard en présence de censures droites: la méthode des fonctions orthogonales. (English and French summaries) [Nonparametric inference for failure rates with random right censorship: the method of orthogonal functions] **93m:62068**
Delgado, Miguel A. Bounded influence regression in the presence of heteroskedasticity of unknown form. **93a:62053**
Dette, Holger On the boundary behaviour of nonparametric regression estimators. (German summary) **93c:62065**
Devroye, Luc Exponential inequalities in nonparametric estimation. **93c:62066**
— A note on the usefulness of superkernels in density estimation. (English summary) **93m:62069**
Dhar, D. Estimation of survival function under random censorship. (English summary) **93k:62085**
Donoho, David L. (*with* Low, Mark G.) Renormalization exponents and optimal pointwise rates of convergence. **93m:62070**
Dorfman, Alan H. *see* **Chambers, Raymond L.; et al., 93j:62090**
Dümbgen, Lutz The asymptotic behavior of some nonparametric change-point estimators. **93d:62059**
Eagleson, G. K. *see* **Carter, C. K., 93f:62045**
Eastwood, Brian J. (*with* Gallant, A. Ronald) Adaptive rules for seminonparametric estimators that achieve asymptotic normality. **93g:62053**
Ellner, Stephen *see* **McCaffrey, Daniel F.; et al., 93k:62092**
van Es, A. J. Uniform deconvolution: nonparametric maximum likelihood and inverse estimation. **93b:62059**
van Es, Bert Estimating functionals related to a density by a class of statistics based on spacings. **93h:62074**
Escalier S., Segundo *see* **Mondaca O., Guillermo; et al.**
Eubank, R. L. (*with* Speckman, P. L.) A bias reduction theorem with applications in nonparametric regression. **93d:62060**
Falk, Michael (*with* Reiss, Rolf-Dieter) Statistical inference for conditional curves: Poisson process approach. **93h:62075**
— Bootstrap optimal bandwidth selection for kernel density estimates. **93f:62050**
Fan, Jianqing On the optimal rates of convergence for nonparametric deconvolution problems. **93d:62061**
— Asymptotic normality for deconvolution kernel density estimators. (English summary) **93k:62086**
— (*with* Marron, J. Stephen) Best possible constant for bandwidth selection. (English summary) **93j:62093**
— Design-adaptive nonparametric regression. (English summary) **93k:62087**
— (*with* Hu, Tien Chung) Bias correction and higher order kernel functions. **93f:62051**
Farrell, Roger H. *see* **Brown, Lawrence D., 93e:62102**
Feluch, W. (*with* Koronacki, J.) A note on modified cross-validation in density estimation. **93c:62067**
Ferger, Dietmar (*with* Stute, Winfried) Convergence of changepoint estimators. (English summary) **93m:62071**
Ferguson, Thomas S. (*with* Phadia, Eswar G.; Tiwari, Ram C.) Bayesian nonparametric inference. **93i:62028**
Fotopoulos, S. B. On the rate of convergence for sequential density estimation. **93d:62062**
Fraiman, Ricardo *see* **Boente, Graciela, 93h:62069**
Gajek, Leslaw The rate of strong consistency of a class of nonparametric hazard function estimators. (English summary) **93j:62094**
Gallant, A. Ronald *see* **Eastwood, Brian J., 93g:62053** *and* **McCaffrey, Daniel F.; et al., 93k:62092**
Gao, Ji Ti Convergence rates of some estimators for a semiparametric regression model. (English and Chinese summaries) **93h:62076**
— *see also* **Hong, Sheng Yan, 93m:62077**
Gasser, Theo (*with* Herrmann, Eva) Data-adaptive kernel estimation. **93a:62054**
— (*with* Kneip, Alois) Analysis of samples of curves. **93a:62055**
— (*with* Kneip, Alois; Köhler, Walter) A flexible and fast method for automatic smoothing. **93d:62063**
— *see also* **Kneip, Alois, 93h:62084**
Georgiev, Alexander A. Corrections to: "Speed of convergence in nonparametric kernel estimation of a regression function and its derivatives" [Ann. Inst. Statist. Math. **36** (1984), no. 3, 455–462; MR 86j:62086]. **93m:62072**
Ghorai, J. K. Estimation of a smooth quantile function under the proportional hazards model. **93c:62068**
Ghosh, Bhaskar K. (*with* Huang, Wei-Min) Optimum bandwidths and kernels for estimating certain discontinuous densities. (English summary) **93m:62073**
Gillespie, Brenda (*with* Gillespie, John V.; Iglewicz, Boris) A comparison of the bias in four versions of the product-limit estimator. **93j:62095**
Gillespie, John V. *see* **Gillespie, Brenda; et al., 93j:62095**
Goldstein, Harvey (*with* Pan, Huiqi) Percentile smoothing using piecewise polynomials, with covariates. (English and French summaries)
Goldstein, Larry Mark (*with* Messer, Karen) Optimal plug-in estimators for nonparametric functional estimation. (English summary) **93k:62088**
Golubev, G. K. Nonparametric estimation of smooth densities of a distribution in L_2. (Russian) **93f:62052**
— Asymptotically minimax estimation of a regression function in an additive model. (Russian. Russian summary) **93k:62089**
Gómez, Guadalupe (*with* Julià, Olga; Utzet, Frederic) Survival analysis for left censored data. (English summary) **93k:62090**
González Manteiga, Wenceslao (*with* Cadarso Suárez, Carmen) Nonparametric inference with censored data. (Spanish. English summary)
— (*with* Presedo Quindimil, M. A.) Asymptotic properties of minimum-distance estimators dependent on covariables. (Spanish. English summary) **93a:62056**
— *see also* **Cuevas, Antonio, 93b:62056**
Granville, V. (*with* Rasson, J.-P.) Density estimation on a finite regular lattice. (English summary) **93e:62104**
Gross, Shulamith T. (*with* Huber-Carol, Catherine) Regression models for truncated survival data. (English summary) **93m:62074**
Gruet, Marie-Anne Calibration non paramétrique: une procédure d'estimation directe. (English and French summaries) [Nonparametric calibration: a direct estimation procedure] **93e:62105**
Gu, Chong (*with* Heckman, Nancy E.; Wahba, Grace) A note on generalized cross-validation with replicates. (English summary)
— Penalized likelihood regression: a Bayesian analysis. **93e:62106**
Gulati, S. (*with* Padgett, W. J.) Kernel density estimation from record-breaking data. (English summary) (*see* **93b:62005**)
Gutenbrunner, C. Efficient L-estimators in semiparametric linear heteroscedastic models. (English summary) **93m:62075**
— (*with* Jurečková, Jana) Regression rank scores and regression quantiles. **93c:62069**
Györfi, László (*with* van der Meulen, Edward C.) On the nonparametric estimation of the entropy functional. **93a:62057**
— (*with* Lugosi, Gábor) Kernel density estimation from ergodic sample is not universally consistent. (English summary) **93m:62076**
— *see also* **Carbonez, A.; et al., 93d:62054**; **Barron, Andrew R.; et al., 93h:62067** *and* **Carbonez, A.; et al., (93k:62002)**
Habib, Mohamed E. *see* **Amira, Tarik A.; et al., 93j:62088**
Hahn, Marjorie G. (*with* Weiner, Daniel Charles) On joint estimation of an exponent of regular variation and an asymmetry parameter for tail distributions. **93f:62053**
Hall, Peter Gavin (*with* Marron, J. Stephen) Lower bounds for bandwidth selection in density estimation. **93f:62054**
— On global properties of variable bandwidth density estimators. **93j:62096**
— (*with* Teugels, Jozef L.; Vanmarcke, Ann) The abscissa of convergence of the Laplace transform. **93e:62107**
— (*with* Marron, J. Stephen) Corrigendum: "Local minima in cross-validation functions" [J. Roy. Statist. Soc. Ser. B **53** (1991), no. 1, 245–252; MR 92d:62044]. **93h:62077**
— (*with* Johnstone, Iain M.) Empirical functional and efficient smoothing parameter selection. **93i:62029**
— (*with* Marron, J. Stephen; Park, Byeong U.) Smoothed cross-validation. **93e:62108**

— *see also* **Härdle, Wolfgang; et al., 93d:62065**; **Chambers, Raymond L.; et al., 93j:62090** *and* **Härdle, Wolfgang, 93j:62097**
Härdle, Wolfgang ★ Applied nonparametric regression. **93i:62030**
— (*with* Scott, David W.) Smoothing by weighted averaging of rounded points. (English summary)
— (*with* Marron, J. Stephen; Tsybakov, A. B.) Bandwidth choice for average derivative estimation. **93d:62064**
— (*with* Hall, Peter Gavin; Marron, J. Stephen) Regression smoothing parameters that are not far from their optimum. **93d:62065**
— (*with* Hall, Peter Gavin) On the backfitting algorithm for additive regression models. (English summary) **93j:62097**
Hart, Jeffrey D. (*with* Wehrly, Thomas E.) Kernel regression when the boundary region is large, with an application to testing the adequacy of polynomial models. (English summary)
Heckman, Nancy E. Minimax Bayes estimation, penalized likelihood methods, and restricted minimax estimation. **93a:62058**
— (*with* Woodroofe, Michael) Minimax Bayes estimation in nonparametric regression. **93a:62059**
— Bump hunting in regression analysis. **93c:62070**
— *see also* **Gu, Chong; et al.**
Herbst, Tomáš Estimation of moments under Koziol-Green model for random censorship. **93f:62055**
Herrmann, Eva *see* **Gasser, Theo, 93a:62054**
Hidalgo, F. Javier Adaptive semiparametric estimation in the presence of autocorrelation of unknown form. **93c:62071**
Hill, Bruce M. Bayesian nonparametric survival analysis: a comparison of the Kaplan-Meier and Berliner-Hill estimators. (English summary) **93d:62066**
Hjort, Nils Lid Semiparametric estimation of parametric hazard rates. (English summary) (*see* **93b:62005**)
Holiday, D. B. Considerations for optimal nonparametric regression under a generalized error structure. **93d:62067**
Hollander, Myles (*with* Presnell, Brett; Sethuraman, Jayaram) Nonparametric methods for imperfect repair models. **93h:62078**
Hong, Sheng Yan A law of the iterated logarithm for random window-width kernel estimator of a nonparametric regression function. (English summary) **93i:62031**
— Asymptotic normality of nearest neighbour regression estimators. (Chinese. English and Chinese summaries)
— A law of the iterated logarithm for neighbor-type regression function estimator. (English summary) **93j:62098**
— (*with* Gao, Ji Ti) The rate of convergence of the nearest neighbour regression function estimator. (Chinese. English and Chinese summaries) **93m:62077**
— Asymptotic properties of L_1-norm kernel estimator of the conditional median. (English summary) **93h:62079**
Horváth, Lajos *see* **Csörgő, Miklós; et al., 93a:62052**
Houde, Louis (*with* Lepage, Yves) L'effet de l'erreur d'arrondi sur l'estimateur d'une densité par la méthode du noyau. (English summary) [The effect of rounding error on the estimator of a density by the kernel method] **93h:62080**
Hsing, Tailen (*with* Carroll, Raymond J.) An asymptotic theory for sliced inverse regression. **93h:62081**
Hsu, Yu Sheng Double kernel estimation and testing of the conditional cell probabilities. (English summary) **93j:62099**
Hu, Tien Chung *see* **Fan, Jianqing, 93f:62051**
Huang, Wei-Min *see* **Ghosh, Bhaskar K., 93m:62073**
Huang, Wên T'ao (*with* Chang, San Chyi) Estimations of survival function based on incomplete and missing data. **93h:62082**
Huber-Carol, Catherine *see* **Gross, Shulamith T., 93m:62074**
Iglewicz, Boris *see* **Gillespie, Brenda; et al., 93j:62095**
Ioannides, D. A. *see* **Roussas, George G.; et al., 93j:62105**
Isogai, Eiichi A note on the asymptotic normality of sequential density estimators. **93d:62068**
Istas, Jacques (*with* Laredo, Catherine) Estimation de la fonction de covariance d'un processus gaussien stationnaire par méthodes d'échelles. (English and French summaries) [Estimation of the covariance function of a Gaussian stationary process using scaling methods] **93j:62100**
Jammalamadaka, Sreenivasa R. (*with* Wan, Xinyuan) On a problem in semiparametric estimation. **93b:62060**
Jin, Chun (*with* Pal, Nabendu) A note on the location parameters of two exponential distributions under order restrictions. **93e:62109**
Johnson, Richard A. (*with* Wu, K. T.) Inferences about correlation structure based on proof loading experiments. **93d:62069**
— (*with* Morrell, Christopher H.; Schick, Anton) Two-sample nonparametric estimation and confidence intervals under truncation. (English and French summaries) **93k:62091**
Johnstone, Iain M. (*with* Kerkyacharian, Gérard; Picard, Dominique) Estimation d'une densité de probabilité par méthode d'ondelettes. (English and French summaries) [Density estimation using wavelet methods] **93h:62083**
— *see also* **Hall, Peter Gavin, 93i:62029**
Jones, Michael C. Differences and derivatives in kernel estimation. (English summary)
Julià, Olga *see* **Gómez, Guadalupe; et al., 93k:62090**
Jurečková, Jana *see* **Gutenbrunner, C., 93c:62069**
Kaigh, W. D. (*with* Cheng, Cheng) Subsampling quantile estimators and uniformity criteria. **93b:62061**
Kanazawa, Yuichiro An optimal variable cell histogram based on the sample spacings. **93d:62070**
Karunamuni, R. J. (*with* Yang, Song) Weak and strong uniform consistency rates of kernel density estimates for randomly censored data. (French summary) **93g:62054**
Kerkyacharian, Gérard (*with* Picard, Dominique) Estimation de densité par méthode de noyau et d'ondelettes: les liens entre la géométrie du noyau et les contraintes de régularité. (English summary) [Density estimation by the kernel and wavelet method: link between kernel geometry and regularity constraints] **93c:62072**
— (*with* Picard, Dominique) Density estimation in Besov spaces. **93a:62060**
— *see also* **Johnstone, Iain M.; et al., 93h:62083**
Khanin, A. G. (*with* Khanin, S. G.) Estimating the quality of a method of modeling random variables by means of interpolational cubic splines. (Russian) **93e:62110**
Khanin, S. G. *see* **Khanin, A. G., 93e:62110**
Kim, Byung Chun *see* **Lee, Byung Gook**
Klein, John P. Small sample moments of some estimators of the variance of the Kaplan-Meier and Nelson-Aalen estimators. **93b:62062**
Kneip, Alois (*with* Gasser, Theo) Statistical tools to analyze data representing a sample of curves. (English summary) **93h:62084**
— *see also* **Gasser, Theo, 93a:62055** *and* **93d:62063**
Köhler, Walter *see* **Gasser, Theo; et al., 93d:62063**
Kohn, Robert Jacob (*with* Ansley, Craig F.; Wong, Chi-Ming) Nonparametric spline regression with autoregressive moving average errors. (English summary) **93h:62085**
Koronacki, J. *see* **Feluch, W., 93c:62067**
Korostelëv, A. P. (*with* Tsybakov, A. B.) Estimating the support of a density and functionals of it. (Russian. Russian summary) **93m:62078**
Krishnamoorthy, C. *see* **Carlstein, E., 93c:62064**
Krzykowski, Grzegorz The equivalence of the point and L_1 consistency of the spline density estimators. **93b:62063**
Krzyżak, Adam On exponential bounds on the Bayes risk of the nonparametric classification rules. **93a:62061**
— Global convergence of the recursive kernel regression estimates with applications in classification and nonlinear system estimation. **93d:62071**
Kuk, Anthony Y. C. A semiparametric mixture model for the analysis of competing risks data. (English summary) **93i:62032**
Kundu, Debasis Asymptotic properties of the complex valued nonlinear regression model. **93e:62111**
Lang, Gabriel *see* **Azaïs, Jean-Marc, 93k:62078**
Laredo, Catherine *see* **Istas, Jacques, 93j:62100**
Lee, Byung Gook (*with* Kim, Byung Chun) An efficient algorithm for the nonparametric regression estimation. (English summary)
Lejeune, Michel (*with* Sarda, Pascal) Smooth estimators of distribution and density functions. (English summary)
Lepage, Yves *see* **Houde, Louis, 93h:62080**
Lepskii, O. V. Asymptotically minimax adaptive estimation. I. Upper bounds. Optimally adaptive estimates. (Russian) **93d:62072**
Leroux, Brian G. Consistent estimation of a mixing distribution. (English summary) **93i:62033**
(Leurgans, Sue) *see* **Hjort, Nils Lid, (93b:62005)**
Liero, Hannelore Asymptotic normality of a weighted integrated squared error of kernel regression estimates with data-dependent bandwidth. **93g:62055**
Liu, Zhi Jun Nonparametric estimates of the nuisance parameter in the LAD tests. **93j:62101**
Lo, Shaw-Hwa From the species problem to a general coverage problem via a new interpretation. **93g:62056**
— *see also* **Bassiakos, Yiannis C.; et al., 93d:62051**
Low, Mark G. Renormalization and white noise approximation for nonparametric functional estimation problems. **93d:62073**
— Nonexistence of an adaptive estimator for the value of an unknown probability density. **93d:62074**
— *see also* **Donoho, David L., 93m:62070**
Lu, Xue Wen Nearest neighbour estimates of nonparametric regression functions under dependent observations. (Chinese. English and Chinese summaries)
Lugosi, Gábor Pattern classification from distorted sample. (Russian summary) **93d:62075**
— *see also* **Györfi, László, 93m:62076**
(MacEachern, Steven) *see* **Hill, Bruce M., 93d:62066**
Madych, Wally R. Solutions of underdetermined systems of linear equations. (English summary) (*see* **93g:62004**)
Maiboroda, R. E. Projective estimates for changing concentrations of mixtures. (Ukrainian. Russian and Ukrainian summaries) **93j:62102**
Manski, Charles F. Nonparametric estimation of expectations in the analysis of discrete choice under uncertainty. (*see* **93c:62005**)
— *see also* **Ahn, Hyungtaik, 93m:62063**
Manton, Kenneth G. *see* **Tolley, H. Dennis, 93k:62099**
Markovich, N. M. *see* **Vapnik, V. N.; et al., 93m:62089**
Marron, J. Stephen (*with* Wand, M. P.) Exact mean integrated squared error. **93f:62056**
— *see also* **Brooks, Maria Mori, 93d:62053**; **Härdle, Wolfgang; et al., 93d:62064**; **93d:62065**; **Hall, Peter Gavin; et al., 93e:62108**; **Chu, Chih Kang, 93f:62047**; **Hall, Peter Gavin, 93f:62054**; **93h:62077** *and* **Fan, Jianqing, 93j:62093**
Martinsek, Adam T. Using stopping rules to bound the mean integrated squared error in density estimation. **93e:62112**
McCaffrey, Daniel F. (*with* Ellner, Stephen; Gallant, A. Ronald; Nychka, Douglas W.) Estimating the Lyapunov exponent of a chaotic system with nonparametric regression. (English summary) **93k:62092**
(McKeague, Ian W.) *see* **Slud, Eric V., (93b:62005)**
Meeden, Glen Noninformative nonparametric Bayesian estimation of quantiles. (English summary) **93k:62093**
Mehra, K. L. (*with* Rama Krishnaiah, Y. S.; Rao, M. Sudhakara) Asymptotic properties of smoothed vs. unsmoothed conditional distribution function estimators. **93f:62057**
— (*with* Rama Krishnaiah, Y. S.; Rao, M. Sudhakara) Bahadur representation of sample conditional quantiles based on smoothed conditional empirical distribution function. **93g:62057**
Meloche, J. Estimation of a symmetric density. (French summary) **93f:62058**
Meng, Xiao-Li *see* **Bassiakos, Yiannis C.; et al., 93d:62051**
Messer, Karen A comparison of a spline estimate to its equivalent kernel estimate. **93d:62076**
— *see also* **Goldstein, Larry Mark, 93k:62088**
van der Meulen, Edward C. *see* **Györfi, László, 93a:62057**; **Carbonez, A.; et al., 93d:62054**; **Barron, Andrew R.; et al., 93h:62067** *and* **Carbonez, A.; et al., (93k:62002)**
Miao, Bai Qi Some methods of estimation of slope change points. (*see* **93b:00022**)

Mielniczuk, Jan Grade estimation of chi-square divergence. **93e:62113**
— Grade estimation of Kullback-Leibler information number. (English summary) **93m:62079**
— *see also* **Ćwik, Jan, 93b:62057**
(Moeschberger, Melvin L.) *see* **Gómez, Guadalupe; et al., 93k:62090**
Mondaca O., Guillermo (*with* Escalier S., Segundo; Varela V., Héctor) Alternative Bayes approach for estimating a distribution function in homogeneous right-neutral process. (Spanish. English summary)
Moothathu, T. S. K. (*with* Prasad, M. S.) On uniformly consistent estimation of parametric Lorenz curves. **93b:62064**
Morrell, Christopher H. *see* **Johnson, Richard A.; et al., 93k:62091**
Mukerjee, Hari Estimating conditional quantiles at the root of a regression function. (English summary) **93j:62103**
— Convergence rates of monotone conditional quantile estimators. (English summary) **93j:62104**
Müller, Hans-Georg (*with* Prewitt, Kathy) Applications of multiparameter weak convergence for adaptive nonparametric curve estimation. **93d:62077**
— *see also* **Azari, A. S., 93k:62079**
Nadaraya, È. A. Limit distribution of the quadratic deviation from the regression function of a trigonometric series estimator. (Russian. English and Georgian summaries)
Nagahata, Hidekazu Estimation of the distribution functions under some restriction in two-sample problem. (English summary) **93k:62094**
Nair, Vijayan N. *see* **Bickel, Peter J.; et al., 93h:62068**
Nogueira, M. E. *see* **Delecroix, M.; et al., 93m:62067**
Nolan, D. *see* **Burman, Prabir, 93e:62103** *and* **93k:62083**
Nychka, Douglas W. Choosing a range for the amount of smoothing in nonparametric regression. **93b:62065**
— *see also* **McCaffrey, Daniel F.; et al., 93k:62092**
Oehlert, Gary W. Relaxed boundary smoothing splines. **93e:62114**
O'Sullivan, Finbarr Discretized Laplacian smoothing by Fourier methods. **93i:62034**
Ould-Said, Elias Estimation non paramétrique du mode conditionnel. Application à la prévision. (English and French summaries) [Nonparametric estimation of the conditional mode. Application to prediction] **93m:62080**
Padgett, W. J. *see* **Gulati, S., (93b:62005)**
Padmanabhan, A. R. (*with* Puri, Madan L.) Rank-based estimation of the ratio of scale parameters and applications. **93g:62058**
Pal, Nabendu *see* **Jin, Chun, 93e:62109**
Pan, Huiqi *see* **Goldstein, Harvey**
Park, Byeong U. (*with* Chung, Sung S.; Seog, Kyung H.) An empirical investigation of the shifted power transformation method in density estimation. (English summary)
— *see also* **Hall, Peter Gavin; et al., 93e:62108**
Pawlak, Miroslaw On the almost everywhere properties of the kernel regression estimate. **93d:62078**
Phadia, Eswar G. *see* **Ferguson, Thomas S.; et al., 93i:62028**
Pham Dinh Tuan (*with* Tran, Lanh Tat) Kernel density estimation under a locally mixing condition. **93a:62062**
Picard, Dominique *see* **Kerkyacharian, Gérard, 93a:62060; 93c:62072** *and* **Johnstone, Iain M.; et al., 93h:62083**
Politis, Dimitris N. (*with* Romano, Joseph P.) On the sample variance of linear statistics derived from mixing sequences. (English summary) **93m:62081**
Portier, Bruno *see* **Ango Nzé, Patrick, 93h:62066**
Prakasa Rao, B. L. S. Nonparametric estimation for Galton-Watson type process. **93e:62115**
— *see also* **Bagai, Isha, 93e:62101**
Prasad, M. S. *see* **Moothathu, T. S. K., 93b:62064**
Presedo Quindimil, M. A. *see* **González Manteiga, Wenceslao, 93a:62056**
Presnell, Brett *see* **Hollander, Myles; et al., 93h:62078**
Prewitt, Kathy *see* **Müller, Hans-Georg, 93d:62077**
Puri, Madan L. *see* **Padmanabhan, A. R., 93g:62058**
Qian, Wei Ming Bootstrap approximation of kernel estimates. (Chinese. English and Chinese summaries)
Qin, Yong Song A comparison of the convergence rates of three classes of density estimators. (Chinese. English and Chinese summaries) **93m:62082**
Qiu, Pei Hua Estimation of a kind of jump regression function. (English summary) **93k:62095**
Ralescu, Stefan S. A remainder estimate for the normal approximation of perturbed sample quantiles. **93m:62083**
Rama Krishnaiah, Y. S. *see* **Mehra, K. L.; et al., 93f:62057** *and* **93g:62057**
Ramsay, James O. *see* **Abrahamowicz, Michal; et al., 93e:62099**
Rao, Calyampudi Radhakrishna *see* **Rao, M. Bhaskara; et al., 93a:62063** *and* **Babu, Gutti Jogesh; et al., 93k:62080**
Rao, M. Bhaskara (*with* Babu, Gutti Jogesh; Rao, Calyampudi Radhakrishna) Nonparametric estimation of survival functions under dependent competing risks. **93a:62063**
— *see also* **Babu, Gutti Jogesh; et al., 93k:62080**
Rao, M. Sudhakara *see* **Mehra, K. L.; et al., 93f:62057** *and* **93g:62057**
Rasson, J.-P. *see* **Granville, V., 93e:62104**
Reiss, Rolf-Dieter *see* **Falk, Michael, 93h:62075**
Rilstone, Paul Calculating the (local) semiparametric efficiency bounds for the generated regressors problem. (English summary) **93m:62084**
Robinson, Peter M. Nonparametric function estimation for long memory time series. **93g:62059**
Roeder, Kathryn Semiparametric estimation of normal mixture densities. **93e:62116**
Romano, Joseph P. *see* **Politis, Dimitris N., 93m:62081**
van Rooij, Arnoud C. M. (*with* Ruymgaart, Frits H.) Regularized deconvolution on the circle and the sphere. **93k:62096**
— *see also* **Carroll, Raymond J.; et al., 93a:62049**
Rosa, A. C. *see* **Delecroix, M.; et al., 93m:62067**
Roussas, George G. Estimation of transition distribution function and its quantiles in Markov processes: strong consistency and asymptotic normality. **93e:62117**
— Kernel estimates under association: strong uniform consistency. **93f:62059**
— (*with* Tran, Lanh Tat) Asymptotic normality of the recursive kernel regression estimate under dependence conditions. **93a:62064**
— (*with* Tran, Lanh Tat; Ioannides, D. A.) Fixed design regression for time series: asymptotic normality. **93j:62105**
— *see also* **Cai, Zong Wu, 93h:62070**
Rudzkis, R. On distribution of supremum type functionals of nonparametric estimates for spectral density. **93a:62065**
Ruppert, David (*with* Wand, M. P.) Correcting for kurtosis in density estimation. (English summary)
Ruymgaart, Frits H. Regularized operator inversion as an approach to minimax rate density estimation. **93d:62079**
— *see also* **Carroll, Raymond J.; et al., 93a:62049; Chanda, Kamal C., 93b:62055** *and* **van Rooij, Arnoud C. M., 93k:62096**
Ryu, Hang K. Maximum entropy estimation of density and regression functions. (English summary) **93m:62085**
Samarov, Alexander On asymptotic efficiency of average derivative estimates. **93a:62066**
Sarda, Pascal *see* **Youndjé, Élie; et al., 93m:62092** *and* **Lejeune, Michel**
Sasieni, Peter D. Information bounds for the conditional hazard ratio in a nested family of regression models. **93m:62086**
— Nonorthogonal projections and their application to calculating the information in a partly linear Cox model. (English summary) **93j:62106**
Schick, Anton *see* **Johnson, Richard A.; et al., 93k:62091**
Scott, David W. *see* **Terrell, George R., 93j:62108** *and* **Härdle, Wolfgang**
Sen, Pranab Kumar Statistical functionals, stopping times and asymptotic minimum risk property. **93c:62073**
Seog, Kyung H. *see* **Park, Byeong U.; et al.**
Sethuraman, Jayaram *see* **Hollander, Myles; et al., 93h:62078**
Sheen, Wen Jinn *see* **Ch'ên, T'ien Wên, 93f:62046**
Shi, Sun Juan *see* **Chai, Gen Xiang; et al., 93h:62071**
Shirahata, Shingo (*with* Chu, In-Sun) Integrated squared error of kernel-type estimator of distribution function. (English summary) **93k:62097**
Shiraishi, Taka-aki Statistical inference based on aligned ranks for two-way MANOVA with interaction. **93c:62074**
Silveira, G. B. L_1 strong consistency for density estimates in dependent samples. **93a:62067**
Slud, Eric V. Nonparametric identifiability of marginal survival distributions in the presence of dependent competing risks and a prognostic covariate. (English summary) (*see* **93b:62005**)
Speckman, P. L. *see* **Eubank, R. L., 93d:62060**
Speed, T. P. *see* **Yu, Bin, 93i:62036**
Stefanyuk, A. R. *see* **Vapnik, V. N.; et al., 93m:62089**
Stoker, Thomas M. Equivalence of direct, indirect, and slope estimators of average derivatives. **93h:62086**
— *see also* **Thompson, T. Scott, 93h:62087**
Stolyarenko, D. A. Two-dimensional spline approximation on local integral measurements. Analysis and design of acoustic fish surveys. (English summary) **93g:62060**
Stone, Charles J. Asymptotics for doubly flexible logspline response models. **93f:62060**
— *see also* **Truong, Young K., 93c:62075**
Strömberg, Ulf ★ Isotonic regression based on asymmetric distance functions with applications to biological data. **93e:62118**
Stute, Winfried (*with* Werner, U.) Nonparametric estimation of elliptically contoured densities. **93a:62068**
— Modified cross-validation in density estimation. **93j:62107**
— Strong consistency under the Koziol-Green model. (English summary) **93k:62098**
— *see also* **Ferger, Dietmar, 93m:62071**
Su, Yan *see* **Chai, Gen Xiang; et al., 93h:62071**
Tamm, Ebu On statistical estimation of a probability function. (Russian and Estonian summaries)
Taylor, Malcolm S. (*with* Thompson, James R.) A nonparametric density estimation based resampling algorithm. (English summary) (*see* **93f:62003**)
Terrell, George R. (*with* Scott, David W.) Variable kernel density estimation. (English summary) **93j:62108**
Teugels, Jozef L. *see* **Hall, Peter Gavin; et al., 93e:62107**
Thavaneswaran, A. *see* **Thompson, M. E.**
Thompson, James R. *see* **Taylor, Malcolm S., (93f:62003)**
Thompson, M. E. (*with* Thavaneswaran, A.) On Bayesian nonparametric estimation for stochastic processes. (English summary)
Thompson, T. Scott Equivalence of direct, indirect, and slope estimators of average derivatives. A comment on: "Equivalence of direct, indirect, and slope estimators of average derivatives" [in *Nonparametric and semiparametric methods in econometrics and statistics (Durham, NC, 1988)*, 99–118, Cambridge Univ. Press, Cambridge, 1991; MR 93h:62086] by T. M. Stoker. **93h:62087**
Tiwari, Ram C. *see* **Ferguson, Thomas S.; et al., 93i:62028** *and* **Wells, Martin T., 93i:62035**
Tobbal, Khelifa Sur la convergence presque sûre de l'estimateur de Dekkers, Einmahl et de Haan. (English summary) [On the almost sure convergence of the Dekkers-Einmahl-de Haan estimator] **93e:62119**
Tolley, H. Dennis (*with* Manton, Kenneth G.) Large sample properties of estimates of a discrete grade of membership model. **93k:62099**
Tran, Lanh Tat On multivariate variable-kernel density estimates for time series. (French summary) **93f:62061**
— Kernel density estimation for linear processes. **93d:62080**
— *see also* **Pham Dinh Tuan, 93a:62062; Roussas, George G., 93a:62064** *and* **93j:62105**
Truong, Young K. (*with* Stone, Charles J.) Nonparametric function estimation involving time series. **93c:62075**
— Robust nonparametric regression in time series. **93h:62088**
Tsukahara, Hideatsu A rank estimator in the two-sample transformation model with randomly censored data. (English summary) **93m:62087**
Tsybakov, A. B. *see* **Härdle, Wolfgang; et al., 93d:62064** *and* **Korostelëv, A. P., 93m:62078**
Tu, Dong Sheng (*with* Zhang, Lu) On the estimation of skewness of a statistic using the jackknife and the bootstrap. (English summary) **93j:62109**
Ullah, Aman The exact density of nonparametric regression estimators: fixed design case.

Utzet, Frederic *see* **Gómez, Guadalupe; et al., 93k:62090**
Uzunoğullari, Ülkü (*with* Wang, Jane-Ling) A comparison of hazard rate estimators for left truncated and right censored data. (English summary) **93m:62088**
Vanmarcke, Ann *see* **Hall, Peter Gavin; et al., 93e:62107**
Vapnik, V. N. (*with* Markovich, N. M.; Stefanyuk, A. R.) On the rate of convergence in L_2 of a projection estimator of a probability density. (Russian. Russian summary) **93m:62089**
Vardi, Y. (*with* Zhang, Cun-Hui) Large sample study of empirical distributions in a random-multiplicative censoring model. **93f:62062**
Varela V., Héctor *see* **Mondaca O., Guillermo; et al.**
Velilla Cerdán, Santiago Quantile-based estimation for the Box-Cox transformation in random samples. (English summary) **93k:62100**
Vieu, Philippe Quadratic errors for nonparametric estimates under dependence. **93b:62066**
— Bandwidth selection for kernel regression: a survey. (English summary) (*see* **93m:62004**)
— *see also* **Youndjé, Élie; et al., 93m:62092**
Wahba, Grace *see* **Gu, Chong; et al.**
Walter, Gilbert G. *see* **Cuevas, Antonio, 93k:62084**
Wan, Xinyuan *see* **Jammalamadaka, Sreenivasa R., 93b:62060**
Wand, M. P. Finite sample performance of density estimators under moving average dependence. **93c:62076**
— *see also* **Marron, J. Stephen, 93f:62056** *and* **Ruppert, David**
Wang, Jane-Ling *see* **Uzunoğullari, Ülkü, 93m:62088**
Wang, Paul C. C. *see* **Bickel, Peter J.; et al., 93h:62068**
Wang, Suojin Nonparametric estimation of distribution functions. **93a:62069**
Watelet, L. (*with* Winter, B. B.) Nonparametric estimation of nonincreasing densities and use of data from renewal processes. **93a:62070**
Weba, Michael A note on the estimation of nondifferentiable functions of multinomial probabilities. (English summary) **93j:62110**
Wehrly, Thomas E. *see* **Hart, Jeffrey D.**
Weiner, Daniel Charles *see* **Hahn, Marjorie G., 93f:62053**
Wells, Martin T. (*with* Tiwari, Ram C.) Estimating a distribution function based on minima-nomination sampling. (English summary) **93i:62035**
Werner, U. *see* **Stute, Winfried, 93a:62068**
Wertz, W. On quasi-invariant density estimation. (English summary) **93m:62090**
West, Mike Kernel density estimation and marginalization consistency. **93d:62081**
— *see also* **Hjort, Nils Lid, (93b:62005)**
Winter, B. B. *see* **Watelet, L., 93a:62070**
Wong, Chi-Ming *see* **Kohn, Robert Jacob; et al., 93h:62085**
Woodroofe, Michael *see* **Heckman, Nancy E., 93a:62059**
Wu, K. T. *see* **Johnson, Richard A., 93d:62069**
Wu, Li Peng *see* **Zheng, Zu Kang, 93m:62094**
Xue, Liu Gen The L_p convergence rate of kernel estimates for nonparametric regression functions. (Chinese. English summary) **93b:62067**
Yang, Song *see* **Karunamuni, R. J., 93g:62054**
Yang, Ying (*with* Zheng, Zhong Guo) Asymptotic properties for cross-validated nearest median estimates in nonparametric regression—or: the L_1-view. (English summary) **93j:62111**
Yao, Yi-Ching (*with* Au, S. T.) Least-squares estimation of a step function. (English summary) **93c:62077**
Yatracos, Yannis G. L_1-optimal estimates for a regression type function in $\mathbf{R}^d$. **93d:62082**
Yazourh, O. *see* **Delecroix, M., 93m:62068**
Yin, Ji Ying Sequential density estimation in censored data models with two-stage sampling. (Chinese. English and Chinese summaries) **93m:62091**
— Strong convergence of kernel estimates of nonparametric regression function from randomly censored data. (English summary) **93e:62120**
Youndjé, Élie (*with* Sarda, Pascal; Vieu, Philippe) Estimateur à noyau d'une densité conditionnelle: choix de la fenêtre pour des observations dépendantes. (English and French summaries) [Kernel estimate of conditional density: bandwidth selection for dependent data] **93m:62092**
Yu, Bin (*with* Speed, T. P.) Data compression and histograms. **93i:62036**
Zhang, Cun-Hui *see* **Vardi, Y., 93f:62062**
Zhang, Di Xin Strong uniform consistency of kernel density estimates with random window size. (Chinese. English and Chinese summaries) **93m:62093**
Zhang, Dong En A kind of maximum likelihood estimators for survival functions. (Chinese. English and Chinese summaries)
Zhang, Lu *see* **Tu, Dong Sheng, 93j:62109**
Zhang, Ping[1] Variable selection in nonparametric regression with continuous covariates. **93a:62071**
Zhao, Lin Cheng (*with* Chai, Gen Xiang) Survey of Chinese work on nonparametric density estimation, regression and discrimination. (*see* **93e:62004**)
Zheng, Zhong Guo *see* **Yang, Ying, 93j:62111**
Zheng, Zu Kang (*with* Wu, Li Peng) Estimation of the mean lifetime in nonparametric model under modified type I censoring. (English summary) **93m:62094**
Zhou, Mai Some properties of the Kaplan-Meier estimator for independent non-identically distributed random variables. **93e:62121**

Items with secondary classifications in 62G05

Abramson, Ian (*with* Goldstein, Larry Mark) Efficient nonparametric testing by functional estimation. **93d:62084**
Ahmed, S. E. *see* **Kulperger, R. J., 93g:62067**
Akritas, Michael G. Nonparametric inference in heteroskedastic regression. **93a:62075**
Aras, Girish (*with* Whitaker, Lyn R.) A sequential scheme to estimate the optimal age replacement policy. (English summary) **93m:62211**
Auestad, Bjørn (*with* Tjøstheim, Dag) Functional identification in nonlinear time series. **93a:62123**
Bagai, Isha (*with* Prakasa Rao, B. L. S.) Analysis of survival data with two dependent competing risks. (English summary) **93j:62236**
Bassett, Gilbert W., Jr. The Gauss Markov property for the median. (English summary) **93m:62146**
de Beer, C. F. *see* **Swanepoel, J. W. H., 93g:62040**
Belitser, E. N. (*with* Korostelëv, A. P.) Pseudovalues and minimax filtering algorithms for the nonparametric median. **93k:60102**
Bensaïd, Nadia Inférence non paramétrique pour un processus ponctuel aminci. (English and French summaries) [Nonparametric inference for a thinned point process] **93e:62221**
Bologna, Salvatore Estimating the shape parameter of distributions with regular variation. (Italian. English and Italian summaries) **93j:62061**
Borovskikh, Yu. V. *see* **Korolyuk, V. S., 93a:60013**
Bosq, Denis Modelization, nonparametric estimation and prediction for continuous time processes. **93a:62124**
Brunner, Lawrence J. Bayesian nonparametric methods for data from a unimodal density. **93e:62085**
Chai, Gen Xiang (*with* Li, Zhu Yu; Tian, Hong) Consistent nonparametric estimation of error distributions in linear model. **93b:62091**
Chen, Xi Ru *see* **Zhao, Lin Cheng, 93m:62163**
Cheng, Ping[1] (*with* Xu, Wen Yuan) Estimation of parameters of singular points and its applications to semiparametric models. (Chinese. English and Chinese summaries)
Csörgő, Miklós (*with* Horváth, Lajos) On confidence bands for the quantile function of a continuous distribution function. **93a:62074**
Dargahi-Noubary, G. R. (*with* Nanthakumar, A.) A method for estimating and detecting treatment effects. (English summary) **93j:62048**
Davidsen, Michael (*with* Jacobsen, Martin) Weak convergence of two-sided stochastic integrals, with an application to models for left truncated survival data. **93b:60010**
Davison, A. C. (*with* Hall, Peter Gavin) On the bias and variability of bootstrap and cross-validation estimates of error rate in discrimination problems. (English summary) **93f:62085**
Deheuvels, Paul On the limiting behavior of the Pickands estimator for bivariate extreme-value distributions. **93g:62069**
— (*with* Mason, David M.) Functional laws of the iterated logarithm for the increments of empirical and quantile processes. (English summary) **93h:60046**
— Functional laws of the iterated logarithm for large increments of empirical and quantile processes. (English summary) **93m:60057**
Delgado, Miguel A. Semiparametric generalized least squares in the multivariate nonlinear regression model. (English summary) **93j:62152**
Do, Kim-Anh (*with* Hall, Peter Gavin) Distribution estimation using concomitants of order statistics, with application to Monte Carlo simulation for the bootstrap. **93e:62136**
Donoho, David L. (*with* Liu, Richard C.) Geometrizing rates of convergence. II, III. **93f:62066**
Dzhaparidze, K. O. (*with* Nikulin, M. S.) On the calculation of statistics of chi-square-type tests. (Russian. Russian summary) **93g:62029**
Eastwood, Brian J. Asymptotic normality of semi-nonparametric estimators using minimization of C_p or adaptive polynomial truncation selection procedures. **93d:62118**
Einmahl, John H. J. Limit theorems for tail processes with application to intermediate quantile estimation. (English summary) **93m:60044**
Fan, Jianqing Deconvolution with supersmooth distributions. (English and French summaries) **93j:62137**
Frees, Edward W. Linear regression and U-statistics. (English summary) **93g:60046**
Gaĭvoronskiĭ, Ĕ. I. (*with* Ostrovskiĭ, E. I.) Nonasymptotic estimation of the deviation of a multidimensional empirical distribution function. (Russian) **93a:60040**
Gamboa, F. (*with* Gassiat, Élisabeth) Maximum d'entropie et problème des moments: cas multidimensionnel. (English summary) [Maximum entropy and the moment problem: the multidimensional case] **93g:44018**
Gangopadhyay, Ashis K. *see* **Pawitan, Y., 93e:62242**
Gassiat, Élisabeth *see* **Gamboa, F., 93g:44018**
Girard, Didier A. Asymptotic optimality of the fast randomized versions of GCV and C_L in ridge regression and regularization. **93b:62096**
Goldstein, Larry Mark *see* **Abramson, Ian, 93d:62084**
Gómez, Guadalupe (*with* Van Ryzin, John) Estimation of the subsurvival function for time-to-tumor in survival/sacrifice experiments. **93a:62139**
Govindarajulu, Z. (*with* Nanthakumar, A.) Rate of convergence for the distribution of the Spearman-Karber estimator. **93e:62049**
Greenwood, P. E. (*with* Wefelmeyer, W.) Efficient estimating equations for nonparametric filtered models. **93e:62222**
Gripenberg, Gustaf Confidence intervals for partial rank correlations. **93e:62090**
Gu, Ming Gao[2] On the Edgeworth expansion and bootstrap approximation for the Cox regression model under random censorship. (English and French summaries) **93m:62041**
Hall, Peter Gavin ★ The bootstrap and Edgeworth expansion. **93h:62029**
— On bootstrap confidence intervals in nonparametric regression. **93j:62118**
— (*with* Welsh, A. H.) Corrigendum: "Normal approximation in regression" [J. Multivariate Anal. **39** (1991), no. 1, 87–105; MR 92h:60049]. **93h:60054**
— (*with* Titterington, D. M.) Edge-preserving and peak-preserving smoothing. (English summary) **93g:62088**
— *see also* **Do, Kim-Anh, 93e:62136** *and* **Davison, A. C., 93f:62085**
Hansen, Bruce E. Consistent covariance matrix estimation for dependent heterogeneous processes. **93c:62147**
Harder, Melinda H. Minimum distance estimators of scale with censored data. (English summary) **93k:62203**
Härdle, Wolfgang ★ Smoothing techniques. **93b:62006**
— (*with* Mammen, Enno) Bootstrap methods in nonparametric regression. **93a:62072**
— (*with* Vieu, Philippe) Kernel regression smoothing of time series. **93g:62119**
Hawkins, D. L. (*with* Kochar, Subhash C.) Inference for the crossing point of two continuous CDFs. **93e:62125**
He, Xuming (*with* Portnoy, Stephen) Reweighted LS estimators converge at the same rate as the initial estimator. (English summary) **93k:62138**
Heiler, Siegfried Bounded influence and high breakdown point regression with linear combinations of order statistics and rank statistics. (English summary) **93m:62151**
Hong, Sheng Yan Local oscillation modulus of the uniform empirical process. (English summary) **93i:60060**
Horowitz, Joel L. A smoothed maximum score estimator for the binary response model. **93a:62143**

Horváth, Lajos *see* **Csörgő, Miklós, 93a:62074**
Hušková, Marie Sequentially adaptive nonparametric procedures. (*see* **93g:62102**)
Jacobsen, Martin *see* **Davidsen, Michael, 93b:60010**
Janssen, Paul (*with* Veraverbeke, Noël) Bootstrapping U-statistics with estimated parameters. **93e:62132**
Jin, Kun Empirical smoothing parameter selection in adaptive estimation. (English summary) **93m:62060**
Jolivet, Emmanuel Moment estimation for stationary point processes in $\mathbf{R}^d$. (English summary) (*see* **93g:62004**)
Kamont, A. ε-entropy and moduli of smoothness in L^p-spaces. **93k:41022**
Katkauskaitė, Aldona The rate of convergence of a Shepard estimate in the presence of random interference. (Russian. English, Russian and Ukrainian summaries) **93h:41002**
Kaufmann, Edgar (*with* Reiss, Rolf-Dieter) On conditional distributions of nearest neighbors. (English summary) **93g:60102**
Kay, J. W. A comparison of smoothing parameter choices in image restoration. (English summary) (*see* **93g:62004**)
Klein, Roger W. (*with* Spady, Richard H.) An efficient semiparametric estimator for binary response models. (English summary) **93k:62214**
Kochar, Subhash C. *see* **Hawkins, D. L., 93e:62125**
Korolyuk, V. S. (*with* Borovskikh, Yu. V.) Weak convergence of distributions of UH-statistics to stable laws. (Russian) **93a:60013**
Korostelëv, A. P. *see* **Belitser, E. N., 93k:60102**
Kronmal, Richard A. *see* **Langholz, Bryan, 93b:62073**
Kulperger, R. J. (*with* Ahmed, S. E.) A bootstrap theorem for a preliminary test estimator. **93g:62067**
Kurotschka, Viktor (*with* Müller, Christine H.) Optimum robust estimation of linear aspects in conditionally contaminated linear models. **93k:62071**
Lahiri, Parthasarathi (*with* Tiwari, Ram C.) Nonparametric Bayes and empirical Bayes estimation of variance from stratified samples. (English summary) **93e:62025**
Lai, Tze Leung (*with* Ying, Zhiliang) Linear rank statistics in regression analysis with censored or truncated data. **93d:62124**
Lam, Yeh Nonparametric inference for geometric processes. **93i:62076**
Langholz, Bryan (*with* Kronmal, Richard A.) Tests of distributional hypotheses with nuisance parameters using Fourier series methods. **93b:62073**
Lau, Tai-Shing The reliability of exchangeable binary systems. **93c:62160**
Lavine, Michael A note on bounding Monte Carlo variances. (English summary) **93j:62046**
Lee, Lung Fei Semiparametric nonlinear least-squares estimation of truncated regression models. **93c:62119**
Li, Zhi Qiang Asymptotic solutions to a class of Bayesian discrimination problems. (Chinese. English and Chinese summaries) **93m:62018**
Li, Zhu Yu An asymptotic optimality of the discriminant procedure based on a nearest neighbor density estimator. **93k:62127**
— *see also* **Chai, Gen Xiang; et al., 93b:62091**
Liu, Richard C. *see* **Donoho, David L., 93f:62066**
Loader, Clive R. A log-linear model for a Poisson process change point. (English summary) **93k:62200**
Lu, Wei[2] (*with* Shi, Xi Quan[1]) Berry-Esseen bound for jackknifing function of U-statistics. (English summary) **93g:60051**
Maguluri, Gangaji Estimation in a semiparametric model by the method of minimum distance. **93c:62042**
Mammen, Enno Bootstrap, wild bootstrap, and asymptotic normality. (English summary) **93h:62090**
— *see also* **Härdle, Wolfgang, 93a:62072**
Marron, J. Stephen Bootstrap bandwidth selection. (English summary) **93j:62121**
Mason, David M. *see* **Deheuvels, Paul, 93h:60046**
Matzkin, Rosa L. A nonparametric maximum rank correlation estimator. **93j:62247**
— Nonparametric and distribution-free estimation of the binary threshold crossing and the binary choice models. **93a:62144**
(McKeague, Ian W.) *see* **Sasieni, Peter D., (93b:62005)**
Męczarski, Marek Fixed-width interval estimation of the minimum point of a regression function based on the Kiefer-Wolfowitz procedure. **93g:62109**
Mehra, K. L. (*with* Rao, M. Sudhakara; Upadrasta, S. P.) A smooth conditional quantile estimator and related applications of conditional empirical processes. **93d:62119**
— (*with* Rama Krishnaiah, Y. S.; Rao, M. Sudhakara) Asymptotic normality of rank nearest neighbor regression function estimators under strong mixing. **93a:62094**
Moreno, M. H. *see* **Mukhopadhyay, Nitis, 93h:62147**
Morgenthaler, Stephan The bias of least squares polynomial interpolants. **93j:62187**
Mukhopadhyay, Nitis (*with* Moreno, M. H.) Multistage and sequential minimum risk point estimation procedures for the means of generalized U-statistics. (English summary) **93h:62147**
Müller, Christine H. *see* **Kurotschka, Viktor, 93k:62071**
Nanthakumar, A. *see* **Govindarajulu, Z., 93e:62049** *and* **Dargahi-Noubary, G. R., 93j:62048**
Nikulin, M. S. *see* **Dzhaparidze, K. O., 93g:62029**
Ostrovskiĭ, E. I. *see* **Gaĭvoronskiĭ, È. I., 93a:60040**
Oulidi, Abderrahim Loi du logarithme itéré uniforme dilatée. Applications. (English and French summaries) [Uniform expanded law of iterated logarithm. Applications] **93k:60077**
Owen, Art B. Empirical likelihood for linear models. **93b:62022**
— A central limit theorem for Latin hypercube sampling. **93j:62047**
Pawitan, Y. (*with* Gangopadhyay, Ashis K.) Efficient bias corrected nonparametric spectral estimation. **93e:62242**
Pepe, Margaret Sullivan Inference for events with dependent risks in multiple endpoint studies. **93b:62076**
Phadia, Eswar G. (*with* Yu, Qi Qing) Minimaxity and admissibility of the product limit estimator. **93a:62009**
— *see also* **Yu, Qi Qing, 93j:62018**
Plaskota, L. Function approximation and integration on the Wiener space with noisy data. (English summary) **93m:65016**
Portnoy, Stephen *see* **He, Xuming, 93k:62138**
Præstgaard, Jens Nonparametric estimation of actuarial values. (English summary) **93g:62133**
Prakasa Rao, B. L. S. *see* **Bagai, Isha, 93j:62236**
Qian, Shi Xian Minimum lower sets algorithms for isotonic regression. (English summary) **93j:62085**
Qin, Yong Song Mean square convergence of a mixing-type estimator of a nonparametric regression function. (Chinese. English and Chinese summaries) **93j:62139**
Rama Krishnaiah, Y. S. *see* **Mehra, K. L.; et al., 93a:62094**
Rao, M. Sudhakara *see* **Mehra, K. L.; et al., 93a:62094** *and* **93d:62119**
Ratnasabapathi, D. (*with* Thavaneswaran, A.; Singh, Jagbir) Optimal estimation of polynomial hazard functions. (English summary) **93h:62183**
Reiss, Rolf-Dieter *see* **Kaufmann, Edgar, 93g:60102**
Rejtő, Lidia (*with* Walter, Gilbert G.) Remarks on projection pursuit regression and density estimation. **93f:62086**
Ritov, Ya'acov Estimating functions in semi-parametric models. **93a:62032**
Robins, James M. Estimation of the time-dependent accelerated failure time model in the presence of confounding factors. (English summary) **93h:62185**
Sasieni, Peter D. Information bounds for the additive and multiplicative intensity models. (English summary) (*see* **93b:62005**)
Sen, Pranab Kumar Nonparametric methods in sequential analysis. (*see* **93g:62102**)
— The Pitman closeness of statistical estimators: latent years and the renaissance. (English summary) **93i:62022**
Severini, Thomas A. *see* **Staniswalis, Joan G., 93h:62096**
Shao, Jun[1] Statistical inferences based on sample quantiles and jackknife. (English and Chinese summaries) **93i:62039**
Shi, Sheng G. Accurate and efficient double-bootstrap confidence limit method. **93a:62046**
Shi, Xi Quan[1] *see* **Lu, Wei[2], 93g:60051**
Singh, Jagbir *see* **Ratnasabapathi, D.; et al., 93h:62183**
Sobel, Marc Cross-validated assessments of test scoring models. (English summary) **93j:62059**
Spady, Richard H. *see* **Klein, Roger W., 93k:62214**
Staniswalis, Joan G. (*with* Severini, Thomas A.) Diagnostics for assessing regression models. **93h:62096**
Stute, Winfried Conditional U-statistics. **93e:60048**
Sueyoshi, Glenn T. Semiparametric proportional hazards estimation of competing risks models with time-varying covariates. **93i:62093**
Swanepoel, J. W. H. (*with* de Beer, C. F.) A new nonparametric estimator for the mean of the selected population. (English summary) **93g:62040**
Szeidl, László On the limit distributions of multi-sample von Mises functionals with variable polynomial kernels. **93h:62031**
Teugels, Jozef L. *see* **Vanmarcke, Ann, 93h:60053**
Thavaneswaran, A. *see* **Ratnasabapathi, D.; et al., 93h:62183**
Tiago de Oliveira, José Perspectives on the statistics of extremes. Basic results and open problems. (Portuguese. English and Spanish summaries) **93c:60077**
Tian, Hong *see* **Chai, Gen Xiang; et al., 93b:62091**
Titterington, D. M. Choosing the regularization parameter in image restoration. (English summary) (*see* **93g:62004**)
— *see also* **Hall, Peter Gavin, 93g:62088**
Tiwari, Ram C. *see* **Lahiri, Parthasarathi, 93e:62025**
Tjøstheim, Dag *see* **Auestad, Bjørn, 93a:62123**
Trybuła, Stanisław Minimax estimation of a cumulative distribution function for a special loss function. **93m:62029**
Upadrasta, S. P. *see* **Mehra, K. L.; et al., 93d:62119**
Vanmarcke, Ann (*with* Teugels, Jozef L.) The region of convergence of the Laplace transform: almost sure estimation. **93h:60053**
Van Ryzin, John *see* **Gómez, Guadalupe, 93a:62139**
Veraverbeke, Noël *see* **Janssen, Paul, 93e:62132**
Vieu, Philippe *see* **Härdle, Wolfgang, 93g:62119**
Walter, Gilbert G. *see* **Rejtő, Lidia, 93f:62086**
Wang, You Gan *see* **Zheng, Zhong Guo; et al.**
Wefelmeyer, W. *see* **Greenwood, P. E., 93e:62222**
Wells, Martin T. The weak approximation of the empirical characteristic function process when parameters are estimated. **93f:60042**
Welsh, A. H. *see* **Hall, Peter Gavin, 93h:60054**
Whitaker, Lyn R. *see* **Aras, Girish, 93m:62211**
White, Halbert (*with* Wooldridge, Jeffrey M.) Some results on sieve estimation with dependent observations. **93j:62232**
Wiens, Douglas P. (*with* Wu, K. H. Eden) Distributions minimizing Fisher information for scale in Kolmogorov neighbourhoods. (French summary) **93f:62041**
Wong, Wing Hung On asymptotic efficiency in estimation theory. **93k:62061**
Wooldridge, Jeffrey M. *see* **White, Halbert, 93j:62232**
Wu, K. H. Eden *see* **Wiens, Douglas P., 93f:62041**
Xu, Wen Yuan *see* **Cheng, Ping[1]**
Yin, Ming *see* **Zheng, Zhong Guo; et al.**
Ying, Zhiliang *see* **Lai, Tze Leung, 93d:62124**
Yu, Qi Qing (*with* Phadia, Eswar G.) Minimaxity of the best invariant estimator of a distribution function under the Kolmogorov-Smirnov loss. (English summary) **93j:62018**
— Inadmissibility of the best invariant estimator of a distribution function. (English summary) **93j:62019**
— Minimaxity of the empirical distribution function in discrete invariant estimation of a distribution function. **93g:62018**
— *see also* **Phadia, Eswar G., 93a:62009**
Yukich, J. E. Weak convergence of smoothed empirical processes. (English summary) **93k:60019**
Zhao, Lin Cheng (*with* Chen, Xi Ru) Asymptotic behavior of M-test statistics in linear models. (English summary) **93m:62163**
Zheng, Zhong Guo (*with* Wang, You Gan; Yin, Ming) U-statistics in general regression models. (Chinese. English and Chinese summaries)
Zheng, Zu Kang The class K of estimators of mean lifetime with applications. **93g:62124**
Zhou, Mai Asymptotic normality of the "synthetic data" regression estimator for censored survival data. **93g:62134**

62G07 Curve estimation (nonparametric regression, density estimation, etc.)

Puri, Prem S. (*with* Singh, Harshinder) Estimation of a distribution function dominating stochastically a known distribution function. (English summary) **93i:62037**
Singh, Harshinder *see* **Puri, Prem S., 93i:62037**

Items with secondary classifications in 62G07

Fuh, C. D. Bootstrapping the autocorrelation coefficient of finite Markov chains. (English summary) **93j:62209**

62G09 Resampling methods

Angus, John E. Asymptotic theory for bootstrapping the extremes. (English summary) **93j:62112**
Athreya, K. B. (*with* Fuh, C. D.) Bootstrapping Markov chains: countable case. (English summary) **93j:62113**
Babu, Gutti Jogesh Subsample and half-sample methods. (English summary) **93k:62101**
Bailey, William A. Bootstrapping for order statistics sans random numbers (operational bootstrapping). (English summary) **93j:62114**
Bedrick, Edward J. (*with* Hill, Joe R.) A generalized bootstrap. (English summary) **93j:62115**
Bickel, Peter J. Theoretical comparison of different bootstrap t confidence bounds. (English summary) **93k:62102**
Boos, Dennis D. *see* **Zhang, Ji**
Booth, James G. (*with* Hall, Peter Gavin; Wood, Andrew T. A.) Bootstrap estimation of conditional distributions. (English summary) **93j:62116**
Brownstone, David Bootstrapping admissible linear model selection procedures. (English summary) (*see* **93f:62003**)
Burdick, Donald S. *see* **Tu, Xin M.; et al., (93f:62003)**
Cao-Abad, R. Rate of convergence for the wild bootstrap in nonparametric regression. **93b:62068**
Casella, George (*with* George, Edward I.) Explaining the Gibbs sampler. (English summary)
Davison, A. C. (*with* Hinkley, D. V.; Worton, B. J.) Bootstrap likelihoods. **93c:62078**
Efron, Bradley Six questions raised by the bootstrap. (English summary) **93j:62117**
— (*with* LePage, Raoul) Introduction to bootstrap. (*see* **93f:62003**)
— Jackknife-after-bootstrap standard errors and influence functions. **93c:62079**
Fisher, Nicholas I. (*with* Hall, Peter Gavin) Bootstrap methods for directional data. (English summary) (*see* **93b:62003**)
Fu, James C. (*with* Li, Lung An) Method of pao-zhuan yin-yu: a method of stochastic point estimation. **93d:62083**
Fuh, C. D. *see* **Athreya, K. B., 93j:62113**
Gangopadhyay, Ashis K. (*with* Sen, Pranab Kumar) Bootstrap confidence intervals for conditional quantile functions. (English summary) **93f:62063**
George, Edward I. *see* **Casella, George**
Hall, Peter Gavin On bootstrap confidence intervals in nonparametric regression. **93j:62118**
— *see also* **Booth, James G.; et al., 93j:62116** *and* **Fisher, Nicholas I., (93b:62003)**
Härdle, Wolfgang (*with* Mammen, Enno) Bootstrap methods in nonparametric regression. **93a:62072**
Helmers, R. (*with* Janssen, Paul; Veraverbeke, Noël) Bootstrapping U-quantiles. (English summary) **93j:62119**
Hill, Joe R. *see* **Bedrick, Edward J., 93j:62115**
Hinkley, D. V. *see* **Davison, A. C.; et al., 93c:62078**
Horn, Paul S. Quasi-nonparametric upper tolerance regions based on the bootstrap. (English summary) **93h:62089**
Janssen, Paul *see* **Helmers, R.; et al., 93j:62119**
Kinateder, John G. An invariance principle applicable to the bootstrap. **93m:62095**
Kipnis, Victor Bootstrap assessment of prediction in exploratory regression analysis. (English summary) (*see* **93f:62003**)
Lahiri, Soumendra Nath Bootstrapping M-estimators of a multiple linear regression parameter. (English summary) **93i:62038**
— On bootstrapping M-estimators. (English summary) **93m:62096**
LePage, Raoul Bootstrapping signs. (English summary) **93m:62097**
— *see also* **Efron, Bradley, (93f:62003)**
Li, Lung An *see* **Fu, James C., 93d:62083**
Liu, Ke Jian *see* **Shi, Xi Quan[1], 93f:62064**
Mammen, Enno Bootstrap, wild bootstrap, and asymptotic normality. (English summary) **93h:62090**
— Higher order accuracy of the bootstrap method for smooth functionals. (English summary) **93j:62120**
— *see also* **Härdle, Wolfgang, 93a:62072**
Marron, J. Stephen Bootstrap bandwidth selection. (English summary) **93j:62121**
Mason, David M. (*with* Newton, Michael A.) A rank statistics approach to the consistency of a general bootstrap. (English summary) **93h:62091**
Mitchell, B. C. *see* **Tu, Xin M.; et al., (93f:62003)**
Newton, Michael A. *see* **Mason, David M., 93h:62091**
Patwardhan, Girish *see* **Peddada, Shyamal Das, 93j:62122**
Peddada, Shyamal Das (*with* Patwardhan, Girish) Qualms about BC_a bootstrap confidence intervals. (English summary) **93j:62122**
Politis, Dimitris N. (*with* Romano, Joseph P.) A circular block-resampling procedure for stationary data. (English summary) **93j:62123**
Rocke, David M. Almost-exact parametric bootstrap calculation via the saddlepoint approximation. (English summary) **93m:62098**
Romano, Joseph P. *see* **Politis, Dimitris N., 93j:62123**
Sen, Pranab Kumar *see* **Gangopadhyay, Ashis K., 93f:62063**
Shao, Jun[1] Statistical inferences based on sample quantiles and jackknife. (English and Chinese summaries) **93i:62039**
— Bootstrap variance estimators with truncation. (English summary) **93m:62099**
Shi, Sheng G. Local bootstrap. **93b:62069**
Shi, Xi Quan[1] (*with* Liu, Ke Jian) Resampling method under dependent models. **93f:62064**
Sitter, R. R. A resampling procedure for complex survey data. (English summary) **93h:62092**
Tibshirani, Robert Some applications of the bootstrap in complex problems. (*see* **93f:62003**)
Tu, Dong Sheng (*with* Zheng, Zhong Guo) Random weighting: another approach to approximate the unknown distributions of pivotal quantities. (English summary) **93j:62124**
Tu, Xin M. (*with* Burdick, Donald S.; Mitchell, B. C.) Nonparametric rank estimation using bootstrap resampling and canonical correlation analysis. (English summary) (*see* **93f:62003**)
Veraverbeke, Noël *see* **Helmers, R.; et al., 93j:62119**
Wood, Andrew T. A. *see* **Booth, James G.; et al., 93j:62116**
Worton, B. J. *see* **Davison, A. C.; et al., 93c:62078**
Zhang, Ji (*with* Boos, Dennis D.) Testing hypotheses about covariance matrices using bootstrap methods. (English summary)
Zheng, Zhong Guo Random weighting method: another approach to approximate the error distribution of estimators. (*see* **93e:62004**)
— *see also* **Tu, Dong Sheng, 93j:62124**

Items with secondary classifications in 62G09

Ahmed, S. E. *see* **Kulperger, R. J., 93g:62067**
Ali Mousa, M. A. M. The bootstrap risk of linear empirical Bayes estimates. (English summary)
Arcones, Miguel A. (*with* Giné, Evarist) On the bootstrap of U and V statistics. **93f:62021**
Athreya, K. B. (*with* Fuh, C. D.) Bootstrapping Markov chains. (English summary) **93h:62153**
Atkinson, Scott E. (*with* Wilson, Paul W.) The bias of bootstrapped versus conventional standard errors in the general linear and SUR models. (English summary) **93j:62184**
Beran, Rudolf (*with* Ducharme, Gilles R.) ★ Asymptotic theory for bootstrap methods in statistics. **93c:62002**
— (*with* Millar, P. W.) Tests of fit for logistic models. (English summary) **93j:62125**
Breiman, Leo The little bootstrap and other methods for dimensionality selection in regression: X-fixed prediction error. (English summary) **93g:62089**
Crowell, John I. (*with* Sen, Pranab Kumar) On stopping times for fixed-width confidence regions. (English summary) **93j:62205**
Csörgő, Sándor On the law of large numbers for the bootstrap mean. **93g:60063**
Datta, Somnath (*with* McCormick, William P.) Bootstrap for a finite state Markov chain based on i.i.d. resampling. (English summary) **93k:62171**
Davison, A. C. (*with* Hall, Peter Gavin) On the bias and variability of bootstrap and cross-validation estimates of error rate in discrimination problems. (English summary) **93f:62085**
DiCiccio, Thomas J. (*with* Martin, Michael A.; Young, G. Alastair) Fast and accurate approximate double bootstrap confidence intervals. (English summary) **93f:62040**
Do, Kim-Anh (*with* Hall, Peter Gavin) Distribution estimation using concomitants of order statistics, with application to Monte Carlo simulation for the bootstrap. **93e:62136**
Ducharme, Gilles R. *see* **Beran, Rudolf, 93c:62002**
Eubank, R. L. (*with* Speckman, P. L.) A bias reduction theorem with applications in nonparametric regression. **93d:62060**
Fan, Da Yin A bootstrap confidence limit for reliability of parallel systems with pass-fail components tested by inspections with a known probability of being correct. (Chinese. English and Chinese summaries)
Franke, Jürgen (*with* Härdle, Wolfgang) On bootstrapping kernel spectral estimates. **93b:62129**
— *see also* **Kreiss, Jens-Peter, 93h:62162**
Fuh, C. D. *see* **Athreya, K. B., 93h:62153**
Giné, Evarist *see* **Arcones, Miguel A., 93f:62021**
Hall, Peter Gavin ★ The bootstrap and Edgeworth expansion. **93h:62029**
— Effect of bias estimation on coverage accuracy of bootstrap confidence intervals for a probability density. **93e:62131**
— (*with* Padmanabhan, A. R.) On the bootstrap and the trimmed mean. **93d:62030**
— *see also* **Do, Kim-Anh, 93e:62136** *and* **Davison, A. C., 93f:62085**
Härdle, Wolfgang (*with* Hart, Jeffrey D.) A bootstrap test for positive definiteness of income effect matrices. (English summary) **93h:62193**
— *see also* **Franke, Jürgen, 93b:62129**
Hart, Jeffrey D. *see* **Härdle, Wolfgang, 93h:62193**
Janssen, Paul (*with* Veraverbeke, Noël) Bootstrapping U-statistics with estimated parameters. **93e:62132**
Kreiss, Jens-Peter (*with* Franke, Jürgen) Bootstrapping stationary autoregressive moving-average models. **93h:62162**
Kulperger, R. J. (*with* Ahmed, S. E.) A bootstrap theorem for a preliminary test estimator. **93g:62067**
Lo, Albert Y. Bayesian bootstrap clones and a biometry function. (English summary) **93h:62059**
Martin, Michael A. *see* **DiCiccio, Thomas J.; et al., 93f:62040**
McCormick, William P. *see* **Datta, Somnath, 93k:62171**
Millar, P. W. *see* **Beran, Rudolf, 93j:62125**
Padmanabhan, A. R. *see* **Hall, Peter Gavin, 93d:62030**
Paparoditis, Efstathios (*with* Streitberg, Bernd) Order identification statistics in stationary autoregressive moving-average models: vector autocorrelations and the bootstrap. (English summary) **93h:62166**
Qian, Wei Ming Bootstrap approximation of kernel estimates. (Chinese. English and Chinese summaries)
Sadowsky, John S. On the optimality and stability of exponential twisting in Monte Carlo estimation. (English summary)
Sen, Pranab Kumar *see* **Crowell, John I., 93j:62205**
Sitter, R. R. Comparing three bootstrap methods for survey data. (English and French summaries) **93e:62035**
Speckman, P. L. *see* **Eubank, R. L., 93d:62060**
Stoffer, David S. (*with* Wall, Kent D.) Bootstrapping state-space models: Gaussian maximum likelihood estimation and the Kalman filter. **93a:62129**

Streitberg, Bernd *see* **Paparoditis, Efstathios, 93h:62166**
Taylor, Malcolm S. (*with* Thompson, James R.) A nonparametric density estimation based resampling algorithm. (English summary) (*see* **93f:62003**)
Thompson, James R. *see* **Taylor, Malcolm S., (93f:62003)**
Tu, Dong Sheng (*with* Zhang, Lu) On the estimation of skewness of a statistic using the jackknife and the bootstrap. (English summary) **93j:62109**
Veraverbeke, Noël *see* **Janssen, Paul, 93e:62132**
Wall, Kent D. *see* **Stoffer, David S., 93a:62129**
Wilson, Paul W. *see* **Atkinson, Scott E., 93j:62184**
Young, G. Alastair *see* **DiCiccio, Thomas J.; et al., 93f:62040**
Zhang, Lu *see* **Tu, Dong Sheng, 93j:62109**
Zhao, Lin Cheng On jackknifing the sample median. (English summary) **93j:62044**

62G10 Hypothesis testing

Abramson, Ian (*with* Goldstein, Larry Mark) Efficient nonparametric testing by functional estimation. **93d:62084**
Ahluwalia, Rashpal *see* **Rohatgi, Vijay K.; et al., 93f:62069**
Ahmad, R. Nonparametric statistical signal detection problems. **93k:62103**
Akritas, Michael G. (*with* Johnson, Richard A.) Symmetrized approximate score rank tests for the two-sample case. (English summary) **93m:62100**
— Rank transform statistics with censored data. **93c:62080**
Albers, Willem Asymptotic expansions for two-stage rank tests. (English summary) **93k:62104**
— Deficiencies of combined rank tests. (English summary) **93m:62101**
Aly, Emad-Eldin A. A. On the convergence of an Anderson-Darling statistic based on normalized spacings. **93b:62070**
— (*with* Shayib, Mohammed A.) On some goodness-of-fit tests for the normal, logistic and extreme-value distributions.
Ardanuy Albájar, Ramón (*with* Soldevilla Moreno, Ma. del Mar; Martín Martín, Quintín) A normality omnibus test based on skewness and kurtosis coefficients.
Baek, Ehung G. (*with* Brock, William A.) A nonparametric test for independence of a multivariate time series. **93d:62085**
Baglivo, Jenny (*with* Olivier, Donald; Pagano, Marcello) Methods for exact goodness-of-fit tests.
Bairamov, I. G. (*with* Petunin, Yu. I.) Statistical criteria based on training samples. (Russian. English and Ukrainian summaries) **93d:62086**
Bajorski, Piotr Max-type rank tests in the two-sample problem. **93m:62102**
Bakirov, N. K. Testing nonparametric hypothesis for random processes. (*see* **93k:60008**)
Banerjee, Tathagata *see* **Chatterjee, Shoutir Kishore, 93i:62041**
Baringhaus, L. (*with* Henze, N.) A characterization of and new consistent tests for symmetry. **93k:62105**
— (*with* Henze, N.) An adaptive omnibus test for exponentiality. **93m:62103**
Benghabrit, Youssef (*with* Hallin, Marc) Optimal rank-based tests against first-order superdiagonal bilinear dependence. (English summary) **93i:62040**
Beran, Jan (*with* Ghosh, Sucharita) Slowly decaying correlations, testing normality, nuisance parameters. **93g:62061**
Beran, Rudolf (*with* Millar, P. W.) Tests of fit for logistic models. (English summary) **93j:62125**
Bickel, Peter J. (*with* Zhang, Ping[1]) Variable selection in nonparametric regression with categorical covariates. **93d:62087**
Blair, R. Clifford (*with* Thompson, G. L.) A distribution-free rank-like test for scale with unequal population locations.
Brock, William A. *see* **Baek, Ehung G., 93d:62085**
Brown, Bruce Maxwell (*with* Hettmansperger, Thomas P.; Nyblom, Jukka; Oja, Hannu) On certain bivariate sign tests and medians. **93f:62065**
Brunner, Edgar (*with* Dette, Holger) Rank procedures for the two-factor mixed model. (English summary) **93j:62126**
Burger, H. U. Dispersion orderings with applications to nonparametric tests. (English summary) **93k:62106**
Burke, M. D. (*with* Gombay, Edit) Tests of fit for Cox's regression model. (English summary) **93m:62104**
Carriere, Jacques Nonparametric tests for mixed Poisson distributions. (English summary) **93m:62105**
Chan, Ngai Hang (*with* Tran, Lanh Tat) Nonparametric tests for serial dependence. **93e:62122**
Chang, Derek K. A note on the distribution of the Wilcoxon rank sum statistic. (English summary) **93c:62081**
Chatterjee, Shoutir Kishore (*with* Banerjee, Tathagata) Reinforced Mann-Whitney tests for the two-sample location problem. (English summary) **93i:62041**
Chen, Gui Jing *see* **Hu, Shu He; et al., 93j:62130**
Cheng, Ping[1] (*with* Zhu, Li Xing) The tail probability inequalities for the PP type Cramér-von Mises statistics. (English summary) **93h:62093**
Conti, P. L. Oscillation measures as randomness tests. (English and Italian summaries) **93m:62106**
Critchlow, Douglas E. On rank statistics: an approach via metrics on the permutation group. (English summary) **93j:62127**
Crowley, John *see* **Jones, Michael P.**
Dawid, A. Philip *see* **Seillier-Moiseiwitsch, F.; et al., 93g:62063**
DeMets, David L. *see* **Lee, Jae Won, 93d:62091**
Dette, Holger *see* **Brunner, Edgar, 93j:62126**
Donoho, David L. (*with* Liu, Richard C.) Geometrizing rates of convergence. II, III. **93f:62066**
Doukhan, Paul (*with* Gassiat, Élisabeth) Quadratic deviation of penalized mean squares regression estimates. **93i:62042**
Drees, Holger (*with* Milbrodt, Hartmut) Components of the two-sided Kolmogorov-Smirnov test in signal detection problems with Gaussian white noise. **93d:62088**
Dufour, Jean-Marie (*with* Hallin, Marc) Nonuniform bounds for nonparametric *t*-tests. **93e:62123**
— (*with* Hallin, Marc) Simple exact bounds for distributions of linear signed rank statistics. **93j:62128**
Duran, B. S. *see* **Martínez-Morales, Manuel**
Ermakov, M. S. On asymptotic minimaxity of rank tests. (English summary) **93j:62129**
Eubank, R. L. (*with* Hart, Jeffrey D.) Testing goodness-of-fit in regression via order selection criteria. (English summary) **93k:62107**
— (*with* LaRiccia, V. N.) Asymptotic comparison of Cramér-von Mises and nonparametric function estimation techniques for testing goodness-of-fit. (English summary) **93k:62108**
— (*with* Thomas, Will) Detecting heteroscedasticity in nonparametric regression. (English summary) **93k:62109**
Fisher, Nicholas I. *see* **Mammen, Enno; et al., 93c:62083**
Gassiat, Élisabeth *see* **Doukhan, Paul, 93i:62042**
Gastaldi, Tommaso Testing a censoring hypothesis through an identity test.
— A Kolmogorov-Smirnov test procedure involving a possibly censored or truncated sample. (English summary)
— Interpolating missing values in a censored sample. (English summary)
Ghorbanzadeh, Dariush (*with* Picard, Dominique) Étude asymptotique et pratique du comportement de deux tests de détection de rupture. (French summary) [Asymptotic study and application of the behavior of two change-point-detection tests]
Ghosh, Sucharita *see* **Beran, Jan, 93g:62061**
Glaz, Joseph Approximations for tail probabilities and moments of the scan statistic. (English summary) **93i:62043**
Goldstein, Larry Mark *see* **Abramson, Ian, 93d:62084**
Gombay, Edit (*with* Horváth, Lajos) A goodness-of-fit test for exponential families. (English summary) **93m:62107**
— *see also* **Burke, M. D., 93m:62104**
Govindarajulu, Z. A brief review of the role of lattices in rank order statistics. (English summary) **93m:62108**
Grzegorzewski, P. The infinitesimal robustness of tests against dependence. (English summary) **93k:62110**
Hallin, Marc (*with* Mélard, Guy; Milhaud, Xavier) Permutational extreme values of autocorrelation coefficients and a Pitman test against serial dependence. **93d:62089**
— *see also* **Dufour, Jean-Marie, 93e:62123**; **Benghabrit, Youssef, 93i:62040** *and* **Dufour, Jean-Marie, 93j:62128**
Hart, Jeffrey D. *see* **Eubank, R. L., 93k:62107**
Haunsperger, Deanna B. Dictionaries of paradoxes for statistical tests on k samples. **93f:62067**
Hawkins, D. L. Retrospective and sequential tests for change in an estimable parameter based on U-statistics. (English summary) **93e:62124**
— (*with* Kochar, Subhash C.) Inference for the crossing point of two continuous CDFs. **93e:62125**
— (*with* Kochar, Subhash C.; Loader, Clive R.) Testing exponentiality against IDMRL distributions with unknown change point. **93b:62071**
— Detecting shifts in functions of multivariate location and covariance parameters. (English summary) **93m:62109**
Henze, N. *see* **Baringhaus, L., 93k:62105** *and* **93m:62103**
Hettmansperger, Thomas P. (*with* Nyblom, Jukka; Oja, Hannu) On multivariate notions of sign and rank. (English summary) **93m:62110**
— *see also* **Brown, Bruce Maxwell; et al., 93f:62065**
Hollander, Myles (*with* Peña, Edsel A.) A chi-squared goodness-of-fit test for randomly censored data. **93c:62082**
Horváth, Lajos *see* **Gombay, Edit, 93m:62107**
Hsieh, John J. A hazard process for survival analysis. (English summary) **93m:62111**
Hu, Shu He (*with* Zhou, Wei Xin; Chen, Gui Jing) Asymptotic sufficiency of rank statistics. (Chinese. English and Chinese summaries) **93j:62130**
Ingster, Yu. I. Adaptive tests for minimax testing of nonparametric hypotheses. **93b:62072**
Ivanov, V. V. *see* **Zrelov, P. V.**
Jammalamadaka, Sreenivasa R. *see* **Wells, Martin T.; et al., 93m:62116**
Janssen, Arnold Optimal k-sample tests for randomly censored data. **93g:62062**
Ji, Ping *see* **Rohatgi, Vijay K.; et al., 93f:62069**
Joe, Harry Tests of uniformity for sets of lotto numbers. (English summary)
Johnson, Richard A. *see* **Akritas, Michael G., 93m:62100**
Jones, Michael P. (*with* Crowley, John) Nonparametric tests of the Markov model for survival data. (English summary)
Kimeldorf, George (*with* Sampson, Allan R.; Whitaker, Lyn R.) Min and max scorings for two-sample ordinal data. **93e:62126**
Kochar, Subhash C. (*with* Woodworth, George) Rank order probabilities for the dispersion problem. **93e:62127**
— On the "triples test" for symmetry. (English summary) **93i:62044**
— *see also* **Hawkins, D. L.; et al., 93b:62071** *and* **93e:62125**
Koning, Alex J. Approximation of stochastic integrals with applications to goodness-of-fit tests. **93d:62090**
Koutrouvelis, Ioannis A. *see* **Meintanis, Simos, 93h:62095**
Kronmal, Richard A. *see* **Langholz, Bryan, 93b:62073**
Kumganbaev, M. Sh. (*with* Voinov, V. G.) A derivation of the probability density function for a modified Greenwood's statistic and testing the uniformity. (English summary)
Lam, Kin *see* **Yip, Paul**
Langholz, Bryan (*with* Kronmal, Richard A.) Tests of distributional hypotheses with nuisance parameters using Fourier series methods. **93b:62073**
LaRiccia, V. N. *see* **Eubank, R. L., 93k:62108**
Leblanc, Raymond *see* **Martin, Louise; et al.**
Lee, Byung-Joo A heteroskedasticity test robust to conditional mean misspecification. **93h:62094**
Lee, Jae Won (*with* DeMets, David L.) Sequential rank tests with repeated measurements in clinical trials. **93d:62091**
Lee, Mei Ling Ting Tests of independence against likelihood ratio dependence in ordered contingency tables. (English summary) (*see* **93f:62004**)
Liu, Regina Y. Data depth and multivariate rank tests. (English summary) **93m:62112**
Liu, Richard C. *see* **Donoho, David L., 93f:62066**
Loader, Clive R. *see* **Hawkins, D. L.; et al., 93b:62071**

Lorenzen, Gunter A reformulation of Pearson's chi-square statistic and some extensions. (English summary) **93e:62128**

Mammen, Enno (*with* Marron, J. Stephen; Fisher, Nicholas I.) Some asymptotics for multimodality tests based on kernel density estimates. **93c:62083**

Marden, John I. Use of nested orthogonal contrasts in analyzing rank data.

Marron, J. Stephen *see* **Mammen, Enno; et al., 93c:62083**

Martin, Louise (*with* Leblanc, Raymond; Nguyen Ky Toan) Tables for the Friedman rank test. (English and French summaries)

Martínez-Morales, Manuel (*with* Duran, B. S.) A test for randomness based on a complexity measure. (English summary)

Martín Martín, Quintín *see* **Ardanuy Albájar, Ramón; et al.**

Martynov, G. V. Statistical tests based on empirical processes, and related problems. (Russian) **93k:62111**

Marzec, Leszek (*with* Marzec, Pawel) A class of tests for the dispersive-equivalence of two probability distributions. (English summary) **93k:62112**

— (*with* Marzec, Pawel) Tests for dispersive comparison of two distributions. (English summary)

Marzec, Pawel *see* **Marzec, Leszek, 93k:62112**

Mason, David M. (*with* Schuenemeyer, John H.) Correction: "A modified Kolmogorov-Smirnov test sensitive to tail alternatives" [Ann. Statist. **11** (1983), no. 3, 933–946; MR 85c:62113]. **93b:62074**

Matveichuk, S. A. *see* **Petunin, Yu. I., 93f:62068**

Meintanis, Simos (*with* Koutrouvelis, Ioannis A.) Inference procedures based on the polar coordinates of the empirical characteristic function. (Italian summary) **93h:62095**

Mélard, Guy *see* **Hallin, Marc; et al., 93d:62089**

Menéndez, Maria L. *see* **Morales, Domingo; et al., 93c:62084**

Milbrodt, Hartmut *see* **Drees, Holger, 93d:62088**

Milhaud, Xavier *see* **Hallin, Marc; et al., 93d:62089**

Millar, P. W. *see* **Beran, Rudolf, 93j:62125**

Monga *see* **Tardif, Serge, 93m:62115**

Morales, Domingo (*with* Pardo, Leandro; Salicrú, Miquel; Menéndez, Maria L.) A test of independence based on the (r, s)-directed divergence. **93c:62084**

Nagaev, A. V. Asymptotic properties of two statistical decision rules based on values of Studentized range. **93c:62085**

Nesterova, S. A. Tests for detecting outliers. (Russian) **93b:62075**

Nguyen Ky Toan *see* **Martin, Louise; et al.**

Nikulin, M. S. Gihman statistic and goodness-of-fit tests for grouped data. (English summary)

Nyblom, Jukka *see* **Brown, Bruce Maxwell; et al., 93f:62065** *and* **Hettmansperger, Thomas P.; et al., 93m:62110**

Oja, Hannu *see* **Brown, Bruce Maxwell; et al., 93f:62065** *and* **Hettmansperger, Thomas P.; et al., 93m:62110**

Olivier, Donald *see* **Baglivo, Jenny; et al.**

Osius, Gerhard (*with* Rojek, Dieter) Normal goodness-of-fit tests for multinomial models with large degrees of freedom. (English summary)

Özkan, Fuat Some combinatorial problems related to rank sums in a two-way classification. (English summary)

Pagano, Marcello *see* **Baglivo, Jenny; et al.**

Paramasamy, S. On the multivariate Kolmogorov-Smirnov distribution. (English summary) **93m:62113**

Pardo, Leandro *see* **Morales, Domingo; et al., 93c:62084**

Parzen, Emanuel Goodness of fit tests and entropy. (English summary) **93i:62045**

Peña, Edsel A. *see* **Hollander, Myles, 93c:62082**

Pepe, Margaret Sullivan Inference for events with dependent risks in multiple endpoint studies. **93b:62076**

Petunin, Yu. I. (*with* Matveichuk, S. A.) Order criteria for testing a hypothesis on the equality of distribution functions of two populations. (Russian) **93f:62068**

— *see also* **Bairamov, I. G., 93d:62086**

Picard, Dominique *see* **Ghorbanzadeh, Dariush**

Pokropp, F. A note on conditional Wilcoxon tests with natural and mid-ranks. (English summary)

Pons, Odile (*with* de Turckheim, Élisabeth) Tests of independence for bivariate censored data based on the empirical joint hazard function. **93d:62092**

Rajarshi, M. B. *see* **Ramanathan, T. V., 93e:62129**

Ramanathan, T. V. (*with* Rajarshi, M. B.) Rank tests for testing randomness of a regression coefficient in a linear regression model. **93e:62129**

Randles, Ronald H. A two-sample extension of the multivariate interdirection sign test. (English summary) **93m:62114**

Rohatgi, Vijay K. (*with* Saleh, A. K. Md. Ehsanes; Ahluwalia, Rashpal; Ji, Ping) Null distribution of locally most powerful tests for the two sample problem when the combined sample is type II censored. **93f:62069**

Rojek, Dieter *see* **Osius, Gerhard**

Saleh, A. K. Md. Ehsanes *see* **Rohatgi, Vijay K.; et al., 93f:62069**

Salicrú, Miquel *see* **Morales, Domingo; et al., 93c:62084**

Sampson, Allan R. *see* **Kimeldorf, George; et al., 93e:62126**

Schuenemeyer, John H. *see* **Mason, David M., 93b:62074**

Seillier-Moiseiwitsch, F. (*with* Sweeting, Trevor J.; Dawid, A. Philip) Prequential tests of model fit. **93g:62063**

Sen, Pranab Kumar Nonparametric methods in sequential analysis. (*see* **93g:62102**)

— *see also* **Tsai, Ming Tan M., 93j:62131**

Severini, Thomas A. *see* **Staniswalis, Joan G., 93h:62096**

Sharma, A. (*with* Wolfe, D. A.) An extended class of ranking models. **93g:62064**

Shayib, Mohammed A. *see* **Aly, Emad-Eldin A. A.**

Soldevilla Moreno, Ma. del Mar *see* **Ardanuy Albájar, Ramón; et al.**

Staniswalis, Joan G. (*with* Severini, Thomas A.) Diagnostics for assessing regression models. **93h:62096**

Sugano, Osamu (*with* Watadani, Shingo) On the permutation distribution of the rank product-moment statistic. (English summary)

Sukhatme, Shashikala Powers of two-sample rank tests under the Lehmann alternatives. (English summary)

Swartz, T. Goodness-of-fit tests using Kullback-Leibler information. (English summary)

Sweeting, Trevor J. *see* **Seillier-Moiseiwitsch, F.; et al., 93g:62063**

Szkutnik, Zbigniew Special capacities, the Hunt-Stein theorem and transformation groups. **93g:62065**

Tardif, Serge (*with* Monga) Decomposition of a random matrix into stochastically orthogonal components with an application. (English summary) **93m:62115**

Thomas, Will *see* **Eubank, R. L., 93k:62109**

Thompson, G. L. A unified approach to rank tests for multivariate and repeated measures designs. **93a:62073**

— *see also* **Blair, R. Clifford**

Tiwari, Ram C. *see* **Wells, Martin T.; et al., 93m:62116**

Tran, Lanh Tat *see* **Chan, Ngai Hang, 93e:62122**

Tripathi, R. C. Linear combination of two-sample scores for testing equality of K populations under unequal right censoring. **93b:62077**

Tsai, Ming Tan M. (*with* Sen, Pranab Kumar) Asymptotic optimality and distribution theory of UI-LMP rank tests for restricted alternatives. (English summary) **93j:62131**

de Turckheim, Élisabeth *see* **Pons, Odile, 93d:62092**

Voinov, V. G. *see* **Kumganbaev, M. Sh.**

Watadani, Shingo *see* **Sugano, Osamu**

Wells, Martin T. (*with* Jammalamadaka, Sreenivasa R.; Tiwari, Ram C.) Tests of fit using spacings statistics with estimated parameters. (English summary) **93m:62116**

Whitaker, Lyn R. *see* **Kimeldorf, George; et al., 93e:62126**

Wolfe, D. A. *see* **Sharma, A., 93g:62064**

Woodworth, George *see* **Kochar, Subhash C., 93e:62127**

Wooldridge, Jeffrey M. A test for functional form against nonparametric alternatives. (English summary) **93m:62117**

Yang, Shie-Shien A class of nonparametric procedures for comparing two survival distributions over an interval based on randomly right censored data. **93f:62070**

Yip, Paul Goodness of fit tests for heterogeneity in a capture-recapture experiment. (English summary) **93j:62132**

— (*with* Lam, Kin) A class of nonparametric tests for the equality of failure rates in a competing risks model. (English summary)

Zhang, Ping[1] *see* **Bickel, Peter J., 93d:62087**

Zhou, Wei Xin *see* **Hu, Shu He; et al., 93j:62130**

Zhu, Li Xing *see* **Cheng, Ping[1], 93h:62093**

Zrelov, P. V. ★ Обобщенные моментные функции эмпирического процесса и интегральные непараметрические статистики. (Russian. English and Russian summaries) [Generalized moment functions of empirical processes, and integral nonparametric statistics] **93j:62133**

— (*with* Ivanov, V. V.) ★ Критерии согласия, основанные на проверочной статистике $\omega_n^3 = n^{3/2}\int_{-\infty}^{\infty}[S_n(x) - F(x)]^3 dF(x)$. (Russian. English and Russian summaries) [Goodness-of-fit criteria based on the test statistic $\omega_n^3 = n^{3/2}\int_{-\infty}^{\infty}[S_n(x) - F(x)]^3 dF(x)$]

— (*with* Ivanov, V. V.) ★ Интегральные непараметрические статистики $\omega_n^k = n^{k/2}\int_{-\infty}^{\infty}[S_n(x) - P(x)]^k\, dP(x)$ и их основные свойства. (Russian. English and Russian summaries) [The integral nonparametric statistics $\omega_n^k = n^{k/2}\int_{-\infty}^{\infty}[S_n(x) - P(x)]^k\, dP(x)$ and their fundamental properties]

Items with secondary classifications in 62G10

Ahmad, Ibrahim A. A new test for mean residual life times. (English summary) **93j:62235**

Ahmed, S. E. *see* **Kulperger, R. J., 93g:62067**

Bartoszewicz, Jarosław Asymptotic distributions of tests for dispersive ordering. (English summary) **93k:62113**

Basu, Asit P. A survey of some inference problems for dependent systems. (English summary) **93g:62073**

Çapar, Uluğ Empirical characteristic functional analysis and inference in sequence spaces. (English summary) **93f:60006**

Chen, Han Feng (*with* Loh, Wei-Yin) Bounds on AREs of tests following Box-Cox transformations. (English summary) **93j:62135**

Csörgő, Miklós (*with* Gombay, Edit; Horváth, Lajos) Central limit theorems for L_p distances of kernel estimators of densities under random censorship. **93d:60032**

Dargahi-Noubary, G. R. (*with* Nanthakumar, A.) A method for estimating and detecting treatment effects. (English summary) **93j:62048**

Deheuvels, Paul (*with* Einmahl, John H. J.) Approximations and two-sample tests based on P-P and Q-Q plots of the Kaplan-Meier estimators of lifetime distributions. (English summary) **93k:60053**

Duong, Quang Phuc The distribution of the run length in CUSUM procedures. (English summary)

Dzhaparidze, K. O. (*with* Nikulin, M. S.) On the calculation of statistics of chi-square-type tests. (Russian. Russian summary) **93g:62029**

Eaton, Morris L. *see* **Runger, George C., 93m:62128**

Einmahl, John H. J. (*with* Koning, Alex J.) Limit theorems for a general weighted process under random censoring. (French summary) **93h:62100**

— *see also* **Deheuvels, Paul, 93k:60053**

Ermakov, M. S. Asymptotic minimaxity of usual goodness of fit tests. **93d:62032**

Fairley, David (*with* Pearl, Dennis K.; Verducci, Joseph S.) Some ramifications of a bound on the MSE of a prediction. (English summary) **93e:62165**

Frolov, S. I. Poisson plans for random walks and the Kolmogorov-Smirnov criterion for goodness of fit. (Russian) (*see* **93b:60003**)

Gastaldi, Tommaso On the mean and the variance of a generalized oscillation index derived via the Minkowski metric, and of a spatial correlation index. (Italian. English and Italian summaries)

Gombay, Edit *see* **Csörgő, Miklós; et al., 93d:60032**

Govindarajulu, Z. Robustness of Mann-Whitney-Wilcoxon test for scale to dependence in the variables. (English summary) **93i:62046**

Hallin, Marc (*with* Puri, Madan L.) Some asymptotic results for a broad class of nonparametric statistics. (English summary) **93k:62030**

(Handa, B. R.) *see* **Saran, Jagdish, 93d:62095**

Herbst, Tomáš Test of fit with the Koziol-Green model for random censorship. **93e:62250**

Horváth, Lajos *see* **Csörgő, Miklós; et al., 93d:60032**

Hušková, Marie Sequentially adaptive nonparametric procedures. (*see* **93g:62102**)

Kemp, Gordon C. R. On Wald tests for globally and locally quadratic restrictions. **93g:62091**
Kim, Byung Soo (*with* Park, Cheolyong) Some remarks on testing goodness of fit for the Poisson assumption. **93f:62026**
Koning, Alex J. *see* **Einmahl, John H. J., 93h:62100**
Kulperger, R. J. (*with* Ahmed, S. E.) A bootstrap theorem for a preliminary test estimator. **93g:62067**
Lai, Tze Leung (*with* Ying, Zhiliang) Linear rank statistics in regression analysis with censored or truncated data. **93d:62124**
Li, Guo Ying[1] (*with* Zha, Wen Xing) PP Neyman tests for multivariate goodness-of-fit. **93h:62113**
Lin, D. Y. Sequential log rank tests adjusting for covariates with the accelerated life model. (English summary) **93j:62202**
Loh, Wei-Yin *see* **Chen, Han Feng, 93j:62135**
Mason, David M. (*with* Newton, Michael A.) A rank statistics approach to the consistency of a general bootstrap. (English summary) **93h:62091**
McKeague, Ian W. (*with* Utikal, Klaus J.) Goodness-of-fit tests for additive hazards and proportional hazards models. **93c:62141**
McLeish, D. L. (*with* Small, Christopher G.) A projected likelihood function for semiparametric models. **93e:62076**
Menéndez, Maria L. (*with* Pardo, Leandro; Morales, Domingo; Salicrú, Miquel) Some statistical applications of (r, s)-directed divergences. (English summary) **93h:62005**
Milbrodt, Hartmut Testing stationarity in the mean of autoregressive processes with a nonparametric regression trend. (English summary) **93h:62165**
(Mohanty, S. G.) *see* **Saran, Jagdish, 93d:62095**
Morales, Domingo *see* **Menéndez, Maria L.; et al., 93h:62005**
Nanthakumar, A. *see* **Dargahi-Noubary, G. R., 93j:62048**
Nechval', N. A. A new approach to constructing exact tests for discrimination between models from separate families of hypotheses. **93e:62059**
Newton, Michael A. *see* **Mason, David M., 93h:62091**
Nikulin, M. S. *see* **Dzhaparidze, K. O., 93g:62029**
Olivares, Margarita Convergence en loi de la statistique linéaire de rang pour le test d'indépendance dans un cadre fortement mélangeant. (English summary) [Weak convergence of linear rank statistics for independence under α-mixing] **93a:62077**
Pagano, Marcello *see* **Spino, Cathie, 93b:62051**
Pardo, Leandro *see* **Menéndez, Maria L.; et al., 93h:62005**
Park, Cheolyong *see* **Kim, Byung Soo, 93f:62026**
Pearl, Dennis K. *see* **Fairley, David; et al., 93e:62165**
Puri, Madan L. *see* **Hallin, Marc, 93k:62030**
Runger, George C. (*with* Eaton, Morris L.) Most powerful invariant permutation tests. (English summary) **93m:62128**
Salicrú, Miquel *see* **Menéndez, Maria L.; et al., 93h:62005**
Saran, Jagdish Correction to a result of S. G. Mohanty and B. R. Handa on a generalized random walk: "Rank order statistics related to a generalized random walk" [Studia Sci. Math. Hungar. **5** (1970), 267–276; MR **45** #4554]. **93d:62095**
Sen, Pranab Kumar Repeated significance tests in frequency and time domains. (*see* **93g:62102**)
Shiraishi, Taka-aki Statistical inference based on aligned ranks for two-way MANOVA with interaction. **93c:62074**
Small, Christopher G. *see* **McLeish, D. L., 93e:62076**
Spino, Cathie (*with* Pagano, Marcello) Efficient calculation of the permutation distribution of robust two-sample statistics. **93b:62051**
Szyszkowicz, Barbara Asymptotic distributions of weighted pontograms under contiguous alternatives. **93g:60055**
Tiwari, Ram C. (*with* Wells, Martin T.) On the power-divergence statistic in sparse multinomial models requiring parameter estimation. **93i:62019**
Utikal, Klaus J. *see* **McKeague, Ian W., 93c:62141**
Verducci, Joseph S. *see* **Fairley, David; et al., 93e:62165**
Wells, Martin T. The weak approximation of the empirical characteristic function process when parameters are estimated. **93f:60042**
— *see also* **Tiwari, Ram C., 93i:62019**
Ying, Zhiliang *see* **Lai, Tze Leung, 93d:62124**
Zha, Wen Xing *see* **Li, Guo Ying[1], 93h:62113**
Zucker, David M. The efficiency of a weighted log-rank test under a percent error misspecification model for the log hazard ratio. (English and French summaries) **93f:62071**

62G15 Tolerance and confidence regions

Csörgő, Miklós (*with* Horváth, Lajos) On confidence bands for the quantile function of a continuous distribution function. **93a:62074**
Csörgő, Sándor (*with* Viharos, László) Confidence bands for percentile residual lifetimes. **93h:62097**
Fraiman, Ricardo (*with* Pérez Iribarren, Gonzalo) Conservative confidence bands for nonparametric regression. **93e:62130**
Hall, Peter Gavin Effect of bias estimation on coverage accuracy of bootstrap confidence intervals for a probability density. **93e:62131**
Horváth, Lajos *see* **Csörgő, Miklós, 93a:62074**
Pérez Iribarren, Gonzalo *see* **Fraiman, Ricardo, 93e:62130**
Viharos, László *see* **Csörgő, Sándor, 93h:62097**

Items with secondary classifications in 62G15

Beran, Rudolf (*with* Ducharme, Gilles R.) ★ Asymptotic theory for bootstrap methods in statistics. **93c:62002**
Crowell, John I. (*with* Sen, Pranab Kumar) On stopping times for fixed-width confidence regions. (English summary) **93j:62205**
DiCiccio, Thomas J. (*with* Martin, Michael A.; Young, G. Alastair) Fast and accurate approximate double bootstrap confidence intervals. (English summary) **93f:62040**
— (*with* Efron, Bradley) More accurate confidence intervals in exponential families. (English summary) **93k:62070**
Ducharme, Gilles R. *see* **Beran, Rudolf, 93c:62002**
Dümbgen, Lutz The asymptotic behavior of some nonparametric change-point estimators. **93d:62059**
Efron, Bradley *see* **DiCiccio, Thomas J., 93k:62070**
Einmahl, John H. J. The a.s. behavior of the weighted empirical process and the LIL for the weighted tail empirical process. **93e:60058**
Horn, Paul S. Quasi-nonparametric upper tolerance regions based on the bootstrap. (English summary) **93h:62089**
Johnson, Richard A. (*with* Morrell, Christopher H.; Schick, Anton) Two-sample nonparametric estimation and confidence intervals under truncation. (English and French summaries) **93k:62091**
Martin, Michael A. *see* **DiCiccio, Thomas J.; et al., 93f:62040**
Męczarski, Marek Fixed-width interval estimation of the minimum point of a regression function based on the Kiefer-Wolfowitz procedure. **93g:62109**
Morrell, Christopher H. *see* **Johnson, Richard A.; et al., 93k:62091**
Rao, Calyampudi Radhakrishna (*with* Tu, Dong Sheng) Inference of the occurrence/exposure rate with mixed censoring models. **93f:62023**
Schick, Anton *see* **Johnson, Richard A.; et al., 93k:62091**
Sen, Pranab Kumar *see* **Tsai, Ming Tan M., 93e:62157** *and* **Crowell, John I., 93j:62205**
Tsai, Ming Tan M. (*with* Sen, Pranab Kumar) Tests for independence in two-way contingency tables based on canonical analysis. **93e:62157**
Tu, Dong Sheng *see* **Rao, Calyampudi Radhakrishna, 93f:62023**
Young, G. Alastair *see* **DiCiccio, Thomas J.; et al., 93f:62040**

62G20 Asymptotic properties

Ahmed, S. E. *see* **Kulperger, R. J., 93g:62067**
Akritas, Michael G. Nonparametric inference in heteroskedastic regression. **93a:62075**
Bajorski, Piotr Exact Bahadur efficiency of max-type rank tests in the two-sample problem. (English summary) **93m:62118**
Bartoszewicz, Jarosław Asymptotic distributions of tests for dispersive ordering. (English summary) **93k:62113**
Chamberlain, Gary Efficiency bounds for semiparametric regression. **93j:62134**
Chen, Han Feng (*with* Loh, Wei-Yin) Bounds on AREs of tests following Box-Cox transformations. (English summary) **93j:62135**
Eastwood, Brian J. (*with* Huse-Eastwood, Vera R.) Percentiles for Cramér-von Mises functionals of Gaussian processes and some applications to Bayesian tests. (English summary) **93j:62136**
Ebneshahrashoob, M. *see* **Jammalamadaka, Sreenivasa R.; et al., 93k:62114**
Fan, Jianqing Deconvolution with supersmooth distributions. (English and French summaries) **93j:62137**
Govindarajulu, Z. Robustness of Mann-Whitney-Wilcoxon test for scale to dependence in the variables. (English summary) **93i:62046**
Hu, Shu He Strong uniform consistency rates for conditional function estimators with φ-mixing sample. (English summary) **93j:62138**
Huse-Eastwood, Vera R. *see* **Eastwood, Brian J., 93j:62136**
Ibragimov, I. A. (*with* Khas'minskii, R. Z.) Asymptotically normal families of distributions and efficient estimation. **93d:62093**
Jammalamadaka, Sreenivasa R. (*with* Tiwari, Ram C.; Sen, Pranab Kumar; Ebneshahrashoob, M.) A rank test based on the number of "near-matches" for ordered alternatives in randomized blocks. (English summary) **93k:62114**
Janssen, Paul (*with* Veraverbeke, Noël) Bootstrapping U-statistics with estimated parameters. **93e:62132**
Kallenberg, Wilbert C. M. (*with* Kourouklis, Stavros) Hodges-Lehmann optimality of tests. **93g:62066**
Khas'minskii, R. Z. *see* **Ibragimov, I. A., 93d:62093**
Kourouklis, Stavros *see* **Kallenberg, Wilbert C. M., 93g:62066**
Kulperger, R. J. (*with* Ahmed, S. E.) A bootstrap theorem for a preliminary test estimator. **93g:62067**
Lai, Tze Leung (*with* Ying, Zhiliang) Asymptotically efficient estimation in censored and truncated regression models. **93e:62133**
Levit, B. Ya. On the integrable and approximately integrable linear statistical models. **93c:62086**
Loh, Wei-Yin *see* **Chen, Han Feng, 93j:62135**
Nikitin, Ya. Yu. Local Chernoff efficiency of linear rank tests. **93a:62076**
— Hodges-Lehmann and Chernoff efficiencies of linear rank statistics. **93b:62078**
Olivares, Margarita Convergence en loi de la statistique linéaire de rang pour le test d'indépendance dans un cadre fortement mélangeant. (English summary) [Weak convergence of linear rank statistics for independence under α-mixing] **93a:62077**
Qin, Yong Song Mean square convergence of a mixing-type estimator of a nonparametric regression function. (Chinese. English and Chinese summaries) **93j:62139**
Sen, Pranab Kumar *see* **Jammalamadaka, Sreenivasa R.; et al., 93k:62114**
Tiago de Oliveira, José Intrinsic estimation of the dependence function in bivariate extremes: a new and simpler approach. **93h:62098**
Tiwari, Ram C. *see* **Jammalamadaka, Sreenivasa R.; et al., 93k:62114**
van der Vaart, A. W. (*with* Wellner, Jon A.) Existence and consistency of maximum likelihood in upgraded mixture models. (English summary) **93j:62140**
Veraverbeke, Noël *see* **Janssen, Paul, 93e:62132**
Wellner, Jon A. *see* **van der Vaart, A. W., 93j:62140**
Ying, Zhiliang *see* **Lai, Tze Leung, 93e:62133**
Zheng, Zhong Guo Optimal rate of convergence for estimators in the nonparametric median model. (English summary) **93j:62141**
Zucker, David M. The efficiency of a weighted log-rank test under a percent error misspecification model for the log hazard ratio. (English and French summaries) **93f:62071**

Items with secondary classifications in 62G20

Abramson, Ian (*with* Goldstein, Larry Mark) Efficient nonparametric testing by functional estimation. **93d:62084**
Akritas, Michael G. (*with* Johnson, Richard A.) Symmetrized approximate score rank tests for the two-sample case. (English summary) **93m:62100**
Albers, Willem Deficiencies of combined rank tests. (English summary) **93m:62101**

Atilgan, Taskin (*with* Bozdogan, Hamparsum) Convergence properties of MLE's and asymptotic simultaneous confidence intervals in fitting cardinal B-splines for density estimation. **93d:62050**
Back, Kerry (*with* Brown, David P.) GMM, maximum likelihood, and nonparametric efficiency. (English summary) **93c:62035**
Bajorski, Piotr Max-type rank tests in the two-sample problem. **93m:62102**
Beran, Rudolf (*with* Ducharme, Gilles R.) ★ Asymptotic theory for bootstrap methods in statistics. **93c:62002**
— (*with* Millar, P. W.) Tests of fit for logistic models. (English summary) **93j:62125**
Berlinet, Alain Reproducing kernels and finite order kernels. **93d:62052**
Bickel, Peter J. (*with* Nair, Vijayan N.; Wang, Paul C. C.) Nonparametric inference under biased sampling from a finite population. **93h:62068**
Borisov, I. S. Exponential inequalities for the distributions of von Mises and U-statistics. **93d:60024**
— Approximation of distributions of von Mises statistics with multidimensional kernels. (Russian) **93b:60038**
Borovskikh, Yu. V. UB-statistics. (Russian) **93b:60017**
Bozdogan, Hamparsum *see* **Atilgan, Taskin, 93d:62050**
Brown, Bruce Maxwell (*with* Hettmansperger, Thomas P.; Nyblom, Jukka; Oja, Hannu) On certain bivariate sign tests and medians. **93f:62065**
Brown, David P. *see* **Back, Kerry, 93c:62035**
Brown, Edward F. *see* **Saleh, A. K. Md. Ehsanes; et al.**
Burke, M. D. (*with* Gombay, Edit) Tests of fit for Cox's regression model. (English summary) **93m:62104**
Burman, Prabir Estimation of optimal transformations using v-fold cross validation and repeated learning-testing methods. (English summary) **93f:62044**
Cai, Zong Wu (*with* Roussas, George G.) Uniform strong estimation under α-mixing, with rates. (English summary) **93h:62070**
Chai, Gen Xiang (*with* Li, Zhu Yu; Tian, Hong) Consistent nonparametric estimation of error distributions in linear model. **93b:62091**
Chaudhuri, Probal Nonparametric estimates of regression quantiles and their local Bahadur representation. **93d:62055**
— Multivariate location estimation using extension of R-estimates through U-statistics type approach. **93h:62072**
Chu, Chih Kang (*with* Marron, J. Stephen) Comparison of two bandwidth selectors with dependent errors. **93f:62047**
Ciesielski, Zbigniew Asymptotic nonparametric spline density estimation in the Sobolev norm in several variables. **93j:62092**
Dawid, A. Philip *see* **Seillier-Moiseiwitsch, F.; et al., 93g:62063**
Ducharme, Gilles R. *see* **Beran, Rudolf, 93c:62002**
Dümbgen, Lutz The asymptotic behavior of some nonparametric change-point estimators. **93d:62059**
Eastwood, Brian J. Asymptotic normality of semi-nonparametric estimators using minimization of C_p or adaptive polynomial truncation selection procedures. **93d:62118**
Einmahl, John H. J. (*with* van Zuijlen, Martien C. A.) Glivenko-Cantelli-type theorems for weighted empirical distribution functions based on uniform spacings. (English summary) **93m:62119**
Einmahl, Uwe (*with* Mason, David M.) Approximations to permutation and exchangeable processes. **93a:60051**
Ermakov, M. S. Asymptotic minimaxity of usual goodness of fit tests. **93d:62032**
— On asymptotic minimaxity of rank tests. (English summary) **93j:62129**
Faraway, Julian J. Smoothing in adaptive estimation. **93b:62049**
Ferger, Dietmar (*with* Stute, Winfried) Convergence of changepoint estimators. (English summary) **93m:62071**
Fu, James C. (*with* Li, Lung An) Method of pao-zhuan yin-yu: a method of stochastic point estimation. **93d:62083**
Gajek, Leslaw The rate of strong consistency of a class of nonparametric hazard function estimators. (English summary) **93j:62094**
Gasser, Theo (*with* Kneip, Alois; Köhler, Walter) A flexible and fast method for automatic smoothing. **93d:62063**
Ghorai, J. K. Estimation of a smooth quantile function under the proportional hazards model. **93c:62068**
Goldstein, Larry Mark *see* **Abramson, Ian, 93d:62084**
Golubev, G. K. Asymptotically minimax estimation of a regression function in an additive model. (Russian. Russian summary) **93k:62089**
Gombay, Edit *see* **Burke, M. D., 93m:62104**
Györfi, László (*with* Lugosi, Gábor) Kernel density estimation from ergodic sample is not universally consistent. (English summary) **93m:62076**
Hassanein, Khatab M. *see* **Saleh, A. K. Md. Ehsanes; et al.**
Henze, N. (*with* Voigt, B.) Almost sure convergence of certain slowly changing symmetric one- and multi-sample statistics. **93e:60059**
Hettmansperger, Thomas P. *see* **Brown, Bruce Maxwell; et al., 93f:62065**
Hidalgo, F. Javier Adaptive semiparametric estimation in the presence of autocorrelation of unknown form. **93c:62071**
Hong, Sheng Yan A law of the iterated logarithm for random window-width kernel estimator of a nonparametric regression function. (English summary) **93i:62031**
Janssen, Arnold Optimal k-sample tests for randomly censored data. **93g:62062**
Jeon, Jong Woo *see* **Park, Byeong U.; et al., 93d:62043**
Johnson, Richard A. *see* **Akritas, Michael G., 93m:62100**
Kanazawa, Yuichiro An optimal variable cell histogram based on the sample spacings. **93d:62070**
Karunamuni, R. J. (*with* Yang, Song) Weak and strong uniform consistency rates of kernel density estimates for randomly censored data. (French summary) **93g:62054**
Kim, Woo Chul *see* **Park, Byeong U.; et al., 93d:62043**
Kneip, Alois *see* **Gasser, Theo; et al., 93d:62063**
Köhler, Walter *see* **Gasser, Theo; et al., 93d:62063**
Kronmal, Richard A. *see* **Langholz, Bryan, 93b:62073**
Kundu, Debasis Asymptotic properties of the complex valued nonlinear regression model. **93e:62111**
Langholz, Bryan (*with* Kronmal, Richard A.) Tests of distributional hypotheses with nuisance parameters using Fourier series methods. **93b:62073**
Lepskii, O. V. A problem of adaptive estimation in Gaussian white noise. (Russian) **93j:62212**
Li, Lung An *see* **Fu, James C., 93d:62083**
Li, Zhu Yu *see* **Chai, Gen Xiang; et al., 93b:62091**
Liero, Hannelore Asymptotic normality of a weighted integrated squared error of kernel regression estimates with data-dependent bandwidth. **93g:62055**
Liu, Regina Y. (*with* Singh, Kesar) Efficiency and robustness in resampling. **93d:62097**
Liu, Zhi Jun Nonparametric estimates of the nuisance parameter in the LAD tests. **93j:62101**
Lugosi, Gábor *see* **Györfi, László, 93m:62076**
Maesono, Yoshihiko (*with* Yamato, Hajime) U-statistics and related topics. (Japanese) **93h:60032**
Maguluri, Gangaji Estimation in a semiparametric model by the method of minimum distance. **93c:62042**
Mammen, Enno Higher order accuracy of the bootstrap method for smooth functionals. (English summary) **93j:62120**
Marron, J. Stephen *see* **Chu, Chih Kang, 93f:62047**
Martinsek, Adam T. Using stopping rules to bound the mean integrated squared error in density estimation. **93e:62112**
Mason, David M. *see* **Einmahl, Uwe, 93a:60051**
Matveichuk, S. A. *see* **Petunin, Yu. I., 93f:62068**
Matzkin, Rosa L. A nonparametric maximum rank correlation estimator. **93j:62247**
Mehra, K. L. (*with* Rama Krishnaiah, Y. S.; Rao, M. Sudhakara) Asymptotic normality of rank nearest neighbor regression function estimators under strong mixing. **93a:62094**
— (*with* Rama Krishnaiah, Y. S.; Rao, M. Sudhakara) Bahadur representation of sample conditional quantiles based on smoothed conditional empirical distribution function. **93g:62057**
Messer, Karen A comparison of a spline estimate to its equivalent kernel estimate. **93d:62076**
Milbrodt, Hartmut Testing stationarity in the mean of autoregressive processes with a nonparametric regression trend. (English summary) **93h:62165**
Millar, P. W. *see* **Beran, Rudolf, 93j:62125**
Moothathu, T. S. K. (*with* Prasad, M. S.) On uniformly consistent estimation of parametric Lorenz curves. **93b:62064**
Nair, Vijayan N. *see* **Bickel, Peter J.; et al., 93h:62068**
Nyblom, Jukka *see* **Brown, Bruce Maxwell; et al., 93f:62065**
Oehlert, Gary W. Relaxed boundary smoothing splines. **93e:62114**
Oja, Hannu *see* **Brown, Bruce Maxwell; et al., 93f:62065**
Park, Byeong U. (*with* Jeon, Jong Woo; Song, Moon S.; Kim, Woo Chul) Local asymptotic normality for independent not identically distributed observations in semiparametric models. **93d:62043**
Petunin, Yu. I. (*with* Matveichuk, S. A.) Order criteria for testing a hypothesis on the equality of distribution functions of two populations. (Russian) **93f:62068**
Prasad, M. S. *see* **Moothathu, T. S. K., 93b:62064**
Rama Krishnaiah, Y. S. *see* **Mehra, K. L.; et al., 93a:62094** *and* **93g:62057**
Rao, M. Sudhakara *see* **Mehra, K. L.; et al., 93a:62094** *and* **93g:62057**
Rilstone, Paul Calculating the (local) semiparametric efficiency bounds for the generated regressors problem. (English summary) **93m:62084**
Robinson, Peter M. Nonparametric function estimation for long memory time series. **93g:62059**
Roussas, George G. Estimation of transition distribution function and its quantiles in Markov processes: strong consistency and asymptotic normality. **93e:62117**
— (*with* Tran, Lanh Tat) Asymptotic normality of the recursive kernel regression estimate under dependence conditions. **93a:62064**
— *see also* **Cai, Zong Wu, 93h:62070**
Saleh, A. K. Md. Ehsanes (*with* Hassanein, Khatab M.; Brown, Edward F.) Linear estimation and test of quantiles of Cauchy distribution based on selected order statistics. (English summary)
Samarov, Alexander On asymptotic efficiency of average derivative estimates. **93a:62066**
Sasieni, Peter D. Information bounds for the conditional hazard ratio in a nested family of regression models. **93m:62086**
Scott, David W. *see* **Terrell, George R., 93j:62108**
Seillier-Moiseiwitsch, F. (*with* Sweeting, Trevor J.; Dawid, A. Philip) Prequential tests of model fit. **93g:62063**
Sen, Pranab Kumar *see* **Tsai, Ming Tan M., 93j:62131**
Shao, Jun[1] Jackknife estimator for an m-dependent stationary process. (English summary) **93j:62217**
Silvapulle, Mervyn J. On M-methods in growth curve analysis with asymmetric errors. (English summary) **93j:62156**
Singh, Kesar *see* **Liu, Regina Y., 93d:62097**
Song, Moon S. *see* **Park, Byeong U.; et al., 93d:62043**
Stoker, Thomas M. Equivalence of direct, indirect, and slope estimators of average derivatives. **93h:62086**
— *see also* **Thompson, T. Scott, 93h:62087**
Stute, Winfried Strong consistency under the Koziol-Green model. (English summary) **93k:62098**
— *see also* **Ferger, Dietmar, 93m:62071**
Sweeting, Trevor J. *see* **Seillier-Moiseiwitsch, F.; et al., 93g:62063**
Terrell, George R. (*with* Scott, David W.) Variable kernel density estimation. (English summary) **93j:62108**
Thompson, G. L. A unified approach to rank tests for multivariate and repeated measures designs. **93a:62073**
Thompson, T. Scott Equivalence of direct, indirect, and slope estimators of average derivatives. A comment on: "Equivalence of direct, indirect, and slope estimators of average derivatives" [in *Nonparametric and semiparametric methods in econometrics and statistics (Durham, NC, 1988)*, 99–118, Cambridge Univ. Press, Cambridge, 1991; MR 93h:62086] by T. M. Stoker. **93h:62087**
Tian, Hong *see* **Chai, Gen Xiang; et al., 93b:62091**
Tran, Lanh Tat Kernel density estimation for linear processes. **93d:62080**

— *see also* **Roussas, George G., 93a:62064**
Tripathi, R. C. Linear combination of two-sample scores for testing equality of K populations under unequal right censoring. **93b:62077**
Tsai, Ming Tan M. (*with* Sen, Pranab Kumar) Asymptotic optimality and distribution theory of UI-LMP rank tests for restricted alternatives. (English summary) **93j:62131**
Tsukahara, Hideatsu A rank estimator in the two-sample transformation model with randomly censored data. (English summary) **93m:62087**
Tu, Dong Sheng (*with* Zheng, Zhong Guo) Random weighting: another approach to approximate the unknown distributions of pivotal quantities. (English summary) **93j:62124**
Vardi, Y. (*with* Zhang, Cun-Hui) Large sample study of empirical distributions in a random-multiplicative censoring model. **93f:62062**
Voigt, B. *see* **Henze, N., 93e:60059**
Wang, Paul C. C. *see* **Bickel, Peter J.; et al., 93h:62068**
Wefelmeyer, W. Efficient estimation in multiplicative counting process models. **93e:62226**
Wong, Wing Hung On asymptotic efficiency in estimation theory. **93k:62061**
Yamato, Hajime *see* **Maesono, Yoshihiko, 93h:60032**
Yang, Song *see* **Karunamuni, R. J., 93g:62054**
Zhang, Cun-Hui *see* **Vardi, Y., 93f:62062**
Zheng, Zhong Guo *see* **Tu, Dong Sheng, 93j:62124**
Zitikis, R. Cramér type large deviations for a class of statistics. (Russian and Lithuanian summaries) **93f:60036**
van Zuijlen, Martien C. A. *see* **Einmahl, John H. J., 93m:62119**

62G30 Order statistics; empirical distribution functions

Abdous, Belkacem (*with* Theodorescu, Radu) Note on the spatial quantile of a random vector. **93d:62094**
Abu-Youssef, S. E. *see* **Mohie El-Din, M. M.; et al., 93h:62101**
Ahsanullah, Mohammad *see* **Balakrishnan, Narayanaswamy; et al., 93j:62143**
Alzaid, Abdulhamid A. (*with* Proschan, Frank) Dispersivity and stochastic majorization. **93j:62142**
Balakrishnan, Narayanaswamy (*with* Bendre, S. M.; Malik, H. J.) General relations and identities for order statistics from nonindependent nonidentical variables. **93e:62134**
— (*with* Ahsanullah, Mohammad; Chan, P. S.) Relations for single and product moments of record values from Gumbel distribution. (English summary) **93j:62143**
— (*with* Balasubramanian, Krishnaswami) Equivalence of Hartley-David-Gumbel and Papathanasiou bounds and some further remarks. (English summary)
— *see also* **Balasubramanian, Krishnaswami, 93a:62078; Lien, Da-Hsiang Donald; et al.** *and* **Balasubramanian, Krishnaswami; et al.**
Balasubramanian, Krishnaswami (*with* Beg, M. I.) On expectations of functions of order statistics. (English summary)
— (*with* Beg, M. I.; Bapat, R. B.) On families of distributions closed under extrema. (English summary) **93k:62115a**
— (*with* Balakrishnan, Narayanaswamy; Malik, H. J.) Operator methods in order statistics. (English summary)
— (*with* Beg, M. I.; Bapat, R. B.) Corrigendum: "On families of distributions closed under extrema". **93k:62115b**
— (*with* Balakrishnan, Narayanaswamy) Indicator method for a recurrence relation for order statistics. **93a:62078**
— *see also* **Lien, Da-Hsiang Donald; et al.** *and* **Balakrishnan, Narayanaswamy**
Bapat, R. B. *see* **Balasubramanian, Krishnaswami; et al., 93k:62115a** *and* **93k:62115b**
Beg, M. I. Recurrence relations and identities for product moments of order statistics corresponding to non-identically distributed variables. (English summary) **93g:62068**
— *see also* **Balasubramanian, Krishnaswami; et al., 93k:62115a; 93k:62115b**
Bendre, S. M. *see* **Balakrishnan, Narayanaswamy; et al., 93e:62134**
Bomze, Immanuel M. *see* **Reschenhofer, E., 93a:62079**
Brown, Edward F. *see* **Saleh, A. K. Md. Ehsanes; et al.**
Caraux, G. (*with* Gascuel, O.) Bounds on distribution functions of order statistics for dependent variates. **93e:62135**
— *see also* **Gascuel, O., 93m:62120**
Chan, P. S. *see* **Balakrishnan, Narayanaswamy; et al., 93j:62143**
Chanda, Kamal C. Bahadur-Kiefer representation properties of intermediate order statistics. **93k:62116**
Deheuvels, Paul On the limiting behavior of the Pickands estimator for bivariate extreme-value distributions. **93g:62069**
Dehling, H. G. (*with* Kalma, J. N.; Moes, C.; Schaafsma, W.) The Islamic mean: a peculiar L-statistic. (English summary) **93h:62099**
Do, Kim-Anh (*with* Hall, Peter Gavin) Distribution estimation using concomitants of order statistics, with application to Monte Carlo simulation for the bootstrap. **93e:62136**
Doss, Hani (*with* Gill, Richard D.) An elementary approach to weak convergence for quantile processes, with applications to censored survival data. (English summary) **93j:62144**
Einmahl, John H. J. (*with* Koning, Alex J.) Limit theorems for a general weighted process under random censoring. (French summary) **93h:62100**
— (*with* van Zuijlen, Martien C. A.) Glivenko-Cantelli-type theorems for weighted empirical distribution functions based on uniform spacings. (English summary) **93m:62119**
English, Brian J. (*with* Gillett, Raphael; Phillips, Michael J.) Inequalities concerning the expected selection differentials. **93f:62072**
Gascuel, O. (*with* Caraux, G.) Bounds on expectations of order statistics via extremal dependences. (English summary) **93m:62120**
— *see also* **Caraux, G., 93e:62135**
Gastaldi, Tommaso Optimal reconstruction of a generally censored sample. (English summary) **93e:62137**
Gill, Richard D. *see* **Doss, Hani, 93j:62144**
Gillett, Raphael *see* **English, Brian J.; et al., 93f:62072**
Hall, Peter Gavin *see* **Do, Kim-Anh, 93e:62136**
(Handa, B. R.) *see* **Saran, Jagdish, 93d:62095**
Hassanein, Khatab M. *see* **Saleh, A. K. Md. Ehsanes; et al.**
Jha, V. D. *see* **Khurana, A. P., 93e:62138**
Kalma, J. N. *see* **Dehling, H. G.; et al., 93h:62099**
Khurana, A. P. (*with* Jha, V. D.) Recurrence relations between moments of order statistics from a doubly truncated Pareto distribution. (English summary) **93e:62138**
Koning, Alex J. *see* **Einmahl, John H. J., 93h:62100**
Lien, Da-Hsiang Donald (*with* Balakrishnan, Narayanaswamy; Balasubramanian, Krishnaswami) Moments of order statistics from a non-overlapping mixture model with applications to truncated Laplace distribution.
Liu, Jingyu Precedence probabilities and their applications. **93e:62139**
Mahmoud, M. A. W. *see* **Mohie El-Din, M. M.; et al., 93h:62101**
Malik, H. J. *see* **Balakrishnan, Narayanaswamy; et al., 93e:62134** *and* **Balasubramanian, Krishnaswami; et al.**
Moes, C. *see* **Dehling, H. G.; et al., 93h:62099**
(Mohanty, S. G.) *see* **Saran, Jagdish, 93d:62095**
Mohie El-Din, M. M. (*with* Mahmoud, M. A. W.; Abu-Youssef, S. E.) Recurrence relations between moment generating function of order statistics for doubly truncated continuous distributions. (English summary) **93h:62101**
Nyblom, Jukka Note on interpolated order statistics.
Phillips, Michael J. *see* **English, Brian J.; et al., 93f:62072**
Proschan, Frank *see* **Alzaid, Abdulhamid A., 93j:62142**
Ralescu, Stefan S. Asymptotic deviations between perturbed empirical and quantile processes. (English summary) **93j:62145**
Reschenhofer, E. (*with* Bomze, Immanuel M.) Length tests for goodness of fit. **93a:62079**
Rychlik, Tomasz Stochastically extremal distributions of order statistics for dependent samples. (English summary) **93c:62087**
Saleh, A. K. Md. Ehsanes (*with* Hassanein, Khatab M.; Brown, Edward F.) Linear estimation and test of quantiles of Cauchy distribution based on selected order statistics. (English summary)
Saran, Jagdish Correction to a result of S. G. Mohanty and B. R. Handa on a generalized random walk: "Rank order statistics related to a generalized random walk" [Studia Sci. Math. Hungar. 5 (1970), 267–276; MR 45 #4554]. **93d:62095**
Schaafsma, W. *see* **Dehling, H. G.; et al., 93h:62099**
Schuster, Eugene F. Minimizing L_1-distance between distribution functions. (English summary) **93k:62117**
Song, Ruiguang Moments of variables summing to gamma order statistics. (English summary)
Theodorescu, Radu *see* **Abdous, Belkacem, 93d:62094**
Thomas, P. Yageen Recurrence relations for moments of different orders of extremes from standard normal distribution. **93f:62073**
Trybuś, E. (*with* Trybuś, G.) Computational aspects of the nearest neighbor statistics. (English summary) (*see* **93k:62002**)
Trybuś, G. *see* **Trybuś, E., (93k:62002)**
Wang, Xue Biao Limiting distributions of order statistics with random variable ranks from stationary sequences. (Chinese) **93d:62096**
Wood, Andrew T. A. On the bias of order statistics in non-i.i.d. samples. (English summary)
van Zuijlen, Martien C. A. *see* **Einmahl, John H. J., 93m:62119**

Items with secondary classifications in 62G30

Ahsanullah, Mohammad Some characteristic properties of the record values from the exponential distribution. (English summary) **93e:62037**
Aleškevičienė, Aldona Large and moderate deviations for L-statistics. (Russian. English and Lithuanian summaries) **93h:60035**
(Antle, Charles E.) *see* **Harter, H. Leon, 93c:62001b**
Bacro, Jean-Noël (*with* Brito, Margarida) Comportement asymptotique presque sûr de la différence de statistiques d'ordre uniformes. (English summary) [Almost sure asymptotic behavior of the difference of uniform order statistics] **93a:60044**
(Bain, Lee J.) *see* **Harter, H. Leon, 93c:62001d**
(Balakrishnan, Narayanaswamy) *see* **Harter, H. Leon, 93c:62001c**
Balasubramanian, Krishnaswami (*with* Beg, M. I.) Distributions determined by conditioning on a pair of order statistics. **93h:62018**
Barbe, Philippe Limiting distribution of the maximal spacing when the density function admits a positive minimum. **93e:62047**
Beg, M. I. *see* **Balasubramanian, Krishnaswami, 93h:62018**
Beirlant, Jan (*with* Deheuvels, Paul; Einmahl, John H. J.; Mason, David M.) Bahadur-Kiefer theorems for uniform spacings processes. **93g:60061**
Benson, Ya. E. (*with* Nikitin, Ya. Yu.) Conditions for local asymptotic optimality in the sense of Bahadur of weighted Kolmogorov-Smirnov statistics. (Russian. Russian summary) **93h:62034**
Brito, Margarida *see* **Bacro, Jean-Noël, 93a:60044**
Brown, Bruce Maxwell (*with* Hettmansperger, Thomas P.; Nyblom, Jukka; Oja, Hannu) On certain bivariate sign tests and medians. **93f:62065**
Cheng, Cheng *see* **Kaigh, W. D., 93b:62061**
Cohen, A. Clifford ★ Truncated and censored samples. **93e:62070**
Csáki, Endre Lim inf results for the standardized empirical distribution function. **93b:60069**
Csörgő, Miklós (*with* Horváth, Lajos) Rényi-type empirical processes. **93g:60069**
Dalal, S. R. (*with* Mallows, Colin L.) Buying with exact confidence. (English summary) **93k:60107**
Deheuvels, Paul *see* **Beirlant, Jan; et al., 93g:60061**
(Dubey, Satya D.) *see* **Harter, H. Leon, 93c:62001a**
Egorov, V. A. The law of the iterated logarithm and order statistics. **93d:60042**
Einmahl, John H. J. The a.s. behavior of the weighted empirical process and the LIL for the weighted tail empirical process. **93e:60058**
— *see also* **Beirlant, Jan; et al., 93g:60061**
Einmahl, Uwe (*with* Mason, David M.) Approximations to permutation and exchangeable processes. **93a:60051**
Fernholz, Luisa Turrin Almost sure convergence of smoothed empirical distribution functions. **93d:62029**
Ghorai, J. K. Estimation of a smooth quantile function under the proportional hazards model. **93c:62068**

Gilat, David (*with* Hill, Theodore P.) One-sided refinements of the strong law of large numbers and the Glivenko-Cantelli theorem. (English summary) **93g:60064**
Glaz, Joseph Approximations for tail probabilities and moments of the scan statistic. (English summary) **93i:62043**
Hahn, Marjorie G. (*with* Weiner, Daniel Charles) Asymptotic behavior of self-normalized trimmed sums: nonnormal limits. **93e:60041**
— (*with* Weiner, Daniel Charles) Asymptotic behavior of self-normalized trimmed sums: nonnormal limits. II. **93e:60042**
Haiman, George A strong invariance principle for the extremes of multivariate stationary m-dependent sequences. (English summary) **93h:60048**
Harter, H. Leon ★ The chronological annotated bibliography of order statistics. Vol. IV. **93c:62001a**
— ★ The chronological annotated bibliography of order statistics. Vol. V. **93c:62001b**
— ★ The chronological annotated bibliography of order statistics. Vol. VI. **93c:62001c**
— ★ The chronological annotated bibliography of order statistics. Vol. VII. **93c:62001d**
Hettmansperger, Thomas P. *see* **Brown, Bruce Maxwell; et al., 93f:62065**
Hill, Theodore P. *see* **Gilat, David, 93g:60064**
Hong, Sheng Yan Local oscillation modulus of the uniform empirical process. (English summary) **93i:60060**
Horváth, Lajos *see* **Csörgő, Miklós, 93g:60069**
Huang, Wên Chang (*with* Puri, Prem S.) On some characterizations of the Poisson processes arising in queues with infinite servers. (English summary) **93e:60091**
Inglot, Tadeusz (*with* Kallenberg, Wilbert C. M.; Ledwina, Teresa) Strong moderate deviation theorems. **93e:60052**
Janssen, Arnold Conditions for local asymptotic normality of exponential families. **93h:62030**
Joe, Harry (*with* Smith, Richard L.; Weissman, Ishay) Bivariate threshold methods for extremes. **93b:60104**
Kabatyanskii, G. A. Order statistics and a problem of the time of transmission of messages along a network with packet switching. (Russian) (*see* **93b:60003**)
Kaigh, W. D. (*with* Cheng, Cheng) Subsampling quantile estimators and uniformity criteria. **93b:62061**
Kallenberg, Wilbert C. M. *see* **Inglot, Tadeusz; et al., 93e:60052**
Kantam, R. R. L. (*with* Narasimham, V. L.) Linear estimation in reflected gamma distribution. (English summary)
— *see also* **Rosaiah, K.; et al., 93b:62039**
Katzenbeisser, Walter (*with* Panny, Wolfgang) On the number of times where a simple random walk reaches its maximum. **93b:60152**
— (*with* Panny, Wolfgang) Some further results on the height of lattice paths. (English summary) **93j:60098**
Kaufmann, Edgar (*with* Reiss, Rolf-Dieter) On conditional distributions of nearest neighbors. (English summary) **93g:60102**
Kuk, Anthony Y. C. *see* **Mak, Tak K.**
Ledwina, Teresa *see* **Inglot, Tadeusz; et al., 93e:60052**
Li, Guo Ying[1] *see* **Shi, Pei De, 93b:62090**
Lo, Gane Samb Sur la caractérisation empirique des extrêmes. [Empirical characterization of extremes] **93b:60105**
Mak, Tak K. (*with* Kuk, Anthony Y. C.) A new method for estimating finite-population quantiles using auxiliary information. (English and French summaries)
Mallows, Colin L. *see* **Dalal, S. R., 93k:60107**
Martynov, G. V. Statistical tests based on empirical processes, and related problems. (Russian) **93k:62111**
Mason, David M. (*with* Shorack, Galen R.) Necessary and sufficient conditions for asymptotic normality of L-statistics. (English summary) **93k:60059**
— *see also* **Einmahl, Uwe, 93a:60051** *and* **Beirlant, Jan; et al., 93g:60061**
Meeden, Glen Noninformative nonparametric Bayesian estimation of quantiles. (English summary) **93k:62093**
Mehra, K. L. (*with* Rao, M. Sudhakara; Upadrasta, S. P.) A smooth conditional quantile estimator and related applications of conditional empirical processes. **93d:62119**
Mohan, N. R. (*with* Ravi, S.) On scale and exponent functions of a class of limiting processes. (English summary) **93g:60054**
Narasimham, V. L. *see* **Rosaiah, K.; et al., 93b:62039** *and* **Kantam, R. R. L.**
Nevzorov, V. B. (*with* Rannè, M.) Record times in sequences of non-identically distributed discrete random variables. (Russian. Russian summary) **93g:60111**
Nikitin, Ya. Yu. *see* **Benson, Ya. E., 93h:62034**
Nyblom, Jukka *see* **Brown, Bruce Maxwell; et al., 93f:62065**
Oja, Hannu *see* **Brown, Bruce Maxwell; et al., 93f:62065**
Panny, Wolfgang *see* **Katzenbeisser, Walter, 93b:60152** *and* **93j:60098**
Pfeifer, Dietmar Some remarks on Nevzorov's record model. **93k:60134**
Pollard, David ★ Empirical processes: theory and applications. **93e:60046**
Puri, Prem S. *see* **Huang, Wên Chang, 93e:60091**
Rannè, M. *see* **Nevzorov, V. B., 93g:60111**
Rao, M. Sudhakara *see* **Mehra, K. L.; et al., 93d:62119**
Ravi, S. *see* **Mohan, N. R., 93g:60054**
Reiss, Rolf-Dieter *see* **Kaufmann, Edgar, 93g:60102**
Robison-Cox, James Tables of order statistics of normal random variables under linear trend. (English summary)
Rosaiah, K. (*with* Kantam, R. R. L.; Narasimham, V. L.) Optimum linear unbiased estimation of scale parameter by absolute values of order statistics in symmetric distributions. **93b:62039**
Rudzkis, R. Probabilities of large excursions of empirical processes and fields. (Russian) **93d:60040**
Salinetti, Gabriella (*with* Wets, Roger J.-B.) Glivenko-Cantelli type theorems: an application of the convergence theory of stochastic suprema. **93c:60004**
Shi, Pei De (*with* Li, Guo Ying[1]) A class of PP L-statistics for tests. **93b:62090**
Shorack, Galen R. *see* **Mason, David M., 93k:60059**
Smith, Richard L. *see* **Joe, Harry; et al., 93b:60104**
Takács, Lajos Random walk processes and their applications in order statistics. **93h:60114**
Tiago de Oliveira, José Perspectives on the statistics of extremes. Basic results and open problems. (Portuguese. English and Spanish summaries) **93c:60077**
Upadrasta, S. P. *see* **Mehra, K. L.; et al., 93d:62119**
Wang, Jing Fang Limit distributions of random empirical distributions of projection pursuit for two classes of distribution functions. (Chinese. English and Chinese summaries)
Wang, Xiao Ming Joint asymptotic distributions of order statistics with variable ranks from stationary random sequences. (Chinese. English and Chinese summaries) **93j:60027**
Weiner, Daniel Charles *see* **Hahn, Marjorie G., 93e:60041** *and* **93e:60042**
Weissman, Ishay *see* **Joe, Harry; et al., 93b:60104**
Wets, Roger J.-B. *see* **Salinetti, Gabriella, 93c:60004**
Yang, Yong Xin Asymptotic distributions of order statistics with variable ranks from exchangeable sequences. (Chinese. English and Chinese summaries)
Zhang, Yong Sheng The joint distribution of kth record times and kth record values. (English and Chinese summaries)
Zhu, Hong Distribution of extreme values of dependent identically distributed samples. (Chinese. English and Chinese summaries)
Zhu, Li Xing The probability inequalities for the supreme of the empirical processes and applications to the testing of data structure. **93e:60039**

62G99 None of the above, but in this section

An, Kai Finiteness and continuity of $E_f \log f^a$. (Chinese. English summary)
Bosq, Denis Nonparametric prediction for unbounded almost stationary processes. **93a:62080**
Esty, Warren W. Votes or competitions which determine a winner by estimating expected plurality. **93f:62074**
Liu, Regina Y. (*with* Singh, Kesar) Efficiency and robustness in resampling. **93d:62097**
Manatunga, Amita K. *see* **Oakes, David**
Menon, V. V. (*with* Rai, V. N.) U-statistics, conditional independence and graph theory. (English summary) **93f:62075**
Oakes, David (*with* Manatunga, Amita K.) A new representation of Cox's score statistic and its variance.
Peng, Xiao Ning Penalized likelihood estimators for semiparametric generalized linear models. (Chinese. English and Chinese summaries)
Rai, V. N. *see* **Menon, V. V., 93f:62075**
Singh, Kesar *see* **Liu, Regina Y., 93d:62097**

Items with secondary classifications in 62G99

Andrews, Donald W. K. (*with* Monahan, J. Christopher) An improved heteroskedasticity and autocorrelation consistent covariance matrix estimator.
Bensaïd, Nadia Méthode hilbertienne pour la prévision non paramétrique d'un processus ponctuel. (English summary) [Hilbert method for the nonparametric prediction of a point process] **93b:60083**
Cooke, Roger Marvin (*with* Misiewicz, J. K.; Mendel, Max B.) Applications of l_p symmetric measures to Bayesian inference. **93b:62008**
Green, Paul E. *see* **Krieger, Abba M.**
Hill, Bruce M. Bayesian nonparametric prediction and statistical inference. (English summary) **93i:62003**
Krajka, Andrzej (*with* Szynal, Dominik) Nonparametric functional characteristics of dependence. (English and French summaries) **93j:62161**
Krieger, Abba M. (*with* Green, Paul E.) Generalized measures of association for ranked data with an application to prediction accuracy. (English summary)
Lavine, Michael Some aspects of Pólya tree distributions for statistical modelling. (English summary) **93k:62006b**
León, Carlos Antonio (*with* Massé, Jean-Claude) A counterexample on the existence of the L_1-median. **93b:60014**
Leysieffer, Frederick *see* **Proschan, Michael, 93b:62024**
Li, Qi (*with* Stengos, Thanasis) A Hausman specification test based on root-N-consistent semiparametric estimators. (English summary)
Lindsay, Bruce G. (*with* Roeder, Kathryn) Residual diagnostics for mixture models. (English summary) **93h:62065**
Massé, Jean-Claude *see* **León, Carlos Antonio, 93b:60014**
Mauldin, R. Daniel (*with* Sudderth, William D.; Williams, Stanley Carl) Pólya trees and random distributions. (English summary) **93k:62006a**
Mendel, Max B. *see* **Cooke, Roger Marvin; et al., 93b:62008**
Mishra, Satya N. A nonparametric procedure for selection of populations with extreme quantiles. (English summary) **93k:62044**
Misiewicz, J. K. *see* **Cooke, Roger Marvin; et al., 93b:62008**
Monahan, J. Christopher *see* **Andrews, Donald W. K.**
Natarajan, B. K. Probably approximate learning over classes of distributions. **93m:68142**
Proschan, Michael (*with* Leysieffer, Frederick) A partial ordering of rank densities. **93b:62024**
Rhomari, Noureddine Interpolation et prédiction non paramétrique d'un processus non nécessairement markovien: étude de l'erreur quadratique. (English and French summaries) [Interpolation and nonparametric prediction for a not necessarily Markov process: study of the quadratic error] **93h:62175**
Roeder, Kathryn *see* **Lindsay, Bruce G., 93h:62065**
Stengos, Thanasis *see* **Li, Qi**
Sudderth, William D. *see* **Mauldin, R. Daniel; et al., 93k:62006a**
Szulga, Jerzy Limit distributions of U-statistics resampled by symmetric stable laws. (English summary) **93m:60108**
Szynal, Dominik *see* **Krajka, Andrzej, 93j:62161**
Williams, Stanley Carl *see* **Mauldin, R. Daniel; et al., 93k:62006a**
Wu, Tiee-Jian Contiguous alternatives which preserve L_1-nonuniform central limit bounds for a general class of statistics. (English summary) **93j:60028**
Yang, Song Some inequalities about the Kaplan-Meier estimator. **93b:62023**

62Hxx Multivariate analysis [see also 60Exx]

62H05 Characterization and structure theory

Anderson, T. W. (*with* Fang, Kai Tai) Theory and applications of elliptically contoured and related distributions. (*see* **93e:62004**)

Andersson, Steen A. (*with* Perlman, Michael D.) Lattice-ordered conditional independence models for missing data. **93c:62088**

Barndorff-Nielsen, Ole E. (*with* Blæsild, P.; Seshadri, Vanamamalai) Multivariate distributions with generalized inverse Gaussian marginals, and associated Poisson mixtures. (English and French summaries)

ten Berge, Jos M. F. *see* **Kiers, Henk A. L., 93e:62140**

Bernadac, Évelyne Fractions continues sur les matrices symétriques réelles et la loi gaussienne inverse. (English and French summaries) [Continued fractions on real symmetric matrices and Gaussian inverse distribution] **93g:62070**

Blæsild, P. *see* **Barndorff-Nielsen, Ole E.; et al.**

Cuadras, C. M. Probability distributions with given multivariate marginals and given dependence structure. (English summary) **93h:62102**

Davies, S. J. *see* **Fisher, Nicholas I.; et al., 93k:62118**

Eaton, Morris L. (*with* Perlman, Michael D.) Concentration inequalities for multivariate distributions. I. Multivariate normal distributions. **93d:62098**

Enns, E. G. Dependence relationships for rays in a convex body in $\mathbf{R}^n$. (English summary) (*see* **93f:62004**)

Evans, Steven N. (*with* Speed, T. P.) Invariants of some probability models used in phylogenetic inference. (English summary) **93m:62121**

Fang, Kai Tai (*with* Kotz, Samuel; Ng, Kai W.) On the L_1-norm distributions. (English summary) (*see* **93k:62005**)

— *see also* **Anderson, T. W., (93e:62004)**

Fisher, Nicholas I. (*with* Lunn, A. D.; Davies, S. J.) Spherical median axes. (English summary) **93k:62118**

Gelbrich, Matthias On a formula for the L^2 Wasserstein metric between measures on Euclidean and Hilbert spaces. **93a:62081**

Gupta, Arjun K. (*with* Varga, T.) Characterization of matrix variate normal distributions. **93b:62079**

Hamedani, G. G. Bivariate and multivariate normal characterizations: a brief survey. **93h:62103**

Hung, Ken *see* **Kotz, Samuel; et al., 93g:62071**

Kiers, Henk A. L. (*with* ten Berge, Jos M. F.) Minimization of a class of matrix trace functions by means of refined majorization. (English summary) **93e:62140**

Kollo, T. ★ Матричная производная для многомерной статистики. (Russian) [A matrix derivative for multidimensional statistics] **93f:62076**

Kotz, Samuel (*with* Wang, Qiwen; Hung, Ken) Interrelations among various definitions of bivariate positive dependence. (English summary) **93g:62071**

— *see also* **Fang, Kai Tai; et al., (93k:62005)**

Lunn, A. D. *see* **Fisher, Nicholas I.; et al., 93k:62118**

Ma, Ren Jun A further investigation of multivariate Liouville distributions and some related distributions. (Chinese. English and Chinese summaries) **93m:62122**

Mattner, L. Covariance bounds for multivariate unimodal distributions and a characterization of uniformity. **93h:62104**

McGill, Jeffrey I. The multivariate hazard gradient and moments of the truncated multinormal distribution. (English summary)

Ng, Kai W. *see* **Fang, Kai Tai; et al., (93k:62005)**

Nomakuchi, Kentaro (*with* Shi, Ning Zhong) A note on the orthant probability of the elliptically contoured distribution. **93d:62099**

— A proof of an identity on normal orthant probabilities. **93m:62123**

Perlman, Michael D. *see* **Andersson, Steen A., 93c:62088** *and* **Eaton, Morris L., 93d:62098**

Riedel, M. On invariant parametric covariance families. **93f:62077**

Satorra, Albert The variance matrix of sample second-order moments in multivariate linear relations. (English summary) **93j:62146**

Seshadri, Vanamamalai *see* **Barndorff-Nielsen, Ole E.; et al.**

Shi, Ning Zhong *see* **Nomakuchi, Kentaro, 93d:62099**

Speed, T. P. *see* **Evans, Steven N., 93m:62121**

Strasser, H. Concentration of multivariate statistical tables. **93d:62100**

Varga, T. *see* **Gupta, Arjun K., 93b:62079**

Wang, Qiwen *see* **Kotz, Samuel; et al., 93g:62071**

Wesołowski, Jacek Gaussian conditional structure of the second order and the Kagan classification of multivariate distributions. **93a:62082**

— A characterization of the bivariate elliptically contoured distribution. **93b:62080**

Items with secondary classifications in 62H05

Choi, Byoung Seon On the conditional probability density functions of multivariate uniform random vectors and multivariate normal random vectors. **93a:62013**

Girko, V. L. Asymptotics of the eigenvalues of empirical covariance matrices. II. (Ukrainian. Russian and Ukrainian summaries) **93j:62148**

Hüsler, J. Dependence in multivariate extreme values. (English summary) **93g:60048**

Jensen, D. R. Invariance under dependence by mixing. (English summary) **93i:60024**

Magnus, Jan R. On certain moments relating to ratios of quadratic forms in normal variables: further results. (English summary) **93e:62144**

Misiewicz, J. K. Some remarks on measures with n-dimensional versions. (English summary) **93k:60036**

Mukerjee, Rahul *see* **Purkayastha, Sumitra, 93j:62035**

Prakasa Rao, B. L. S. ★ Identifiability in stochastic models. **93j:62034**

Purkayastha, Sumitra (*with* Mukerjee, Rahul) Maximum likelihood characterization of the von Mises-Fisher matrix distribution. (English summary) **93j:62035**

Rao, M. Bhaskara *see* **Subramanyam, K., 93g:60030**

Rubin, Donald B. (*with* Thomas, Neal) Affinely invariant matching methods with ellipsoidal distributions. **93h:62015**

Soms, Andrew P. A note on equality in Anderson's theorem. **93c:60022**

Subramanyam, K. (*with* Rao, M. Bhaskara) On the structure of $2 \times \infty$ bivariate distributions which are totally positive of order two. (English summary) **93g:60030**

— Some comments on positive quadrant dependence in three dimensions. (English summary) (*see* **93f:62004**)

Thomas, Neal *see* **Rubin, Donald B., 93h:62015**

Vitale, Richard A. On stochastic dependence and a class of degenerate distributions. (English summary) **93i:60030**

Wesołowski, Jacek A characterization of the bivariate elliptically contoured distribution. (English summary) **93e:62044**

62H10 Distribution of statistics

Ali, Mir Maswood (*with* Joarder, Anwarul H.) Distribution of the correlation coefficient for the class of bivariate elliptical models. (French summary) **93e:62141**

— *see also* **Joarder, Anwarul H., 93h:62106**

Amemiya, Yasuo *see* **Anderson, T. W., 93d:62101**

Anderson, T. W. (*with* Amemiya, Yasuo) Testing dimensionality in the multivariate analysis of variance. **93d:62101**

Aoshima, Makoto Asymptotic distributions of quasi-Wishart matrix and its latent roots in the heteroscedastic case. **93d:62102**

Bedrick, Edward J. A comparison of generalized and modified sample biserial correlation estimators. **93e:62142**

Bingham, Christopher (*with* Chang, Theodore; Richards, Donald St. P.) Approximating the matrix Fisher and Bingham distributions: applications to spherical regression and Procrustes analysis. **93f:62078**

Bobrik, R. V. An asymptotic expansion for the linear system with Gaussian parameter. (*see* **93k:60008**)

Chang, Theodore *see* **Bingham, Christopher; et al., 93f:62078**

Chikuse, Yasuko Asymptotic expansions for distributions of the large sample matrix resultant and related statistics on the Stiefel manifold. **93d:62103**

Ćmiel, Adam (*with* Szkutnik, Zbigniew) On the distribution of a useful maximal invariant. **93g:62072**

Fan, Da Yin Some problems on multivariate random variables. (Chinese. Chinese summary)

Fujikoshi, Yasunori On confidence regions in canonical discriminant analysis. **93k:62119**

Girko, V. L. Limit theorems for maximal and minimal eigenvalues of random matrices. (Russian) **93j:62147**

— Asymptotics of the eigenvalues of empirical covariance matrices. I. (Russian) **93c:62089**

— (*with* Stepakhno, I. V.) Asymptotics of Stieltjes transforms of singular spectral functions. (Ukrainian. Russian and Ukrainian summaries) **93h:62105**

— Asymptotics of the eigenvalues of empirical covariance matrices. II. (Ukrainian. Russian and Ukrainian summaries) **93j:62148**

Gong, Li Qiang Problems on testing equality of scale parameters in a growth curve model. (Chinese. English and Chinese summaries)

Goodall, Colin (*with* Mardia, Kanti V.) The noncentral Bartlett decompositions and shape densities. **93e:62143**

Gupta, Arjun K. *see* **Nagar, Daya K.; et al.**

Gupta, Rameshwar D. *see* **Khattree, Ravindra, 93b:62081** *and* **Khatri, C. G.; et al., 93k:62120**

Gupta, Sudhir (*with* Singh, Murari) Behaviour of some transforms of correlation coefficient from a bivariate normal sample contaminated with bivariate normal outliers. (English summary)

Jain, S. K. *see* **Nagar, Daya K.; et al.**

Jensen, D. R. (*with* Ramirez, D. E.) Misspecified T^2 tests. I. Location and scale. **93a:62083a**

— *see also* **Ramirez, D. E., 93a:62083b**

Joarder, Anwarul H. (*with* Ali, Mir Maswood) Distribution of the correlation matrix for a class of elliptical models. **93h:62106**

— *see also* **Ali, Mir Maswood, 93e:62141**

Kabe, D. G. On some noncentral distribution problems of hypercomplex multivariate normal distribution theory. (English summary)

Khatri, C. G. (*with* Khattree, Ravindra; Gupta, Rameshwar D.) On a class of orthogonal invariant and residual independent matrix distributions. (English summary) **93k:62120**

Khattree, Ravindra (*with* Gupta, Rameshwar D.) Some probability distributions connected with beta and gamma matrices. **93b:62081**

— *see also* **Khatri, C. G.; et al., 93k:62120**

Kostlan, Eric On the spectra of Gaussian matrices. **93c:62090**

Magnus, Jan R. On certain moments relating to ratios of quadratic forms in normal variables: further results. (English summary) **93e:62144**

Mardia, Kanti V. *see* **Goodall, Colin, 93e:62143**

Mathai, A. M. On fractional moments of quadratic expressions in normal variables. **93d:62104**

Nagao, Hisao Asymptotic expansions of some test criteria for sphericity test and test of independence under local alternatives from an elliptical distribution. (English summary) **93m:62124**

Nagar, Daya K. (*with* Jain, S. K.; Gupta, Arjun K.) Distribution of LRC for testing sphericity structure of a covariance matrix in multivariate normal distribution. (English and Italian summaries)

— (*with* Tayal, Vipin; Sharma, K. L.) Nonnull distribution of LRC for testing homogeneity of completely symmetric Gaussian models. (English summary)

Nolan, D. The excess-mass ellipsoid. **93c:62091**

Ramirez, D. E. (*with* Jensen, D. R.) Misspecified T^2 tests. II. Series expansions. **93a:62083b**

— *see also* **Jensen, D. R., 93a:62083a**

Rathie, Arjun K. On the null distribution of likelihood ratio criterion for reality of covariance matrix. (English and Italian summaries)

Richards, Donald St. P. *see* **Bingham, Christopher; et al., 93f:62078**

Royen, T. Expansions for the multivariate chi-square distribution. **93c:62092**

Sharma, K. L. *see* **Nagar, Daya K.; et al.**

Siegel, Andrew F. A surprising covariance involving the minimum of multivariate normal variables. (English summary) **93k:62121**

Singh, Murari *see* **Gupta, Sudhir**

Stepakhno, I. V. *see* **Girko, V. L., 93h:62105**

Sultan, Shagufta A. *see* **Tracy, Derrick S.**

Szkutnik, Zbigniew *see* **Ćmiel, Adam, 93g:62072**

Tayal, Vipin *see* **Nagar, Daya K.; et al.**
Tracy, Derrick S. (*with* Sultan, Shagufta A.) Third moment of matrix quadratic form. (English summary)

Items with secondary classifications in 62H10

Alam, Khursheed (*with* Kulasekera, K. B.) Truncation error in the expansion of the distribution of a quadratic form. (English summary) **93k:62033**
Amey, Alphonse K. A. (*with* Gupta, Arjun K.) Testing sphericity under a mixture model. (English summary) **93m:62126**
Anderson, T. W. (*with* Fang, Kai Tai) Theory and applications of elliptically contoured and related distributions. (*see* **93e:62004**)
Bansal, Naveen K. On testing linear hypotheses on linear functional and structural relationships. **93d:62027**
Baringhaus, L. (*with* Henze, N.) Limit distributions for measures of multivariate skewness and kurtosis based on projections. **93a:62086**
Barndorff-Nielsen, Ole E. (*with* Jørgensen, Bent) Some parametric models on the simplex. **93c:62023**
Booth, James G. *see* **Butler, Ronald W.; et al.**
Butler, Ronald W. (*with* Huzurbazar, S.; Booth, James G.) Saddlepoint approximations for tests of block independence, sphericity and equal variances and covariances. (English summary)
Cacoullos, Theophilos Two LDF characterizations of the normal as a spherical distribution. **93f:60018**
Chaika, O. G. *see* **Girko, V. L., 93d:60058**
Chaudhuri, Probal Multivariate location estimation using extension of *R*-estimates through *U*-statistics type approach. **93h:62072**
Chelliah, Thivvianesan Invariant distribution of Chow statistics. (English summary) **93g:62077**
Choi, Byoung Seon A maximum likelihood proof of the Hadamard inequality.
Eaton, Morris L. (*with* Perlman, Michael D.) Multivariate probability inequalities: convolution theorems, composition theorems, and concentration inequalities. (English summary) **93h:60027**
Fang, Kai Tai *see* **Anderson, T. W., (93e:62004)**
Fujikoshi, Yasunori *see* **Yokoyama, Takahisa, 93d:62110**
Girko, V. L. ★ Теория эмпирических систем уравнений. (Russian) [Theory of empirical systems of equations] **93d:60106**
— *G*-estimates of eigen-values of covariance matrices. **93e:62146**
— (*with* Chaĭka, O. G.) Moments of spectral distribution functions of the distances between neighboring eigenvalues of random matrices. (Russian) **93d:60058**
— Systems of linear algebraic equations with random coefficients. (Russian) **93e:60128**
Gupta, Arjun K. (*with* Nagar, Daya K.; Jain, Kalpana) On the asymptotic distribution of likelihood ratio statistic for testing multisample sphericity in the complex case. (English and Italian summaries)
— *see also* **Amey, Alphonse K. A., 93m:62126**
Hanlon, Philip J. (*with* Stanley, Richard P.; Stembridge, John R.) Some combinatorial aspects of the spectra of normally distributed random matrices. **93j:05164**
He, Kun Parametric empirical Bayes confidence intervals based on James-Stein estimator. **93d:62014**
Henze, N. *see* **Baringhaus, L., 93a:62086**
Hu, Tai Zhong Monotonicity of the probability of a rectangular region under a multinormal distribution with nonzero means. (English and Chinese summaries) **93m:60038**
Huzurbazar, S. *see* **Butler, Ronald W.; et al.**
Jain, Kalpana *see* **Gupta, Arjun K.; et al.**
James, Barry (*with* James, Kang Ling; Siegmund, David O.) Asymptotic approximations for likelihood ratio tests and confidence regions for a change-point in the mean of a multivariate normal distribution. **93f:62025**
James, Kang Ling *see* **James, Barry; et al., 93f:62025**
Jørgensen, Bent *see* **Barndorff-Nielsen, Ole E., 93c:62023**
Kocherlakota, Kathleen *see* **Kocherlakota, Subrahmaniam, 93h:62003**
Kocherlakota, Subrahmaniam (*with* Kocherlakota, Kathleen) ★ Bivariate discrete distributions. **93h:62003**
Kulasekera, K. B. *see* **Alam, Khursheed, 93k:62033**
Lopuhaä, Hendrik P. Highly efficient estimators of multivariate location with high breakdown point. **93e:62097**
Mathai, A. M. On linear functions of certain noncentral versions of independent gamma variables. **93g:62027**
Nagar, Daya K. *see* **Gupta, Arjun K.; et al.**
Nolan, D. Asymptotics for multivariate trimming. **93j:62043**
Pan, Jian Xin *see* **Wang, Xue Ren, 93i:62049**
Perlman, Michael D. *see* **Eaton, Morris L., 93h:60027**
Royen, T. Multivariate gamma distributions with one-factorial accompanying correlation matrices and applications to the distribution of the multivariate range. **93f:62082**
Siegmund, David O. *see* **James, Barry; et al., 93f:62025**
Skorokhod, A. V. (*with* Stepakhno, V. I.) Asymptotic properties of the correlation operator for the multivariate random vectors. (*see* **93k:60008**)
Srivastava, T. N. On the nonnull distribution for the problem of compound symmetry. (English summary) **93h:62115**
Stanley, Richard P. *see* **Hanlon, Philip J.; et al., 93j:05164**
Stembridge, John R. *see* **Hanlon, Philip J.; et al., 93j:05164**
Stepakhno, V. I. On large samples of observations of random vectors of large dimension. (Russian. Ukrainian summary) **93b:60031**
— *see also* **Skorokhod, A. V., (93k:60008)**
Tu, Dong Sheng Weighted stochastic approximation of estimates of errors and variance in linear models. (Chinese. Chinese summary) **93j:62177**
Wang, Xue Ren (*with* Pan, Jian Xin) Optimal and robust detection of multivariate outliers for elliptically contoured distribution. (English summary) **93i:62049**
Yokoyama, Takahisa (*with* Fujikoshi, Yasunori) Tests for random-effects covariance structures in the growth curve model with covariates. **93d:62110**

62H11 Directional data; spatial statistics

Bust, R. I. (*with* Zucchini, W.) Rotation invariant bases for linear modelling of observations with a circular ordering. (English summary) **93h:62107**
Cullis, B. R. *see* **Verbyla, A. P.**
Dryden, I. L. (*with* Mardia, Kanti V.) Size and shape analysis of landmark data. **93c:62093**
Fisher, Nicholas I. (*with* Lee, A. J.) Regression models for an angular response. (English and French summaries) **93f:62079**
Gupta, Vijay K. (*with* Waymire, Edward C.) Spatial statistics of random networks and a problem in river basin hydrology. (English summary) **93j:62149**
He, Xuming (*with* Simpson, Douglas G.) Robust direction estimation. **93d:62105**
Ko, Daijin Robust estimation of the concentration parameter of the von Mises-Fisher distribution. **93j:62150**
Lee, A. J. *see* **Fisher, Nicholas I., 93f:62079**
Liu, Regina Y. (*with* Singh, Kesar) Ordering directional data: concepts of data depth on circles and spheres. (English summary) **93h:62108**
Mardia, Kanti V. *see* **Dryden, I. L., 93c:62093**
Shemyakin, A. E. On estimating parameters of a distribution concentrated in a circle. (English summary) **93i:62047**
Simpson, Douglas G. *see* **He, Xuming, 93d:62105**
Singh, Kesar *see* **Liu, Regina Y., 93h:62108**
Stephens, M. A. On Watson's ANOVA for directions. (English summary) (*see* **93b:62003**)
Verbyla, A. P. (*with* Cullis, B. R.) The analysis of multistratum and spatially correlated repeated measures data. (English and French summaries)
Waymire, Edward C. *see* **Gupta, Vijay K., 93j:62149**
Zucchini, W. *see* **Bust, R. I., 93h:62107**

Items with secondary classifications in 62H11

Abdous, Belkacem (*with* Theodorescu, Radu) Note on the spatial quantile of a random vector. **93d:62094**
Davies, S. J. *see* **Fisher, Nicholas I.; et al., 93k:62118**
Fisher, Nicholas I. (*with* Hall, Peter Gavin) Bootstrap methods for directional data. (English summary) (*see* **93b:62003**)
— (*with* Lunn, A. D.; Davies, S. J.) Spherical median axes. (English summary) **93k:62118**
Hall, Peter Gavin *see* **Fisher, Nicholas I., (93b:62003)**
Hendriks, Harrie A Cramér-Rao type lower bound for estimators with values in a manifold. **93b:62084**
Kent, John T. New directions in shape analysis. (English summary) (*see* **93b:62003**)
Kiiveri, H. T. Fitting spatial correlation models: approximating a likelihood approximation. (English summary) **93k:62185**
Le, Nhu D. (*with* Zidek, James V.) Interpolation with uncertain spatial covariances: a Bayesian alternative to Kriging. (English summary) **93k:62195**
Lunn, A. D. *see* **Fisher, Nicholas I.; et al., 93k:62118**
Theodorescu, Radu *see* **Abdous, Belkacem, 93d:62094**
Zidek, James V. *see* **Le, Nhu D., 93k:62195**

62H12 Estimation

Ahmed, S. E. (*with* Badahdah, S. O.) On the estimation of the mean vector of a multivariate normal distribution under symmetry.
Alam, Khursheed (*with* Mitra, Amitava) On estimating the scale and noncentrality matrices of a Wishart distribution. (English summary) **93e:62145**
Badahdah, S. O. *see* **Ahmed, S. E.**
Bansal, Naveen K. (*with* Bhandary, Madhusudan) Bayes estimation of number of signals. **93a:62084**
Basu, Asit P. A survey of some inference problems for dependent systems. (English summary) **93g:62073**
Berry, J. Calvin *see* **Jin, Chun**
Bhandary, Madhusudan Robust *M*-estimation of a dispersion matrix with a structure. **93d:62106**
— *see also* **Bansal, Naveen K., 93a:62084**
Bilodeau, Martin (*with* Srivastava, M. S.) Estimation of the eigenvalues of $\Sigma_1\Sigma_2^{-1}$. **93b:62082**
Boichuk, Z. G. G_4-estimates for traces of powers of covariance matrices. (Russian)
Cellier, Dominique (*with* Fourdrinier, Dominique) Estimation du paramètre de position d'une loi à symétrie sphérique: une condition générale de domination de l'estimateur des moindres carrés. (English and French summaries) [Estimation of the location parameter of a spherically symmetric distribution: a general condition of domination of the least-squares estimator] **93j:62151**
Chou, Youn-Min A bivariate noncentral *t*-distribution with applications. (English summary) **93h:62109**
Davies, P. Laurie An efficient Fréchet differentiable high breakdown multivariate location and dispersion estimator. **93c:62094**
Delgado, Miguel A. Semiparametric generalized least squares in the multivariate nonlinear regression model. (English summary) **93j:62152**
Feldman, Israel Constrained minimax estimation of the mean of the normal distribution with known variance. **93d:62107**
Fourdrinier, Dominique *see* **Cellier, Dominique, 93j:62151**
George, Varghese T. (*with* Johnson, William D.) Effect of regression to the mean in multivariate distributions. **93c:62095**
Giles, David E. A. (*with* Srivastava, Virendra Kumar) An unbiased estimator of the covariance matrix of the mixed regression estimator. **93a:62085**
Giri, N. *see* **Perron, François, 93b:62085**
Girko, V. L. *G*-estimates of eigen-values of covariance matrices. **93e:62146**
— *S*-estimates. (Russian) **93c:62096**
Green, Edwin J. (*with* Strawderman, William E.) A James-Stein type estimator for combining unbiased and possibly biased estimators. **93b:62083**
Guo, Ying Yueh (*with* Pal, Nabendu) A note on the trace of a normal dispersion matrix. (English summary) **93j:62153**
Helland, Inge S. Maximum likelihood regression on relevant components. **93h:62110**

Hendriks, Harrie A Cramér-Rao type lower bound for estimators with values in a manifold. **93b:62084**

Jiang, Wen Jiang Nonnegative optimality of a quadratic estimator in multivariate linear models. (Chinese) **93g:62074**

Jin, Chun (*with* Berry, J. Calvin) Equivariant estimation of a normal mean vector using a normal concomitant vector for covariance adjustment. (English summary)

Johnson, William D. *see* **George, Varghese T., 93c:62095**

Khatri, C. G. (*with* Rao, Calyampudi Radhakrishna) Multivariate linear model with latent variables: problems of estimation. (English summary) **93j:62154**

Koning, Ruud H. (*with* Neudecker, Heinz; Wansbeek, Tom) Unbiased estimation of fourth-order matrix moments. **93c:62097**

Krishnamoorthy, K. Estimation of a common multivariate normal mean vector. **93c:62098**

Kshirsagar, Anant M. *see* **Weissfeld, L. A., 93g:62076**

Kubokawa, Tatsuya (*with* Saleh, A. K. Md. Ehsanes; Morita, K.) Improving on MLE of coefficient matrix in a growth curve model. **93m:62125**

Kumar, Somesh (*with* Sharma, Divakar) Estimating the common mean of a bivariate normal population. (English summary) **93f:62080**

Manicke, Robert L. On multivariate regression estimation. (Italian summary) **93c:62099**

Maronna, Ricardo A. (*with* Stahel, Werner A.; Yohai, Víctor J.) Bias-robust estimators of multivariate scatter based on projections. (English summary) **93k:62122**

Mitra, Amitava *see* **Alam, Khursheed, 93c:62145**

Morita, K. *see* **Kubokawa, Tatsuya; et al., 93m:62125**

Neudecker, Heinz *see* **Koning, Ruud H.; et al., 93c:62097**

Nordström, Kenneth The concentration ellipsoid of a random vector revisited. **93c:62100**

Pal, Nabendu *see* **Guo, Ying Yueh, 93j:62153**

Park, Tae Sung (*with* Woolson, Robert F.) Generalized multivariate models for longitudinal data. (English summary) **93h:62111**

Perron, François (*with* Giri, N.) Best equivariant estimation in curved covariance models. **93b:62085**

— Confidence sets having the shape of a half-space. (English summary) **93j:62155**

Rao, Calyampudi Radhakrishna *see* **Khatri, C. G., 93j:62154**

Rocke, David M. (*with* Woodruff, D. L.) Computation of robust estimates of multivariate location and shape. (English summary)

Romanazzi, Mario Jackknife estimation of the eigenvalues of the covariance matrix. (English summary)

Rukhin, Andrew L. Asymptotic risk behavior of mean vector and variance estimators and the problem of positive normal mean. (English summary) **93g:62075**

Saleh, A. K. Md. Ehsanes *see* **Kubokawa, Tatsuya; et al., 93m:62125**

Sarkar, Sanat K. Stein-type improvements of confidence intervals for the generalized variance. **93d:62108**

Sharma, Divakar *see* **Kumar, Somesh, 93f:62080**

Silvapulle, Mervyn J. On M-methods in growth curve analysis with asymmetric errors. (English summary) **93j:62156**

Sinha, Bimal Kumar Multivariate problems. (*see* **93g:62102**)

Srivastava, M. S. *see* **Bilodeau, Martin, 93b:62082**

Srivastava, Virendra Kumar *see* **Giles, David E. A., 93a:62085**

Stahel, Werner A. *see* **Maronna, Ricardo A.; et al., 93k:62122**

Strawderman, William E. *see* **Green, Edwin J., 93b:62083**

Sugiura, Nariaki Entropy loss and a class of improved estimators for powers of the generalized variance. (English summary) **93c:62101**

Wang, Ming Wen *see* **Zhang, Guo Zhi**

Wansbeek, Tom *see* **Koning, Ruud H.; et al., 93c:62097**

Weissfeld, L. A. (*with* Kshirsagar, Anant M.) A modified growth curve model and its application to clinical studies. (English summary) **93g:62076**

Woodruff, D. L. *see* **Rocke, David M.**

Woolson, Robert F. *see* **Park, Tae Sung, 93h:62111**

Yohai, Víctor J. *see* **Maronna, Ricardo A.; et al., 93k:62122**

Zhang, Guo Zhi (*with* Wang, Ming Wen) An improvement on estimators of the mean for normal distributions and a class of elliptical distributions. (Chinese. English and Chinese summaries)

Zhou, Guang Ya *see* **Zou, Guo Hua, 93f:62081**

Zou, Guo Hua (*with* Zhou, Guang Ya) Estimation of the loss function for an estimator of location parameters. (Chinese. English and Chinese summaries) **93f:62081**

Items with secondary classifications in 62H12

Anderson, T. W. (*with* Fang, Kai Tai) Theory and applications of elliptically contoured and related distributions. (*see* **93e:62004**)

Bai, Zhi Dong (*with* Rao, Calyampudi Radhakrishna; Wu, Yue Hua) M-estimation of multivariate linear regression parameters under a convex discrepancy function. **93c:62060**

Bischoff, Wolfgang (*with* Fieger, W.) Minimax estimators and Γ-minimax estimators for a bounded normal mean under the loss $l_\rho(\theta, d) = |\theta - d|^\rho$. **93g:62016**

Brandwein, Ann Cohen (*with* Strawderman, William E.) Improved estimates of location in the presence of an unknown scale. **93d:62017**

Chang, Theodore *see* **Eaves, D. M., 93e:62086**

Chaudhuri, Probal Multivariate location estimation using extension of R-estimates through U-statistics type approach. **93h:62072**

Chen, Ze Hua Interaction spline models and their convergence rates. **93a:62050**

Clarke, Brenton R. The selection functional. **93d:62034**

Cornelius, Paul L. *see* **Seyedsadr, Mahmoud, 93k:62144**

Eaves, D. M. (*with* Chang, Theodore) Priors for ordered conditional variance and vector partial correlation. **93e:62086**

Fang, Kai Tai *see* **Anderson, T. W., (93e:62004)**

Fieger, W. *see* **Bischoff, Wolfgang, 93g:62016**

Fourdrinier, Dominique (*with* Wells, Martin T.) Estimation d'un coût quadratique pour des lois à symétrie sphérique. (English and French summaries) [Estimation of a quadratic loss under spherically symmetric distribution] **93h:62008**

Gleser, Leon Jay The importance of assessing measurement reliability in multivariate regression. (English summary) **93j:62172**

Guo, Ying Yueh (*with* Pal, Nabendu) A sequence of improvements over the James-Stein estimator. (English summary) **93h:62009**

Hadi, Ali S. (*with* Wells, Martin T.) Minimum distance method of estimation and testing when statistics have limiting singular multivariate normal distribution. (English summary) **93e:62150**

He, Xuming (*with* Simpson, Douglas G.) Robust direction estimation. **93d:62105**

Inada, Kôichi A minimax regret estimator of the normal mean with unknown variance after preliminary test. **93i:62021**

Kabe, D. G. On a prediction interval problem of econometric aggregation theory. (English summary) **93j:62246**

Kallianpur, Gopinath (*with* Selukar, R. S.) Parameter estimation in linear filtering. **93a:62038**

Khattree, Ravindra *see* **Sen, Pranab Kumar; et al., 93a:62033**

Ko, Daijin Robust estimation of the concentration parameter of the von Mises-Fisher distribution. **93j:62150**

Krishnamoorthy, K. Estimation of normal covariance and precision matrices with incomplete data. **93b:62015**

— On a shrinkage estimator of a normal common mean vector. **93a:62028**

Kubáček, Lubomír Estimation of the first and second order parameters in regression models with special structure. **93d:62123**

Lee, Sik Yum *see* **Yau, Linda H.-Y.; et al.**

Leung, Pui Lam Estimation of eigenvalues of the scale matrix of the multivariate F distribution. **93e:62027**

Lopuhaä, Hendrik P. Multivariate τ-estimators for location and scatter. (French summary) **93c:62061**

Mathai, A. M. (*with* Moschopoulos, Panagis G.) On a multivariate gamma. **93d:62026**

McGilchrist, C. A. *see* **Tobing, H., 93m:62168**

Morgera, Salvatore D. The role of abstract algebra in structured estimation theory. **93c:94001**

Moschopoulos, Panagis G. *see* **Mathai, A. M., 93d:62026**

Nagelkerke, Nico J. D. ★ Maximum likelihood estimation of functional relationships. **93m:62053**

Nayak, Tapan K. *see* **Sen, Pranab Kumar; et al., 93a:62033**

Olbricht, W. Robustification of estimators by Winsorizing on ellipsoids. (English summary) **93k:62074**

Pal, Nabendu *see* **Guo, Ying Yueh, 93h:62009**

Perron, François Minimax estimators of a covariance matrix. (English summary) **93j:62015**

Poon, Wai-Yin *see* **Yau, Linda H.-Y.; et al.**

Prakasa Rao, B. L. S. Cramér-Rao type integral inequalities for estimators of functions of multidimensional parameter. (English summary) **93h:62052**

Rao, Calyampudi Radhakrishna *see* **Bai, Zhi Dong; et al., 93c:62060**

Rattihalli, R. N. (*with* Shirke, D. T.) An improved confidence region for the common mean vector of two multivariate homoscedastic normal distributions.

Ronchetti, Elvezio Optimal robust estimators for the concentration parameter of a von Mises-Fisher distribution. (English summary) **93e:62098**

Rukhin, Andrew L. (*with* Sinha, Bimal Kumar) Decision-theoretic estimation of the product of gamma scales and generalized variance. **93g:62014**

— Generalized Bayes estimators of a normal discriminant function. **93c:62015**

Sadaghiani, M. K. (*with* Teugels, Jozef L.) Models for two-way contingency tables. **93c:62107**

Saleh, A. K. Md. Ehsanes (*with* Sen, Pranab Kumar) Pitman-closeness of some preliminary test and shrinkage estimators. **93f:62033**

Selukar, R. S. *see* **Kallianpur, Gopinath, 93a:62038**

Sen, Pranab Kumar (*with* Nayak, Tapan K.; Khattree, Ravindra) Comparison of estimators of a dispersion matrix under generalized Pitman nearness criterion. **93a:62033**

— *see also* **Saleh, A. K. Md. Ehsanes, 93f:62033**; **Tsai, Ming Tan M., 93j:62131** *and* **Sengupta, Debapriya, 93m:62025**

Sengupta, Debapriya (*with* Sen, Pranab Kumar) Shrinkage estimation in a restricted parameter space. (English summary) **93m:62025**

Seyedsadr, Mahmoud (*with* Cornelius, Paul L.) Shifted multiplicative models for nonadditive two-way tables. (English summary) **93k:62144**

Sheena, Yo (*with* Takemura, Akimichi) Inadmissibility of non-order-preserving orthogonally invariant estimators of the covariance matrix in the case of Stein's loss. **93j:62017**

Shirke, D. T. *see* **Rattihalli, R. N.**

Simpson, Douglas G. *see* **He, Xuming, 93d:62105**

Sinha, Bimal Kumar *see* **Rukhin, Andrew L., 93g:62014**

Strawderman, William E. *see* **Brandwein, Ann Cohen, 93d:62017**

Tahir, Mohamed Fixed-width sequential confidence interval for the correlation coefficient of a bivariate normal distribution. **93b:62119**

Takemura, Akimichi *see* **Sheena, Yo, 93j:62017**

Teugels, Jozef L. *see* **Sadaghiani, M. K., 93c:62107**

Tobing, H. (*with* McGilchrist, C. A.) Recursive residuals for multivariate regression models. (English summary) **93m:62168**

Tsai, Ming Tan M. (*with* Sen, Pranab Kumar) Asymptotic optimality and distribution theory of UI-LMP rank tests for restricted alternatives. (English summary) **93j:62131**

Vecchia, A. V. A new method of prediction for spatial regression models with correlated errors. (English summary) **93f:62088**

Wells, Martin T. *see* **Hadi, Ali S., 93e:62150** *and* **Fourdrinier, Dominique, 93h:62008**

Wu, Yue Hua *see* **Bai, Zhi Dong; et al., 93c:62060**

Yau, Linda H.-Y. (*with* Lee, Sik Yum; Poon, Wai-Yin) Covariance structure analysis with three-level data. (English summary)

Items listed otherwise than by author

Lecture Notes in Statistics *see* **Nagelkerke, Nico J. D., 93m:62053**

62H15 Hypothesis testing

Afsarinejad, Kasra *see* **Zhang, Yao Ting, 93j:62159**

Albert, Jeffrey M. A corrected likelihood ratio statistic for the multivariate regression model with antedependent errors.

Amey, Alphonse K. A. (*with* Gupta, Arjun K.) Testing sphericity under a mixture model. (English summary) **93m:62126**

Banerjee, Pradeep Kumar *see* **Giri, N.; et al., 93j:62157**

Baringhaus, L. (*with* Henze, N.) Limit distributions for measures of multivariate skewness and kurtosis based on projections. **93a:62086**

Bass, Thomas A. (*with* Fung, Karen Yuen) A two-stage test for the mean of a multivariate normal distribution with known covariance matrix. (English summary)

Behara, M. *see* **Giri, N.; et al., 93j:62157**

Bernhard, Gudrun *see* **Hommel, Gerhard, (93k:62001)**

Boos, Dennis D. *see* **Zhang, Ji**

Chelliah, Thivvianesan Invariant distribution of Chow statistics. (English summary) **93g:62077**

Cohen, Arthur *see* **Kariya, Takeaki, 93g:62078a** *and* **93g:62078b**

Cordeiro, Gauss M. General matrix formulae for computing Bartlett corrections. (English summary)

Das, Kalyan *see* **Giri, N., 93e:62148**

Eaton, Morris L. *see* **Runger, George C., 93m:62128**

Fraser, D. A. S. (*with* Guttman, Irwin; Srivastava, M. S.) Conditional inference for treatment and error in multivariate analysis. **93c:62102**

Fujikoshi, Yasunori (*with* Rao, Calyampudi Radhakrishna) Selection of covariables in the growth curve model. **93e:62147**

— (*with* Watamori, Yoko) Tests for the mean direction of the Langevin distribution with large concentration parameter. (English summary) **93h:62112**

— *see also* **Yokoyama, Takahisa, 93d:62110**

Fung, Karen Yuen *see* **Bass, Thomas A.**

Giri, N. (*with* Das, Kalyan) Locally minimax tests of independence with additional observations. (English summary) **93e:62148**

— (*with* Behara, M.; Banerjee, Pradeep Kumar) Locally minimax test of independence in elliptically symmetrical distributions with additional observations. **93j:62157**

Gupta, Arjun K. (*with* Nagar, Daya K.; Jain, Kalpana) Asymptotic distribution of likelihood ratio statistic for testing multisample sphericity. (English summary) **93e:62149**

— *see also* **Amey, Alphonse K. A., 93m:62126**

Guttman, Irwin *see* **Fraser, D. A. S.; et al., 93c:62102**

Hadi, Ali S. (*with* Wells, Martin T.) Minimum distance method of estimation and testing when statistics have limiting singular multivariate normal distribution. (English summary) **93e:62150**

Henze, N. *see* **Baringhaus, L., 93a:62086**

Hommel, Gerhard (*with* Bernhard, Gudrun) Multiple hypotheses testing. (English summary) (*see* **93k:62001**)

Jain, Kalpana *see* **Gupta, Arjun K.; et al., 93e:62149**

Jensen, D. R. The use of randomization in repeated measurements. **93k:62123**

Jernigan, Robert W. *see* **Modarres, Reza, 93h:62114**

Johnson, Richard A. (*with* Wichern, Dean W.) ★ Applied multivariate statistical analysis. **93c:62103**

Kailath, Thomas *see* **Viberg, M.; et al., 93j:62158**

Kariya, Takeaki (*with* Cohen, Arthur) On the invariance structure of the one-sided testing problem for a multivariate normal mean. **93g:62078a**

— (*with* Cohen, Arthur) Corrigenda: "On the invariance structure of the one-sided testing problem for a multivariate normal mean". **93g:62078b**

— *see also* **Kuwana, Yoichi, 93a:62087**

Kim, Hea-Jung A test for equality form of covariance matrices of multivariate normal populations.

Kuwana, Yoichi (*with* Kariya, Takeaki) LBI tests for multivariate normality in exponential power distributions. **93a:62087**

Li, Guo Ying[1] (*with* Zha, Wen Xing) PP Neyman tests for multivariate goodness-of-fit. **93h:62113**

McDermott, Maria *see* **Mudholkar, Govind S.; et al.**

Meaux, Laurie M. *see* **Young, Dean M.; et al., 93e:62152**

Modarres, Reza (*with* Jernigan, Robert W.) Testing the equality of correlation matrices. (English summary) **93h:62114**

Moschopoulos, Panagis G. The hypothesis of multisample block sphericity. (English summary) **93m:62127**

Mudholkar, Govind S. (*with* McDermott, Maria; Srivastava, Deo Kumar) A test of p-variate normality. (English summary)

Nagar, Daya K. *see* **Gupta, Arjun K.; et al., 93e:62149**

Oller, José M. *see* **Rios, Martin; et al.**

Ottersten, B. *see* **Viberg, M.; et al., 93j:62158**

Pan, Jian Xin Likelihood ratio criteria for parameters in growth curve models. (Chinese. English and Chinese summaries)

— *see also* **Wang, Xue Ren, 93i:62049**

Pavur, Robert A characterization of the covariance structure in which certain quadratic forms are independent and follow chi-square distributions. (English summary) **93c:62104**

Provost, S. B. Testing for independence with monotonic samples. (French and Italian summaries) **93c:62105**

Rao, Calyampudi Radhakrishna *see* **Fujikoshi, Yasunori, 93e:62147**

Rios, Martin (*with* Villarroya, Angel; Oller, José M.) Rao distance between multivariate linear normal models and their application to the classification of response curves.

Runger, George C. (*with* Eaton, Morris L.) Most powerful invariant permutation tests. (English summary) **93m:62128**

Seaman, John W., Jr. *see* **Young, Dean M.; et al., 93e:62152**

Shen, Wei Hsiung (*with* Sinha, Bimal Kumar) Statistical tests for structural relationship. **93d:62109**

Sinha, Bimal Kumar *see* **Shen, Wei Hsiung, 93d:62109**

Srivastava, Deo Kumar *see* **Mudholkar, Govind S.; et al.**

Srivastava, M. S. *see* **Fraser, D. A. S.; et al., 93c:62102**

Srivastava, T. N. On the nonnull distribution for the problem of compound symmetry. (English summary) **93h:62115**

Thall, Peter F. Score tests in the two-way layout of counts. (English summary) **93i:62048**

— Erratum: "Score tests in the two-way layout of counts" [Comm. Statist. Theory Methods **21** (1992), no. 10, 3017–3036; MR 93i:62048]. **93m:62129**

Tsai, Ming Tan M. On the power superiority of likelihood ratio tests for restricted alternatives. (English summary) **93k:62124**

Viberg, M. (*with* Ottersten, B.; Kailath, Thomas) Subspace based detection for linear structural relations. (English summary) **93j:62158**

Villarroya, Angel *see* **Rios, Martin; et al.**

Wang, Xue Ren (*with* Pan, Jian Xin) Optimal and robust detection of multivariate outliers for elliptically contoured distribution. (English summary) **93i:62049**

Watamori, Yoko Tests for a given linear structure of the mean direction of the Langevin distribution. **93e:62151**

— *see also* **Fujikoshi, Yasunori, 93h:62112**

Wells, Martin T. *see* **Hadi, Ali S., 93e:62150**

Wichern, Dean W. *see* **Johnson, Richard A., 93c:62103**

Yokoyama, Takahisa (*with* Fujikoshi, Yasunori) Tests for random-effects covariance structures in the growth curve model with covariates. **93d:62110**

Young, Dean M. (*with* Seaman, John W., Jr.; Meaux, Laurie M.) A characterization of the independence-distribution-preserving covariance structure for the multivariate maximum squared-radii statistic. **93e:62152**

Yu, Jin Hua Testing added information in partial multinormal data. (Chinese. English and Chinese summaries)

Zha, Wen Xing *see* **Li, Guo Ying[1], 93h:62113**

Zhang, Ji (*with* Boos, Dennis D.) Bootstrap critical values for testing homogeneity of covariance matrices.

Zhang, Yao Ting (*with* Afsarinejad, Kasra) A view of the chi-square statistic. (English summary) **93j:62159**

Items with secondary classifications in 62H15

Al-Rawwash, Hussein M. On dominating the χ^2-test in the case of multivariate normal distribution with one-sided alternatives. (English summary) **93e:62022**

Amemiya, Yasuo *see* **Anderson, T. W., 93d:62101**

Anderson, T. W. (*with* Amemiya, Yasuo) Testing dimensionality in the multivariate analysis of variance. **93d:62101**

— (*with* Fang, Kai Tai) Theory and applications of elliptically contoured and related distributions. (*see* **93e:62004**)

Basu, Asit P. A survey of some inference problems for dependent systems. (English summary) **93g:62073**

Boos, Dennis D. *see* **Zhang, Ji**

Brown, Lawrence D. (*with* Marden, John I.) Local admissibility and local unbiasedness in hypothesis testing problems. **93g:62032**

Cadet, Alain Une unification des tests du maximum de vraisemblance de la loi normale multidimensionnelle. (English and French summaries) [A unification of maximum likelihood tests for the multivariate normal laws] **93g:62033**

Chikuse, Yasuko Properties of Hermite and Laguerre polynomials in matrix argument and their applications. (English summary) **93j:33003**

— Generalized Hermite and Laguerre polynomials in multiple symmetric matrix arguments and their applications. (English summary) **93j:33004**

Chou, Jo Chên Unbiasedness of some tests in the Langevin distribution. (English summary) **93e:62060**

Fang, Kai Tai *see* **Anderson, T. W., (93e:62004)**

Ghosh, Jayanta K. Higher order asymptotics for the likelihood ratio, Rao's and Wald's tests. **93a:62023**

Gill, Len (*with* Lewbel, Arthur) Testing the rank and definiteness of estimated matrices with applications to factor, state-space and ARMA models. (English summary) **93m:62196**

Girko, V. L. (*with* Stepakhno, I. V.) Asymptotics of Stieltjes transforms of singular spectral functions. (Ukrainian. Russian and Ukrainian summaries) **93h:62105**

Gong, Li Qiang Problems on testing equality of scale parameters in a growth curve model. (Chinese. English and Chinese summaries)

Härdle, Wolfgang (*with* Hart, Jeffrey D.) A bootstrap test for positive definiteness of income effect matrices. (English summary) **93h:62193**

Hart, Jeffrey D. *see* **Härdle, Wolfgang, 93h:62193**

Hawkins, D. L. Detecting shifts in functions of multivariate location and covariance parameters. (English summary) **93m:62109**

Helland, Inge S. Maximum likelihood regression on relevant components. **93h:62110**

Hettmansperger, Thomas P. (*with* Nyblom, Jukka; Oja, Hannu) On multivariate notions of sign and rank. (English summary) **93m:62110**

Jensen, D. R. (*with* Ramirez, D. E.) Misspecified T^2 tests. I. Location and scale. **93a:62083a**

— *see also* **Ramirez, D. E., 93a:62083b**

Kano, Yutaka Robust statistics for test-of-independence and related structural models. (English summary) **93j:62051**

Kshirsagar, Anant M. *see* **Weissfeld, L. A., 93g:62076**

Lewbel, Arthur *see* **Gill, Len, 93m:62196**

Li, Guo Ying[1] *see* **Shi, Pei De, 93b:62090** *and* **Tang, Xiang Lian, 93h:62118**

Liu, Regina Y. Data depth and multivariate rank tests. (English summary) **93m:62112**

Marden, John I. *see* **Brown, Lawrence D., 93g:62032**

Menéndez Fernández, J. A. (*with* Rueda, C.; Salvador González, Bonifacio) Dominance of likelihood ratio tests under cone constraints. (English summary) **93m:62047**

— (*with* Salvador González, Bonifacio) Equivalence of likelihood ratio tests and obliquity. **93f:62039**

Nyblom, Jukka *see* **Hettmansperger, Thomas P.; et al., 93m:62110**

Oja, Hannu *see* **Hettmansperger, Thomas P.; et al., 93m:62110**

Pervaiz, Muhammad Khalid (*with* Skinner, C. J.) Multivariate analysis of clustered survey data: testing equality of covariance matrices. (English summary) **93g:62021**

Ramirez, D. E. (*with* Jensen, D. R.) Misspecified T^2 tests. II. Series expansions. **93a:62083b**

— *see also* **Jensen, D. R., 93a:62083a**

Randles, Ronald H. A two-sample extension of the multivariate interdirection sign test. (English summary) **93m:62114**

Rueda, C. *see* **Menéndez Fernández, J. A.; et al., 93m:62047**

Salvador González, Bonifacio *see* **Menéndez Fernández, J. A., 93f:62039** *and* **93m:62047**

Shi, Pei De (*with* Li, Guo Ying[1]) A class of PP L-statistics for tests. **93b:62090**
Sinha, Bimal Kumar Multivariate problems. (*see* **93g:62102**)
Skinner, C. J. *see* **Pervaiz, Muhammad Khalid**, **93g:62021**
Stepakhno, I. V. *see* **Girko, V. L.**, **93h:62105**
Tang, Xiang Lian (*with* Li, Guo Ying[1]) PP U-statistics and their applications. (English summary) **93h:62118**
Weissfeld, L. A. (*with* Kshirsagar, Anant M.) A modified growth curve model and its application to clinical studies. (English summary) **93g:62076**
Zhang, Ji (*with* Boos, Dennis D.) Testing hypotheses about covariance matrices using bootstrap methods. (English summary)

62H17 Contingency

Agresti, Alan A survey of exact inference for contingency tables.
Baccini, Alain (*with* Khoudraji, A.) Application d'un modèle d'association à l'analyse d'une table de taux. (English and French summaries) [Application of an association model to the analysis of a table of rates]
Bai, Zhi Dong (*with* Krishnaiah, P. R.; Zhao, Lin Cheng) Variable selection in logistic regression. (Chinese summary) **93c:62106**
Benasseni, Jacques Perturbational aspects in correspondence analysis. (English summary) **93m:62130**
Bertoli Barsotti, Lucio *see* **Paroli, Roberta**, **93j:62160**
Chambers, Raymond L. (*with* Welsh, A. H.) Log-linear models for survey data with nonignorable nonresponse. (English summary)
Cohen, Arthur (*with* Sackrowitz, Harold B.) An evaluation of some tests of trend in contingency tables.
D'Ambra, Luigi A factorial approach based on some coefficients of similarity to quantify categories of qualitative variables. (English summary) (*see* **93g:62001**)
Douglas, Ruth (*with* Fienberg, Stephen E.) An overview of dependency models for cross-classified categorical data involving ordinal variables. (English summary) **93g:62079**
— (*with* Fienberg, Stephen E.; Lee, Mei Ling Ting; Sampson, Allan R.; Whitaker, Lyn R.) Positive dependence concepts for ordinal contingency tables. (English summary) **93g:62080**
Epstein, Leonardo D. (*with* Fienberg, Stephen E.) Bayesian estimation in multidimensional contingency tables. (English summary) **93i:62050**
Fienberg, Stephen E. *see* **Douglas, Ruth**, **93g:62079**; **93g:62080** *and* **Epstein, Leonardo D.**, **93i:62050**
Gart, John J. Pooling 2×2 tables: asymptotic moments of estimators. **93a:62088**
Geng, Zhi Collapsibility of relative risk in contingency tables with a response variable. **93h:62116**
Gilula, Zvi *see* **Ritov, Ya'acov**, **93a:62089**
Goodman, Leo A. Measures, models, and graphical displays in the analysis of cross-classified data. **93b:62086**
Khoudraji, A. *see* **Baccini, Alain**
Krishnaiah, P. R. *see* **Bai, Zhi Dong; et al.**, **93c:62106**
Lee, Mei Ling Ting *see* **Douglas, Ruth; et al.**, **93g:62080**
Levin, Bruce Tests of odds ratio homogeneity with improved power in sparse fourfold tables. **93e:62153**
Malvestuto, F. M. Recognizing submodels of a loglinear model. (English summary) (*see* **93k:62002**)
Mittal, Yashaswini Homogeneity of subpopulations for two-by-two contingency tables. (English summary) (*see* **93e:62002**)
Paroli, Roberta (*with* Bertoli Barsotti, Lucio) Directions of maximum resolution of the Mortara index: comparison with the most common descriptive normalized measures of association. (Italian. English and Italian summaries) **93j:62160**
Ritov, Ya'acov (*with* Gilula, Zvi) The order-restricted RC model for ordered contingency tables: estimation and testing for fit. **93a:62089**
Routledge, R. D. Resolving the conflict over Fisher's exact test. (English and French summaries) **93g:62081**
Sackrowitz, Harold B. *see* **Cohen, Arthur**
Sadaghiani, M. K. (*with* Teugels, Jozef L.) Models for two-way contingency tables. **93c:62107**
Sakamoto, Yosiyuki ★ Categorical data analysis by AIC. **93k:62125**
Sampson, Allan R. *see* **Douglas, Ruth; et al.**, **93g:62080**
Teugels, Jozef L. *see* **Sadaghiani, M. K.**, **93c:62107**
Tomizawa, Sadao Decomposing the marginal homogeneity model into two models for square contingency tables with ordered categories. (English summary)
— Multiplicative models with further restrictions on the usual symmetry model.
— Measure of departure from symmetric association in square contingency tables with ordered categories. (English summary)
— A decomposition of conditional symmetry model and separability of its test statistic for square contingency tables. (English summary) **93g:62082**
— Exact test of uniform association in a 2×3 table. (English summary)
Tritchler, David *see* **Yao, Qing**, **93m:62132**
Wang, Yuchung J. Construction of continuous bivariate density functions. (English summary) **93m:62131**
Welsh, A. H. *see* **Chambers, Raymond L.**
Whitaker, Lyn R. *see* **Douglas, Ruth; et al.**, **93g:62080**
Yao, Qing (*with* Tritchler, David) An exact analysis of conditional independence in several 2×2 contingency tables. (English and French summaries) **93m:62132**
Zhao, Lin Cheng *see* **Bai, Zhi Dong; et al.**, **93c:62106**

Items with secondary classifications in 62H17

Afsarinejad, Kasra *see* **Zhang, Yao Ting**, **93j:62159**
Agresti, Alan Computing conditional maximum likelihood estimates for generalized Rasch models using simple loglinear models with diagonals parameters. (English summary)
Feuerverger, Andrey (*with* Rahman, Sheikh) Some aspects of probability forecasting. **93a:62019**
Lee, Mei Ling Ting Tests of independence against likelihood ratio dependence in ordered contingency tables. (English summary) (*see* **93f:62004**)
Liu, Zhi Jun Bootstrapping one way analysis of Rao's quadratic entropy. **93a:62007**
Messatfa, H. An algorithm to maximize the agreement between partitions. (French summary) **93c:62109**
Petit, J. L. Généralisation du paradoxe de Simpson. (English and French summaries) [Generalization of the Simpson paradox] **93m:62222**
Rahman, Sheikh *see* **Feuerverger, Andrey**, **93a:62019**
Samuels, Myra L. Simpson's paradox and related phenomena. (English summary) **93m:62133**
Sen, Pranab Kumar *see* **Tsai, Ming Tan M.**, **93e:62157**
Thall, Peter F. Score tests in the two-way layout of counts. (English summary) **93i:62048**
— Erratum: "Score tests in the two-way layout of counts" [Comm. Statist. Theory Methods **21** (1992), no. 10, 3017–3036; MR 93i:62048]. **93m:62129**
Tsai, Ming Tan M. (*with* Sen, Pranab Kumar) Tests for independence in two-way contingency tables based on canonical analysis. **93e:62157**
Whittaker, Joe ★ Graphical models in applied multivariate statistics. **93f:62002**
Zhang, Yao Ting (*with* Afsarinejad, Kasra) A view of the chi-square statistic. (English summary) **93j:62159**

62H20 Measures of association (correlation, canonical correlation, etc.)

Baek, Jong-il *see* **Kim, Tae-Sung**, **93b:62087**
Bromek, T. (*with* Kowalczyk, T.) A decision approach to ordering stochastic dependence. (English summary) **93i:62051**
Browne, Michael W. (*with* Shapiro, Alexander) Invariance of covariance structures under groups of transformations. **93c:62108**
Cléroux, Robert *see* **Lazraq, Aziz; et al.**
Green, Paul E. *see* **Krieger, Abba M.**
Jeyaratnam, S. Confidence intervals for the correlation coefficient. (English summary) **93g:62083**
Johnson, Richard A. (*with* Langeland, Thore) A linear combination test for detecting serial correlation in multivariate samples. (English summary) **93i:62052**
Kiers, Henk A. L. *see* **Lazraq, Aziz; et al.**
Kim, Tae-Sung (*with* Baek, Jong-il) Relationships among some concepts of multivariate negative dependence. **93b:62087**
Kowalczyk, T. *see* **Bromek, T.**, **93i:62051**
Krajka, Andrzej (*with* Szynal, Dominik) Nonparametric functional characteristics of dependence. (English and French summaries) **93j:62161**
Krieger, Abba M. (*with* Green, Paul E.) Generalized measures of association for ranked data with an application to prediction accuracy. (English summary)
Langeland, Thore *see* **Johnson, Richard A.**, **93i:62052**
Lazraq, Aziz (*with* Cléroux, Robert; Kiers, Henk A. L.) Mesures de liaison vectorielle et généralisation de l'analyse canonique. (English summary) [Vector measures of association and a generalization of the canonical analysis]
Lin, Chun Tu Extremes of ratios of determinants and canonical correlation variables. **93e:62154**
— Canonical correlation equations and their extremal properties. **93d:62111**
Messatfa, H. An algorithm to maximize the agreement between partitions. (French summary) **93c:62109**
Nelsen, Roger B. On measures of association as measures of positive dependence. (English summary) **93e:62155**
Normand, Myriam *see* **Pontier, J.**
Pontier, J. (*with* Normand, Myriam) À propos de généralisation de l'analyse canonique. (English summary) [Concerning generalized canonical analysis]
Romanazzi, Mario Influence in canonical correlation analysis. **93e:62156**
Royen, T. Multivariate gamma distributions with one-factorial accompanying correlation matrices and applications to the distribution of the multivariate range. **93f:62082**
Samuels, Myra L. Simpson's paradox and related phenomena. (English summary) **93m:62133**
Scarsini, Marco An ordering of dependence. (English summary) **93i:62053**
Sen, Pranab Kumar *see* **Tsai, Ming Tan M.**, **93e:62157**
Shapiro, Alexander *see* **Browne, Michael W.**, **93c:62108**
Shen, Shi Yi Some generalizations of D-correlation coefficients. (Chinese. English and Chinese summaries)
Szynal, Dominik *see* **Krajka, Andrzej**, **93j:62161**
Takane, Yoshio *see* **Yanai, Haruo**, **93j:62162**
Tsai, Ming Tan M. (*with* Sen, Pranab Kumar) Tests for independence in two-way contingency tables based on canonical analysis. **93e:62157**
Wysocki, W. Maximal correlation in path analysis. **93e:62158**
— Geometrical aspects of measures of dependence for random vectors. **93f:62083**
— Mathematical foundations of multivariate path analysis. (English summary) **93m:62134**
Yanai, Haruo (*with* Takane, Yoshio) Canonical correlation analysis with linear constraints. (English summary) **93j:62162**

Items with secondary classifications in 62H20

Afsarinejad, Kasra *see* **Zhang, Yao Ting**, **93j:62159**
Ali, Mir Maswood (*with* Joarder, Anwarul H.) Distribution of the correlation coefficient for the class of bivariate elliptical models. (French summary) **93e:62141**
Alvo, Mayer (*with* Ertas, Kadir) Graphical methods for ranking data. (English and French summaries) **93m:62008**
Baccini, Alain (*with* Khoudraji, A.) Application d'un modèle d'association à l'analyse d'une table de taux. (English and French summaries) [Application of an association model to the analysis of a table of rates]
Bertoli Barsotti, Lucio *see* **Paroli, Roberta**, **93j:62160**
Burdick, Donald S. *see* **Tu, Xin M.; et al.**, (**93f:62003**)
Dharmadhikari, A. D. (*with* Kuber, M. M.) The association in time of a binary semi-Markov process. (English summary) **93j:60136**
Enns, E. G. Dependence relationships for rays in a convex body in $\mathbf{R}^n$. (English summary) (*see* **93f:62004**)
Ertas, Kadir *see* **Alvo, Mayer**, **93m:62008**

Fang, Zhao Ben (*with* Joe, Harry) Further developments on some dependence orderings for continuous bivariate distributions. (English summary) **93j:62038**
Goodman, Leo A. Measures, models, and graphical displays in the analysis of cross-classified data. **93b:62086**
Hinkelmann, Klaus *see* **Singh, Murari, 93k:62145**
Hüsler, J. Dependence in multivariate extreme values. (English summary) **93g:60048**
Joag-Dev, Kumar Conditional negative dependence in stochastic ordering and interchangeable random variables. (English summary) **93g:60042**
Joarder, Anwarul H. *see* **Ali, Mir Maswood, 93e:62141**
Joe, Harry *see* **Fang, Zhao Ben, 93j:62038**
Khoudraji, A. *see* **Baccini, Alain**
Kuber, M. M. *see* **Dharmadhikari, A. D., 93j:60136**
Lee, Mei Ling Ting Tests of independence against likelihood ratio dependence in ordered contingency tables. (English summary) (*see* **93f:62004**)
Lee, Sik Yum *see* **Yau, Linda H.-Y.; et al.**
Lerman, Israël César Conception et analyse de la forme limite d'une famille de coefficients statistiques d'association entre variables relationnelles. I. (English and French summaries) [Elaboration and analysis of the limit form of a family of statistical association coefficients between relational variables. I]
— Conception et analyse de la forme limite d'une famille de coefficients statistique d'association entre variables relationnelles. II. (English and French summaries) [Elaboration and analysis of the limit form of a family of statistical association coefficients between relational variables. II]
Liu, Qun Sheng Functional dependence of random variables. (Chinese. English and Chinese summaries)
Mitchell, B. C. *see* **Tu, Xin M.; et al., (93f:62003)**
Olkin, Ingram *see* **Yitzhaki, Shlomo, 93g:90022**
Paroli, Roberta (*with* Bertoli Barsotti, Lucio) Directions of maximum resolution of the Mortara index: comparison with the most common descriptive normalized measures of association. (Italian. English and Italian summaries) **93j:62160**
Poon, Wai-Yin *see* **Yau, Linda H.-Y.; et al.**
Singh, Murari (*with* Hinkelmann, Klaus) Distribution of genotypic correlation coefficient and its transforms for nonnormal populations. (English summary) **93k:62145**
Tu, Xin M. (*with* Burdick, Donald S.; Mitchell, B. C.) Nonparametric rank estimation using bootstrap resampling and canonical correlation analysis. (English summary) (*see* **93f:62003**)
Vitale, Richard A. Covariances of symmetric statistics. **93f:62100**
Yanagimoto, Takemi Dependence ordering in statistical models and other notions. (English summary) **93g:62026**
Yau, Linda H.-Y. (*with* Lee, Sik Yum; Poon, Wai-Yin) Covariance structure analysis with three-level data. (English summary)
Yitzhaki, Shlomo (*with* Olkin, Ingram) Concentration indices and concentration curves. (English summary) **93g:90022**
Zhang, Yao Ting (*with* Afsarinejad, Kasra) A view of the chi-square statistic. (English summary) **93j:62159**

62H25 Factor analysis and principal components; correspondence analysis

Baccini, Alain (*with* de Falguerolles, Antoine; Qannari, El Mostafa) Approche exploratoire de l'inégalité en situation multivariée. (English and French summaries) [Empirical multivariate analysis of income inequality] **93e:62159**
Bentler, Peter M. *see* **Mooijaart, A., 93a:62090**
Besse, Philippe PCA stability and choice of dimensionality. (English summary)
— (*with* de Falguerolles, Antoine) Application of resampling methods to the choice of dimension in principal component analysis. (English summary) (*see* **93m:62004**)
Dalzell, C. J. *see* **Ramsay, James O., 93e:62161**
Daudin, Jean-Jacques *see* **Philoche, Jean-Louis**
de Falguerolles, Antoine *see* **Baccini, Alain; et al., 93e:62159** *and* **Besse, Philippe, (93m:62004)**
Huang, Têng Yüan (*with* Tsêng, Shêng Ts'ang) A decision procedure for determining the number of components in principal component analysis. **93e:62160**
Ihara, Masamori (*with* Kano, Yutaka) Asymptotic equivalence of unique variance estimators in marginal and conditional factor analysis models. (English summary) **93h:62117**
Kano, Yutaka *see* **Ihara, Masamori, 93h:62117**
Kim, Honggie Measures of influence in correspondence analysis. (English summary)
Kim, Soon-Kwi (*with* Park, Sung Hyun) On sensitivity analysis in principal component regression.
Lee, Sik Yum *see* **Yau, Linda H.-Y.; et al.**
Li, Ker-Chau Sliced inverse regression for dimension reduction. **93f:62084**
Maurin, Michel Métriques et sous-groupes de métriques dans l'analyse en composantes principales. (English and French summaries) [Metrics and metric subgroups in principal-component analysis]
Millsap, Roger E. Sufficient conditions for rotational uniqueness in the additive MTMM model. (English summary) **93d:62112**
Mooijaart, A. (*with* Bentler, Peter M.) Robustness of normal theory statistics in structural equation models. **93a:62090**
Park, Sung Hyun *see* **Kim, Soon-Kwi**
Philoche, Jean-Louis (*with* Daudin, Jean-Jacques) Recherche d'un sous-espace vectoriel de dimension donnée traversant au mieux un nuage de points: une démonstration globale, simple et autonome. (English and French summaries) [Search for a vector subspace of given dimension passing through at most a cloud of points: a global, simple and autonomous proof]
Poon, Wai-Yin *see* **Yau, Linda H.-Y.; et al.**
Qannari, El Mostafa *see* **Baccini, Alain; et al., 93e:62159**
Radojević, Dragan Approaches to identification of linear relations from compound noisy and noise-free data. **93d:62113**
Ramsay, James O. (*with* Dalzell, C. J.) Some tools for functional data analysis. **93e:62161**
Sato, Manabu A study of an identification problem and substitute use of principal component analysis in factor analysis. **93m:62135**
Tsêng, Shêng Ts'ang *see* **Huang, Têng Yüan, 93e:62160**
Yau, Linda H.-Y. (*with* Lee, Sik Yum; Poon, Wai-Yin) Covariance structure analysis with three-level data. (English summary)
Zhou, Fang Jun A nonmetric method for analyzing a kind of weighted IDIOSCAL model. (Chinese. English summary)

Items with secondary classifications in 62H25

Benasseni, Jacques Perturbational aspects in correspondence analysis. (English summary) **93m:62130**
Benzécri, J.-P. ★ Correspondence analysis handbook. **93e:62007**
Brooks, R. J. *see* **Stone, Mervyn, 93h:62124**
D'Ambra, Luigi A factorial approach based on some coefficients of similarity to quantify categories of qualitative variables. (English summary) (*see* **93g:62001**)
(Gopalan, T. K.) *see* **Benzécri, J.-P., 93e:62007**
Johnson, Richard A. (*with* Wichern, Dean W.) ★ Applied multivariate statistical analysis. **93c:62103**
Joyeux, Roselyne Tests for seasonal cointegration using principal components. **93i:62081**
Marx, Brian D. A continuum of principal component generalized linear regressions.
Moon, Sung Ho (*with* Yanagi, Kikuo; Tanaka, Yutaka[1]) A clustering algorithm for detecting influential subsets in multivariate methods. (English summary)
Neudecker, Heinz (*with* Satorra, Albert) Simple proof of a general matrix equality. **93d:15024**
Normand, Myriam *see* **Pontier, J.**
Oller, José M. *see* **Rios, Martin; et al.**
Pontier, J. (*with* Normand, Myriam) À propos de généralisation de l'analyse canonique. (English summary) [Concerning generalized canonical analysis]
Rios, Martin (*with* Villarroya, Angel; Vegas, E.; Oller, José M.) Simultaneous canonical representation of populations and variables: an application to the study of kidney disease. (Spanish. Spanish summary)
Satorra, Albert *see* **Neudecker, Heinz, 93d:15024**
Stone, Mervyn (*with* Brooks, R. J.) Corrigendum: "Continuum regression: cross-validated sequentially constructed prediction embracing ordinary least squares, partial least squares and principal components regression" [J. Roy. Statist. Soc. Ser. B **52** (1990), no. 2, 237–269; MR 92c:62042]. **93h:62124**
Tanaka, Yutaka[1] *see* **Moon, Sung Ho; et al.**
Vegas, E. *see* **Rios, Martin; et al.**
Villarroya, Angel *see* **Rios, Martin; et al.**
Wang, Song Gui On relationships between the principal components and the latent root regression estimators. (English and Chinese summaries) **93i:62060**
Watson, G. A. Algorithms for minimum trace factor analysis. (English summary) **93h:90075**
Wichern, Dean W. *see* **Johnson, Richard A., 93c:62103**
Yanagi, Kikuo *see* **Moon, Sung Ho; et al.**

62H30 Classification and discrimination; cluster analysis [see also 68T10]

Aoshima, Makoto (*with* Dudewicz, Edward J.; Siotani, Minoru) Heteroscedastic discriminant analysis with a preassigned misclassification probability. (English summary) **93m:62136**
Bairamov, I. G. Statistical criteria based on training samples in the problem of classification of observations. (Ukrainian. Russian and Ukrainian summaries) **93j:62163**
Borwankar, J. D. *see* **Chaudhuri, G.; et al., 93a:62091**
Burshtein, David (*with* Della Pietra, Vincent; Kanevsky, Dimitri; Nádas, Arthur) Minimum impurity partitions. (English summary) **93i:62054**
Celeux, Gilles (*with* Govaert, Gérard) A classification EM algorithm for clustering and two stochastic versions. (English summary) **93k:62126**
— *see also* **Discriminant analysis on continuous functions, 93d:62115**
Chatterjee, Sangit (*with* Narayanan, A.) A new approach to discrimination and classification using a Hausdorff type distance. (English summary)
Chatterjee, Shoutir Kishore (*with* Samanta, Sisir Kumar) An alternative approach to variable selection for discrimination. (English summary) **93g:62084**
Chaudhuri, G. (*with* Borwankar, J. D.; Rao, P. R. K.) Bhattacharyya distance-based linear discrimination. **93a:62091**
Ciampi, Antonio Constructing prediction trees from data: the RECPAM approach. (English summary) (*see* **93k:62001**)
Das Gupta, Somesh Pattern recognition when feature variables are subject to error. (English summary) **93e:62162**
Davison, A. C. (*with* Hall, Peter Gavin) On the bias and variability of bootstrap and cross-validation estimates of error rate in discrimination problems. (English summary) **93f:62085**
Dawid, A. Philip (*with* Fang, Bi Qi) Conjugate Bayes discrimination with infinitely many variables. **93e:62163**
Della Pietra, Vincent *see* **Burshtein, David; et al., 93i:62054**
Dorvlo, Atsu S. S. On the correlation between the linear and quadratic discriminant functions. (English summary)
Dudewicz, Edward J. *see* **Aoshima, Makoto; et al., 93m:62136**
Fang, Bi Qi *see* **Dawid, A. Philip, 93e:62163**
Flury, Bernhard (*with* Schmid, Martin J.) Quadratic discriminant functions with constraints on the covariance matrices: some asymptotic results. **93d:62114**
— Estimation of principal points. (English summary) **93m:62137**
Fortier, Jean-J. Best linear corrector of classification estimates of proportions of objects in several unknown classes. (French summary) **93g:62085**
Govaert, Gérard *see* **Celeux, Gilles, 93k:62126**
Hall, Peter Gavin *see* **Davison, A. C., 93f:62085**
Haslett, John (*with* Horgan, Graham) Linear discriminant analysis in image restoration and the prediction of error rate. (English summary) (*see* **93g:62004**)
Horgan, Graham *see* **Haslett, John, (93g:62004)**

Janowitz, Melvin F. (*with* Powers, R. C.) A duality between fuzzy and percentile clustering. (English summary)
— (*with* Stinebrickner, Ralph) Preservation of weak order equivalence. (English summary) **93m:62138**
Kanevsky, Dimitri *see* **Burshtein, David; et al., 93i:62054**
Kharin, Yu. S. (*with* Medvedev, A. G.) Asymptotic robustness of discriminant procedures for dependent and nonhomogeneous observations. **93a:62092**
— (*with* Vasenkova, E. I.) Stability of statistical decision rules under parametric distortions of probability distributions. (Russian. English and Russian summaries) **93m:62139**
Kiiveri, H. T. Canonical variate analysis of high-dimensional spectral data. (English summary)
Kim, Hea-Jung A variable selection in heteroscedastic discriminant analysis: general predictive discrimination case. (English summary)
Lahiff, Maureen *see* **Whitcomb, Kathleen M.**
La Tona, Letizia (*with* Mineo, Antonino) A new clustering criterion based on the distance matrix. (English and Italian summaries)
Lavine, Michael (*with* West, Mike) A Bayesian method for classification and discrimination. (English and French summaries)
Li, Zhu Yu An asymptotic optimality of the discriminant procedure based on a nearest neighbor density estimator. **93k:62127**
Lü, Chun Lian *see* **Mathes, H., 93b:62088**
Mathes, H. (*with* Lü, Chun Lian) A quadratic logistic discrimination algorithm in matrix form. **93b:62088**
Medvedev, A. G. *see* **Kharin, Yu. S., 93a:62092**
Mineo, Antonino *see* **La Tona, Letizia**
Moon, Sung Ho (*with* Yanagi, Kikuo; Tanaka, Yutaka[1]) A clustering algorithm for detecting influential subsets in multivariate methods. (English summary)
Nádas, Arthur *see* **Burshtein, David; et al., 93i:62054**
Narayanan, A. *see* **Chatterjee, Sangit**
O'Neill, Terence J. The bias of Fisher's linear discriminant function when the variancies are not equal. **93c:62110**
Powers, R. C. *see* **Janowitz, Melvin F.**
Rao, P. R. K. *see* **Chaudhuri, G.; et al., 93a:62091**
Samanta, Sisir Kumar *see* **Chatterjee, Shoutir Kishore, 93g:62084**
Schmid, Martin J. *see* **Flury, Bernhard, 93d:62114**
Sen'ko, O. V. Estimation of a posteriori probabilities of objects belonging to classes in the polling procedure. (Russian)
Shi, Neng Multipopulation quadratic discriminant analysis using Kullback divergence. (Chinese. Chinese summary)
Siotani, Minoru *see* **Aoshima, Makoto; et al., 93m:62136**
Startseva, N. G. Statistical stability of decision functions in classification problems. (Russian)
Stinebrickner, Ralph *see* **Janowitz, Melvin F., 93m:62138**
Sun, Shang Gong An estimator for the theoretical misclassification rate in multiple populations. (Chinese. English and Chinese summaries)
Tanaka, Yutaka[1] *see* **Moon, Sung Ho; et al.**
Vasenkova, E. I. *see* **Kharin, Yu. S., 93m:62139**
West, Mike *see* **Lavine, Michael**
Whitcomb, Kathleen M. (*with* Lahiff, Maureen) An investigation of sample influence functions for the DS estimate of the optimum error rate in discriminant analysis. (English summary)
Yanagi, Kikuo *see* **Moon, Sung Ho; et al.**

Items listed otherwise than by author

Analyse discriminante sur variables continues ★ Analyse discriminante sur variables continues. (French) [Discriminant analysis on continuous functions] **93d:62115**
Discriminant analysis on continuous functions ★ Analyse discriminante sur variables continues. (French) [Discriminant analysis on continuous functions] **93d:62115**

Items with secondary classifications in 62H30

Borodyanskii, N. I. (*with* Matveichuk, S. A.; Petunin, Yu. I.) Statistical criteria for the identification of a population. (Russian. English and Ukrainian summaries)
Borwankar, J. D. *see* **Chaudhuri, G.; et al., 93b:62124**
Chai, Gen Xiang *see* **Zhao, Lin Cheng, (93e:62004)**
Chaudhuri, G. (*with* Borwankar, J. D.; Rao, P. R. K.) Bhattacharyya distance based linear discriminant function for stationary time series. **93b:62124**
Degens, Paul O. (*with* Lausen, Berthold; Vach, Werner) Reconstruction of phylogenies by distance data: mathematical framework and statistical analysis. (*see* **93f:92004**)
Fujikoshi, Yasunori On confidence regions in canonical discriminant analysis. **93k:62119**
Guénoche, Alain Hiérarchies conceptuelles de données binaires. (English and French summaries) [Conceptual clustering of binary attributes]
Hall, Peter Gavin (*with* Teugels, Jozef L.; Vanmarcke, Ann) The abscissa of convergence of the Laplace transform. **93e:62107**
Johnson, Richard A. (*with* Wichern, Dean W.) ★ Applied multivariate statistical analysis. **93c:62103**
Křivánek, Mirko Algorithmic and geometric aspects of cluster analysis. **93e:65022**
Krzyżak, Adam On exponential bounds on the Bayes risk of the nonparametric classification rules. **93a:62061**
Lausen, Berthold *see* **Degens, Paul O.; et al., (93f:92004)**
Lorents, A. Statistical properties of the integral standards method. (Russian. English, Russian and Latvian summaries) (*see* **93f:00009**)
Lugosi, Gábor Pattern classification from distorted sample. (Russian summary) **93d:62075**
Matveichuk, S. A. *see* **Borodyanskii, N. I.; et al.**
O'Neill, Terence J. Error rates of non-Bayes classification rules and the robustness of Fisher's linear discriminant function. **93e:62082**
Pardo Llorente, Julio Ángel (*with* Taneja, Inder Jeet) On the probability of error in fuzzy discrimination problems.
Petunin, Yu. I. *see* **Borodyanskii, N. I.; et al.**
Rao, P. R. K. *see* **Chaudhuri, G.; et al., 93b:62124**
Rubin, Donald B. (*with* Thomas, Neal) Affinely invariant matching methods with ellipsoidal distributions. **93h:62015**
Taneja, Inder Jeet *see* **Pardo Llorente, Julio Ángel**
Tartakovskii, A. G. *see* **Verdenskaya, N. V., 93d:62146**
Teugels, Jozef L. *see* **Hall, Peter Gavin; et al., 93e:62107**
Thomas, Neal *see* **Rubin, Donald B., 93h:62015**
Vach, Werner *see* **Degens, Paul O.; et al., (93f:92004)**
Vanmarcke, Ann *see* **Hall, Peter Gavin; et al., 93e:62107**
Verdenskaya, N. V. (*with* Tartakovskii, A. G.) Asymptotically optimal sequential discrimination of several hypotheses for nonhomogeneous Gaussian processes in a nonsymmetric situation. (Russian) **93d:62146**
Wichern, Dean W. *see* **Johnson, Richard A., 93c:62103**
Zhao, Lin Cheng (*with* Chai, Gen Xiang) Survey of Chinese work on nonparametric density estimation, regression and discrimination. (*see* **93e:62004**)

62H40 Projection pursuit

Chen, Pei De L^1-theory of approximation by ridge functions. **93m:62140**
Cheng, Ping[1] *see* **Li, Guo Ying[1], 93m:62141**
Cui, Heng Jian A necessary and sufficient condition for a weakly consistent PP estimator of a dispersion matrix to be robust. (Chinese. English and Chinese summaries)
Jones, Lee K. A simple lemma on greedy approximation in Hilbert space and convergence rates for projection pursuit regression and neural network training. **93b:62089**
Li, Guo Ying[1] (*with* Cheng, Ping[1]) Some recent developments in projection pursuit in China. (English summary) **93m:62141**
— *see also* **Shi, Pei De, 93b:62090** *and* **Tang, Xiang Lian, 93h:62118**
Rejtő, Lidia (*with* Walter, Gilbert G.) Remarks on projection pursuit regression and density estimation. **93f:62086**
Shi, Pei De (*with* Li, Guo Ying[1]) A class of PP L-statistics for tests. **93b:62090**
Sun, Jia Yang Significance levels in exploratory projection pursuit. **93k:62128**
Tang, Xiang Lian (*with* Li, Guo Ying[1]) PP U-statistics and their applications. (English summary) **93h:62118**
Walter, Gilbert G. *see* **Rejtő, Lidia, 93f:62086**
Wang, Jing Fang Limit distributions of random empirical distributions of projection pursuit for two classes of distribution functions. (Chinese. English and Chinese summaries)
— Limit distributions of random empirical distributions of projection pursuit of the continuous form $C_m G_m(\|X\|)^2 \prod_{i=1}^m |x_i|^{2^i-1}$. (Chinese. English and Chinese summaries)

Items with secondary classifications in 62H40

An, Kai Finiteness and continuity of $E_f \log f^a$. (Chinese. English summary)
Cheng, Ping[1] (*with* Zhu, Li Xing) The tail probability inequalities for the PP type Cramér-von Mises statistics. (English summary) **93h:62093**
Li, Guo Ying[1] (*with* Zha, Wen Xing) PP Neyman tests for multivariate goodness-of-fit. **93h:62113**
Zha, Wen Xing *see* **Li, Guo Ying[1], 93h:62113**
Zhu, Li Xing The probability inequalities for the supreme of the empirical processes and applications to the testing of data structure. **93e:60039**
— *see also* **Cheng, Ping[1], 93h:62093**

62H99 None of the above, but in this section

(Burdick, Donald S.) *see* **Leurgans, Sue, 93e:62164**
Der Mégréditchian, Guy Problèmes engendrés par les données manquantes dans la pratique statistique. [Problems generated by missing data in statistical practice] **93d:62116**
Ellis, Steven P. The singularities of fitting planes to data. **93f:62087**
Gras, Régis (*with* Larher, Annie) L'implication statistique, une nouvelle méthode d'analyse de données. (English and French summaries) [Statistical inference, a new method of data analysis]
Hadi, Ali S. Identifying multiple outliers in multivariate data. (English summary)
(Kroonenberg, Pieter M.) *see* **Leurgans, Sue, 93e:62164**
Larher, Annie *see* **Gras, Régis**
(de Leeuw, Jan) *see* **Leurgans, Sue, 93e:62164**
Leurgans, Sue (*with* Ross, Robert T.) Multilinear models: applications in spectroscopy. (English summary) **93e:62164**
Ross, Robert T. *see* **Leurgans, Sue, 93e:62164**
Sagae, Masahiko *see* **Tanabe, Kunio, 93d:62117**
Schneider, Robert B. A uniform approach to multidimensional scaling. (English summary) **93i:62055**
Tanabe, Kunio (*with* Sagae, Masahiko) An exact Cholesky decomposition and the generalized inverse of the variance-covariance matrix of the multinomial distribution, with applications. **93d:62117**
Xiao, Yi *see* **Zhou, Fang Jun, 93k:62129**
Zhou, Fang Jun (*with* Xiao, Yi) Data analysis for several dissimilarity matrices. (English and Chinese summaries) **93k:62129**

Items with secondary classifications in 62H99

Bandemer, Hans (*with* Näther, Wolfgang) ★ Fuzzy data analysis. **93m:62009**
Barndorff-Nielsen, Ole E. (*with* Jørgensen, Bent) Some parametric models on the simplex. **93c:62023**
Barrett, Bruce E. (*with* Ling, Robert F.) General classes of influence measures for multivariate regression. **93m:62166**
Bentler, Peter M. *see* **Fang, Kai Tai; et al., (93b:60004)**
Boland, Philip J. (*with* Proschan, Frank; Tong, Yung Liang) Some majorization inequalities for functions of exchangeable random variables. (English summary) **93i:60033**
Fang, Kai Tai (*with* Yuan, Ke Hai; Bentler, Peter M.) Applications of sets of points uniformly distributed on a sphere to testing multinormality and robust estimation. (English summary) (*see* **93b:60004**)
Frank, Ove (*with* Nowicki, Krzysztof) Exploratory statistical analysis of networks. (English summary) (*see* **93k:05003**)
Isogawa, Yoshiko Comparing multivariate linear functional relationships. **93e:62170**

Jørgensen, Bent *see* **Barndorff-Nielsen, Ole E., 93c:62023**
Lin, J. S. (*with* Wei, L. J.) Linear regression analysis for multivariate failure time observations. (English summary) **93j:62175**
Ling, Robert F. *see* **Barrett, Bruce E., 93m:62166**
Mathew, Thomas[1] (*with* Sinha, Bimal Kumar; Sutradhar, Brajendra C.) Nonnegative estimation of variance components in unbalanced mixed models with two variance components. (English summary) **93f:62099**
Näther, Wolfgang *see* **Bandemer, Hans, 93m:62009**
Nowicki, Krzysztof *see* **Frank, Ove, (93k:05003)**
Parring, A.-M. About the concept of the matrix derivative. (English summary) **93k:15046**
Proschan, Frank *see* **Boland, Philip J.; et al., 93i:60033**
Shaked, Moshe (*with* Tong, Yung Liang) Comparison of experiments via dependence of normal variables with a common marginal distribution. **93e:62021**
Shao, Jun[1] Empirical Bayes estimation of heteroscedastic variances. (English summary) **93j:62082**
Sinha, Bimal Kumar *see* **Mathew, Thomas[1]; et al., 93f:62099**
Stepakhno, V. I. Sets of independent vectors in spaces of unboundedly increasing dimension. (Russian. Russian and Ukrainian summaries) **93j:60016**
Streit, Franz On the characteristic functions of the Kotz type distributions. **93c:60019**
Sutradhar, Brajendra C. *see* **Mathew, Thomas[1]; et al., 93f:62099**
Tong, Yung Liang *see* **Shaked, Moshe, 93e:62021** *and* **Boland, Philip J.; et al., 93i:60033**
Wei, L. J. *see* **Lin, J. S., 93j:62175**
Yuan, Ke Hai *see* **Fang, Kai Tai; et al., (93b:60004)**

62Jxx Linear inference, regression

Draper, Norman R. Applied regression analysis. Bibliography update 1990–91. (English summary)

62J02 General nonlinear regression

Bhattacharyya, B. B. (*with* Richardson, Gary D.) Parameter estimation in nonlinear regression. **93c:62111**
— (*with* Otsuka, Y.; Richardson, Gary D.) Strong consistency in nonlinear regression with multiplicative error. (English summary) **93i:62056**
— (*with* Richardson, Gary D.) Strong consistency of a sieve estimator for the variance in nonlinear regression. **93g:62086**
Cheng, Chi Lun Robust linear regression via bounded influence M-estimators. **93g:62087**
Dorogovtsev, A. Ya. Consistency of the least squares estimator of an infinite-dimensional parameter. (Russian. Russian summary) **93h:62119**
Eastwood, Brian J. Asymptotic normality of semi-nonparametric estimators using minimization of C_p or adaptive polynomial truncation selection procedures. **93d:62118**
Fairley, David (*with* Pearl, Dennis K.; Verducci, Joseph S.) Some ramifications of a bound on the MSE of a prediction. (English summary) **93e:62165**
Grigor'ev, Yu. D. (*with* Ivanov, Aleksandr Vladimirovich) Asymptotic expansions connected with estimators of the observation error variance in Gaussian nonlinear regression. (Russian. English and Ukrainian summaries) **93m:62142**
Gumpertz, Marcia L. (*with* Pantula, Sastry G.) Nonlinear regression with variance components. **93c:62112**
Hall, Peter Gavin (*with* Titterington, D. M.) Edge-preserving and peak-preserving smoothing. (English summary) **93g:62088**
Ivanov, Aleksandr Vladimirovich *see* **Grigor'ev, Yu. D., 93m:62142**
Ivković, Zoran A. One case of reduction of nonlinear regression to linear. (English summary) **93k:62130**
Jørgensen, Bent ★ The theory of exponential dispersion models and analysis of deviance. **93j:62164**
Jost, Steve D. Relative efficiencies of model robust estimators in two-dimensional situations. **93a:62093**
Kariya, Takeaki (*with* Toyooka, Yasuyuki) Bounds for normal approximations to the distributions of generalized least squares predictors and estimators. **93e:62166**
Koutková, Helena On estimable and locally estimable functions in the nonlinear regression model. **93m:62143**
Leybourne, S. J. *see* **McCabe, B. P. M., 93k:62132**
Ma, Yang Ming *see* **Wei, Bo Cheng**
Macaskill, G. T. A note on adjusted profile likelihoods in nonlinear regression. (English summary) **93k:62131**
Malott Frey, Carolin (*with* Muller, Keith E.) Analysis methods for nonlinear models with compound-symmetric covariance.
McCabe, B. P. M. (*with* Leybourne, S. J.) Testing for parameter variation in nonlinear regression models. (English summary) **93k:62132**
Mehra, K. L. (*with* Rao, M. Sudhakara; Upadrasta, S. P.) A smooth conditional quantile estimator and related applications of conditional empirical processes. **93d:62119**
— (*with* Rama Krishnaiah, Y. S.; Rao, M. Sudhakara) Asymptotic normality of rank nearest neighbor regression function estimators under strong mixing. **93a:62094**
Muller, Keith E. *see* **Malott Frey, Carolin**
Otsuka, Y. *see* **Bhattacharyya, B. B.; et al., 93i:62056**
Pantula, Sastry G. *see* **Gumpertz, Marcia L., 93c:62112**
Pearl, Dennis K. *see* **Fairley, David; et al., 93e:62165**
Pilibossian, Philippe Distribution des paramètres d'une régression linéaire minimax. [Distribution of parameters in a minimax linear regression] **93d:62120**
Potocký, Rastislav (*with* To Van Ban) Confidence regions in nonlinear regression models. (Slovak summary) **93k:62133**
Powell, James L. Estimation of monotonic regression models under quantile restrictions. **93j:62165**
Rama Krishnaiah, Y. S. *see* **Mehra, K. L.; et al., 93a:62094**
Rao, M. Sudhakara *see* **Mehra, K. L.; et al., 93a:62094** *and* **93d:62119**
Richardson, Gary D. *see* **Bhattacharyya, B. B., 93c:62111; 93g:62086** *and* **93i:62056**
Štulajter, F. Mean square error matrix of an approximate least squares estimator in a nonlinear regression model with correlated errors. (English summary) **93j:62166**
Sun, Xiao Dong *see* **Wei, Bo Cheng**
Titterington, D. M. *see* **Hall, Peter Gavin, 93g:62088**
To Van Ban *see* **Potocký, Rastislav, 93k:62133**
Toyooka, Yasuyuki *see* **Kariya, Takeaki, 93e:62166**
Upadrasta, S. P. *see* **Mehra, K. L.; et al., 93d:62119**
Vecchia, A. V. A new method of prediction for spatial regression models with correlated errors. (English summary) **93f:62088**
Verducci, Joseph S. *see* **Fairley, David; et al., 93e:62165**
Wang, You Gan *see* **Zheng, Zhong Guo; et al.**
Wei, Bo Cheng (*with* Sun, Xiao Dong) An iterative formula for the M-estimator in nonlinear regression models and its convergence. (Chinese. English and Chinese summaries)
— (*with* Ma, Yang Ming) Parametric estimators and influence analysis for nonlinear exponential family regression models. (Chinese. English and Chinese summaries)
White, Halbert "Some asymptotic results for learning in single hidden-layer feedforward network models" [J. Amer. Statist. Assoc. **84** (1989), no. 408, 1003–1013; MR 92e:62119]. **93m:62144**
Wooldridge, Jeffrey M. Some alternatives to the Box-Cox regression model. (English summary) **93h:62120**
Xu, Bing Laws of the iterated logarithm for estimators for regression functions with randomly censored data. (Chinese) **93i:62057**
Yin, Ming *see* **Zheng, Zhong Guo; et al.**
Zheng, Zhong Guo (*with* Wang, You Gan; Yin, Ming) U-statistics in general regression models. (Chinese. English and Chinese summaries)

Items with secondary classifications in 62J02

Akritas, Michael G. Nonparametric inference in heteroskedastic regression. **93a:62075**
Amato, David A. *see* **Lee, Eric W.; et al., (93b:62005)**
Begg, Melissa Dowd (*with* Lagakos, Stephen) Effects of mismodeling on tests of association based on logistic regression models. (English summary) **93k:62037**
Burman, Prabir Estimation of optimal transformations using v-fold cross validation and repeated learning-testing methods. (English summary) **93f:62044**
Burshtein, David (*with* Della Pietra, Vincent; Kanevsky, Dimitri; Nádas, Arthur) Minimum impurity partitions. (English summary) **93i:62054**
Carbonez, A. (*with* Györfi, László; van der Meulen, Edward C.) Universal consistency of partitioning-estimates of a regression function for randomly missing data. (English summary) (*see* **93k:62002**)
Carter, C. K. (*with* Eagleson, G. K.) A comparison of variance estimators in nonparametric regression. (English summary) **93f:62045**
Chai, Gen Xiang *see* **Zhao, Lin Cheng, (93e:62004)**
Chaudhuri, Probal Generalized regression quantiles: forming a useful toolkit for robust linear regression. (English summary) **93m:62065**
Chen, Ping[2] Kernel estimators of regression functions under random censorship and strong consistency. (Chinese. English summary)
Chernov, N. I. (*with* Ososkov, G. A.; Pronzato, L.) 3-dimensional multivertex reconstruction from 2-dimensional tracks observations using likelihood inference. (English summary) **93f:62103**
Cheze, Nathalie Régression non paramétrique pour un processus à temps continu. (English and French summaries) [Nonparametric regression for a continuous-time process] **93g:62052**
Cook, R. Dennis *see* **Saint Laurent, Roy T., 93m:62167**
Cornelius, Paul L. *see* **Seyedsadr, Mahmoud, 93k:62144**
Dalzell, C. J. (*with* Ramsay, James O.) Computing reproducing kernels with arbitrary boundary constraints. (English summary) **93m:65188**
Delgado, Miguel A. Bounded influence regression in the presence of heteroskedasticity of unknown form. **93a:62053**
— Semiparametric generalized least squares in the multivariate nonlinear regression model. (English summary) **93j:62152**
Della Pietra, Vincent *see* **Burshtein, David; et al., 93i:62054**
Doukhan, Paul (*with* Gassiat, Élisabeth) Quadratic deviation of penalized mean squares regression estimates. **93i:62042**
Eagleson, G. K. *see* **Carter, C. K., 93f:62045**
Eubank, R. L. (*with* Hart, Jeffrey D.) Testing goodness-of-fit in regression via order selection criteria. (English summary) **93k:62107**
Fountain, Robert L. (*with* Keating, Jerome P.; Rao, Calyampudi Radhakrishna) An example arising from Berkson's conjecture. **93a:62027**
Gao, Ji Ti Convergence rates of some estimators for a semiparametric regression model. (English and Chinese summaries) **93h:62076**
Gasser, Theo (*with* Kneip, Alois; Köhler, Walter) A flexible and fast method for automatic smoothing. **93d:62063**
Gassiat, Élisabeth *see* **Doukhan, Paul, 93i:62042**
Golubev, G. K. Sequential design of an experiment in the nonparametric estimation of smooth regression functions. (Russian. Russian summary) **93m:62181a**
— Erratum: "Sequential design of an experiment in the nonparametric estimation of smooth regression functions". (Russian) **93m:62181b**
Grigor'ev, Yu. D. (*with* Ivanov, Aleksandr Vladimirovich) Asymptotic expansion of the distribution of a functional of the least squares estimate. (Russian. English and Russian summaries) **93h:62028**
Gruet, Marie-Anne Calibration non paramétrique: une procédure d'estimation directe. (English and French summaries) [Nonparametric calibration: a direct estimation procedure] **93e:62105**
Gu, Chong Penalized likelihood regression: a Bayesian analysis. **93e:62106**
Györfi, László *see* **Carbonez, A.; et al., (93k:62002)**
Haines, Linda M. Optimal design for inverse quadratic polynomials. (English summary) **93j:62189**
Hart, Jeffrey D. *see* **Eubank, R. L., 93k:62107**
Holiday, D. B. Considerations for optimal nonparametric regression under a generalized error structure. **93d:62067**
Ioannides, D. A. *see* **Roussas, George G.; et al., 93j:62105**
Ivanov, Aleksandr Vladimirovich *see* **Grigor'ev, Yu. D., 93h:62028**

Jones, Lee K. A simple lemma on greedy approximation in Hilbert space and convergence rates for projection pursuit regression and neural network training. **93b:62089**
Kanevsky, Dimitri *see* **Burshtein, David; et al., 93i:62054**
Keating, Jerome P. *see* **Fountain, Robert L.; et al., 93a:62027**
Kim, Hyune-Ju Boundary crossing probabilities by nondifferentiable processes and applications to two-phase regression.
Kneip, Alois *see* **Gasser, Theo; et al., 93d:62063**
Köhler, Walter *see* **Gasser, Theo; et al., 93d:62063**
Kundu, Debasis Asymptotic properties of the complex valued nonlinear regression model. **93e:62111**
Lagakos, Stephen *see* **Begg, Melissa Dowd, 93k:62037**
Lee, Byung-Joo A heteroskedasticity test robust to conditional mean misspecification. **93h:62094**
Lee, Eric W. (*with* Wei, L. J.; Amato, David A.) Cox-type regression analysis for large numbers of small groups of correlated failure time observations. (English summary) (*see* **93b:62005**)
Le Fe Do *see* **Leonenko, N. N., 93e:62247**
Leonenko, N. N. (*with* Le Fe Do) Asymptotic properties of estimates of the regression coefficients of random fields. (Russian. English summary) **93e:62247**
(Leurgans, Sue) *see* **Lee, Eric W.; et al., (93b:62005)**
Li, Ker-Chau Sliced inverse regression for dimension reduction. **93f:62084**
Lin, Shang P. *see* **Tang, Dei-In, 93d:62041**
Lu, Xue Wen Nearest neighbour estimates of nonparametric regression functions under dependent observations. (Chinese. English and Chinese summaries)
Messer, Karen A comparison of a spline estimate to its equivalent kernel estimate. **93d:62076**
van der Meulen, Edward C. *see* **Carbonez, A.; et al., (93k:62002)**
Nádas, Arthur *see* **Burshtein, David; et al., 93i:62054**
Ososkov, G. A. *see* **Chernov, N. I.; et al., 93f:62103**
Pawlak, Miroslaw On the almost everywhere properties of the kernel regression estimate. **93d:62078**
Pooi, Ah Hin Interval estimates based on likelihood ratio in a nonlinear regression model. (English summary) **93h:62061**
Pronzato, L. *see* **Chernov, N. I.; et al., 93f:62103**
Qiu, Pei Hua Estimation of a kind of jump regression function. (English summary) **93k:62095**
Ramsay, James O. *see* **Dalzell, C. J., 93m:65188**
Rao, Calyampudi Radhakrishna *see* **Fountain, Robert L.; et al., 93a:62027**
Roussas, George G. (*with* Tran, Lanh Tat; Ioannides, D. A.) Fixed design regression for time series: asymptotic normality. **93j:62105**
Saint Laurent, Roy T. (*with* Cook, R. Dennis) Leverage and superleverage in nonlinear regression. (English summary) **93m:62167**
Sapra, Sunil K. Asymptotic properties of a quasi-maximum likelihood estimator in truncated regression model with serial correlation. (English summary) **93h:62057**
Seyedsadr, Mahmoud (*with* Cornelius, Paul L.) Shifted multiplicative models for nonadditive two-way tables. (English summary) **93k:62144**
Strömberg, Ulf ★ Isotonic regression based on asymmetric distance functions with applications to biological data. **93e:62118**
Tang, Dei-In (*with* Lin, Shang P.) Extension of the pool-adjacent-violators algorithm. **93d:62041**
Tran, Lanh Tat *see* **Roussas, George G.; et al., 93j:62105**
Truong, Young K. Robust nonparametric regression in time series. **93h:62088**
Tu, Renjin (*with* Zheng, Quan[1]) Integral global optimization method in statistical applications. (English summary) **93k:90064**
Ullah, Aman The exact density of nonparametric regression estimators: fixed design case.
Wei, L. J. *see* **Lee, Eric W.; et al., (93b:62005)**
Wu, Yao Hua[1] Convergence of regression quantile processes. (Chinese. Chinese summary) **93m:62042**
Xue, Liu Gen The L_p convergence rate of kernel estimates for nonparametric regression functions. (Chinese. English summary) **93b:62067**
Zhao, Lin Cheng (*with* Chai, Gen Xiang) Survey of Chinese work on nonparametric density estimation, regression and discrimination. (*see* **93e:62004**)
Zheng, Quan[1] *see* **Tu, Renjin, 93k:90064**

62J05 Linear regression

Adhikary, Basudeb (*with* Panda, Rajendranath) Quality-quantity type second order rotatable design in the presence of quality-quantity type interaction. **93k:62134**
Agarwal, R. C. (*with* Kathuria, O. P.) The effect of two-stage sampling on OLS estimators. (English and Hindi summaries)
Ahrens, Heinz J. (*with* Sánchez, Jesús E.) Imbalance and its influence on variance component estimation. (English summary)
Aigner, Dennis J. *see* **Ghali, Khalifa, (93m:62006)**
Alcalá, A. *see* **Ardanuy Albájar, Ramón; et al.**
Ali, Mir Masoom *see* **Ali, Mohamed Akkas, 93j:62167**
Ali, Mohamed Akkas Impacts of auxiliary information on outliers in regression. **93c:62113**
— Restricted minimum bias linear estimation in regression. **93c:62114**
— (*with* Ali, Mir Masoom) Impacts of equi-correlated responses on multicollinearity. **93j:62167**
Ardanuy Albájar, Ramón (*with* Soldevilla Moreno, Ma. del Mar; Alcalá, A.) A linear calibration model with correlated standards and roundings. (English summary)
Babu, Gutti Jogesh (*with* Feigelson, Eric D.) Analytical and Monte Carlo comparisons of six different linear least squares fits. **93e:62167**
— (*with* Bai, Zhi Dong) Edgeworth expansions for errors-in-variables models. (English summary) **93j:62168**
Bai, Zhi Dong (*with* Rao, Calyampudi Radhakrishna; Yin, Yong Quan) Least absolute deviations analysis of variance. (English summary) **93d:62121**
— *see also* **Babu, Gutti Jogesh, 93j:62168** *and* **Chen, Xi Ru; et al., 93m:62148**
Baksalary, Jerzy K. (*with* Puntanen, Simo; Styan, George P. H.) A property of the dispersion matrix of the best linear unbiased estimator in the general Gauss-Markov model. (English summary) **93f:62089**
— (*with* Pordzik, Paweł R.) Implied linear restrictions in the general Gauss-Markov model. **93c:62115**
— (*with* Rao, Calyampudi Radhakrishna; Markiewicz, Augustyn) A study of the influence of the "natural restrictions" on estimation problems in the singular Gauss-Markov model. **93j:62169**
— (*with* Nurhonen, Markku; Puntanen, Simo) Effect of correlations and unequal variances in testing for outliers in linear regression. **93e:62168**
Baltagi, Badi H. (*with* Li, Qi) A monotonic property for iterative GLS in the two-way random effects model. (English summary) **93m:62145**
Bartels, Robert *see* **Fiebig, Denzil G.; et al., 93k:62136**
Bassett, Gilbert W., Jr. The Gauss Markov property for the median. (English summary) **93m:62146**
Belsley, David A. Paring 3SLS calculations down to manageable proportions. (English summary)
Bhat, Avanindra N. Estimation in the linear regression model with errors in variables. (English summary) (*see* **93e:62002**)
Bohrer, Robert *see* **Yancey, T. A., (93m:62006)**
Breiman, Leo The little bootstrap and other methods for dimensionality selection in regression: X-fixed prediction error. (English summary) **93g:62089**
— Fitting additive models to regression data: diagnostics and alternative views. (English summary) **93h:62121**
Brooks, R. J. *see* **Stone, Mervyn, 93h:62124**
Carriquiry, Alicia L. *see* **Harville, David A.**
Carroll, Raymond J. (*with* Eltinge, John L.; Ruppert, David) Robust linear regression in replicated measurement error models. (English summary)
— *see also* **Simpson, Douglas G.; et al., 93e:62174**
Chai, Gen Xiang (*with* Li, Zhu Yu; Tian, Hong) Consistent nonparametric estimation of error distributions in linear model. **93b:62091**
Chalton, Derek O. (*with* Troskie, Cas G.) Q plots, a graphical aid for regression analysis.
Chang, Theodore *see* **Eaves, D. M.**
Chen, Di[1] Selection of IVs based on the orthogonal regression design. (English and Chinese summaries)
Chen, Gemai Some specific contiguous alternatives to the normal error assumption in linear models. (English summary) **93k:62135**
Chen, Gui Jing (*with* Zhao, Lin Cheng) Some contributions of Chinese statisticians to the asymptotic theory of inferences in linear models. (*see* **93e:62004**)
Chen, Xi Ru On a problem of existence of consistent estimate. **93m:62147**
— (*with* Bai, Zhi Dong; Zhao, Lin Cheng; Wu, Yue Hua) Consistency of minimum L_1-norm estimates in linear models. **93m:62148**
— *see also* **Zhao, Lin Cheng, 93m:62163**
Clarke, Brenton R. (*with* Godolphin, E. J.) Uncorrelated residuals and an exact test for two variance components in experimental design. (English summary) **93i:62058**
Cook, R. Dennis (*with* Hawkins, D. M.; Weisberg, S.) Comparison of model misspecification diagnostics using residuals from least mean of squares and least median of squares fits.
Cordeiro, Gauss M. Bartlett corrections and bias correction for two heteroscedastic regression models. (English summary)
Cox, D. R. (*with* Wermuth, Nanny) Response models for mixed binary and quantitative variables. (English summary) **93g:62090**
Cumby, Robert E. (*with* Huizinga, John) Testing the autocorrelation structure of disturbances in ordinary least squares and instrumental variables regressions. **93m:62149**
Dahiya, Ram C. (*with* McKeon, James J.) Modified classical and inverse regression estimators in calibration. (English summary) **93f:62090**
Datta, Gauri Sankar Some applications of Anderson's inequality to some optimality criteria of the generalized least squares estimator. **93j:62170**
Deo, Sheela S. *see* **Shah, K. R., 93a:62099**
Dodge, Yadolah (*with* Jurečková, Jana) Flexible l-estimation in the linear model. **93a:62095**
Dube, Madhulika *see* **Srivastava, Virendra Kumar, 93m:62158**
Durbin, James On a test of serial correlation for regression models with lagged dependent variables. (English summary) (*see* **93b:62003**)
Eaves, D. M. (*with* Chang, Theodore) Posterior mode estimation for the generalized linear model. (English summary)
Eltinge, John L. *see* **Carroll, Raymond J.; et al.**
Escobar, Luis A. (*with* Meeker, William Q., Jr.) Assessing influence in regression analysis with censored data. (French summary)
Feigelson, Eric D. *see* **Babu, Gutti Jogesh, 93e:62167**
Fiebig, Denzil G. (*with* McAleer, Michael; Bartels, Robert) Properties of ordinary least squares estimators in regression models with nonspherical disturbances. (English summary) **93k:62136**
Gao, Dao De Estimation of the deviation between the least squares and the best linear unbiased estimators of the mean vector in a linear model. (Chinese. English and Chinese summaries) **93m:62150**
— *see also* **Wang, Jing Long, 93m:62160**
Ghali, Khalifa (*with* Aigner, Dennis J.) Data pooling and self-selection: a mixed effects hierarchical approach. (English summary) (*see* **93m:62006**)
Giles, Judith A. Pre-testing for linear restrictions in a regression model with spherically symmetric disturbances. **93a:62096**
— Estimation of the error variance after a preliminary test of homogeneity in a regression model with spherically symmetric disturbances. (English summary) **93j:62171**
Girko, V. L. (*with* Onsha, Yu. M.) G_{16}-estimate for estimation error in the method of least squares. (Russian. Russian summary) **93d:62122**
Gleser, Leon Jay The importance of assessing measurement reliability in multivariate regression. (English summary) **93j:62172**
Gnot, Stanisław (*with* Srzednicka, Jolanta; Zmyślony, Roman) Bayes invariant quadratic estimation in general linear regression models. **93k:62137**
Godolphin, E. J. *see* **Clarke, Brenton R., 93i:62058**
Grimshaw, Scott D. Estimation of the linear-plateau segmented regression model in the presence of measurement error. (English summary)

Harville, David A. (*with* Carriquiry, Alicia L.) Classical and Bayesian prediction as applied to an unbalanced mixed linear model. (English and French summaries)
— (*with* Jeske, Daniel R.) Mean squared error of estimation or prediction under a general linear model. (English summary) **93j:62173**
Hawkins, D. M. *see* **Cook, R. Dennis; et al.**
He, Xuming A local breakdown property of robust tests in linear regression. **93a:62097**
— (*with* Portnoy, Stephen) Reweighted LS estimators converge at the same rate as the initial estimator. (English summary) **93k:62138**
Heiler, Siegfried Bounded influence and high breakdown point regression with linear combinations of order statistics and rank statistics. (English summary) **93m:62151**
Hettmansperger, Thomas P. (*with* Sheather, Simon J.) A cautionary note on the method of least median squares. **93b:62092**
Hirji, Karim F. Computing exact distributions for polytomous response data. **93e:62169**
Hooper, Peter M. Iterative weighted least squares estimation in heteroscedastic linear model. (English summary)
Hu, Fei Fang Admissibility of linear estimators for the common mean vector in a linear model. (Chinese. English and Chinese summaries)
Huang, Rong Tan A comparative analysis of criteria for variable selection in linear regression models. (Chinese. English and Chinese summaries)
Huang, Wên T'ao (*with* Pao, Kuan Min) Minimum distance estimations in a switching regression model. (English summary) **93f:62091**
Huizinga, John *see* **Cumby, Robert E., 93m:62149**
Isogawa, Yoshiko Finite sample and large sample properties of the OLS and GRLS estimators for a structural relationship with replication. **93c:62116**
— Comparing multivariate linear functional relationships. **93e:62170**
Jänner, Michaela (*with* Stahlecker, Peter) A comparison of maximum likelihood and quasi minimax approach to missing values. (English summary)
Jeong, Meeseon *see* **Kim, Choongrak**
Jeske, Daniel R. *see* **Harville, David A., 93j:62173**
Jiao, Wan Tang (*with* Zhu, Xiu Juan) A unified regression estimate for regression coefficients. (Chinese. English and Chinese summaries)
Jørgensen, Bent Finding rank leverage subsets in regression.
Jurečková, Jana *see* **Dodge, Yadolah, 93a:62095**
Kabe, D. G. Equivalence of GMANOVA and SUR models. (English summary) **93f:62092**
— On a constrained least squares hypothesis testing problem. (English summary)
Kaniovskaya, I. Yu. *see* **Zaigraev, A. Yu., 93c:62124**
Kathuria, O. P. *see* **Agarwal, R. C.**
Kemp, Gordon C. R. On Wald tests for globally and locally quadratic restrictions. **93g:62091**
Kim, Choongrak (*with* Jeong, Meeseon) Detecting influential observations on transformation parameter in Box-Cox model. (English summary)
Kleffe, J. (*with* Rao, J. N. K.) Estimation of mean square error of empirical best linear unbiased predictors under a random error variance linear model. (English summary) **93m:62152**
Knautz, Henning (*with* Wilde, Joachim) $\mathbb{R}^2$ in restricted linear models. (English summary)
Korkhin, A. S. Estimation of variable regression parameters as a two-criteria problem. (Russian. English and Ukrainian summaries) **93c:62117**
Kotz, Samuel (*with* Kuritsyn, Yu. G.) A linear model with a pseudoisotropic distribution of errors. (English summary) (*see* **93k:62005**)
Krämer, Walter *see* **Ploberger, Werner, 93a:62098**
Kubáček, Lubomír Equivalent algorithms for estimation in linear model with condition. **93c:62118**
— Estimation of the first and second order parameters in regression models with special structure. **93d:62123**
Kuritsyn, Yu. G. *see* **Kotz, Samuel, (93k:62005)**
Lai, Tze Leung (*with* Ying, Zhiliang) Linear rank statistics in regression analysis with censored or truncated data. **93d:62124**
Lauterbach, Jörg (*with* Stahlecker, Peter) A numerical method for an approximate minimax estimator in linear regression. (English summary) **93j:62174**
Lee, Lung Fei Semiparametric nonlinear least-squares estimation of truncated regression models. **93c:62119**
Lee, Sik Yum *see* **Poon, Wai-Yin, 93d:62126**
Li, Qi *see* **Baltagi, Badi H., 93m:62145**
Li, Zhu Yu *see* **Chai, Gen Xiang; et al., 93b:62091**
Liang, Wên Ch'i On asymptotic optimum rules for the selection of variables in regression analysis. **93e:62171**
Lien, Da-Hsiang Donald (*with* Rearden, David) On the information content of partial observations. (English summary) **93h:62122**
Lin, Chun Tu The efficiency of least squares estimators of a seemingly unrelated regression model. **93c:62120**
Lin, J. S. (*with* Wei, L. J.) Linear regression analysis for multivariate failure time observations. (English summary) **93j:62175**
Liski, Erkki P. On a relationship between minimax-linear and admissible estimators in linear regression. (English summary) **93j:62176**
Liu, Ai Yi (*with* Wang, Song Gui) Biased estimators for the parameters of a class of related regression systems. (Chinese. English and Chinese summaries)
Liu, Jin Shan An efficient procedure for estimating two seemingly unrelated regressions.
Liu, Ke Jian A new class of biased estimate in linear regression. (English summary)
Lu, Chang Yu Admissibility of nonnegative quadratic estimators for combined variance components. (Chinese) **93b:62093**
Lyazrhi, Faouzi Détection de ruptures dans un modèle linéaire gaussien: optimalité de procédures de décision multiple basées sur le rapport de vraisemblance. (English and French summaries) [Change-point detection in a Gaussian linear model: optimality of multiple-decision procedures based on the likelihood ratio]
Machek, Josef Regression models all of whose variables are contaminated by random errors. (Spanish. English and Spanish summaries)
Madhulika *see* **Srivastava, Virendra Kumar**
Madsen, Kaj (*with* Nielsen, Hans Bruun) A finite smoothing algorithm for linear l_1 estimation. (English summary)
Magagnoli, Umberto Parameter and decision spaces for particular systems of hypotheses with respect to polynomial regression functions. (Italian. English and Italian summaries)
Markatou, Marianthi (*with* Stahel, Werner A.; Ronchetti, Elvezio) Robust M-type testing procedures for linear models. **93b:62094**
Markiewicz, Augustyn *see* **Baksalary, Jerzy K.; et al., 93j:62169**
Martin, Richard John Leverage, influence and residuals in regression models when observations are correlated.
Marx, Brian D. A continuum of principal component generalized linear regressions.
McAleer, Michael *see* **Fiebig, Denzil G.; et al., 93k:62136**
McKeon, James J. *see* **Dahiya, Ram C., 93f:62090**
Meeker, William Q., Jr. *see* **Escobar, Luis A.**
Miao, Bai Qi The estimate of the rank for regression coefficient matrix in a median regression model. (English summary) **93h:62123**
Mitra, Sujit Kumar (*with* Puntanen, Simo) The shorted operator statistically interpreted. **93i:62059**
Miyaoka, Etsuo *see* **Ukita, Yoshimasa; et al., 93g:62096**
Müller, Christine H. L_1-estimation and testing in conditionally contaminated linear models. (English summary) **93m:62153**
Nazin, A. V. (*with* Yuditskii, A. B.) Optimal and robust estimation of slowly drifting parameters of a linear regression process. (Russian) **93d:62125**
Nguyen Bac Van Estimation and prediction in regression models with random explanatory variables. **93c:62121**
Nielsen, Hans Bruun *see* **Madsen, Kaj**
Noda, Kazuo *see* **Ukita, Yoshimasa; et al., 93g:62096**
Nurhonen, Markku (*with* Puntanen, Simo) A property of partitioned generalized regression. **93e:62172**
— (*with* Puntanen, Simo) Effect of deleting an observation on the equality of the OLSE and BLUE. (English summary) **93m:62154**
— *see also* **Baksalary, Jerzy K.; et al., 93e:62168**
Öfversten, J. Exact tests for variance components in unbalanced mixed linear models. (English and French summaries) **93m:62155**
Onsha, Yu. M. *see* **Girko, V. L., 93d:62122**
Pan, Shou Jie *see* **Shang, Shu Fang**
Panda, Rajendranath *see* **Adhikary, Basudeb, 93k:62134**
Pandey, B. N. *see* **Pandey, M.**
Pandey, M. (*with* Pandey, B. N.) Preliminary test estimators of regression coefficient. (English and Hindi summaries)
Pao, Kuan Min *see* **Huang, Wên T'ao, 93f:62091**
Patel, N. P. *see* **Patel, S. R., 93f:62093**
Patel, S. R. (*with* Patel, N. P.) Mixed effect exponential linear model. (English summary) **93f:62093**
Peixoto, Julio L. Four equivalent definitions of reparametrizations and restrictions in linear models. (English summary) **93m:62156**
Peng, Xiao Ning Some discussion on the PRESS (prediction sum of squares) principle. (Chinese. English and Chinese summaries)
Penlidis, A. *see* **Phatak, A.; et al., 93e:62173**
Phatak, A. (*with* Reilly, P. M.; Penlidis, A.) The geometry of 2-block partial least squares regression. **93e:62173**
Ploberger, Werner (*with* Krämer, Walter) The CUSUM test with OLS residuals. **93a:62098**
Poon, Wai-Yin (*with* Lee, Sik Yum) Maximum likelihood and generalized least squares analyses of two-level structural equation models. **93d:62126**
Pordzik, Paweł R. *see* **Baksalary, Jerzy K., 93c:62115**
Portnoy, Stephen *see* **He, Xuming, 93k:62138**
Puntanen, Simo *see* **Baksalary, Jerzy K.; et al., 93e:62168; Nurhonen, Markku, 93e:62172; Baksalary, Jerzy K.; et al., 93f:62089; Mitra, Sujit Kumar, 93i:62059** *and* **Nurhonen, Markku, 93m:62154**
Rajarshi, M. B. *see* **Ramanathan, T. V., 93m:62157**
Ramanathan, T. V. (*with* Rajarshi, M. B.) Optimal estimation in random coefficient regression models. (English summary) **93m:62157**
Rao, Calyampudi Radhakrishna *see* **Bai, Zhi Dong; et al., 93d:62121** *and* **Baksalary, Jerzy K.; et al., 93j:62169**
Rao, J. N. K. *see* **Kleffe, J., 93m:62152**
Rearden, David *see* **Lien, Da-Hsiang Donald, 93h:62122**
Reilly, P. M. *see* **Phatak, A.; et al., 93e:62173**
Ronchetti, Elvezio *see* **Markatou, Marianthi; et al., 93b:62094**
Ruppert, David *see* **Simpson, Douglas G.; et al., 93e:62174** *and* **Carroll, Raymond J.; et al.**
Sánchez, Jesús E. *see* **Ahrens, Heinz J.**
Schmoyer, Richard L. Asymptotically valid prediction intervals for linear models. (English summary) **93g:62092**
Seppänen, Eila (*with* Uusipaikka, Esa) Confidence bands for linear regression over restricted regions. **93f:62094**
Shah, D. N. A note on prior information in regression. (English and Italian summaries)
Shah, K. R. (*with* Deo, Sheela S.) Missing plot technique in linear models. **93a:62099**
Shang, Shu Fang (*with* Pan, Shou Jie) Robustness of linear sufficient statistics for the general Gauss-Markov model. (Chinese. English and Chinese summaries)
Shao, Jun[1] Jackknifing in generalized linear models. (English summary) **93k:62139**
— Some conditions on the design of a regression model. **93g:62093**
— *see also* **Wang, Song Gui, 93j:62179**
Sheather, Simon J. *see* **Hettmansperger, Thomas P., 93b:62092**
Simpson, Douglas G. (*with* Ruppert, David; Carroll, Raymond J.) On one-step GM estimates and stability of inferences in linear regression. **93e:62174**
Skuridin, A. M. Existence and properties of moments of joint estimates for the parameters of a multivariate linear regression model and the covariance matrix of measurement error. (Russian) (*see* **93g:00022**)
Smith, Richard J. Nonnested tests for competing models estimated by generalized method of moments. **93c:62122**
Soldevilla Moreno, Ma. del Mar *see* **Ardanuy Albájar, Ramón; et al.**
Srivastava, Virendra Kumar (*with* Madhulika) Predictive efficiency of mixed regression estimation in misspecified regression models.
— (*with* Dube, Madhulika) Properties of the ordinary least squares and Stein-rule predictions in linear regression models with proxy variables. (English summary) **93m:62158**

Srzednicka, Jolanta *see* **Gnot, Stanisław; et al., 93k:62137**
Stahel, Werner A. *see* **Markatou, Marianthi; et al., 93b:62094**
Stahlecker, Peter *see* **Lauterbach, Jörg, 93j:62174** *and* **Jänner, Michaela**
Steel, S. J. *see* **Venter, J. H., 93j:62178**
Stone, Mervyn (*with* Brooks, R. J.) Corrigendum: "Continuum regression: cross-validated sequentially constructed prediction embracing ordinary least squares, partial least squares and principal components regression" [J. Roy. Statist. Soc. Ser. B **52** (1990), no. 2, 237–269; MR 92c:62042]. **93h:62124**
Stuchlý, Jaroslav The Bayes estimator of the variance components and its admissibility. **93d:62127**
Styan, George P. H. *see* **Baksalary, Jerzy K.; et al., 93f:62089**
Sun, Liu Quan Admissibility of linear estimators for general multivariate regression coefficients. (Chinese. English and Chinese summaries) **93g:62094**
Tansel, Aysit Testing for structural change under heteroscedasticity: a note and an application. (English summary)
Thomas, Edward V. Errors-in-variables estimation in multivariate calibration. **93g:62095a**
— Correction: "Errors-in-variables estimation in multivariate calibration". **93g:62095b**
Tian, Hong *see* **Chai, Gen Xiang; et al., 93b:62091**
Tingley, Maureen Small-sample intervals for regression. (English and French summaries) **93h:62125**
Toutenburg, H. *see* **Trenkler, Götz, 93e:62175**
Trenkler, Götz Mean square error matrix comparisons between biased restricted least squares estimators. (English summary) **93m:62159**
— (*with* Toutenburg, H.) Pre-test procedures and forecasting in the regression model under restrictions. **93e:62175**
Troskie, Cas G. *see* **Chalton, Derek O.**
Tsai, Chih-Ling (*with* Wu, Xi Zhi) Assessing local influence in linear regression models with first-order autoregressive or heteroscedastic error structure.
Tu, Dong Sheng Weighted stochastic approximation of estimates of errors and variance in linear models. (Chinese. Chinese summary) **93j:62177**
Ukita, Yoshimasa (*with* Noda, Kazuo; Miyaoka, Etsuo) On F-tests and linear hypothesis in a general linear model. **93g:62096**
Uusipaikka, Esa *see* **Seppänen, Eila, 93f:62094**
Venter, J. H. (*with* Steel, S. J.) Some contributions to selection and estimation in the normal linear model. (English summary) **93j:62178**
Volaufová, Júlia (*with* Witkovský, Viktor) Least squares and minimum MSE estimators of variance components in mixed linear models. (English and German summaries) **93k:62140**
— (*with* Witkovský, Viktor) Estimation of variance components in mixed linear models. (Czech summary) **93c:62123**
Wang, Guo Jun^2 *see* **Zhu, Xiu Juan**
Wang, Jing Long (*with* Gao, Dao De) Measures of inefficiency for generalized least square estimates of the Euclidean norms of matrices. (Chinese. English and Chinese summaries) **93m:62160**
— *see also* **Zhou, Ming Hua**
Wang, Qi Ying Upper and lower bounds on the rate of convergence to the normal distribution of estimates of error variances. (Chinese. English and Chinese summaries)
Wang, Song Gui On relationships between the principal components and the latent root regression estimators. (English and Chinese summaries) **93i:62060**
— (*with* Shao, Jun^1) Constrained Kantorovich inequalities and relative efficiency of least squares. (English summary) **93j:62179**
— *see also* **Yang, Hu, 93i:62061** *and* **Liu, Ai Yi**
Watson, Patrick Kent The von Neumann ratio test for serial correlation in the general linear regression model.
Wei, Feng Rong A robust method for regression lines. (Chinese. Chinese summary)
Wei, L. J. *see* **Lin, J. S., 93j:62175**
Weisberg, S. *see* **Cook, R. Dennis; et al.**
Weiss, Andrew A. Some aspects of measurement error in a censored regression model. (English summary) **93j:62180**
Wermuth, Nanny *see* **Cox, D. R., 93g:62090**
Wilde, Joachim *see* **Knautz, Henning**
Wimmer, Gejza Uniformly best linear-quadratic estimator in a special structure of the regression model. (English summary) **93m:62161**
— Linear model with variances depending on the mean value. **93e:62176**
Witkovský, Viktor *see* **Volaufová, Júlia, 93c:62123** *and* **93k:62140**
Wu, Qi Guang On admissibility of estimators for parameters in linear models. (*see* **93e:62004**)
— Inadmissibility and admissibility of some unbiased loss estimators in linear models. (Chinese. Chinese summary) **93k:62141**
Wu, Xi Zhi *see* **Tsai, Chih-Ling**
Wu, Yue Hua *see* **Chen, Xi Ru; et al., 93m:62148**
Xia, Ming Yuan Weak congruence of LS estimates for regression coefficients of equicorrelation linear models. (Chinese. Chinese summary)
Yancey, T. A. (*with* Bohrer, Robert) Risk and power for inequality pre-test estimators: general case in two dimensions. (English summary) (*see* **93m:62006**)
Yang, Hu (*with* Wang, Song Gui) Condition numbers, the spectral norm and precision of estimators. (Chinese. English and Chinese summaries) **93i:62061**
— A sensitivity analysis of the best linear unbiased estimate. (Chinese. English and Chinese summaries)
Yin, Yong Quan *see* **Bai, Zhi Dong; et al., 93d:62121**
Ying, Zhiliang *see* **Lai, Tze Leung, 93d:62124**
Yu, Wei Sheng Least square estimation of parameters in a linear model with linear inequality constraints. (Chinese. English summary)
Yuditskii, A. B. *see* **Nazin, A. V., 93d:62125**
Zaigraev, A. Yu. A problem of estimating unknown parameters in a general linear regression model. (Russian. Russian summary) **93j:62181**
— (*with* Kaniovskaya, I. Yu.) A problem of predicting a linear regression function with random regression coefficients. (Russian) **93c:62124**
Zhang, Ping^1 Inference after variable selection in linear regression models. (English summary) **93m:62162**
Zhao, Lin Cheng (*with* Chen, Xi Ru) Asymptotic behavior of M-test statistics in linear models. (English summary) **93m:62163**
— *see also* **Chen, Xi Ru; et al., 93m:62148** *and* **Chen, Gui Jing, (93e:62004)**
Zheng, Zhong Guo Multiple hypothesis testing in stepwise regression. (Chinese. English and Chinese summaries) **93i:62062**
Zhou, Ming Hua (*with* Wang, Jing Long) Nonnegative quadratic estimates of variance components in random-effect models. (Chinese. English and Chinese summaries)
Zhu, Xiu Juan (*with* Wang, Guo Jun^2) The AP statistic and distance influence functions in multivariate linear regression. (Chinese. English and Chinese summaries)
— *see also* **Jiao, Wan Tang**
Zmyślony, Roman *see* **Gnot, Stanisław; et al., 93k:62137**
Zvára, Karel Consistency of an estimate in linear regression with nonnegative errors. **93f:62095**

Items with secondary classifications in 62J05

Ai, Ming Yao (*with* Qin, Hong) Admissibility of linear estimators for random regression coefficients and parameters in a multivariate linear model. (Chinese. English and Chinese summaries) **93m:62023**
Ali, Mohamed Akkas (*with* Smadi, A. A.) Modified generalized Stein estimator of regression coefficients. (English summary) **93j:62182**
Atkinson, Scott E. (*with* Wilson, Paul W.) The bias of bootstrapped versus conventional standard errors in the general linear and SUR models. (English summary) **93j:62184**
Bai, Zhi Dong (*with* Krishnaiah, P. R.; Zhao, Lin Cheng) Variable selection in logistic regression. (Chinese summary) **93c:62106**
— (*with* Rao, Calyampudi Radhakrishna; Wu, Yue Hua) M-estimation of multivariate linear regression parameters under a convex discrepancy function. **93c:62060**
Bera, Anil K. (*with* Lee, Sangkyu) Information matrix test, parameter heterogeneity and ARCH: a synthesis. (English summary) **93h:62191**
Beran, Rudolf (*with* Hall, Peter Gavin) Estimating coefficient distributions in random coefficient regressions. (English summary) **93m:62039**
Bertuzzi, Alessandro (*with* Gandolfi, Alberto) Ridge regression versus OLS by Pitman's closeness under quadratic and Fisher's loss. **93e:62177**
Bischoff, Wolfgang On exact D-optimal designs for regression models with correlated observations. (English summary) **93h:62127**
Brorsen, B. Wade Approximation of Bayesian posterior densities in the heteroskedastic error regression model. **93a:62040**
Brownstone, David Bootstrapping admissible linear model selection procedures. (English summary) (*see* **93f:62003**)
Cambanis, Stamatis (*with* Wu, Wei) Multiple regression on stable vectors. **93g:60032**
Chai, Gen Xiang (*with* Su, Yan; Shi, Sun Juan) A nonparametric approach to the estimation of error distributions in linear model. (English summary) **93h:62071**
Chamberlain, Gary Efficiency bounds for semiparametric regression. **93j:62134**
Chaturvedi, Ajit *see* **Chaturvedi, Anoop, 93a:62110**
Chaturvedi, Anoop (*with* Chaturvedi, Ajit) Further remarks on sequential point estimation of regression parameters. (Hindi summary) **93a:62110**
Chen, Jian Bao Some results on admissibility of simultaneous estimates of regression coefficients and error variance under a matrix loss function. (Chinese. English and Chinese summaries) **93m:62024**
— *see also* **Zhan, Jin Long, 93b:62014**
Cheng, Chi Lun (*with* Van Ness, John W.) Generalized M-estimators for errors-in-variables regression. **93h:62063**
— Robust linear regression via bounded influence M-estimators. **93g:62087**
Cuzick, Jack Efficient estimates in semiparametric additive regression models with unknown error distribution. **93h:62073**
Das, Rita (*with* Sinha, Bimal Kumar) Robust optimum invariant tests of covariance structures useful in linear models. (English summary) **93e:62094**
DeMets, David L. *see* **Lee, Jae Won, 93e:62203**
Dette, Holger Optimal designs for a class of polynomials of odd or even degree. **93b:62101**
Dickey, James M. *see* **Garthwaite, Paul H., 93k:62066**
Dollinger, Michael B. (*with* Staudte, Robert G.) Influence functions of iteratively reweighted least squares estimators. **93k:62057**
Drygas, Hilmar Minimax linear estimation in a convex linear model—a paradoxon in decision theory? **93g:62017**
Dupačová, Jitka Epi-consistency in restricted regression models. The case of a general convex fitting function. (English summary) **93k:62058**
El-Arishy, Samia M. Admissibility of continuous unbiased estimators in linear mixed models. **93d:62016**
Ellis, Steven P. The singularities of fitting planes to data. **93f:62087**
— (*with* Morgenthaler, Stephan) Leverage and breakdown in L_1 regression. **93b:62048**
Encarnación, Mark J. A note on linear regression functions. **93e:62039**
Fang, Kai Tai (*with* Wang, Yuan^1) A sequential algorithm for optimization and its applications to regression analysis. (English summary) **93e:90045**
Fisher, Nicholas I. (*with* Lee, A. J.) Regression models for an angular response. (English and French summaries) **93f:62079**
Frees, Edward W. Linear regression and U-statistics. (English summary) **93g:60046**
Galbraith, John W. (*with* Zinde-Walsh, Victoria) The GLS transformation matrix and a semi-recursive estimator for the linear regression model with ARMA errors. **93d:62159**
Gandolfi, Alberto *see* **Bertuzzi, Alessandro, 93e:62177**
Garthwaite, Paul H. (*with* Dickey, James M.) Elicitation of prior distributions for variable-selection problems in regression. (English summary) **93k:62066**
Giles, David E. A. (*with* Srivastava, Virendra Kumar) An unbiased estimator of the covariance matrix of the mixed regression estimator. **93a:62085**
Giri, N. *see* **Perron, François, 93b:62085**
Gong, Li Qiang Problems on testing equality of scale parameters in a growth curve model. (Chinese. English and Chinese summaries)
Gutenbrunner, C. Efficient L-estimators in semiparametric linear heteroscedastic models. (English summary) **93m:62075**
— (*with* Jurečková, Jana) Regression rank scores and regression quantiles. **93c:62069**
Hagwood, Robert Charles The calibration problem as an ill-posed inverse problem. **93j:62063**

Hall, Peter Gavin *see* **Beran, Rudolf, 93m:62039**
Helland, Inge S. Maximum likelihood regression on relevant components. **93h:62110**
Huda, S. On some D_s-optimal designs in spherical regions. **93d:62134**
Inutsuka, Makoto *see* **Sasabuchi, Syoichi; et al., 93m:62059**
Ishii, Hiroaki[1] *see* **Morita, Hiroshi, 93k:90062**
Iwata, Shigeru Highest predictive density estimator in regression models. (English summary) **93j:62245**
Jeske, Daniel R. Predicting the value of an integer-valued random variable. (English summary) **93m:60076**
Jiang, Wen Jiang Nonnegative optimality of a quadratic estimator in multivariate linear models. (Chinese) **93g:62074**
Jin, Kun Empirical smoothing parameter selection in adaptive estimation. (English summary) **93m:62060**
Johnson, Dallas E. *see* **Weerakkody, Govinda J., 93k:62157**
Jurečková, Jana *see* **Gutenbrunner, C., 93c:62069**
Kabe, D. G. On a prediction interval problem of econometric aggregation theory. (English summary) **93j:62246**
Kapadia, C. H. *see* **Lee, K. R., 93c:62041**
Kariya, Takeaki (*with* Toyooka, Yasuyuki) Bounds for normal approximations to the distributions of generalized least squares predictors and estimators. **93e:62166**
Khuri, André I. Blocking with rotatable designs. (English summary) **93k:62154**
Kim, Soon-Kwi (*with* Park, Sung Hyun) On sensitivity analysis in principal component regression.
Kipnis, Victor Bootstrap assessment of prediction in exploratory regression analysis. (English summary) (*see* **93f:62003**)
Koul, Hira L. M-estimators in linear models with long range dependent errors. **93f:62124**
Krishnaiah, P. R. *see* **Bai, Zhi Dong; et al., 93c:62106**
Kubáčková, Ludmila The locally best estimators of the first and second order parameters in epoch regression models. **93f:62097**
Kubokawa, Tatsuya (*with* Robert, Christian P.; Saleh, A. K. Md. Ehsanes) Robust estimation of common regression coefficients under spherical symmetry. **93e:62096**
Kulatunga, D. D. Sarath *see* **Sasabuchi, Syoichi; et al., 93m:62059**
Kurotschka, Viktor (*with* Müller, Christine H.) Optimum robust estimation of linear aspects in conditionally contaminated linear models. **93k:62071**
Lahiri, Soumendra Nath Bootstrapping M-estimators of a multiple linear regression parameter. (English summary) **93i:62038**
— Edgeworth expansions for M-estimators of a regression parameter. (English summary) **93k:62072**
Lai, Tze Leung (*with* Ying, Zhiliang) Asymptotically efficient estimation in censored and truncated regression models. **93e:62133**
Laitila, Thomas A pseudo-R^2 measure for limited and qualitative dependent variable models. (English summary) **93m:62219**
Lee, A. J. *see* **Fisher, Nicholas I., 93f:62079**
Lee, Jae Won (*with* DeMets, David L.) Sequential comparison of changes with repeated measurements data. **93e:62203**
Lee, K. R. (*with* Kapadia, C. H.) Restricted maximum likelihood estimation under Eisenhart model III. **93c:62041**
Lee, Sangkyu *see* **Bera, Anil K., 93h:62191**
Li, H. G. *see* **Ouyang, Zhao; et al., 93k:62023**
Maronna, Ricardo A. (*with* Yohai, Víctor J.) The breakdown point of simultaneous general M estimates of regression and scale. **93g:62050**
McGilchrist, C. A. *see* **Tobing, H., 93m:62168**
Monterrey, Pedro A. A brief historical sketch of parameter estimation in linear and nonlinear models. (Spanish. English and Spanish summaries)
Morgenthaler, Stephan *see* **Ellis, Steven P., 93b:62048**
Morita, Hiroshi (*with* Ishii, Hiroaki[1]) A stochastic improvement method for stochastic programming. (English summary) **93k:90062**
Müller, Christine H. *see* **Kurotschka, Viktor, 93k:62071**
Müller, Hans-Georg Goodness-of-fit diagnostics for regression models. **93g:62098**
Nyquist, Hans Restricted M-estimation. (English summary) **93g:62051**
Ouyang, Zhao (*with* Schreuder, Hans T.; Li, H. G.) Robust sampling strategies for regression estimation. (English summary) **93k:62023**
Park, Sung Hyun *see* **Kim, Soon-Kwi**
Payne, R. W. (*with* Tobias, R. D.) General balance, combination of information and the analysis of covariance. **93g:62097**
Perron, François (*with* Giri, N.) Best equivariant estimation in curved covariance models. **93b:62085**
Phillips, Peter C. B. A shortcut to LAD estimator asymptotics. **93d:62044**
Polasek, Wolfgang *see* **Pötzelberger, Klaus, 93d:62046**
Pollard, David Asymptotics for least absolute deviation regression estimators. **93d:62176**
Pötzelberger, Klaus (*with* Polasek, Wolfgang) Robust HPD regions in Bayesian regression models. **93d:62046**
Qin, Hong *see* **Ai, Ming Yao, 93m:62023**
Racine, Jeff *see* **Ullah, Aman, (93m:62006)**
Rajarshi, M. B. *see* **Ramanathan, T. V., 93c:62129**
Ramanathan, T. V. (*with* Rajarshi, M. B.) Rank tests for testing randomness of a regression coefficient in a linear regression model. **93e:62129**
Rao, Calyampudi Radhakrishna (*with* Zhao, Lin Cheng) On the consistency of M-estimate in a linear model obtained through an estimating equation. **93h:62056**
— *see also* **Bai, Zhi Dong; et al., 93c:62060**
Robert, Christian P. *see* **Kubokawa, Tatsuya; et al., 93e:62096**
Rychlik, Igor Confidence bands for linear regressions. **93h:62062**
Saleh, A. K. Md. Ehsanes *see* **Kubokawa, Tatsuya; et al., 93e:62096**
Samorodnitsky, Gennady (*with* Taqqu, Murad S.) Conditional moments and linear regression for stable random variables. **93b:60033**
Sarkar, Nityananda A new estimator combining the ridge regression and the restricted least squares methods of estimation. **93j:62183**
Sasabuchi, Syoichi (*with* Inutsuka, Makoto; Kulatunga, D. D. Sarath) An algorithm for computing multivariate isotonic regression. **93m:62059**
Schneider, Wolfgang Systems of seemingly unrelated regression equations with time varying coefficients—an interplay of Kalman filtering, scoring, EM- and MINQUE-method. (English summary)
Schreuder, Hans T. *see* **Ouyang, Zhao; et al., 93k:62023**
Shi, Sun Juan *see* **Chai, Gen Xiang; et al., 93h:62071**
Shiraishi, Taka-aki Statistical inference based on aligned ranks for two-way MANOVA with interaction. **93c:62074**
Silvapulle, Mervyn J. On limited dependent variable models: maximum likelihood estimation and test of one-sided hypothesis. **93e:62084**
Sinha, Bimal Kumar *see* **Das, Rita, 93e:62094**
Slabospits'kii, A. S. Conditions for the convergence of the method of least squares. (Russian) **93h:65178**
Smadi, A. A. *see* **Ali, Mohamed Akkas, 93j:62182**
Spruill, M. C. Good designs for testing the degree of a polynomial mean. (English summary) **93e:62188**
Sriram, T. N. An improved sequential procedure for estimating the regression parameter in regression models with symmetric errors. (English summary) **93m:62183**
Srivastava, Virendra Kumar *see* **Giles, David E. A., 93a:62085**
Staudte, Robert G. *see* **Dollinger, Michael B., 93k:62057**
Stępniak, Czesław On characterization of the normal law in the Gauss-Markov model. (English summary) **93g:62025**
Su, Yan *see* **Chai, Gen Xiang; et al., 93h:62071**
Taqqu, Murad S. *see* **Samorodnitsky, Gennady, 93b:60033**
Tikhov, M. S. Reduction of test times for a censored sample. (Russian) **93c:62161**
Tobias, R. D. *see* **Payne, R. W., 93g:62097**
Tobing, H. (*with* McGilchrist, C. A.) Recursive residuals for multivariate regression models. (English summary) **93m:62168**
Toyooka, Yasuyuki *see* **Kariya, Takeaki, 93e:62166**
Ullah, Aman (*with* Racine, Jeff) Smooth improved estimators of econometric parameters. (English summary) (*see* **93m:62006**)
Van Ness, John W. *see* **Cheng, Chi Lun, 93h:62063**
Víšek, Jan Ámos Large adaptive estimation in linear regression model. I. Consistency. **93j:62087a**
— Adaptive estimation in linear regression model. II. Asymptotic normality. **93j:62087b**
Volaufová, Júlia On variance of the two-stage estimator in variance-covariance components model. (English and Slovak summaries) **93m:62055**
Wang, Yu (*with* Wiens, Douglas P.) Optimal, robust R-estimators and test statistics in the linear model. **93c:62062**
Wang, Yuan[1] *see* **Fang, Kai Tai, 93e:90045**
Weerakkody, Govinda J. (*with* Johnson, Dallas E.) Estimation of within model parameters in regression models with a nested error structure. (English summary) **93k:62157**
Wei, Ching Zong On predictive least squares principles. **93k:62192**
Wiens, Douglas P. *see* **Wang, Yu, 93c:62062**
Wilson, Paul W. *see* **Atkinson, Scott E., 93j:62184**
Wolke, Ralf Iteratively reweighted least squares: a comparison of several single step algorithms for linear models. (English summary) **93g:65175**
Wooldridge, Jeffrey M. A test for functional form against nonparametric alternatives. (English summary) **93m:62117**
Wu, Wei *see* **Cambanis, Stamatis, 93g:60032**
Wu, Yue Hua *see* **Bai, Zhi Dong; et al., 93c:62060**
Wysocki, W. Mathematical foundations of multivariate path analysis. (English summary) **93m:62134**
Ying, Zhiliang *see* **Lai, Tze Leung, 93e:62133**
Yohai, Víctor J. *see* **Maronna, Ricardo A., 93g:62050**
Zhan, Jin Long (*with* Chen, Jian Bao) Admissibility of linear estimators of regression coefficients with constraints. (Chinese. English summary) **93b:62014**
Zhao, Lin Cheng *see* **Bai, Zhi Dong; et al., 93c:62106** *and* **Rao, Calyampudi Radhakrishna, 93h:62056**
Zhu, Jin Admissibility of estimators in linear models. (Chinese. English and Chinese summaries) **93k:62017**
Zinde-Walsh, Victoria *see* **Galbraith, John W., 93d:62159**

62J07 Ridge regression; James-Stein estimators

Ali, Mohamed Akkas On estimation of linear functions of parameters of a linear regression model. (English summary) **93f:62096**
— (*with* Smadi, A. A.) Modified generalized Stein estimator of regression coefficients. (English summary) **93j:62182**
Bertuzzi, Alessandro (*with* Gandolfi, Alberto) Ridge regression versus OLS by Pitman's closeness under quadratic and Fisher's loss. **93e:62177**
Chandra, Ram *see* **Srivastava, Anil K., 93e:62179**
Chaturvedi, Anoop (*with* Shukla, Govind) Stein rule estimation in linear model with nonscalar error covariance matrix. (English summary) **93e:62178**
Chen, Shi Ji (*with* Zeng, Zhi Bin) Generalized multivariate ridge regression estimate and criteria $Q(c)$ for choosing matrix K. (Chinese. English and Chinese summaries) **93k:62142**
Chen, Xi Ru (*with* Wu, Yue Hua) On consistency of minimum L_1 norm estimates in linear models. (*see* **93b:60004**)
Criticou, Doukissa (*with* Terzakis, Dimitris) Une classe d'estimateurs à rétrécisseur bayesiens pour la moyenne d'un vecteur normal. (English and French summaries) [A class of Bayes shrinkage estimators for the mean of a normal vector]
Dube, Madhulika (*with* Srivastava, Virendra Kumar; Toutenburg, H.; Wijekoon, P.) Stein-rule estimator under inclusion of superfluous variables in linear regression models. **93b:62095**
Gandolfi, Alberto *see* **Bertuzzi, Alessandro, 93e:62177**
Girard, Didier A. Asymptotic optimality of the fast randomized versions of GCV and C_L in ridge regression and regularization. **93b:62096**
Han, Chien-Pai *see* **Saleh, A. K. Md. Ehsanes, 93c:62125**
Honoré, Bo E. Trimmed LAD and least squares estimation of truncated and censored regression models with fixed effects. **93a:62100**

Ki, Yuen-Ching Fanny Multiple shrinkage estimators in multiple linear regression. **93d:62128**
Lee, Tze-San A class of minimax ridge rules. (English and Italian summaries) **93k:62143**
Lu, Chang Yu (*with* Zhou, Guang Ya) Estimation of the normal mean vector parameter. (Chinese. English summary)
Mathew, Thomas[1] (*with* Nordström, Kenneth) Least squares and least absolute deviation procedures in approximately linear models. (English summary)
McKean, Joseph W. *see* **Sheather, Simon J., (93k:62005)**
Nordström, Kenneth *see* **Mathew, Thomas[1]**
Nyquist, Hans L_1-norm estimation of regression models with serially dependent error terms. (English summary) (*see* **93k:62005**)
Pilibossian, Philippe Un algorithme de résolution directe pour une régression linéaire d'après le critère de la norme L_1. [An algorithm for the direct solution of a linear regression according to the L_1-norm criterion]
Saleh, A. K. Md. Ehsanes (*with* Han, Chien-Pai) Shrinkage estimation in regression analysis. **93c:62125**
Sarkar, Nityananda A new estimator combining the ridge regression and the restricted least squares methods of estimation. **93j:62183**
Sheather, Simon J. (*with* McKean, Joseph W.) The interpretation of residuals based on L_1 estimation. (English summary) (*see* **93k:62005**)
Shukla, Govind *see* **Chaturvedi, Anoop, 93e:62178**
Singh, Radhey S. James-Stein rule estimators in linear regression models with multivariate-t distributed error. **93b:62097**
Smadi, A. A. *see* **Ali, Mohamed Akkas, 93j:62182**
Srivastava, Anil K. (*with* Chandra, Ram) Improved estimation of restricted regression model when disturbances are not necessarily normal. (English summary) **93e:62179**
Srivastava, Virendra Kumar *see* **Dube, Madhulika; et al., 93b:62095**
Terzakis, Dimitris *see* **Criticou, Doukissa**
Toutenburg, H. *see* **Dube, Madhulika; et al., 93b:62095**
Wijekoon, P. *see* **Dube, Madhulika; et al., 93b:62095**
Wu, Yue Hua *see* **Chen, Xi Ru, (93b:60004)**
Zeng, Zhi Bin *see* **Chen, Shi Ji, 93k:62142**
Zhou, Guang Ya *see* **Lu, Chang Yu**

Items with secondary classifications in 62J07

Ali, Abdunnabi M. (*with* Saleh, A. K. Md. Ehsanes) Estimation of means and treatment effects in a one-way ANOVA model. **93b:62035**
Khattree, Ravindra *see* **Peddada, Shyamal Das, 93b:62038**
Peddada, Shyamal Das (*with* Khattree, Ravindra) Comparison of estimators of the location parameter using Pitman's closeness criterion. **93b:62038**
Saleh, A. K. Md. Ehsanes *see* **Ali, Abdunnabi M., 93b:62035**
Segerstedt, Bo On ordinary ridge regression in generalized linear models. (English summary) **93j:62185**
Yang, Ming Chung Ridge estimation of independent Poisson means under entropy loss. **93h:62007**

62J10 Analysis of variance and covariance

Boik, Robert J. A comparison of three invariant tests of additivity in two-way classifications with no replications. (English summary)
Chakraborti, S. (*with* Gibbons, Jean D.) Nonparametric comparison of treatments with a standard in the one-way layout: some design considerations. (English summary)
Cornelius, Paul L. *see* **Seyedsadr, Mahmoud, 93k:62144**
Cox, D. R. (*with* Wermuth, Nanny) On the calculation of derived variables in the analysis of multivariate responses. (English summary)
Das, Kalyan Improved estimation of the ratio of variance components for a balanced one-way random effects model. **93d:62129**
Donegani, M. A bootstrap adaptive test for two-way analysis of variance. (French summary)
Fabian, Václav On the problem of interactions in the analysis of variance. **93a:62101**
Gibbons, Jean D. *see* **Chakraborti, S.**
Graybill, Franklin A. *see* **Sen, Bhabesh; et al.**
Groenewald, P. C. N. *see* **van der Merwe, Abraham Johannes; et al., 93d:62131**
(Helland, Inge S.) *see* **Tjur, Tue, 93b:62098**
Kubáčková, Ludmila The locally best estimators of the first and second order parameters in epoch regression models. **93f:62097**
Levine, A. (*with* Liukkonen, J.; Levine, D. W.) Predicting power changes under transformations in ANOVA tests. **93f:62098**
Levine, D. W. *see* **Levine, A.; et al., 93f:62098**
Liukkonen, J. *see* **Levine, A.; et al., 93f:62098**
Mathew, Thomas[1] (*with* Sinha, Bimal Kumar) Exact and optimum tests in unbalanced split-plot designs under mixed and random models. **93d:62130**
— (*with* Sinha, Bimal Kumar; Sutradhar, Brajendra C.) Nonnegative estimation of variance components in unbalanced mixed models with two variance components. (English summary) **93f:62099**
van der Merwe, Abraham Johannes (*with* van der Merwe, C. A.; Groenewald, P. C. N.) Bayesian inferences on nonlinear functions of the parameters in linear regression. (English summary) **93d:62131**
van der Merwe, C. A. *see* **van der Merwe, Abraham Johannes; et al., 93d:62131**
Payne, R. W. (*with* Tobias, R. D.) General balance, combination of information and the analysis of covariance. **93g:62097**
Sen, Bhabesh (*with* Graybill, Franklin A.; Ting, Naitee) Confidence intervals on ratios of variance components for the unbalanced two factor nested model.
Sen, Kalipada Extension of ASD approach to WANOVA-F test criteria of RBD. (English summary)
Seyedsadr, Mahmoud (*with* Cornelius, Paul L.) Shifted multiplicative models for nonadditive two-way tables. (English summary) **93k:62144**
Shi, Lei (*with* Xiang, Ke Feng) Decomposition of sums of squares in unbalanced experimental designs and its application. (Chinese. English summary)
Singh, Bishwambhar A comparison of variance component estimators under unbalanced situations. (English summary)
Sinha, Bimal Kumar *see* **Mathew, Thomas[1], 93d:62130** *and* **93f:62099**
(Sundberg, Rolf) *see* **Tjur, Tue, 93b:62098**
Sutradhar, Brajendra C. *see* **Mathew, Thomas[1]; et al., 93f:62099**
Ting, Naitee *see* **Sen, Bhabesh; et al.**
Tjur, Tue Analysis of variance and design of experiments. **93b:62098**
Tobias, R. D. *see* **Payne, R. W., 93g:62097**
Toman, Blaza Bayesian robust experimental designs for the one-way analysis of variance. (English summary)
Vangel, Mark G. New methods for one-sided tolerance limits for a one-way balanced random-effects ANOVA model.
Vitale, Richard A. Covariances of symmetric statistics. **93f:62100**
Wermuth, Nanny *see* **Cox, D. R.**
Xiang, Ke Feng *see* **Shi, Lei**
Zhang, Zhiyi The robustness of ANOVA with respect to interactions in some orthogonal block designs. **93d:62132**
Zvára, Karel Analysis of variance as regression model with a reparametrization restriction. (English summary)

Items with secondary classifications in 62J10

Ahrens, Heinz J. (*with* Sánchez, Jesús E.) Imbalance and its influence on variance component estimation. (English summary)
Ali, Abdunnabi M. (*with* Saleh, A. K. Md. Ehsanes) Estimation of means and treatment effects in a one-way ANOVA model. **93b:62035**
Amemiya, Yasuo *see* **Anderson, T. W., 93d:62101**
Anderson, T. W. (*with* Amemiya, Yasuo) Testing dimensionality in the multivariate analysis of variance. **93d:62101**
Bai, Zhi Dong (*with* Rao, Calyampudi Radhakrishna; Yin, Yong Quan) Least absolute deviations analysis of variance. (English summary) **93d:62121**
Berger, James O. (*with* Bernardo, Jose M.) Reference priors in a variance components problem. (English summary) **93j:62076**
Bernardo, Jose M. *see* **Berger, James O., 93j:62076**
Brooks, R. J. *see* **Stone, Mervyn, 93h:62124**
Brunner, Edgar (*with* Dette, Holger) Rank procedures for the two-factor mixed model. (English summary) **93j:62126**
Casella, George *see* **Searle, Shayle R.; et al., 93m:62054**
Clarke, Brenton R. (*with* Godolphin, E. J.) Uncorrelated residuals and an exact test for two variance components in experimental design. (English summary) **93i:62058**
(Cleveland, William S.) *see* **Tukey, John W., 93a:01068**
(Cox, D. R.) *see* **Tukey, John W., 93a:01068**
Deo, Sheela S. *see* **Shah, K. R., 93a:62099**
Dette, Holger *see* **Brunner, Edgar, 93j:62126**
Fraser, D. A. S. (*with* Guttman, Irwin; Srivastava, M. S.) Conditional inference for treatment and error in multivariate analysis. **93c:62102**
Godolphin, E. J. *see* **Clarke, Brenton R., 93i:62058**
Gonzacenco, Florin (*with* Mărgăritescu, Eugen; Vodă, Viorel Gh.) Statistical consequences of some old and new algebraic inequalities. (English summary) **93k:60048**
Guttman, Irwin *see* **Fraser, D. A. S.; et al., 93c:62102**
Klonecki, Witold (*with* Zontek, Stefan) Admissible estimators of variance components obtained via submodels. (English summary) **93h:62047**
Liu, W. Simultaneous prediction intervals for all distances from the "best". (English summary)
Liu, Zhi Jun Bootstrapping one way analysis of Rao's quadratic entropy. **93a:62007**
Mărgăritescu, Eugen *see* **Gonzacenco, Florin; et al., 93k:60048**
Mathew, Thomas[1] (*with* Sinha, Bimal Kumar; Sutradhar, Brajendra C.) Improved estimation of error variance in general balanced mixed models. (English summary) **93h:62010**
McCulloch, Charles E. *see* **Searle, Shayle R.; et al., 93m:62054**
Monga (*with* Tardif, Serge) Validity of the F-ratio test for replicated Latin square designs under relaxed conditions. (English and French summaries) **93k:62159**
(Mosteller, Frederick) *see* **Tukey, John W., 93a:01068**
Öfversten, J. Exact tests for variance components in unbalanced mixed linear models. (English and French summaries) **93m:62155**
Rao, Calyampudi Radhakrishna *see* **Bai, Zhi Dong; et al., 93d:62121**
Saleh, A. K. Md. Ehsanes *see* **Ali, Abdunnabi M., 93b:62035**
Sánchez, Jesús E. *see* **Ahrens, Heinz J.**
Searle, Shayle R. (*with* Casella, George; McCulloch, Charles E.) ★ Variance components. **93m:62054**
Seifert, Burkhardt Exact tests in unbalanced mixed analysis of variance. **93c:62031**
Shah, K. R. (*with* Deo, Sheela S.) Missing plot technique in linear models. **93a:62099**
Shiraishi, Taka-aki Statistical inference based on aligned ranks for two-way MANOVA with interaction. **93c:62074**
Sinha, Bimal Kumar *see* **Mathew, Thomas[1]; et al., 93h:62010**
Srivastava, M. S. *see* **Fraser, D. A. S.; et al., 93c:62102**
Stephens, M. A. On Watson's ANOVA for directions. (English summary) (*see* **93b:62003**)
Stone, Mervyn (*with* Brooks, R. J.) Corrigendum: "Continuum regression: cross-validated sequentially constructed prediction embracing ordinary least squares, partial least squares and principal components regression" [J. Roy. Statist. Soc. Ser. B **52** (1990), no. 2, 237–269; MR 92c:62042]. **93h:62124**
Sutradhar, Brajendra C. *see* **Mathew, Thomas[1]; et al., 93h:62010**
Tardif, Serge *see* **Monga, 93k:62159**
Tukey, John W. ★ The collected works of John W. Tukey. Vol. VII. **93a:01068**
Vodă, Viorel Gh. *see* **Gonzacenco, Florin; et al., 93k:60048**
Yin, Yong Quan *see* **Bai, Zhi Dong; et al., 93d:62121**
Zontek, Stefan *see* **Klonecki, Witold, 93h:62047**

Items listed otherwise than by author

Bibliography:
Tukey, John W. *see* **Tukey, John W., 93a:01068**
Biography:
Tukey, John W. *see* **Tukey, John W., 93a:01068**

Collected Works:
Tukey, John W. *see* **Tukey, John W., 93a:01068**

62J12 Generalized linear models

Atkinson, Scott E. (*with* Wilson, Paul W.) The bias of bootstrapped versus conventional standard errors in the general linear and SUR models. (English summary) **93j:62184**
Christensen, Ronald (*with* Utts, Jessica) Testing for nonadditivity in log-linear and logit models. (English summary) **93m:62164**
Jansen, Johannes ★ Generalized linear mixed models and their application in plant breeding research. (English. English and Dutch summaries)
Jeong, Kwang Mo *see* **Lee, Kee-Won; et al.**
Kim, Choongrak *see* **Lee, Kee-Won; et al.**
Lee, Kee-Won (*with* Kim, Choongrak; Sohn, Keon Tae; Jeong, Kwang Mo) Bootstrapping generalized linear models with random regressors. (English summary)
Lee, Myoung-jae Winsorized mean estimator for censored regression. (English summary) **93m:62165**
Lu, Tian Hong (*with* Wang, Jing Long) Generalized linear models with additional parameters in link functions. (Chinese. Chinese summary)
Segerstedt, Bo On ordinary ridge regression in generalized linear models. (English summary) **93j:62185**
Sohn, Keon Tae *see* **Lee, Kee-Won; et al.**
Utts, Jessica *see* **Christensen, Ronald, 93m:62164**
Verbeek, Albert The compactification of generalized linear models. (English summary) **93j:62186**
Wang, Jing Long *see* **Lu, Tian Hong**
Wilson, Paul W. *see* **Atkinson, Scott E., 93j:62184**

Items with secondary classifications in 62J12

Chang, Yuan-chin Ivan (*with* Martinsek, Adam T.) Fixed size confidence regions for parameters of a logistic regression model. (English summary) **93k:62168**
Datta, Gauri Sankar Pitman closeness for hierarchical Bayes predictors in mixed linear models. **93d:62013**
Hu, Shu He A law of the iterated logarithm for double array sum of φ-mixing sequence. **93b:60065**
Ibrahim, Joseph G. (*with* Laud, Purushottam W.) On Bayesian analysis of generalized linear models using Jeffreys's prior. **93d:62045**
Jørgensen, Bent Finding rank leverage subsets in regression.
Laud, Purushottam W. *see* **Ibrahim, Joseph G., 93d:62045**
Martinsek, Adam T. *see* **Chang, Yuan-chin Ivan, 93k:62168**
Peng, Xiao Ning Penalized likelihood estimators for semiparametric generalized linear models. (Chinese. English and Chinese summaries)
Stępniak, Czesław Towards a notion of testability. (English summary) **93h:62033**
Whittaker, Joe ★ Graphical models in applied multivariate statistics. **93f:62002**
Zontek, Stefan Admissible estimators of variance components in normal mixed models. (English summary) **93k:62018**

62J15 Paired and multiple comparisons

El-Helbawy, Abdalla T. (*with* Hassan, Tawfik) Some direct methods for testing hypotheses in 2^n factorial paired comparison models. (English summary)
Hassan, Tawfik *see* **El-Helbawy, Abdalla T.**
Hayter, Anthony J. *see* **Hirotsu, Chihiro; et al., 93i:62063**
Hirotsu, Chihiro (*with* Kuriki, Satoshi; Hayter, Anthony J.) Multiple comparison procedures based on the maximal component of the cumulative chi-squared statistic. (English summary) **93i:62063**
Kuriki, Satoshi *see* **Hirotsu, Chihiro; et al., 93i:62063**

Items with secondary classifications in 62J15

Baksalary, Jerzy K. (*with* Pordzik, Paweł R.) Implied linear restrictions in the general Gauss-Markov model. **93c:62115**
Bernhard, Gudrun *see* **Hommel, Gerhard, (93k:62001)**
Bofinger, Eve (*with* Lewis, Gwenda J.) Two-stage procedures for multiple comparisons with a control. (English summary) **93k:62041**
— Multiple comparisons with "best" for multivariate normal populations. **93f:62030**
Carriere, Jacques (*with* Finster, Mark) Statistical theory for the ratio model of paired comparisons. (English summary)
Chang, Jane Y. (*with* Hsu, Jason C.) Optimal designs for multiple comparisons with the best. **93b:62099**
Chen, H. J. *see* **Ng, C. K.; et al., 93k:62206**
Cook, Wade D. (*with* Kress, Moshe) ★ Ordinal information and preference structures. **93j:90009**
Findley, David F. Counterexamples to parsimony and BIC. **93e:62061**
Finster, Mark *see* **Carriere, Jacques**
Hommel, Gerhard (*with* Bernhard, Gudrun) Multiple hypotheses testing. (English summary) (*see* **93k:62001**)
Hsu, Jason C. *see* **Chang, Jane Y., 93b:62099**
Hwang, Hyung-Tae *see* **Kim, Woo Chul, 93f:62006**
Kim, Woo Chul (*with* Hwang, Hyung-Tae) Empirical Bayesian multiple comparisons with the best. **93f:62006**
Kress, Moshe *see* **Cook, Wade D., 93j:90009**
Lam, Kin *see* **Ng, C. K.; et al., 93k:62206**
Lewis, Gwenda J. *see* **Bofinger, Eve, 93k:62041**
Naiman, Daniel Q. (*with* Wynn, Henry P.) Inclusion-exclusion-Bonferroni identities and inequalities for discrete tube-like problems via Euler characteristics. **93b:60035**
Ng, C. K. (*with* Lam, Kin; Chen, H. J.) Multiple comparison of exponential location parameters with the best under type II censoring. (English summary) **93k:62206**
Pordzik, Paweł R. *see* **Baksalary, Jerzy K., 93c:62115**
Wynn, Henry P. *see* **Naiman, Daniel Q., 93b:60035**

62J20 Diagnostics

Barrett, Bruce E. (*with* Ling, Robert F.) General classes of influence measures for multivariate regression. **93m:62166**
Carrillo-Gamboa, Olivia (*with* Gunst, Richard F.) Measurement-error-model collinearities. (English summary)
Carroll, Raymond J. (*with* Spiegelman, C. H.) Diagnostics for nonlinearity and heteroscedasticity in errors-in-variables regression.
Cook, R. Dennis *see* **Saint Laurent, Roy T., 93m:62167**
Gunst, Richard F. *see* **Carrillo-Gamboa, Olivia**
Kang, Eun Mee A study of a new statistic for detection of outliers and/or influential observations in regression diagnostics. (English and Korean summaries)
Kim, Y. H. *see* **Park, Sung Hyun; et al., 93f:62101**
Ling, Robert F. *see* **Barrett, Bruce E., 93m:62166**
McGilchrist, C. A. *see* **Tobing, H., 93m:62168**
Müller, Hans-Georg Goodness-of-fit diagnostics for regression models. **93g:62098**
Park, Sung Hyun (*with* Kim, Y. H.; Toutenburg, H.) Regression diagnostics for removing an observation with animating graphics. (English summary) **93f:62101**
Saint Laurent, Roy T. (*with* Cook, R. Dennis) Leverage and superleverage in nonlinear regression. (English summary) **93m:62167**
Spiegelman, C. H. *see* **Carroll, Raymond J.**
Tobing, H. (*with* McGilchrist, C. A.) Recursive residuals for multivariate regression models. (English summary) **93m:62168**
Toutenburg, H. *see* **Park, Sung Hyun; et al., 93f:62101**
Wu, Shi Yong *see* **Yu, Yi Liang**
Yang, Hu A kind of general influence measure on the linear weighted regression. (Chinese. English and Chinese summaries)
Yu, Yi Liang (*with* Wu, Shi Yong) The restricted Welsch-Kuh statistic and the restricted Cook distance. (Chinese. English and Chinese summaries)

Items with secondary classifications in 62J20

Belsley, David A. The degree of effective identification and a diagnostic measure for assessing it. (English summary) (*see* **93b:90009**)
Chen, Di[1] Selection of IVs based on the orthogonal regression design. (English and Chinese summaries)
Harrison, Jeff (*with* West, Mike) Dynamic linear model diagnostics. **93c:62148**
Huang, Rong Tan A comparative analysis of criteria for variable selection in linear regression models. (Chinese. English and Chinese summaries)
Jørgensen, Bent Finding rank leverage subsets in regression.
Ma, Yang Ming *see* **Wei, Bo Cheng**
Martin, Richard John Leverage, influence and residuals in regression models when observations are correlated.
Tsai, Chih-Ling (*with* Wu, Xi Zhi) Assessing local influence in linear regression models with first-order autoregressive or heteroscedastic error structure.
Wei, Bo Cheng (*with* Ma, Yang Ming) Parametric estimators and influence analysis for nonlinear exponential family regression models. (Chinese. English and Chinese summaries)
West, Mike *see* **Harrison, Jeff, 93c:62148**
Wu, Xi Zhi *see* **Tsai, Chih-Ling**

62J99 None of the above, but in this section

Diamond, Phil Least squares and maximum likelihood regression for fuzzy linear models. (English summary) (*see* **93k:62004**)
Ha, Ming Hu *see* **Wang, Xi Zhao**
Hinkelmann, Klaus *see* **Singh, Murari, 93k:62145**
Ishibuchi, Hisao (*with* Tanaka, Hideo) Fuzzy regression analysis using neural networks. (English summary)
Lee, Myoung-jae Median regression for ordered discrete response. **93e:62180**
Lindsey, J. K. (*with* Mersch, G.) Fitting and comparing probability distributions with log linear models.
Mersch, G. *see* **Lindsey, J. K.**
Morgenthaler, Stephan The bias of least squares polynomial interpolants. **93j:62187**
Sakawa, Masatoshi (*with* Yano, Hitoshi) Fuzzy linear regression analysis for fuzzy input-output data.
Singh, Murari (*with* Hinkelmann, Klaus) Distribution of genotypic correlation coefficient and its transforms for nonnormal populations. (English summary) **93k:62145**
Stepashko, V. S. Structural identification of predictive models under conditions of a planned experiment. (Russian. English, Russian and Ukrainian summaries)
Tanaka, Hideo *see* **Ishibuchi, Hisao**
Wang, Xi Zhao (*with* Ha, Ming Hu) Fuzzy linear regression analysis. (English summary)
Yano, Hitoshi *see* **Sakawa, Masatoshi**

Items with secondary classifications in 62J99

Bansal, Naveen K. On testing linear hypotheses on linear functional and structural relationships. **93d:62027**
Böhning, Dankmar Multinomial logistic regression algorithm. Supplement to: "Monotonicity of quadratic-approximation algorithms" [Ann. Inst. Statist. Math. **40** (1988), no. 4, 641–663; MR 90m:62045] by Böhning and B. G. Lindsay. **93e:62048**
Boldin, M. V. Testing hypotheses in linear control systems. (Russian) (*see* **93g:00022**)
Eubank, R. L. (*with* Speckman, P. L.) A bias reduction theorem with applications in nonparametric regression. **93d:62060**
Falk, Michael (*with* Reiss, Rolf-Dieter) Statistical inference for conditional curves: Poisson process approach. **93h:62075**
Gonzalez-Velasco, Miguel *see* **Molina Fernández, Manuel, 93e:62216**
(Lindsay, Bruce G.) *see* **Böhning, Dankmar, 93e:62048**
Malvestuto, F. M. Recognizing submodels of a loglinear model. (English summary) (*see* **93k:62002**)
Miyaoka, Etsuo *see* **Ukita, Yoshimasa; et al., 93b:62027**

Molina Fernández, Manuel (*with* Gonzalez-Velasco, Miguel) Modelization in *r*th order Markov chains with dependency on covariates. (English and Portuguese summaries) **93e:62216**
Noda, Kazuo *see* **Ukita, Yoshimasa; et al., 93b:62027**
Nowak, Eugen Identifiability in multivariate dynamic linear errors-in-variables models. (English summary) **93m:62220**
Pepe, Margaret Sullivan Inference using surrogate outcome data and a validation sample. (English summary) **93j:62074**
Reiss, Rolf-Dieter *see* **Falk, Michael, 93h:62075**
Salama, Ibrahim A. (*with* Sen, Pranab Kumar) Spherical uniformity and some characterizations of the Cauchy distribution. **93j:62036**
Sen, Pranab Kumar *see* **Salama, Ibrahim A., 93j:62036**
Severini, Thomas A. *see* **Staniswalis, Joan G., 93h:62096**
Speckman, P. L. *see* **Eubank, R. L., 93d:62060**
Staniswalis, Joan G. (*with* Severini, Thomas A.) Diagnostics for assessing regression models. **93h:62096**
Steigerwald, Douglas G. Adaptive estimation in time series regression models. (English summary) **93m:62201**
Stute, Winfried Conditional U-statistics. **93e:60048**
Ukita, Yoshimasa (*with* Noda, Kazuo; Miyaoka, Etsuo) UMP invariant tests for a generalized linear model. **93b:62027**
Zhang, Ping[1] Variable selection in nonparametric regression with continuous covariates. **93a:62071**

62Kxx Experimental design [see also 05Bxx]

Cochran, William G. (*with* Cox, Gertrude M.) ★ Experimental designs. **93c:62126**
Cox, D. R. ★ Planning of experiments. **93h:62126**
Cox, Gertrude M. *see* **Cochran, William G., 93c:62126**

62K05 Optimal designs

Abt, Markus Some exact optimal designs for linear covariance functions in one dimension. **93g:62099**
Bagchi, Sunanda (*with* Mukhopadhyay, A. C.; Sinha, Bikas Kumar) A search for optimal nested row-column designs. (English summary) **93e:62181**
Bellhouse, D. R. *see* **Lawry, K. A., 93m:62173**
van Berkum, E. E. M. *see* **Jansen, Johannes; et al.**
Bischoff, Wolfgang On exact D-optimal designs for regression models with correlated observations. (English summary) **93h:62127**
Ceranka, Bronisław (*with* Katulska, Krystyna) Relations between optimum chemical balance weighing designs for v and $v+1$ objects. **93a:62102**
— (*with* Katulska, Krystyna) Optimum biased spring balance weighing designs with nonhomogeneity of the variances of errors. **93f:62102**
Chan, Ling-Yau D-optimal design for a quadratic log contrast model for experiments with mixtures. (English summary)
Chang, Jane Y. (*with* Hsu, Jason C.) Optimal designs for multiple comparisons with the best. **93b:62099**
Chatterjee, Banibarna *see* **Das, Premadhis**
Ch'ên, Chih Jung (*with* Yao, Ching Hsing) A-optimal estimation for $2^d \times 3^m$ factorial experiment utilizing the 2^n or 3^n orthogonal design. **93b:62100**
Chernov, N. I. (*with* Ososkov, G. A.; Pronzato, L.) 3-dimensional multivertex reconstruction from 2-dimensional tracks observations using likelihood inference. (English summary) **93f:62103**
Collombier, D. Generally optimal main-effect fractions of $u \times v$ designs with $u+v$ units. (English summary) **93m:62169**
Cooray-Wijesinha, Manel (*with* Khuri, André I.) Robust designs for first-order multiple design multivariate models. **93c:62127**
— Optimal designs to improve the power of multiresponse hypothesis tests. (English summary) **93k:62146**
Das, Ashish (*with* Gupta, Vinod Kumar; Das, Praggya) E-optimal block designs under heteroscedastic model. **93a:62103**
— (*with* Dey, A.) Universal optimality and nonoptimality of some row-column designs. **93j:62188**
— *see also* **Shah, K. R., 93h:62129**
Das, Praggya *see* **Das, Ashish; et al., 93a:62103**
Das, Premadhis (*with* Chatterjee, Banibarna) Optimal design within the class of equal group incomplete orthogonal arrays. (English summary)
DasGupta, Anirban (*with* Studden, W. J.) Robust Bayesian experimental designs in normal linear models. **93e:62182**
DeFeo, Patrick (*with* Myers, Raymond H.) A new look at experimental design robustness. (English summary)
Dette, Holger Optimal designs for a class of polynomials of odd or even degree. **93b:62101**
— Experimental designs for a class of weighted polynomial regression models. (English summary) **93k:62147**
Dey, A. *see* **Das, Ashish, 93j:62188**
Douven, R. C. M. H. *see* **Jansen, Johannes; et al.**
Duan, Xiao Dong (*with* Zhu, Wei Yong) D-optimal symmetric designs and an algorithm for mixture experiments and its application. (Chinese. English and Chinese summaries)
Duthie, A. I. A class of E-optimal hypercubic designs. (English summary) **93m:62170**
El-Krunz, Sadi M. (*with* Studden, W. J.) Bayesian optimal designs for linear regression models. **93a:62104**
Gupta, Vinod Kumar (*with* Singh, Rajeshwar) Characterizations and construction of E-optimal block designs. (English summary) **93e:62183**
— *see also* **Das, Ashish; et al., 93a:62103** *and* **Singh, Rajeshwar, 93e:62187**
Haines, Linda M. Optimal design for inverse quadratic polynomials. (English summary) **93j:62189**
Heiligers, Berthold Admissibility of experimental designs in linear regression with constant term. **93d:62133**
— Admissible experimental designs in multiple polynomial regression. **93h:62128**
— (*with* Schneider, Klaus) Invariant admissible and optimal designs in cubic regression on the ν-ball. **93m:62171**
— *see also* **Mandal, Nripes Kumar, 93g:62100**
Hoang, Thanh (*with* Seeger, Alberto) On conjugate functions, subgradients, and directional derivatives of a class of optimality criteria in experimental design. **93b:62102**
Hsu, Jason C. *see* **Chang, Jane Y., 93b:62099**
Huda, S. On some D_3-optimal designs in spherical regions. **93d:62134**
Jacroux, Michael A note on the E-optimality of block designs. **93d:62135**
— On the A-optimality of block designs. (English summary) **93i:62064**
Jansen, Johannes (*with* Douven, R. C. M. H.; van Berkum, E. E. M.) An annealing algorithm for searching optimal block designs. (English summary)
Jones, Byron (*with* Kunert, J.; Wynn, Henry P.) Information matrices for mixed effects models with applications to the optimality of repeated measurements designs. (English summary) **93m:62172**
Katulska, Krystyna *see* **Ceranka, Bronisław, 93a:62102** *and* **93f:62102**
Khuri, André I. *see* **Cooray-Wijesinha, Manel, 93c:62127**
Kozlov, Viktor Pavlovich (*with* Sedunov, E. V.) Optimization of multiplex measurement systems taking into account statistical fluctuations in the signal. (Russian. English and Ukrainian summaries)
Krafft, Olaf (*with* Schaefer, Martin) D-optimal designs for a multivariate regression model. (English summary) **93j:62190**
Kunert, J. *see* **Jones, Byron; et al., 93m:62172**
Lawry, K. A. (*with* Bellhouse, D. R.) Relative efficiency of certain randomization procedures in an $n \times n$ array when spatial correlation is present. (English summary) **93m:62173**
Lim, Yong B. Exact D_3-efficient designs for quadratic response surface model.
— D-optimal design in polynomial spline regression. (Korean summary) **93b:62103**
Llosa, R. *see* **Velilla Cerdán, Santiago, 93k:62150**
Mandal, Nripes Kumar (*with* Shah, K. R.; Sinha, Bikas Kumar) Uncertain resources and optimal designs: problems and perspectives. **93e:62184**
— (*with* Heiligers, Berthold) Minimax designs for estimating the optimum point in a quadratic response surface. **93g:62100**
Masaro, Joseph C. *see* **Wong, Chi Song, 93j:62191**
Matthews, J. N. S. Optimal dual-balanced two-treatment crossover designs. (English summary)
Miller, Alan J. *see* **Nguyen, Nam-Ky**
Morgan, John P. (*with* Uddin, Nizam) Two-dimensional design for correlated errors. **93f:62104**
— *see also* **Uddin, Nizam, 93c:62128** *and* **93d:62136**
Mukerjee, Rahul (*with* Saha, G. M.) Some optimality results on efficiency-balanced designs. (English summary) **93e:62185**
— (*with* Shah, K. R.; Sinha, Bikas Kumar) E-optimal minimally connected block designs under mixed effects model. (English summary) **93k:62148**
Mukhopadhyay, A. C. *see* **Bagchi, Sunanda; et al., 93e:62181**
Myers, Raymond H. *see* **DeFeo, Patrick**
Myszka, Wojciech *see* **Rafajłowicz, Ewaryst, 93k:62149** *and* **(93a:60004)**
Nguyen, Nam-Ky (*with* Miller, Alan J.) A review of some exchange algorithms for constructing discrete D-optimal designs. (English summary)
Ososkov, G. A. *see* **Chernov, N. I.; et al., 93f:62103**
Park, Sung Hyun *see* **Yoo, Jeong B., 93j:62193**
Pohl, Gerhardt M. D-optimality of the dual of BIB designs.
Pronzato, L. *see* **Chernov, N. I.; et al., 93f:62103**
Pukelsheim, Friedrich (*with* Torsney, Ben) Optimal weights for experimental designs on linearly independent support points. **93e:62186**
— (*with* Rieder, Sabine) Efficient rounding of approximate designs. (English summary)
Rafajłowicz, Ewaryst (*with* Myszka, Wojciech) Computational algorithm for generating optimum experimental designs on a hypercube. (*see* **93a:60004**)
— (*with* Myszka, Wojciech) When product type experimental design is optimal? Brief survey and new results. (English summary) **93k:62149**
Rieder, Sabine *see* **Pukelsheim, Friedrich**
Saha, G. M. *see* **Mukerjee, Rahul, 93e:62185**
Sanchez, J. *see* **Velilla Cerdán, Santiago, (93g:62001)**
Sathe, Y. S. *see* **Shenoy, R. G., 93h:62130**
Schaefer, Martin *see* **Krafft, Olaf, 93j:62190**
Schneider, Klaus *see* **Heiligers, Berthold, 93m:62171**
Sedunov, E. V. *see* **Kozlov, Viktor Pavlovich**
Seeger, Alberto *see* **Hoang, Thanh, 93b:62102**
Shah, K. R. (*with* Das, Ashish) Binary designs are not always the best. (English and French summaries) **93h:62129**
— *see also* **Mandal, Nripes Kumar; et al., 93e:62184** *and* **Mukerjee, Rahul; et al., 93k:62148**
Shenoy, R. G. (*with* Sathe, Y. S.) Some E-optimal weighing designs when $N \equiv 2, 3 \pmod 4$. (English summary) **93h:62130**
Singh, Rajeshwar (*with* Gupta, Vinod Kumar) E-optimal designs for two-way elimination of heterogeneity. (English summary) **93e:62187**
— *see also* **Gupta, Vinod Kumar, 93e:62183**
Sinha, Bikas Kumar *see* **Bagchi, Sunanda; et al., 93e:62181**; **Mandal, Nripes Kumar; et al., 93e:62184** *and* **Mukerjee, Rahul; et al., 93k:62148**
Sitter, R. R. Robust designs for binary data. (English and French summaries)
Spruill, M. C. Good designs for testing the degree of a polynomial mean. (English summary) **93e:62188**
Spurrier, John D. Optimal designs for comparing the variances of several treatments with that of a standard treatment. (English summary) **93e:62189**
Studden, W. J. *see* **El-Krunz, Sadi M., 93a:62104** *and* **DasGupta, Anirban, 93e:62182**
Stufken, John Bayes A-optimal and efficient block designs for comparing test treatments with a standard treatment. **93f:62105**
Torsney, Ben *see* **Pukelsheim, Friedrich, 93e:62186**
Uddin, Nizam (*with* Morgan, John P.) Optimal and near optimal sets of Latin squares for correlated errors. **93d:62136**

— (*with* Morgan, John P.) Optimal block designs with maximum blocksize and minimum replication constraints. **93c:62128**
— *see also* **Morgan, John P., 93f:62104**
Velilla Cerdán, Santiago (*with* Sanchez, J.) Optimal design for the estimation of the Z-resonance parameters. (English summary) (*see* **93g:62001**)
— (*with* Llosa, R.) A result in optimal design with application in particle physics. **93k:62150**
Vila, J.-P. Local optimality of replications from a minimal D-optimal design in regression: a sufficient and quasi-necessary condition. **93b:62104**
Wiens, Douglas P. Designs for approximately linear regression: two optimality properties of uniform designs. **93b:62105**
— Minimax designs for approximately linear regression. **93h:62131**
Wong, Chi Song (*with* Masaro, Joseph C.) Optimality properties of A-optimal designs. (Chinese. English summary) **93j:62191**
Wong, Weng Kee A unified approach to the construction of minimax designs. (English summary) **93j:62192**
Wynn, Henry P. *see* **Jones, Byron; et al., 93m:62172**
Yao, Ching Hsing *see* **Ch'ên, Chih Jung, 93b:62100**
Yoo, Jeong B. (*with* Park, Sung Hyun) Robust designs to outliers for response surface experiments. **93j:62193**
Zhu, Wei Yong *see* **Duan, Xiao Dong**

Items with secondary classifications in 62K05

Adhikary, Basudeb (*with* Das, Premadhis) A study of efficiency of proportional frequency plans. (English summary) **93e:62195**
Anderson, Donald A. *see* **Krehbiel, Timothy C., 93e:62199**
Bagchi, Bhaskar (*with* Bagchi, Sunanda; Mukhopadhyay, A. C.) Covering morphisms between nets. **93f:05014**
Bagchi, Sunanda *see* **Bagchi, Bhaskar; et al., 93f:05014**
Baksalary, Jerzy K. (*with* Styan, George P. H.) Around a formula for the rank of a matrix product with some statistical applications. (English summary) **93m:15001**
Benhenni, Karim (*with* Cambanis, Stamatis) Sampling designs for estimating integrals of stochastic processes. **93e:60074**
Cambanis, Stamatis *see* **Benhenni, Karim, 93e:60074**
Chen, Jia Hua (*with* Wu, C.-F. J.) Some results on s^{n-k} fractional factorial designs with minimum aberration or optimal moments. **93a:62108**
— Some results on 2^{n-k} fractional factorial designs and search for minimum aberration designs. (English summary) **93m:62177**
Das, Premadhis *see* **Adhikary, Basudeb, 93e:62195**
Eccleston, John A. *see* **Saunders, Ian W., 93k:62160**
Farmakis, Nikos On constructibility of A-optimal weighing designs $(n, k, 5)$, when $n \equiv 3 \pmod 4$ and $k = n - 1, n$. (English summary) **93k:62153**
Huda, S. (*with* Mukerjee, Rahul) Further results on optimal designs with circular string property. (English summary) **93m:62178**
Kageyama, Sanpei *see* **Sinha, Kishore, 93h:62137**
Krehbiel, Timothy C. (*with* Anderson, Donald A.) Optimal fractional factorial designs for estimating interactions of one factor with all others: 3^m series. **93e:62199**
Morgenthaler, Stephan The bias of least squares polynomial interpolants. **93j:62187**
Mukerjee, Rahul *see* **Huda, S., 93m:62178**
Mukhopadhyay, A. C. *see* **Bagchi, Bhaskar; et al., 93f:05014**
Notz, William I. *see* **Wei, Feifei, 93j:62195**
Saunders, Ian W. (*with* Eccleston, John A.) Experimental design for continuous processes. (English summary) **93k:62160**
Schwabe, Rainer Adaptive design in the one-way layout. **93d:62144**
Sinha, Kishore (*with* Kageyama, Sanpei) Constructions of some E-optimal 3-concurrence most balanced designs. **93h:62137**
Styan, George P. H. *see* **Baksalary, Jerzy K., 93m:15001**
Wei, Feifei (*with* Notz, William I.) D-optimal weighing designs and optimal chemical balance weighing designs for estimating the total weight. **93j:62195**
Wu, C.-F. J. *see* **Chen, Jia Hua, 93a:62108**

62K10 Block designs

Adhikary, Basudeb (*with* Saha, Tapas Kumar) Construction and combinatorial problems of higher associate cyclic PBIB designs. **93k:62151**
Agarwal, S. C. (*with* Das, M. N.) Incomplete block designs for partial diallel cross. (English summary)
Baksalary, Jerzy K. (*with* Hauke, Jan) Minimum number of experimental units in connected block designs with certain additional properties. **93m:62174**
Bhimani, G. C. *see* **Ghosh, Dilip Kumar**
Bhuyan, K. C. (*with* Miah, A. B. M. A. S.) A group of randomized block designs with a heteroscedastic model. (English summary)
Brzeskwiniewicz, H. Latent roots and off-diagonal elements of the association matrix in PBIB designs and the number of associate classes. (English summary) **93h:62132**
— On the basic contrasts in PBIB designs. (English summary) **93i:62065**
Chopra, D. V. Further investigations on balanced arrays. **93e:62190**
Cohen, Arthur *see* **Zhang, Zhiyi, 93h:62138**
Das, Ashish Some second order response surface designs in equal sized blocks. (English summary) **93k:62152**
Das, M. N. *see* **Ghosh, Dilip Kumar; Agarwal, S. C.** *and* **Jain, Ratan Chandra**
De, Anup K. (*with* Roy, Bimal K.) Computer construction of some group divisible designs. (English summary)
Dean, Angela M. *see* **Lin, Meily, 93f:62106** *and* **Park, Dong-kwon, 93i:62066**
Deo, Sheela S. Analysis of RBD with missing observations. (Hindi summary)
Divecha, Jyoti *see* **Ghosh, Dilip Kumar; et al., 93d:62137**
Draper, Norman R. *see* **Lin, Dennis K. J.**
Farmakis, Nikos On constructibility of A-optimal weighing designs $(n, k, 5)$, when $n \equiv 3 \pmod 4$ and $k = n - 1, n$. (English summary) **93k:62153**
Fujii, Yoshio *see* **Yamamoto, Sumiyasu; et al., 93k:62158** *and* **93m:62176**
Gandhi Prasad, N. S. *see* **Gupta, Vinod Kumar**
García Ben, Marta (*with* Yohai, Víctor J.) Robust analysis of variance for a randomized block design. **93h:62133**
Ghosh, Dilip Kumar (*with* Das, M. N.) Construction of two way group divisible designs. (English summary)
— (*with* Bhimani, G. C.) Note on some new singular group divisible designs. (English summary)
— (*with* Divecha, Jyoti; Kageyama, Sanpei) Equireplicate variance-balanced designs from group divisible designs. **93d:62137**
Goswami, Kalyan Kumar *see* **Pal, Satyabrata, 93m:62175**
Gupta, L. R. *see* **Puri, P. D.**
Gupta, Vinod Kumar (*with* Gandhi Prasad, N. S.) On construction of general efficiency balanced block designs. (English summary)
— (*with* Srivastava, Rakesh) Investigations on robustness of block designs against missing observations. (English summary) **93h:62134**
Hauke, Jan *see* **Baksalary, Jerzy K., 93m:62174**
Heiligers, Berthold A note on connectedness of block designs. **93b:62106**
Hyodo, Yoshifumi *see* **Yamamoto, Sumiyasu; et al., 93k:62158** *and* **93m:62176**
Jain, Ratan Chandra (*with* Das, M. N.) Efficiency balanced block designs using orthogonal arrays with variable symbols. (English summary)
Johnson, Dallas E. *see* **Weerakkody, Govinda J., 93k:62157**
Kageyama, Sanpei On two efficiency factors of a proper block design. **93b:62107**
— *see also* **Sinha, Kishore, 93a:62106; Ghosh, Dilip Kumar; et al., 93d:62137; Sinha, Kishore, 93h:62137** *and* **Matsumoto, Tetsuya**
Kanjo, Anis I. Improving estimates in P.B.I.B. designs. **93d:62138**
Katyal, Vijay (*with* Pal, Satyabrata) Analysis and connectedness of four-dimensional designs. (Hindi summary) **93c:62129**
Khuri, André I. Blocking with rotatable designs. (English summary) **93k:62154**
Kim, Kwanghun *see* **Stufken, John, 93d:62139**
Kobilinsky, A. (*with* Monod, H.) Experimental design generated by group morphisms: an introduction. **93e:62191**
Lin, Dennis K. J. (*with* Draper, Norman R.) Generating alias relationships for two-level Plackett and Burman designs. (English summary)
Lin, Meily (*with* Dean, Angela M.) Trend-free block designs for varietal and factorial experiments. **93f:62106**
Mahmoodian, Ebadollah S. (*with* Rostam Abadi, Mohammad B.) A computer algorithm for generating 3-designs by the method of trade off. (English summary)
Matsumoto, Tetsuya (*with* Kageyama, Sanpei) A parametric characterization of semi-regular GD designs. (English summary)
Miah, A. B. M. A. S. *see* **Bhuyan, K. C.**
Monod, H. *see* **Kobilinsky, A., 93e:62191**
Murthy, M. S. Ramachandra (*with* Murty, J. S.) Block designs for mixture experiments. (English and Hindi summaries) **93j:62194**
Murty, J. S. *see* **Murthy, M. S. Ramachandra, 93j:62194**
Narasimham, V. L. *see* **Victorbabu, B. Re., 93a:62107**
Notz, William I. *see* **Wei, Feifei, 93j:62195**
Owen, Art B. Orthogonal arrays for computer experiments, integration and visualization. (English summary) **93h:62135**
Pal, S. N. (*with* Pal, Satyabrata) A note on resistancy of variance balanced nonproper designs. **93a:62105**
Pal, Satyabrata (*with* Goswami, Kalyan Kumar) A new class of Latin square type PBIB designs. (English summary) **93m:62175**
— *see also* **Pal, S. N., 93a:62105** *and* **Katyal, Vijay, 93c:62129**
Park, Dong-kwon (*with* Dean, Angela M.) Structurally incomplete row-column designs with adjusted orthogonality. (English summary) **93i:62066**
Ponnuswamy, K. N. (*with* Subbarayan, A.) Construction of partial triallel mating designs and estimation of variance components. **93c:62130**
— (*with* Srinivasan, M. R.) Construction of partial triallel crosses (PTC) using a class of balanced incomplete block designs (BIBD). **93b:62108**
Puri, P. D. (*with* Gupta, L. R.) Supplemented designs for parallel line bio-assays. (English summary)
Rizwi, S. K. H. *see* **Tyagi, B. N., 93k:62156**
Rostam Abadi, Mohammad B. *see* **Mahmoodian, Ebadollah S.**
Roy, Bimal K. *see* **De, Anup K.**
Saha, Tapas Kumar *see* **Adhikary, Basudeb, 93k:62151**
Sastry, D. V. S. A series of group divisible designs. **93b:62109**
Satam, Meena R. *see* **Sathe, Y. S., 93e:62192**
Sathe, Y. S. (*with* Satam, Meena R.) Some more robust block designs against the unavailability of data. **93e:62192**
Siatkowski, Idzi A condition of balance in a connected block design. (English summary) **93h:62136**
Sinha, Kishore (*with* Kageyama, Sanpei) Equiblock-sized efficiency-balanced designs. **93a:62106**
— Construction of semi-regular group divisible designs. (English summary) **93f:62107**
— Construction of balanced treatment incomplete block designs. **93e:62193**
— (*with* Kageyama, Sanpei) Constructions of some E-optimal 3-concurrence most balanced designs. **93h:62137**
Sreenath, P. R. Construction of balanced incomplete block designs with nested rows and columns through the method of differences. (English summary)
Srinivasan, M. R. *see* **Ponnuswamy, K. N., 93b:62108**
Srivastava, Rakesh *see* **Gupta, Vinod Kumar, 93h:62134**
Street, Deborah J. A note on strongly equineighboured designs. **93k:62155**
Stufken, John (*with* Kim, Kwanghun) Optimal group divisible treatment designs for comparing a standard treatment with test treatments. **93d:62139**
Subbarayan, A. *see* **Ponnuswamy, K. N., 93c:62130**
Subramani, J. Some series of rectangular designs. (English and Hindi summaries)
Tyagi, B. N. (*with* Rizwi, S. K. H.) Efficiency-/partially-efficiency-balanced block designs through difference sets. (English summary) **93k:62156**
Victorbabu, B. Re. (*with* Narasimham, V. L.) Construction of second order slope rotatable designs through balanced incomplete block designs. **93a:62107**

— (*with* Narasimham, V. L.) Construction of second order slope rotatable designs through a pair of incomplete block designs. (Hindi summary)
Weerakkody, Govinda J. A note on the recovery of inter-block information in balanced incomplete block designs.
— (*with* Johnson, Dallas E.) Estimation of within model parameters in regression models with a nested error structure. (English summary) **93k:62157**
Wei, Feifei (*with* Notz, William I.) *D*-optimal weighing designs and optimal chemical balance weighing designs for estimating the total weight. **93j:62195**
Yamamoto, Sumiyasu (*with* Fujii, Yoshio; Hyodo, Yoshifumi; Yumiba, Hiromu) Classification of two-symbol orthogonal arrays of strength 2, size 20 and 19 (maximal) constraints. (English summary) **93k:62158**
— (*with* Fujii, Yoshio; Hyodo, Yoshifumi; Yumiba, Hiromu) Classification of two-symbol orthogonal arrays of strength 2, size 16, 15 (maximal) constraints and index 4. **93m:62176**
Yohai, Víctor J. *see* **García Ben, Marta, 93h:62133**
Yumiba, Hiromu *see* **Yamamoto, Sumiyasu; et al., 93k:62158** *and* **93m:62176**
Zhang, Zhiyi (*with* Cohen, Arthur) Recovery of information in BIBDs with interaction. **93h:62138**
— Recovery tests in BIBDs with very small degrees of freedom for interblock errors. (English summary) **93j:62196**
— A spectral form of the dispersion model in designs with arbitrarily unequal block sizes. (English summary)

Items with secondary classifications in 62K10

Bagchi, Sunanda (*with* Mukhopadhyay, A. C.; Sinha, Bikas Kumar) A search for optimal nested row-column designs. (English summary) **93e:62181**
Banerjee, Shakti *see* **Kageyama, Sanpei; et al.**
Bellhouse, D. R. *see* **Lawry, K. A., 93m:62173**
Das, Ashish *see* **Shah, K. R., 93h:62129**
Goswami, Kalyan Kumar *see* **Pal, Satyabrata; et al., 93d:05021**
Gupta, Vinod Kumar *see* **Singh, Rajeshwar, 93e:62187**
Hedayat, A. S. (*with* Pesotan, H.) Coexistence of a family of systematic sampling designs with positive second order inclusion probabilities and block designs. (English summary) **93m:62032**
(Helland, Inge S.) *see* **Tjur, Tue, 93b:62098**
Jacroux, Michael A note on the *E*-optimality of block designs. **93d:62135**
— On the *A*-optimality of block designs. (English summary) **93i:62064**
Jones, Byron (*with* Kunert, J.; Wynn, Henry P.) Information matrices for mixed effects models with applications to the optimality of repeated measurements designs. (English summary) **93m:62172**
Kageyama, Sanpei (*with* Banerjee, Shakti; Verma, Arvind) A construction of self complementary semi-regular group divisible designs. (English summary)
Kestenband, Barbu C. New families of balanced incomplete block designs with block size $q + 1$. **93c:05022**
Kunert, J. *see* **Jones, Byron; et al., 93m:62172**
Lawry, K. A. (*with* Bellhouse, D. R.) Relative efficiency of certain randomization procedures in an $n \times n$ array when spatial correlation is present. (English summary) **93m:62173**
Majumdar, Anurup *see* **Pal, Satyabrata; et al., 93d:05021**
Mandal, Nripes Kumar (*with* Shah, K. R.; Sinha, Bikas Kumar) Uncertain resources and optimal designs: problems and perspectives. **93e:62184**
Monga *see* **Tardif, Serge, 93m:62115**
Morgan, John P. *see* **Uddin, Nizam, 93c:62128**
Mukerjee, Rahul (*with* Saha, G. M.) Some optimality results on efficiency-balanced designs. (English summary) **93e:62185**
— (*with* Shah, K. R.; Sinha, Bikas Kumar) *E*-optimal minimally connected block designs under mixed effects model. (English summary) **93k:62148**
Mukhopadhyay, A. C. *see* **Bagchi, Sunanda; et al., 93e:62181**
Nair, C. R. Serially balanced sequences. **93f:62110**
Pal, Satyabrata (*with* Goswami, Kalyan Kumar; Majumdar, Anurup) On the construction of some new series of PBIB designs and some new series of OAVS of strength two. **93d:05021**
Penlidis, A. *see* **Phatak, A.; et al., 93e:62173**
Pesotan, H. *see* **Hedayat, A. S., 93m:62032**
Phatak, A. (*with* Reilly, P. M.; Penlidis, A.) The geometry of 2-block partial least squares regression. **93e:62173**
Reilly, P. M. *see* **Phatak, A.; et al., 93e:62173**
Saha, G. M. *see* **Mukerjee, Rahul, 93e:62185**
Shah, K. R. (*with* Das, Ashish) Binary designs are not always the best. (English and French summaries) **93h:62129**
— *see also* **Mandal, Nripes Kumar; et al., 93e:62184** *and* **Mukerjee, Rahul; et al., 93k:62148**
Singh, Rajeshwar (*with* Gupta, Vinod Kumar) *E*-optimal designs for two-way elimination of heterogeneity. (English summary) **93e:62187**
Sinha, Bikas Kumar *see* **Bagchi, Sunanda; et al., 93e:62181**; **Mandal, Nripes Kumar; et al., 93e:62184** *and* **Mukerjee, Rahul; et al., 93k:62148**
Stufken, John Bayes *A*-optimal and efficient block designs for comparing test treatments with a standard treatment. **93f:62105**
Subbarayan, A. On the maximum number of matching triples of mutually orthogonal Latin squares with diagonals in natural order. (English summary) **93i:05034**
Subramani, J. Noniterative least squares estimation of missing values in replicated Latin square designs. (English summary) **93h:62142**
(Sundberg, Rolf) *see* **Tjur, Tue, 93b:62098**
Tardif, Serge (*with* Monga) Decomposition of a random matrix into stochastically orthogonal components with an application. (English summary) **93m:62115**
Tjur, Tue Analysis of variance and design of experiments. **93b:62098**
Uddin, Nizam (*with* Morgan, John P.) Optimal block designs with maximum blocksize and minimum replication constraints. **93c:62128**
Verma, Arvind *see* **Kageyama, Sanpei; et al.**
Wynn, Henry P. *see* **Jones, Byron; et al., 93m:62172**

62K15 Factorial designs

Adhikary, Basudeb (*with* Saha, Tapas Kumar) On intereffect orthogonal designs. **93e:62194**
— (*with* Das, Premadhis) A study of efficiency of proportional frequency plans. (English summary) **93e:62195**
— (*with* Panda, Rajendranath) Sequential method of conducting rotatable designs. (English summary)
Anderson, Donald A. *see* **Krehbiel, Timothy C., 93e:62199**
Arora, Sanjay *see* **Srivastava, Jagdish N., 93c:62131**
Bailey, R. A. (*with* Cheng, Ching-Shui; Kipnis, Patricia) Construction of trend-resistant factorial designs. (English summary) **93j:62197**
Bhatt, A. B. *see* **Ghosh, Dilip Kumar**
Bourghawi, Suad M. *see* **Dash, S. P.; et al.**
Chatterjee, Kashinath Search designs for searching three-factor interaction effects in the general symmetric and asymmetric factorials. (English summary) **93j:62198**
Chen, Jia Hua (*with* Wu, C.-F. J.) Some results on s^{n-k} fractional factorial designs with minimum aberration or optimal moments. **93a:62108**
— Some results on 2^{n-k} fractional factorial designs and search for minimum aberration designs. (English summary) **93m:62177**
Cheng, Ching-Shui *see* **Bailey, R. A.; et al., 93j:62197**
Das, Premadhis *see* **Adhikary, Basudeb, 93e:62195**
Dash, S. P. (*with* Bourghawi, Suad M.; El-Amaari, Ali) Randomization analysis of incomplete data in some basic designs. (English summary)
Dong, Fang On the identification of active contrasts in unreplicated fractional factorials. (English summary)
Duh, Yi-Jing *see* **Ghosh, Subir, 93d:62140**
Eccleston, John A. *see* **Saunders, Ian W., 93k:62160**
Edmondson, R. N. Systematic row-and-column designs balanced for low order polynomial interactions between rows and columns. (English summary)
El-Amaari, Ali *see* **Dash, S. P.; et al.**
Ghosh, Dilip Kumar (*with* Bhatt, A. B.) Construction of orthogonal main effect plans. (English summary)
Ghosh, Subir (*with* Duh, Yi-Jing) Adjusting residuals in estimation of dispersion effects. **93d:62140**
Goswami, Kalyan Kumar (*with* Pal, Satyabrata) On the construction of orthogonal factorial designs of resolution IV. (English summary) **93i:62067**
Gupta, Bhisham Chand Some results on main effect plus one plans for 2^m factorials. **93d:62141**
— On the existence of main effect plus k plans for 2^m factorials and tables for main effect plus 1 and 2 plans for 2^7 factorials. **93e:62196**
Huda, S. (*with* Mukerjee, Rahul) Further results on optimal designs with circular string property. (English summary) **93m:62178**
Hveberg, Ranoo *see* **Srivastava, Jagdish N.**
Hyodo, Yoshifumi Characteristic polynomials of information matrices of some balanced fractional 2^m factorial designs of resolution $2l + 1$. **93h:62139**
Jacroux, Michael (*with* Saha Ray, Rita) Run orders of trend resistant 2-level factorial designs. (English summary) **93e:62197**
— A note on the determination and construction of minimal orthogonal main-effect plans. **93b:62110**
— On the construction of minimal partially replicated orthogonal main-effect plans. (English summary)
Khuri, André I. Diagnostic results concerning a measure of rotatability. **93e:62198**
Kim, Sang-Ik Minimal balanced 2^l fractional factorial designs of resolution V and Taguchi method. (English and Korean summaries) **93h:62140**
Kipnis, Patricia *see* **Bailey, R. A.; et al., 93j:62197**
Krehbiel, Timothy C. (*with* Anderson, Donald A.) Optimal fractional factorial designs for estimating interactions of one factor with all others: 3^m series. **93e:62199**
Monga (*with* Tardif, Serge) Validity of the F-ratio test for replicated Latin square designs under relaxed conditions. (English and French summaries) **93k:62159**
Mukerjee, Rahul *see* **Huda, S., 93m:62178**
Pal, Satyabrata *see* **Goswami, Kalyan Kumar, 93i:62067**
Panda, Rajendranath *see* **Adhikary, Basudeb**
Riebschläger, M. (*with* Wilrich, P.-Th.) An algorithm for the construction of orthogonal factorial designs. (*see* **93i:62002**)
Saha, Tapas Kumar *see* **Adhikary, Basudeb, 93e:62194**
Saha Ray, Rita *see* **Jacroux, Michael, 93e:62197**
Saunders, Ian W. (*with* Eccleston, John A.) Experimental design for continuous processes. (English summary) **93k:62160**
Shirakura, Teruhiro (*with* Tazawa, Shinsei) Series of main effect plus one or two plans for 2^m factorials when three-factor and higher order interactions are negligible. **93b:62111**
— (*with* Tazawa, Shinsei) A series of search designs for 2^m factorial designs of resolution V which permit search of one or two unknown extra three-factor interactions. **93h:62141**
Srivastava, Jagdish N. (*with* Arora, Sanjay) An infinite series of resolution III.2 designs for the 2^m factorial experiment. **93c:62131**
— (*with* Hveberg, Ranoo) Sequential factorial probing designs for identifying and estimating nonnegligible factorial effects for the 2^m experiment under the tree structure.
Stufken, John (*with* Wang, Kui-Jang) Factorial designs and the theory of trade-off. (English summary)
Subramani, J. Noniterative least squares estimation of missing values in replicated Latin square designs. (English summary) **93h:62142**
Tardif, Serge *see* **Monga, 93k:62159**
Tazawa, Shinsei *see* **Shirakura, Teruhiro, 93b:62111** *and* **93h:62141**
Toman, Blaza Optimal scaling of two-level factorial experiments. (English summary) **93k:62161**
Upperman, P. M. ★ Designs with a small number of runs for factorial experiments. (English. English and Dutch summaries) **93m:62179**
Wang, Kui-Jang *see* **Stufken, John**
Wang, Paul C. C. On the constructions of some orthogonal main-effect plans. (English summary)

— Symbol changes and trend resistance in orthogonal plans of symmetric factorials. (English summary) **93e:62200**
Wang, Ren Guan *see* **Wu, C.-F. J.; et al., 93d:62142**
Wilrich, P.-Th. *see* **Riebschläger, M., (93i:62002)**
Wu, C.-F. J. (*with* Zhang, Run Chu; Wang, Ren Guan) Construction of asymmetrical orthogonal arrays of the type $OA(s^k, s^m(s^{r_1})^{n_1} \cdots (s^{r_t})^{n_t})$. **93d:62142**
— *see also* **Chen, Jia Hua, 93a:62108**
Yuan, Fu Zhi Characterization of singular balanced fractional s^m factorial designs derivable from balanced arrays with maximum number of constraints. **93h:62143**
Zhang, Run Chu *see* **Wu, C.-F. J.; et al., 93d:62142**

Items with secondary classifications in 62K15

Adhikary, Basudeb (*with* Panda, Rajendranath) Quality-quantity type second order rotatable design in the presence of quality-quantity type interaction. **93k:62134**
Borowiak, D. S. (*with* de los Reyes, J. P.) Selection of the best in 2×2 factorial designs. (English summary) **93m:62049**
Ceranka, Bronisław (*with* Katulska, Krystyna) Optimum biased spring balance weighing designs with nonhomogeneity of the variances of errors. **93f:62102**
(Cleveland, William S.) *see* **Tukey, John W., 93a:01068**
(Cox, D. R.) *see* **Tukey, John W., 93a:01068**
El-Helbawy, Abdalla T. (*with* Hassan, Tawfik) Some direct methods for testing hypotheses in 2^n factorial paired comparison models. (English summary)
Hassan, Tawfik *see* **El-Helbawy, Abdalla T.**
(Helland, Inge S.) *see* **Tjur, Tue, 93b:62098**
Katulska, Krystyna *see* **Ceranka, Bronisław, 93f:62102**
(Mosteller, Frederick) *see* **Tukey, John W., 93a:01068**
Panda, Rajendranath *see* **Adhikary, Basudeb, 93k:62134**
Pavur, Robert A characterization of the covariance structure in which certain quadratic forms are independent and follow chi-square distributions. (English summary) **93c:62104**
de los Reyes, J. P. *see* **Borowiak, D. S., 93m:62049**
(Sundberg, Rolf) *see* **Tjur, Tue, 93b:62098**
Tjur, Tue Analysis of variance and design of experiments. **93b:62098**
Tukey, John W. ★ The collected works of John W. Tukey. Vol. VII. **93a:01068**

Items listed otherwise than by author

Bibliography:
Tukey, John W. *see* **Tukey, John W., 93a:01068**
Biography:
Tukey, John W. *see* **Tukey, John W., 93a:01068**
Collected Works:
Tukey, John W. *see* **Tukey, John W., 93a:01068**

62K99 None of the above, but in this section

Bailey, R. A. Efficient semi-Latin squares. (English summary) **93j:62199**
Carrière, Keumhee Chough (*with* Reinsel, Gregory C.) Investigation of dual-balanced crossover designs for two treatments. (English and French summaries)
Cornell, John A. ★ Experiments with mixtures. **93e:62201**
Draper, Norman R. (*with* Guttman, Irwin) Treating bias as variance for experimental design purposes. (English summary)
Gill, P. S. Balanced change-over designs for autocorrelated observations. (English summary)
— Design and analysis of field experiments incorporating local and remote effects of treatments. (English summary)
Guttman, Irwin *see* **Draper, Norman R.**
Hooper, Peter M. Nearly orthogonal randomized designs. (English summary) **93k:62162**
Kempthorne, Oscar Intervention experiments, randomization and inference. (English summary) **93g:62101**
Khuri, André I. (*with* Vining, G. G.) Conditions required for the mean response to fall within specified bounds. **93e:62202**
Lakshmi, Damaraju V. (*with* Raghavarao, Damaraju) A test for detecting untruthful answering in randomized response procedures. **93f:62108**
(Nair, Vijayan N.) *see* **Taguchi's parameter design: a panel discussion, 93d:62143**
Raghavarao, Damaraju *see* **Lakshmi, Damaraju V., 93f:62108**
Reinsel, Gregory C. *see* **Carrière, Keumhee Chough**
Schwabe, Rainer Adaptive designs for linear problems. **93b:62112**
Vining, G. G. *see* **Khuri, André I., 93e:62202**

Items listed otherwise than by author

Taguchi's parameter design: a panel discussion Taguchi's parameter design: a panel discussion. **93d:62143**

Items with secondary classifications in 62K99

Benz, Walter On structures $T(t, q, r, n)$. **93k:51021**
Beran, Rudolf Designing prediction bands. **93k:62199**
Boys, Richard J. (*with* Glazebrook, Kevin D.) A robust design of a screen for a binary response. (English summary) **93j:62077**
Glazebrook, Kevin D. *see* **Boys, Richard J., 93j:62077**
León, R. V. (*with* Wu, C.-F. J.) A theory of performance measures in parameter design. (English summary) **93i:62088**
Li, Ker-Chau Uncertainty analysis for mathematical models with SIR. (English summary) (*see* **93b:60004**)
Ouyang, Zhao *see* **Srivastava, Jagdish N., 93g:62022**
Schulz, Ralph-Hardo (*with* Spera, Antonino Giorgio) Divisible designs and groups. (English summary) **93j:05029**
Spera, Antonino Giorgio *see* **Schulz, Ralph-Hardo, 93j:05029**
Srivastava, Jagdish N. (*with* Ouyang, Zhao) Sampling theory using experimental design concepts. (English summary) **93g:62022**
Stepashko, V. S. Structural identification of predictive models under conditions of a planned experiment. (Russian. English, Russian and Ukrainian summaries)
Suchower, Stephan J. Polynomial representations of complete sets of frequency hyperrectangles with prime power dimensions. (English summary) **93k:05031**
Wu, C.-F. J. *see* **León, R. V., 93i:62088**

62Lxx Sequential methods

Ghosh, Bhaskar K. A brief history of sequential analysis. (*see* **93g:62102**)
— *see also* **Handbook of sequential analysis, 93g:62102**
(Sen, Pranab Kumar) *see* **Handbook of sequential analysis, 93g:62102**

Items listed otherwise than by author

Handbook of sequential analysis ★ Handbook of sequential analysis. **93g:62102**

62L05 Sequential design

Basu, Arup (*with* Bose, Arup; Ghosh, Jayanta K.) Sequential design and allocation rules. (*see* **93g:62102**)
Bose, Arup *see* **Basu, Arup; et al., (93g:62102)**
Ghosh, Jayanta K. *see* **Basu, Arup; et al., (93g:62102)**
Honda, Toshio Construction of a confidence interval by triple sampling. (English summary) **93j:62200**
Li, Zhaohai (*with* Zhang, Cun-Hui) Asymptotically efficient allocation rules for two Bernoulli populations. **93f:62109**
Nair, C. R. Serially balanced sequences. **93f:62110**
Rekab, Kamel An asymptotic optimal design. **93c:62132**
Samaranayake, K. Stay-with-a-winner rule for dependent Bernoulli bandits. (English summary) **93j:62201**
Sarkar, Jyotirmoy One-armed bandit problems with covariates. **93g:62103**
Schwabe, Rainer Adaptive design in the one-way layout. **93d:62144**
Zhang, Cun-Hui *see* **Li, Zhaohai, 93f:62109**

Items with secondary classifications in 62L05

Aras, Girish (*with* Whitaker, Lyn R.) A sequential scheme to estimate the optimal age replacement policy. (English summary) **93m:62211**
Banks, Jeffrey S. (*with* Sundaram, Rangarajan K.) Denumerable-armed bandits. (English summary) **93g:90107**
— (*with* Sundaram, Rangarajan K.) A class of bandit problems yielding myopic optimal strategies. **93f:90214**
Cooray-Wijesinha, Manel Optimal designs to improve the power of multiresponse hypothesis tests. (English summary) **93k:62146**
Gittins, John (*with* Wang, You-Gan) The learning component of dynamic allocation indices. (English summary) **93k:62013**
(Hashemi, H. R.) *see* **Veeravalli, Venugopal V., 93c:62018**
Menéndez, Maria L. *see* **Pardo, Leandro, 93e:62017**
Pardo, Leandro (*with* Menéndez, Maria L.) Informational energy in the sequential design of experiments in a Bayesian context. **93e:62017**
Presman, È. L. Properties of optimal strategies in the Poisson version of the two-armed bandit problem with two hypotheses. **93a:90091**
(Rhodes, Ian B.) *see* **Veeravalli, Venugopal V., 93c:62018**
Sinha, Bikas Kumar Sequential methods for finite populations. (*see* **93g:62102**)
Sundaram, Rangarajan K. *see* **Banks, Jeffrey S., 93f:90214** *and* **93g:90107**
Veeravalli, Venugopal V. Comments on: "Decentralized sequential detection" [IEEE Trans. Inform. Theory 35 (1989), no. 3, 509–520; MR 90i:62016] by H. R. Hashemi and I. B. Rhodes. **93c:62018**
Wang, You-Gan *see* **Gittins, John, 93k:62013**
Weber, Richard R. On the Gittins index for multiarmed bandits. (English summary) **93h:60069**
Whitaker, Lyn R. *see* **Aras, Girish, 93m:62211**
Whitehead, John Raymond Sequential methods in clinical trials. (*see* **93g:62102**)
Yin, Ji Ying Sequential density estimation in censored data models with two-stage sampling. (Chinese. English and Chinese summaries) **93m:62091**

62L10 Sequential analysis

Arghami, N. R. (*with* Billard, Lynne) A partial sequential t-test. **93d:62145**
Assaf, David (*with* Ritov, Ya'acov) Adaptive sampling for detecting a change point in the past. (English summary) **93h:62144**
Bandyopadhyay, Uttam *see* **Chatterjee, Shoutir Kishore, 93i:62068**
Bechhofer, Robert E. (*with* Chen, Pinyuen) A note on a curtailed sequential procedure for subset selection of multinomial cells. (English summary) **93k:62163**
Bhat, B. R. (*with* Indira Devi, A.) Optimality of sequential probability ratio tests for a class of continuous parameter stochastic processes. **93b:62113**
Billard, Lynne *see* **Arghami, N. R., 93d:62145**
Bilotti-Aliaga, Martha Use of a side effect as a covariate in a problem of sequential analysis. (English summary) **93k:62164**
Brown, Lawrence D. (*with* Greenshtein, Eitan) Two-sided sequential tests. **93c:62133**
Chatterjee, Shoutir Kishore Two-stage and multistage procedures. (*see* **93g:62102**)
— (*with* Bandyopadhyay, Uttam) On the change-point problem. **93i:62068**
Chen, Pinyuen *see* **Sobel, Marc; et al., 93e:62205** *and* **Bechhofer, Robert E., 93k:62163**
DeMets, David L. *see* **Lee, Jae Won, 93e:62203**
Eisenberg, Bennett (*with* Ghosh, Bhaskar K.) The sequential probability ratio test. (*see* **93g:62102**)
— Multihypothesis problems. (*see* **93g:62102**)
Ghosh, Bhaskar K. *see* **Eisenberg, Bennett, (93g:62102)**
Greenshtein, Eitan Sequential batch sampling. **93f:62111**
— Monotonicity of sequential Bayes procedures in some multi-action problems. (English summary) **93k:62165**
— *see also* **Brown, Lawrence D., 93c:62133**
Hušková, Marie Sequentially adaptive nonparametric procedures. (*see* **93g:62102**)
Indira Devi, A. *see* **Bhat, B. R., 93b:62113**

Ivanova, I. A. *see* **Tartakovskii, A. G., 93f:62113**
Jennison, Christopher (*with* Turnbull, Bruce W.) Group sequential tests and repeated confidence intervals. (*see* **93g:62102**)
Kenyon, James R. Calculating improved bounds and approximations for sequential testing procedures. (English summary) **93g:62104**
Khan, Rasul A. On the monotonicity of a certain expectation. **93b:62114**
Lai, Tze Leung Asymptotic optimality of generalized sequential likelihood ratio tests in some classical sequential testing problems. (*see* **93g:62102**)
Lee, Jae Won (*with* DeMets, David L.) Sequential comparison of changes with repeated measurements data. **93e:62203**
Lin, D. Y. (*with* Liu, P. Y.) Nonparametric sequential tests against ordered alternatives in multiple-armed clinical trials. (English summary) **93h:62145**
— Sequential log rank tests adjusting for covariates with the accelerated life model. (English summary) **93j:62202**
Liu, P. Y. *see* **Lin, D. Y., 93h:62145**
Mukhopadhyay, Nitis (*with* Solanky, Tumulesh K. S.) Accelerated sequential procedure for selecting the best exponential population. (English summary) **93j:62203**
Rieder, Ulrich (*with* Wentges, Paul) On Bayesian group sequential sampling procedures. **93e:62204**
Ritov, Ya'acov *see* **Assaf, David, 93h:62144**
Roters, M. Minimax sequential tests for stationary Ornstein-Uhlenbeck processes. **93a:62109**
— Locally most powerful sequential tests for processes of the exponential class with stationary and independent increments. **93f:62112**
Różański, Roman Random stopping sets in a sequential analysis of random measures and fields. **93g:62105**
Schmitz, Norbert J. Sequential decision theory. (*see* **93g:62102**)
Sen, Pranab Kumar Repeated significance tests in frequency and time domains. (*see* **93g:62102**)
Sobel, Marc (*with* Chen, Pinyuen; Sobel, Milton) A two-stage procedure for selecting the largest mean based on conditional probability analysis. (English summary) **93e:62205**
Sobel, Milton *see* **Sobel, Marc; et al., 93e:62205**
Solanky, Tumulesh K. S. *see* **Mukhopadhyay, Nitis, 93j:62203**
Sriram, T. N. Second order approximation to the risk of a sequential procedure measured under squared relative error loss. **93m:62180**
Tahir, Mohamed A sequential test for the failure rate of an exponential distribution with censored data. **93e:62206**
Tartakovskii, A. G. (*with* Ivanova, I. A.) Approximation in sequential rules for discrimination of hypotheses and their accuracy in the case of detecting a signal from sequential data. (Russian) **93f:62113**
— *see also* **Verdenskaya, N. V., 93d:62146**
Turnbull, Bruce W. *see* **Jennison, Christopher**, (**93g:62102**)
Verdenskaya, N. V. (*with* Tartakovskii, A. G.) Asymptotically optimal sequential discrimination of several hypotheses for nonhomogeneous Gaussian processes in a nonsymmetric situation. (Russian) **93d:62146**
Wentges, Paul *see* **Rieder, Ulrich, 93e:62204**
Wijsman, Robert A. Direct computation of the performance of sequential procedures based on a sequence of t-statistics, with application to a confidence interval for μ/σ in a normal population. **93e:62207**
Woodroofe, Michael The role of renewal theory in sequential analysis. (*see* **93g:62102**)
Yatracos, Yannis G. On the species and related problems. **93e:62208**
Zacks, Shelemyahu Detection and change-point problems. (*see* **93g:62102**)
Zoubeidi, Toufik Bounded deficiency in the comparison of the means of two normal populations. **93k:62166**

Items with secondary classifications in 62L10

Bofinger, Eve (*with* Lewis, Gwenda J.) Simultaneous comparisons with a control and with the best: two stage procedures. (English summary) **93k:62039**
Chang, Joseph T. On moments of the first ladder height of random walks with small drift. (English summary) **93i:60130**
Chang, Yu Chi Adaptive sequential confidence intervals for a location parameter. (English summary) **93i:62069**
Chen, Pinyuen (*with* Hsu, Lifang) Partitioning multinomial cells. (English summary) **93h:62036**
DeMets, David L. *see* **Lee, Jae Won, 93d:62091**
Geisser, Seymour On the curtailment of sampling. (English and French summaries) **93h:62058**
Govindarajulu, Z. *see* **de la Peña, Victor H., 93i:60085**
Hawkins, D. L. Detecting shifts in functions of multivariate location and covariance parameters. (English summary) **93m:62109**
Honda, Toshio Estimation of the mean by three stage procedure. **93i:62072**
Hsu, Lifang *see* **Chen, Pinyuen, 93h:62036**
Kim, Soon-Ki A lower bound on the probability of correct selection for two-stage selection procedure. (English summary) **93e:62063**
Lee, Jae Won (*with* DeMets, David L.) Sequential rank tests with repeated measurements in clinical trials. **93d:62091**
Lewis, Gwenda J. *see* **Bofinger, Eve, 93k:62039**
Lienhard, Clarence W. An optimal curtailment of a randomized UMP test for a proportion. **93e:62055**
Lotov, V. I. Asymptotic expansions for the CUSUM procedure in a change point problem. (English summary) **93k:60057**
Melfi, Vincent F. Nonlinear Markov renewal theory with statistical applications. **93f:60129**
Mukhopadhyay, Nitis (*with* Solanky, Tumulesh K. S.) Accelerated sequential procedure for selecting the largest mean. **93f:62031**
de la Peña, Victor H. (*with* Govindarajulu, Z.) A note on second moment of a randomly stopped sum of independent variables. (English summary) **93i:60085**
Pollard, Graham H. The optimal test for selecting the greater of two binomial probabilities. (English summary) **93m:62051**
Rekab, Kamel An asymptotic optimal design. **93c:62132**
Scheike, Thomas H. A boundary-crossing result for Brownian motion. **93e:60166**
Sen, Pranab Kumar Nonparametric methods in sequential analysis. (*see* **93g:62102**)
Siegmund, David O. Tail approximations for maxima of random fields. (English summary) **93k:60129**
Sinha, Bimal Kumar Multivariate problems. (*see* **93g:62102**)
Solanky, Tumulesh K. S. *see* **Mukhopadhyay, Nitis, 93f:62031**
Spreij, Peter Recursive approximate maximum likelihood estimation for a class of counting process models. **93e:62224**
Woodroofe, Michael Estimation after sequential testing: a simple approach for a truncated sequential probability ratio test. (English summary) **93h:62150**

62L12 Sequential estimation

Abid, A. D. *see* **Mukhopadhyay, Nitis, 93d:62150**
Bai, Zhi Dong (*with* Chow, Mo Suk) Inadmissibility of the maximum likelihood estimator in the sequential estimation of the size of a population. **93k:62167**
Basawa, Ishwar V. *see* **Sriram, T. N.; et al., 93b:62118**
Bhandari, Subir Kumar (*with* Bose, Arup) Existence of unbiased estimates in sequential binomial experiments. (English summary) **93g:62106**
Bhattacharya, C. G. A note on the CFR inequality for sequential estimation. **93b:62115**
Bose, Arup *see* **Bhandari, Subir Kumar, 93g:62106**
Chang, Yu Chi Adaptive sequential confidence intervals for a location parameter. (English summary) **93i:62069**
Chang, Yuan-chin Ivan (*with* Martinsek, Adam T.) Fixed size confidence regions for parameters of a logistic regression model. (English summary) **93k:62168**
Chattopadhyay, S. *see* **Mukhopadhyay, Nitis, 93c:62135**
Chaturvedi, Ajit (*with* Pandey, S. K.; Gupta, Manju) On a class of asymptotically risk-efficient sequential procedures. (English summary) **93i:62070**
— (*with* Shukla, N. D.; Shukla, Pramod S.) Fixed-width confidence intervals for contrasts in the means. **93f:62114**
— *see also* **Chaturvedi, Anoop, 93a:62110** *and* **Singh, R. Karan, 93b:62117**
Chaturvedi, Anoop (*with* Chaturvedi, Ajit) Further remarks on sequential point estimation of regression parameters. (Hindi summary) **93a:62110**
Chow, Mo Suk *see* **Bai, Zhi Dong, 93k:62167**
Ebrahimi, Nader An optimal stopping time for a power law process. (English summary) **93i:62071**
Fakhre-Zakeri, I. (*with* Lee, S.) Sequential estimation of the mean of a linear process. **93f:62115**
Fei, W. *see* **Moser, B. K., 93a:62112**
Gardiner, Joseph C. (*with* Susarla, V.) Time-sequential estimation. (*see* **93g:62102**)
Geertsema, J. C. *see* **Govindarajulu, Z., 93b:62116**
Ghosh, Malay (*with* Mukhopadhyay, Nitis) Sequential estimation of the location parameter of an exponential distribution. (English summary) **93f:62116**
— Hierarchical and empirical Bayes sequential estimation. (*see* **93g:62102**)
Golubev, G. K. Sequential design of an experiment in the nonparametric estimation of smooth regression functions. (Russian. Russian summary) **93m:62181a**
— Erratum: "Sequential design of an experiment in the nonparametric estimation of smooth regression functions". (Russian) **93m:62181b**
Govindarajulu, Z. (*with* Geertsema, J. C.) Sequential confidence intervals for the common mean of a set of heteroscedastic normal populations. **93b:62116**
— (*with* Sarkar, Subodh C.) Sequential estimation of scale parameter in exponential distributions with unknown location. **93d:62147**
Gupta, Manju *see* **Chaturvedi, Ajit; et al., 93i:62070**
Hamdy, Hosny I. (*with* Son, Mun-S.) On accelerating sequential procedures for point estimation: the normal case. (English and Italian summaries)
Honda, Toshio Estimation of the mean by three stage procedure. **93i:62072**
Huggins, Richard M. *see* **Sriram, T. N.; et al., 93b:62118**
Hwang, Leng Cheng Empirical Bayes approach to Bayes sequential estimation: the Poisson and Bernoulli cases. (English summary) **93m:62182**
Jurečková, Jana Confidence sets and intervals. (*see* **93g:62102**)
Karunamuni, R. J. Empirical Bayes sequential estimation of the mean. **93j:62204**
Keener, Robert W. (*with* Woodroofe, Michael) Fixed width interval estimation for the reciprocal drift of Brownian motion. **93c:62134**
Kuo, Lynn (*with* Mukhopadhyay, Nitis; Solanky, Tumulesh K. S.) Improved sequential and accelerated sequential procedures for estimating the scale parameter in a uniform distribution. **93f:62117**
Lee, S. *see* **Fakhre-Zakeri, I., 93f:62115**
Magiera, Ryszard Admissibility of polynomial estimators in sequential estimation for exponential-type processes. (English summary) **93d:62148**
— Bayes sequential estimation for an exponential family of processes: a discrete time approach. **93h:62146**
Malinovskii, V. K. Asymptotic expansions in a problem of the sequential estimation of an autoregression parameter. (Russian)
Martinsek, Adam T. Sequential point estimation in regression models with nonnormal errors. **93a:62111a**
— Asymptotically fully efficient fixed-width confidence intervals for a location parameter. **93g:62107**
— Erratum: "Sequential point estimation in regression models with nonnormal errors". **93a:62111b**
— *see also* **Chang, Yuan-chin Ivan, 93k:62168**
Moreno, M. H. *see* **Mukhopadhyay, Nitis, 93f:62118** *and* **93h:62147**
Moser, B. K. (*with* Fei, W.) A new sequential design based on the Robbins-Monro procedure. **93a:62112**
Mukhopadhyay, Nitis (*with* Moreno, M. H.) Multi-stage estimation procedures for the mean of a U-statistic and some associated moderate sample size comparisons. **93f:62118**
— Some properties of a three-stage procedure with applications in sequential analysis. (English summary) **93d:62149**
— Parametric sequential point estimation. (*see* **93g:62102**)
— (*with* Moreno, M. H.) Multistage and sequential minimum risk point estimation procedures for the means of generalized U-statistics. (English summary) **93h:62147**

— (*with* Chattopadhyay, S.) Sequential methodologies for comparing exponential mean survival times. **93c:62135**
— (*with* Abid, A. D.) Sequential sampling methodologies for comparing strata means. **93d:62150**
— (*with* Sriram, T. N.) On sequential comparisons of means of first-order autoregressive models. **93i:62073**
— *see also* **Ghosh, Malay**, **93f:62116** *and* **Kuo, Lynn; et al.**, **93f:62117**
Pandey, S. K. *see* **Chaturvedi, Ajit; et al.**, **93i:62070**
Rekab, Kamel A nearly optimal two stage procedure. **93i:62074**
— Bayesian estimation of the difference between two mean times to failure. **93a:62113**
— Sequential allocation for estimation problem. (English summary) **93h:62148**
Różański, Roman Minimax sequential estimation based on random fields. **93h:62149**
Sarkar, Subodh C. *see* **Govindarajulu, Z.**, **93d:62147**
Shukla, N. D. *see* **Chaturvedi, Ajit; et al.**, **93f:62114**
Shukla, Pramod S. *see* **Chaturvedi, Ajit; et al.**, **93f:62114**
Singh, R. Karan (*with* Chaturvedi, Ajit) A note on sequential estimation of the difference between location parameters of two negative exponential distributions. **93b:62117**
Sinha, Bikas Kumar Sequential methods for finite populations. (*see* **93g:62102**)
— *see also* **Sinha, Bimal Kumar**, **93g:62108**
Sinha, Bimal Kumar (*with* Sinha, Bikas Kumar) Unbiased sequential binomial estimation. (English summary) **93g:62108**
Solanky, Tumulesh K. S. *see* **Kuo, Lynn; et al.**, **93f:62117**
Son, Mun-S. *see* **Hamdy, Hosny I.**
Sriram, T. N. (*with* Basawa, Ishwar V.; Huggins, Richard M.) Sequential estimation for branching processes with immigration. **93b:62118**
— An improved sequential procedure for estimating the regression parameter in regression models with symmetric errors. (English summary) **93m:62183**
— *see also* **Mukhopadhyay, Nitis**, **93i:62073**
Stefanov, Valeri T. Noncurved exponential families associated with observations over finite state Markov chains. **93e:62209**
Susarla, V. *see* **Gardiner, Joseph C.**, (**93g:62102**)
Tahir, Mohamed Fixed-width sequential confidence interval for the correlation coefficient of a bivariate normal distribution. **93b:62119**
Takada, Yoshikazu Specification error in sequential estimation. **93d:62151**
— A sequential procedure with asymptotically negative regret for estimating a normal mean. **93d:62152**
Timofeev, A. V. Nonasymptotic solution of confidence estimation parameter task of a nonlinear regression by means of sequential analysis. (Russian summary) **93c:62136**
Wasan, M. T. *see* **Wu, Tiee-Jian**, **93a:62114**
Woodroofe, Michael On stopping times and stochastic monotonicity. **93b:62120**
— Estimation after sequential testing: a simple approach for a truncated sequential probability ratio test. (English summary) **93h:62150**
— *see also* **Keener, Robert W.**, **93c:62134**
Wu, Tiee-Jian (*with* Wasan, M. T.) Some results on sequential unbiased estimation of a binomial parameter. **93a:62114**

Items with secondary classifications in 62L12

Bartoszewicz, Artur On the consistency of estimates in noncommutative statistics. **93i:46113**
Chatterjee, Shoutir Kishore Two-stage and multistage procedures. (*see* **93g:62102**)
Govindarajulu, Z. (*with* Katehakis, Michael N.) Dynamic allocation in survey sampling. (English summary) **93j:62021**
Hušková, Marie Sequentially adaptive nonparametric procedures. (*see* **93g:62102**)
Hwang, Jiunn Tzon (*with* Liu, Hung-Kung) Existence and nonexistence theorems of finite diameter sequential confidence regions for errors-in-variables models. **93a:62045**
Isogai, Eiichi A note on the asymptotic normality of sequential density estimators. **93d:62068**
Jennison, Christopher (*with* Turnbull, Bruce W.) Group sequential tests and repeated confidence intervals. (*see* **93g:62102**)
Katehakis, Michael N. *see* **Govindarajulu, Z.**, **93j:62021**
Liu, Hung-Kung *see* **Hwang, Jiunn Tzon**, **93a:62045**
Martinsek, Adam T. Using stopping rules to bound the mean integrated squared error in density estimation. **93e:62112**
Sen, Pranab Kumar Statistical functionals, stopping times and asymptotic minimum risk property. **93c:62073**
Turnbull, Bruce W. *see* **Jennison, Christopher**, (**93g:62102**)
Wilson, John G. Optimal choice and assignment of the best m of n randomly arriving items. **93a:60069**
Woodroofe, Michael Integrable expansions for posterior distributions for one-parameter exponential families. **93g:62048**

62L15 Optimal stopping [see also 60G40, 90D60]

Boshuizen, Frans A. Minimax stopping times for i.i.d. random variables. (English summary) **93k:62169**
Crowell, John I. (*with* Sen, Pranab Kumar) On stopping times for fixed-width confidence regions. (English summary) **93j:62205**
Ghosh, Malay (*with* Hoekstra, Robert M.) Asymptotically pointwise optimal stopping rules. (*see* **93g:62102**)
Hamada, Toshio A discounted uniform one-armed bandit problem. **93h:62151**
Hoekstra, Robert M. *see* **Ghosh, Malay**, (**93g:62102**)
Sen, Pranab Kumar *see* **Crowell, John I.**, **93j:62205**
Wijsman, Robert A. Stopping times: termination, moments, distribution. (*see* **93g:62102**)

Items with secondary classifications in 62L15

Bassily, N. L. (*with* Ishak, S.) Applications of Wald's identity with some famous stopping times. **93i:60084**
Boshuizen, Frans A. (*with* Hill, Theodore P.) Moment-based minimax stopping functions for sequences of random variables. (English summary) **93j:60056**
Chen, Pinyuen Truncated selection procedures for the most probable event and the least probable event. (English summary) **93m:62050**
Dalal, S. R. (*with* Mallows, Colin L.) When to stop testing software? Some exact results. (English summary) **93k:62201**
— (*with* Mallows, Colin L.) Buying with exact confidence. (English summary) **93k:60107**
Ebrahimi, Nader An optimal stopping time for a power law process. (English summary) **93i:62071**
Enns, E. G. *see* **Ravindran, K.**, **93h:90116**
Ferguson, Thomas S. Best-choice problems with dependent criteria. **93g:60086**
— (*with* Hardwick, J. P.; Tamaki, M.) Maximizing the duration of owning a relatively best object. **93h:60066**
Gnedin, A. V. (*with* Sakaguchi, Minoru) On a best choice problem related to the Poisson process. **93d:60076**
— Multicriteria extensions of the best choice problem: sequential selection without linear order. **93g:60087**
Gödde, M. Statistical games against a prophet—proof of a minimax conjecture. **93a:62010**
Govindarajulu, Z. The secretary problem: optimal selection from two streams of candidates. **93g:60088**
— The secretary problem: optimal selection with batch-interviewing and cost. (English and French summaries) **93m:60083**
Hardwick, J. P. *see* **Ferguson, Thomas S.; et al.**, **93h:60066**
Hill, Theodore P. (*with* Kennedy, Douglas P.) Sharp inequalities for optimal stopping with rewards based on ranks. **93f:60058**
— *see also* **Boshuizen, Frans A.**, **93j:60056**
Ishak, S. *see* **Bassily, N. L.**, **93i:60084**
Kennedy, Douglas P. (*with* Kertz, Robert P.) Comparisons of optimal stopping values and expected suprema for i.i.d. r.v.'s with costs and discounting. **93j:60024**
— *see also* **Hill, Theodore P.**, **93f:60058**
Kertz, Robert P. *see* **Kennedy, Douglas P.**, **93j:60024**
Lehtinen, Aarni Recognizing the three best of a sequence. **93g:60090**
Mallows, Colin L. *see* **Dalal, S. R.**, **93k:60107** *and* **93k:62201**
Męczarski, Marek Fixed-width interval estimation of the minimum point of a regression function based on the Kiefer-Wolfowitz procedure. **93g:62109**
Mukhopadhyay, Nitis (*with* Sriram, T. N.) On sequential comparisons of means of first-order autoregressive models. **93i:62073**
Nakagami, Junichi Game-theoretic analysis for an optimal stopping problem by means of moments of a distribution function. **93e:60086**
Nakai, Teruhisa An optimal stopping problem in the excavation of archaeological remains. **93a:60067**
Porosiński, Zdzisław (*with* Szajowski, Krzysztof) On some selection problem. **93a:60068**
— Full-information best choice problems with imperfect observation and a random number of observations. **93c:60061**
Ravindran, K. (*with* Enns, E. G.) A two Poisson stream competitive decision problem. (English summary) **93h:90116**
Robbins, Herbert Remarks on the secretary problem. **93b:60091**
Rose, John S. Optimal selection from randomly arriving offers with variable holding period. **93f:60059**
Roters, M. Locally most powerful sequential tests for processes of the exponential class with stationary and independent increments. **93f:62112**
Różański, Roman Minimax sequential estimation based on random fields. **93h:62149**
Saario, Vesa (*with* Sakaguchi, Minoru) Multistop best choice games related to the Poisson process. **93c:60062**
Sakaguchi, Minoru *see* **Saario, Vesa**, **93c:60062** *and* **Gnedin, A. V.**, **93d:60076**
Samuels, Stephen M. Secretary problems. (*see* **93g:62102**)
Sarkar, Jyotirmoy One-armed bandit problems with covariates. **93g:62103**
Schmitz, Norbert J. Games against a prophet. **93b:90133**
Sen, Pranab Kumar Statistical functionals, stopping times and asymptotic minimum risk property. **93c:62073**
Sriram, T. N. *see* **Mukhopadhyay, Nitis**, **93i:62073**
Szajowski, Krzysztof Optimal on-line detection of outside observations. **93f:60060**
— *see also* **Porosiński, Zdzisław**, **93a:60068**
Tamaki, M. *see* **Ferguson, Thomas S.; et al.**, **93h:60066**
Wasan, M. T. *see* **Wu, Tiee-Jian**, **93a:62114**
Wu, Tiee-Jian (*with* Wasan, M. T.) Some results on sequential unbiased estimation of a binomial parameter. **93a:62114**
Ye, Keying Reference priors when the stopping rule depends on the parameter of interest. (English summary) **93k:62069**
Zacks, Shelemyahu Detection and change-point problems. (*see* **93g:62102**)

62L20 Stochastic approximation

Chen, Han Fu *see* **Gao, Ai Jun; et al.**, **93m:62186**
Dippon, Jürgen Recursive estimation: asymptotic confidence regions by empirical quantiles. **93m:62184**
Dupač, Václav Stochastic approximation and optimization. (English summary) **93m:62185**
Gao, Ai Jun (*with* Chen, Han Fu; Zhu, Yun Min) Improved results on the robustness of stochastic approximation algorithms. (English summary) **93m:62186**
Krasulina, T. P. Convergence from below of a modified Robbins-Monro process. (Russian. English summary) **93e:62210**
— On the convergence from below of a modified Robbins-Monro process. (Russian. Russian summary)
Lazarev, V. A. Convergence of stochastic approximation procedures in the case of several roots of a regression equation. (Russian) **93d:62153**
Ljung, Lennart (*with* Pflug, G. Ch.; Walk, Harro) ★ Stochastic approximation and optimization of random systems. **93j:62206**
Męczarski, Marek Fixed-width interval estimation of the minimum point of a regression function based on the Kiefer-Wolfowitz procedure. **93g:62109**
Monnez, Jean-Marie Étude d'un modèle de corrélation en approximation stochastique. (English and French summaries) [Study of a correlation model in stochastic approximation] **93m:62187**

Nazin, A. V. (*with* Polyak, B. T.; Tsybakov, A. B.) Optimal and robust kernel algorithms for passive stochastic approximation. (English summary)
Pflug, G. Ch. *see* **Ljung, Lennart; et al., 93j:62206**
Polyak, B. T. (*with* Tsybakov, A. B.) On stochastic approximation with arbitrary noise (the KW-case). **93m:62188**
— (*with* Yuditskiĭ, A. B.) Acceleration of stochastic approximation by averaging. **93g:62110**
— *see also* **Nazin, A. V.; et al.**
Ruppert, David Stochastic approximation. (*see* **93g:62102**)
Tsybakov, A. B. *see* **Polyak, B. T., 93m:62188** *and* **Nazin, A. V.; et al.**
Walk, Harro *see* **Ljung, Lennart; et al., 93j:62206**
Watanabe, Masafumi Strong convergence of an unbounded stochastic approximation algorithm under general conditions. **93g:62111**
Yang, Yu Qin A modified dynamic stochastic approximation algorithm for an extremum. (Chinese. English and Chinese summaries) **93h:62152**
Yin, Gang George On extensions of Polyak's averaging approach to stochastic approximation. **93a:62115**
— On H-valued stochastic approximation: finite-dimensional projections. **93e:62211**
Yuditskiĭ, A. B. *see* **Polyak, B. T., 93g:62110**
Zhu, Yun Min ★ On Lyapunov function approach to analyzing almost sure convergence in stochastic approximation. (English. English summary) **93k:62170**
— *see also* **Gao, Ai Jun; et al., 93m:62186**

Items with secondary classifications in 62L20

(Ermol'ev, Yu. M.) *see* **Uryas'ev, S. P., 93b:90007**
Fei, W. *see* **Moser, B. K., 93a:62112**
Fu, James C. (*with* Li, Lung An) Method of pao-zhuan yin-yu: a method of stochastic point estimation. **93d:62083**
Gerencsér, László Rate of convergence of recursive estimators. (English summary) **93i:93124**
Granichin, O. N. A stochastic approximation procedure with disturbance at the input. (Russian. Russian summary) **93f:93146**
Kurtz, Thomas G. Averaging for martingale problems and stochastic approximation. **93h:60070**
Le Breton, Alain Propriétés asymptotiques des martingales gaussiennes et application. (English and French summaries) [Asymptotic properties of Gaussian martingales and application] **93f:60061**
Li, Lung An *see* **Fu, James C., 93d:62083**
Manicke, Robert L. On multivariate regression estimation. (Italian summary) **93c:62099**
Moser, B. K. (*with* Fei, W.) A new sequential design based on the Robbins-Monro procedure. **93a:62112**
Mukerjee, Hari Estimating conditional quantiles at the root of a regression function. (English summary) **93j:62103**
Shil'man, S. V. Necessary and sufficient conditions for convergence of stochastic adaptation algorithms. (Russian. English, Russian and Ukrainian summaries) **93f:93152**
Tu, Dong Sheng Weighted stochastic approximation of estimates of errors and variance in linear models. (Chinese. Chinese summary) **93j:62177**
Uryas'ev, S. P. ★ Адаптивные алгоритмы стохастической оптимизации и теории игр. (Russian) [Adaptive algorithms in stochastic optimization and game theory] **93b:90007**
White, Halbert "Some asymptotic results for learning in single hidden-layer feedforward network models" [J. Amer. Statist. Assoc. **84** (1989), no. 408, 1003–1013; MR 92e:62119]. **93m:62144**
Zhu, Yun Min ★ Asymptotic normality for a vector stochastic difference equation with applications in stochastic approximation. (English. English summary) **93j:62045**

62L99 None of the above, but in this section

Gupta, Shanti S. (*with* Panchapakesan, S.) Sequential ranking and selection procedures. (*see* **93g:62102**)
Judge, J. *see* **Mukhopadhyay, Nitis, 93c:62137**
Mukhopadhyay, Nitis (*with* Judge, J.) Second order expansions for a sequential selection procedure. (English summary) **93c:62137**
Nikiforov, I. V. Sequential detection of changes in stochastic processes. (English summary) (*see* **93h:93009**)
Panchapakesan, S. *see* **Gupta, Shanti S., (93g:62102)**

Items with secondary classifications in 62L99

Dhagat, Aditi (*with* Gács, Péter; Winkler, Peter M.) On playing "twenty questions" with a liar. **93f:68022**
Fitzsimons, Conor J. (*with* Liu, Fa Wang; Miller, John J. H.) A second-order L-stable time discretisation of the semiconductor device equations. (English summary) **93i:65100**
Gács, Péter *see* **Dhagat, Aditi; et al., 93f:68022**
Liu, Fa Wang *see* **Fitzsimons, Conor J.; et al., 93i:65100**
Miller, John J. H. *see* **Fitzsimons, Conor J.; et al., 93i:65100**
Mukai, H. *see* **Yan, Di, 93j:90072**
Winkler, Peter M. *see* **Dhagat, Aditi; et al., 93f:68022**
Yan, Di (*with* Mukai, H.) Stochastic discrete optimization. **93j:90072**

62Mxx Inference from stochastic processes

62M02 Markov processes: hypothesis testing

Durlauf, Steven N. Spectral based testing of the martingale hypothesis. **93e:62212**
Guyon, Xavier (*with* Hardouin, C.) The chi-square coding test for nested Markov random field hypotheses. (English and French summaries) **93j:62207**
Hardouin, C. *see* **Guyon, Xavier, 93j:62207**

Items with secondary classifications in 62M02

Bucklew, James A. (*with* Ney, Peter E.) Asymptotically optimal hypothesis testing with memory constraints. **93b:62028**
Ivanova, I. A. *see* **Tartakovskiĭ, A. G., 93f:62113**
Kormos, János (*with* Piterbarg, V. I.) A nonstationarity criterion for a Gaussian autoregressive time series under a close alternative. (Russian) **93e:62234**
Ney, Peter E. *see* **Bucklew, James A., 93b:62028**
Piterbarg, V. I. *see* **Kormos, János, 93e:62234**
Tartakovskiĭ, A. G. (*with* Ivanova, I. A.) Approximation in sequential rules for discrimination of hypotheses and their accuracy in the case of detecting a signal from sequential data. (Russian) **93f:62113**

62M05 Markov processes: estimation

Adke, S. R. (*with* Balakrishna, N.) Estimation of the mean of some stationary Markov sequences. **93e:62213**
Angulo Ibañez, J. M. *see* **Gutiérrez Jáimez, Ramón; et al., 93k:62172**
Athreya, K. B. (*with* Fuh, C. D.) Bootstrapping Markov chains. (English summary) **93h:62153**
Badalbaev, I. S. (*with* Mukhitdinov, A. A.) ★ Статистические задачи многотипных ветвящихся процессов. (Russian) [Statistical problems for multitype branching processes] **93c:62138**
Balakrishna, N. *see* **Adke, S. R., 93e:62213**
Baras, John S. (*with* Finesso, Lorenzo) Consistent estimation of the order of hidden Markov chains. (English summary) **93h:62154**
Billard, Lynne *see* **Meshkani, M. R., 93d:62155**
Bosq, Denis *see* **Kutoyants, Yu. A.; et al., 93k:62173**
Celeux, Gilles *see* **Robert, Christian P.; et al., 93k:62174**
Datta, Somnath (*with* McCormick, William P.) Bootstrap for a finite state Markov chain based on i.i.d. resampling. (English summary) **93k:62171**
Denny, J. L. (*with* Wright, A. Larry) Inference about the shape of neighboring points in fields. (English summary) **93h:62155**
Deshmukh, Shailaja R. (*with* Kale, Mohan M.) Estimation of probability of extinction of a multitype branching process. **93c:62139**
— *see also* **Kale, Mohan M., 93j:62211** *and* **93m:62189**
Diebolt, Jean *see* **Robert, Christian P.; et al., 93k:62174**
Epps, T. W. (*with* Seneta, Eugene) Maximum-likelihood estimation for Galton-Watson processes. **93j:62208**
Fan, Da Yin Estimation of reliability of log-normal series systems on the basis of complete samples of components and systems. (Chinese. English and Chinese summaries)
Finesso, Lorenzo *see* **Baras, John S., 93h:62154**
Fuh, C. D. Bootstrapping the autocorrelation coefficient of finite Markov chains. (English summary) **93j:62209**
— *see also* **Athreya, K. B., 93h:62153**
Gadag, V. G. (*with* Gupta, Rajenda P.) A study of the behaviour of certain known estimators on the nonextinction path of a branching process. **93e:62214**
Gonzalez-Velasco, Miguel *see* **Molina Fernández, Manuel, 93e:62216**
Gupta, Rajenda P. *see* **Gadag, V. G., 93e:62214**
Gutiérrez Jáimez, Ramón (*with* Angulo Ibañez, J. M.; Juan Gonzalez, A.; Pérez, Rigoberto) Inference in lognormal multidimensional diffusion processes with exogenous factors: application to modelling in economics. **93k:62172**
Hermoso Carazo, A. *see* **Molina Fernández, Manuel, 93f:62119**
Hernández-Lerma, Onésimo On integrated square errors of recursive nonparametric estimates of nonstationary Markov processes. **93i:62075**
Heyde, C. C. (*with* Lin, Y.-X.) On quasi-likelihood methods and estimation for branching processes and heteroscedastic regression models. (English summary) **93j:62210**
Juan Gonzalez, A. *see* **Gutiérrez Jáimez, Ramón; et al., 93k:62172**
Kale, Mohan M. (*with* Deshmukh, Shailaja R.) Estimation in a continuous state space branching process. (English summary) **93m:62189**
— (*with* Deshmukh, Shailaja R.) Estimation of extinction probability in Markov branching process. (English summary) **93j:62211**
— *see also* **Deshmukh, Shailaja R., 93c:62139**
Kutoyants, Yu. A. (*with* Mourid, Tahar; Bosq, Denis) Estimation paramétrique d'un processus de diffusion avec retards. (English summary) [Parametric estimation of a diffusion process with delay] **93k:62173**
Ladelli, L. (*with* Sadi, H.) Propriété asymptotique d'un modèle statistique pour une chaîne de Markov à valeurs dans $\mathbf{R}^d$. (English summary) [Asymptotic property of a statistical model for an $\mathbf{R}^d$-valued Markov chain] **93e:62215**
Lepskiĭ, O. V. A problem of adaptive estimation in Gaussian white noise. (Russian) **93j:62212**
Leroux, Brian G. Maximum-likelihood estimation for hidden Markov models. **93d:62154**
Lin, Y.-X. *see* **Heyde, C. C., 93j:62210**
McCormick, William P. *see* **Datta, Somnath, 93k:62171**
Mel'nikov, A. V. (*with* Rodkina, A. E.) Consistent statistical estimation in semimartingale models of stochastic approximation. **93g:62112**
Meshkani, M. R. (*with* Billard, Lynne) Empirical Bayes estimators for a finite Markov chain. **93d:62155**
Mishra, M. N. (*with* Prakasa Rao, B. L. S.) Bounds for the equivalence of Bayes and maximum likelihood estimators for a class of diffusion processes. **93d:62156**
Molina Fernández, Manuel (*with* Hermoso Carazo, A.) On the estimation in a class of diffusion-type processes. Application for diffusion branching processes. **93f:62119**
— (*with* Gonzalez-Velasco, Miguel) Modelization in rth order Markov chains with dependency on covariates. (English and Portuguese summaries) **93e:62216**
Mourid, Tahar *see* **Kutoyants, Yu. A.; et al., 93k:62173**
Mukhitdinov, A. A. *see* **Badalbaev, I. S., 93c:62138**
Pérez, Rigoberto *see* **Gutiérrez Jáimez, Ramón; et al., 93k:62172**
Possolo, Antonio Subsampling a random field. (English summary) **93h:62156**
Prakasa Rao, B. L. S. *see* **Mishra, M. N., 93d:62156**
Robert, Christian P. (*with* Celeux, Gilles; Diebolt, Jean) Bayesian estimation of hidden Markov chains: a stochastic implementation. (English summary) **93k:62174**
Rodkina, A. E. *see* **Mel'nikov, A. V., 93g:62112**
Rogers, L. C. G. (*with* Satchell, S. E.) Estimating variance from high, low and closing prices. **93e:62217**

Sadi, H. *see* **Ladelli, L., 93e:62215**
Satchell, S. E. *see* **Rogers, L. C. G., 93e:62217**
Seneta, Eugene *see* **Epps, T. W., 93j:62208**
Sin'kevich, D. V. Sharpening the rate of convergence in probability of least squares estimates of transition probabilities of a homogeneous Markov chain. (Russian. English and Russian summaries)
Sørensen, Bent E. Continuous record asymptotics in systems of stochastic differential equations. **93e:62218**
Sriram, T. N. On the uniform strong consistency of an estimator of the offspring mean in a branching process with immigration. **93e:62219**
Uche, P. I. On the use and estimation of the transition probabilities of Markov processes. (Italian summary)
Wright, A. Larry *see* **Denny, J. L., 93h:62155**
Yoshida, Nakahiro Estimation for diffusion processes from discrete observation. **93g:62113**

Items with secondary classifications in 62M05

Aalen, Odd O. Modelling heterogeneity in survival analysis by the compound Poisson distribution. (English summary) **93i:60021**
Adekola, O. A. Asymptotic posterior normality for stochastic processes: a nonergodic example. **93b:60157**
Andersen, Lars Smedegaard Inference for hidden Markov models. (English summary) **93h:62176**
Basawa, Ishwar V. *see* **Sriram, T. N.; et al., 93b:62118**
Benjamini, Yoav (*with* Krieger, Abba M.) Market share paradox and heterogeneous chains. (English summary) **93m:60143**
Björk, Tomas (*with* Johansson, Björn) Adaptive prediction and reverse martingales. (English summary) **93m:60081**
Caines, Peter E. Continuous time stochastic adaptive control: nonexplosion, ε-consistency and stability. (English summary) **93f:93147**
Comets, Francis (*with* Gidas, Basilis) Parameter estimation for Gibbs distributions from partially observed data. **93b:60056**
Dąbrowski, Jacek Density estimation for stationary processes and for Markov processes. **93f:62048**
Florens-Zmirou, D. Statistics on crossings of discretized diffusions and local time. **93i:60149**
Gadag, V. G. (*with* Gupta, Rajenda P.) On the properties of processes associated with a Markov branching process. **93f:60126**
Gidas, Basilis *see* **Comets, Francis, 93b:60056**
Gupta, Rajenda P. *see* **Gadag, V. G., 93f:60126**
Guyon, Xavier (*with* Hardouin, C.) The chi-square coding test for nested Markov random field hypotheses. (English and French summaries) **93j:62207**
Hardouin, C. *see* **Guyon, Xavier, 93j:62207**
Huggins, Richard M. *see* **Sriram, T. N.; et al., 93b:62118**
Istas, Jacques (*with* Laredo, Catherine) Estimation de la fonction de covariance d'un processus gaussien stationnaire par méthodes d'échelles. (English and French summaries) [Estimation of the covariance function of a Gaussian stationary process using scaling methods] **93j:62100**
Johansson, Björn *see* **Björk, Tomas, 93m:60081**
Kazakos, Dimitri Asymptotic error probability expressions for multihypothesis testing using multisensor data. (English summary) **93j:62052**
Kazimierczyk, Piotr Consistent ML estimator for drift parameters of both ergodic and nonergodic diffusions. (English summary) (*see* **93d:93009**)
Krieger, Abba M. *see* **Benjamini, Yoav, 93m:60143**
Kutoyants, Yu. A. (*with* Mourid, Tahar) Estimation dans un modèle autorégressif avec retards. (English and French summaries) [Estimation for an autoregressive model with delay]
Laredo, Catherine *see* **Istas, Jacques, 93j:62100**
Mourid, Tahar *see* **Kutoyants, Yu. A.**
Mykland, Per Aslak Asymptotic expansions and bootstrapping distributions for dependent variables: a martingale approach. **93e:62050**
Prakasa Rao, B. L. S. Nonparametric estimation for Galton-Watson type process. **93e:62115**
Sriram, T. N. (*with* Basawa, Ishwar V.; Huggins, Richard M.) Sequential estimation for branching processes with immigration. **93b:62118**
Stefanov, Valeri T. Noncurved exponential families associated with observations over finite state Markov chains. **93e:62209**
Yoshida, Nakahiro Asymptotic expansions of maximum likelihood estimators for small diffusions via the theory of Malliavin-Watanabe. **93k:62032**

62M07 Non-Markovian processes: hypothesis testing

Andersen, Per Kragh *see* **Nielsen, Gert G.; et al., 93a:62116**
Gill, Richard D. *see* **Nielsen, Gert G.; et al., 93a:62116**
Luschgy, Harald Approximations and time-discretization in testing one-sided hypotheses for the mean of a Gaussian process. **93c:62140**
Malinovskiĭ, V. K. Asymptotic optimality of criteria in the problem of testing hypotheses for a recurrent semi-Markov process. **93e:62220**
McKeague, Ian W. (*with* Utikal, Klaus J.) Goodness-of-fit tests for additive hazards and proportional hazards models. **93c:62141**
— *see also* **Sasieni, Peter D., (93b:62005)**
Nielsen, Gert G. (*with* Gill, Richard D.; Andersen, Per Kragh; Sørensen, Thorkild I. A.) A counting process approach to maximum likelihood estimation in frailty models. **93a:62116**
Sasieni, Peter D. Information bounds for the additive and multiplicative intensity models. (English summary) (*see* **93b:62005**)
Sørensen, Thorkild I. A. *see* **Nielsen, Gert G.; et al., 93a:62116**
Thavaneswaran, A. Tests based on an optimal estimate. **93a:62117**
Utikal, Klaus J. *see* **McKeague, Ian W., 93c:62141**
Verdenskaya, N. V. Asymptotically optimal discrimination of several hypotheses on nonhomogeneous Gaussian processes. (Russian. Russian summary) **93j:62213**

Items with secondary classifications in 62M07

Bain, Lee J. *see* **Engelhardt, Max, 93d:62169**
Bakirov, N. K. Testing nonparametric hypothesis for random processes. (*see* **93k:60008**)
(Blumenthal, Saul) *see* **Engelhardt, Max, 93d:62169**
Engelhardt, Max (*with* Bain, Lee J.) Statistical analysis of a Weibull process with left-censored data. (English summary) **93d:62169**
Kligienė, Nerutė Likelihood inference about a change point in switching autoregression. (Russian and Lithuanian summaries) **93d:62161**
Lehoczky, John Statistical methods. (*see* **93a:60001**)
Luschgy, Harald Local asymptotic mixed normality for semimartingale experiments. **93e:62020**
— (*with* Rukhin, Andrew L.; Vajda, Igor) Adaptive tests for stochastic processes in the ergodic case. (English summary) **93k:62034**
Okabe, Yasunori Langevin equations and causal analysis. (Japanese) **93e:60071**
Roters, M. Locally most powerful sequential tests for processes of the exponential class with stationary and independent increments. **93f:62112**
Rukhin, Andrew L. *see* **Luschgy, Harald; et al., 93k:62034**
Sen, Pranab Kumar Repeated significance tests in frequency and time domains. (*see* **93g:62102**)
Vajda, Igor *see* **Luschgy, Harald; et al., 93k:62034**

62M09 Non-Markovian processes: estimation

Bensaïd, Nadia Inférence non paramétrique pour un processus ponctuel aminci. (English and French summaries) [Nonparametric inference for a thinned point process] **93e:62221**
Greenwood, P. E. (*with* Wefelmeyer, W.) On optimal estimating functions for partially specified counting process models. **93a:62118**
— (*with* Wefelmeyer, W.) Efficient estimating equations for nonparametric filtered models. **93e:62222**
Heyde, C. C. (*with* Lin, Y.-X.) Approximate confidence zones in an estimating function context. **93a:62119**
— Some results on inference for stationary processes and queueing systems. (English summary) **93k:62175**
Hutton, J. E. (*with* Ogunyemi, O. T.; Nelson, Paul I.) Simplified and two-stage quasi-likelihood estimators. **93a:62120**
Jain, Sudha[2] Estimation in $M/E_r/1$ queueing systems. **93f:62120**
Jolivet, Emmanuel Moment estimation for stationary point processes in $\mathbf{R}^d$. (English summary) (*see* **93g:62004**)
Kasitskaya, E. I. (*with* Knopov, P. S.) About one approach to the nonlinear estimating problem. (*see* **93k:60008**)
Kazimierczyk, Piotr Explicit correction formulae for parametric identification of stochastic differential systems. (English summary) **93g:62114**
Knopov, P. S. *see* **Kasitskaya, E. I., (93k:60008)**
Kutoyants, Yu. A. (*with* Liese, Friedrich) On minimum distance estimation for spatial Poisson processes. **93j:62214**
Lam, Yeh Nonparametric inference for geometric processes. **93i:62076**
Le Fe Do Statistical properties of an estimate for the third-order moment function of a stationary process. (Ukrainian. Russian and Ukrainian summaries) **93j:62215**
Liese, Friedrich *see* **Kutoyants, Yu. A., 93j:62214**
Lin, Y.-X. *see* **Heyde, C. C., 93a:62119**
Marschner, Ian C. Robust estimation for epidemic models. **93k:62176**
Mase, Shigeru Uniform LAN condition of planar Gibbsian point processes and optimality of maximum likelihood estimators of soft-core potential functions. **93b:62121**
Mel'nikov, A. V. (*with* Novikov, A. A.) Statistical inferences for semimartingale regression models. **93a:62121**
Nassiuma, D. K. (*with* Thavaneswaran, A.) Smoothed estimates for nonlinear time series models with irregular data. (English summary) **93j:62216**
Nelson, Paul I. *see* **Hutton, J. E.; et al., 93a:62120**
Novikov, A. A. *see* **Mel'nikov, A. V., 93a:62121**
Ogunyemi, O. T. *see* **Hutton, J. E.; et al., 93a:62120**
Ordoukhani, N. (*with* Thavaneswaran, A.) Convergence analysis of parametric identification methods for jump processes. **93f:62121**
Prakasa Rao, B. L. S. Asymptotic theory of weighted maximum likelihood estimation for growth models. **93e:62223**
Richter, Matthias ★ Approximation of Gaussian random elements and statistics. **93m:62190**
Robinson, Peter M. *see* **Stoyanov, J. M., 93c:62143**
Shao, Jun[1] Jackknife estimator for an m-dependent stationary process. (English summary) **93j:62217**
Spreij, Peter Recursive approximate maximum likelihood estimation for a class of counting process models. **93e:62224**
Stadnik, A. I. Conditions for the convergence of an estimate of the variance of Gaussian stationary random processes in Orlicz spaces. (Russian) **93c:62142**
Stoyan, Dietrich Statistical estimation of model parameters of planar Neyman-Scott cluster processes. **93e:62225**
Stoyanov, J. M. (*with* Robinson, Peter M.) Semiparametric and nonparametric inference from irregular observations on continuous time stochastic processes. **93c:62143**
Thavaneswaran, A. *see* **Ordoukhani, N., 93f:62121** *and* **Nassiuma, D. K., 93j:62216**
Trofimchuk, S. Yu. An estimate for the mean of a continuous process based on observations with gaps of random length. (Russian) (*see* **93j:00002**)
Wefelmeyer, W. Efficient estimation in multiplicative counting process models. **93e:62226**
— *see also* **Greenwood, P. E., 93a:62118** *and* **93e:62222**

Items with secondary classifications in 62M09

Abraham, Bovas *see* **Thavaneswaran, A., 93c:62152**
Aihara, Shin'ichi (*with* Bagchi, Arunabha) Maximum likelihood estimator for two-point boundary value process. (English summary) **93j:93147**
Al-Harby, Abdullah H. *see* **Amira, Tarik A.; et al., 93j:62088**

Amira, Tarik A. (*with* Habib, Mohamed E.; Al-Harby, Abdullah H.) Estimation of the intensity function of nonhomogeneous Poisson process using nonparametric density estimation methods. (English summary) **93j:62088**
Andĕl, Jiří Nonnegative multivariate AR(1) processes. **93i:62077**
Bagchi, Arunabha *see* **Aihara, Shin'ichi, 93j:93147**
Bain, Lee J. *see* **Engelhardt, Max, 93d:62169**
(Blumenthal, Saul) *see* **Engelhardt, Max, 93d:62169**
Dąbrowski, Jacek Density estimation for stationary processes and for Markov processes. **93f:62048**
Davidsen, Michael (*with* Jacobsen, Martin) Weak convergence of two-sided stochastic integrals, with an application to models for left truncated survival data. **93b:60010**
Dehay, Dominique Estimation de paramètres fonctionnels spectraux de certains processus non-nécessairement stationnaires. (English summary) [Estimation of some spectral functional parameters of not necessarily stationary processes] **93a:62131**
Delecroix, M. (*with* Nogueira, M. E.; Rosa, A. C.) Sur l'estimation de la densité d'observations ergodiques. (English and French summaries) [Estimating the density of ergodic observations] **93m:62067**
Dembo, Amir (*with* Zeitouni, Ofer) Erratum: "Parameter estimation of partially observed continuous time stochastic processes via the EM algorithm" [Stochastic Process. Appl. 23 (1986), no. 1, 91–113; MR 88h:93068]. **93b:93105**
Engelhardt, Max (*with* Bain, Lee J.) Statistical analysis of a Weibull process with left-censored data. (English summary) **93d:62169**
Habib, Mohamed E. *see* **Amira, Tarik A.; et al., 93j:62088**
Heyde, C. C. On best asymptotic confidence intervals for parameters of stochastic processes. **93c:62045**
Jacob, Pierre M. (*with* Mendes Lopes, Maria de Nazaré) Un théorème central limite fonctionnel pour un estimateur d'un noyau de transition. (English summary) [A functional central limit theorem for the estimator of a transition kernel] **93c:60070**
Jacobsen, Martin *see* **Davidsen, Michael, 93b:60010**
Kligienė, Nerutė Likelihood inference about a change point in switching autoregression. (Russian and Lithuanian summaries) **93d:62161**
Knight, Keith Asymptotics of Boscovich-type parameter estimates for infinite variance autoregressive process. (English summary) (*see* **93k:62005**)
Lehoczky, John Statistical methods. (*see* **93a:60001**)
Mendes Lopes, Maria de Nazaré *see* **Jacob, Pierre M., 93c:60070**
Mykland, Per Aslak Asymptotic expansions and bootstrapping distributions for dependent variables: a martingale approach. **93e:62050**
Nikiforov, I. V. Sequential detection of changes in stochastic processes. (English summary) (*see* **93h:93009**)
Nogueira, M. E. *see* **Delecroix, M.; et al., 93m:62067**
Rosa, A. C. *see* **Delecroix, M.; et al., 93m:62067**
Roussas, George G. Estimation of transition distribution function and its quantiles in Markov processes: strong consistency and asymptotic normality. **93e:62117**
— Kernel estimates under association: strong uniform consistency. **93f:62059**
Sweeting, Trevor J. Asymptotic ancillarity and conditional inference for stochastic processes. **93b:62044**
Takada, Yoshikazu Specification error in sequential estimation. **93d:62151**
Thavaneswaran, A. (*with* Abraham, Bovas) Estimation of multivariate nonlinear time series models. **93c:62152**
Tugnait, Jitendra K. Stochastic system identification with noisy input using cumulant statistics. **93f:93131**
Vaillant, Jean Negative binomial distributions of individuals and spatio-temporal Cox processes. **93a:60076**
Zeitouni, Ofer *see* **Dembo, Amir, 93b:93105**

62M10 Time series, auto-correlation, regression, etc. [see also 90A20]

Abadir, Karim M. OLS bias in a nonstationary autoregression. (English summary)
Abraham, Bovas (*with* Thavaneswaran, A.) A nonlinear time series model and estimation of missing observations. **93a:62122**
— (*with* Chuang, Alice) Expectation-maximization algorithms and the estimation of time series models in the presence of outliers. (English summary) **93m:62191**
— *see also* **Thavaneswaran, A., 93c:62152**
Agiakloglou, C. (*with* Newbold, P.) Empirical evidence on Dickey-Fuller-type tests. (English summary)
Ahn, Sung K. (*with* Cho, Sinsup) Some tests for unit roots in seasonal time series with deterministic trends. (English summary) **93k:62177**
— *see also* **Reinsel, Gregory C.**
Ali, Mukhtar M. *see* **Tsui, Albert K.**
Al-Osh, Mohamed A. (*with* Aly, Emad-Eldin A. A.) First order autoregressive time series with negative binomial and geometric marginals. (English summary)
Aly, Emad-Eldin A. A. *see* **Al-Osh, Mohamed A.**
An, Hong Zhi (*with* Xie, Zhong Jie) Time series analysis in China. (*see* **93e:62004**)
— Nonnegative autoregressive models. **93j:62218**
Andĕl, Jiří Nonnegative multivariate AR(1) processes. **93i:62077**
Anderson, P. L. (*with* Vecchia, A. V.) Asymptotic results for periodic autoregressive moving-average processes. (English summary) **93k:62178**
Anderson, T. W. (*with* Kunitomo, Naoto) Asymptotic distributions of regression and autoregression coefficients with martingale difference disturbances. **93e:62227**
— (*with* Mentz, R. P.) A note on maximum likelihood estimation in the first-order Gaussian moving average model. (English summary)
Auestad, Bjørn (*with* Tjøstheim, Dag) Functional identification in nonlinear time series. **93a:62123**
Baikovicius, Jimmy (*with* Gerencsér, László) Change-point detection as model selection. (English, Russian and Lithuanian summaries)
Barry, Daniel (*with* Hartigan, J. A.) Product partition models for change point problems. **93b:62122**
Basawa, Ishwar V. *see* **Kim, Young-Won, 93m:62198**
Basu, A. K. (*with* Das, J. K.) On estimation and asymptotic properties of the parameters of ARMA(p, q) process in the stable case. (English summary) **93k:62179**
Bera, Anil K. (*with* Higgins, M. L.) A test for conditional heteroskedasticity in time series models. (English summary)
Bercu, B. Sur l'estimateur des moindres carrés généralisé d'un modèle ARMAX. Application à l'identification des modèles ARMA. (English summary) [On the generalized least-square estimator of an ARMAX model. Application to the identification of ARMA models] **93b:62123**
Berliner, L. Mark Likelihood and Bayesian prediction of chaotic systems. **93e:62228**
Beveridge, Steve Least squares estimation of missing values in time series. (English summary)
Billard, Lynne (*with* Mohamed, Fouad Y.) Estimation of the parameters of an EAR(p) process. **93d:62157**
Block, Henry W. (*with* Langberg, Naftali A.; Stoffer, David S.) Time series models for non-Gaussian processes. (English summary) **93i:62078**
Bollerslev, Tim (*with* Wooldridge, Jeffrey M.) Quasi-maximum likelihood estimation and inference in dynamic models with time-varying covariances. (English summary) **93m:62192**
Borwankar, J. D. *see* **Chaudhuri, G.; et al., 93b:62124**
Boshnakov, Georgi N. Innovations, sufficient statistics and maximum likelihood in ARMA models. (English summary) **93e:62229**
Bosq, Denis Modelization, nonparametric estimation and prediction for continuous time processes. **93a:62124**
Boudjellaba, Hafida (*with* Dufour, Jean-Marie; Roy, Roch) Testing causality between two vectors in multivariate autoregressive moving average models. (English summary) **93m:62193**
Bougerol, Philippe (*with* Picard, Nico) Stationarity of GARCH processes and of some nonnegative time series. **93g:62115**
Boutahar, Mohamed (*with* Deniau, Claude) Distribution limite de l'estimateur des moindres carrés dans un modèle autorégressif vectoriel stable avec signal exogène déterministe. (English summary) [Limiting distribution of least-squares estimates in a stable multivariate autoregressive model with deterministic exogenous signal] **93a:62125**
— (*with* Deniau, Claude) Almost sure convergence of least squares estimates for regular multivariate ARX systems. (English summary) **93f:62122**
Breidt, F. J. (*with* Davis, Richard Alan) Time-reversibility, identifiability and independence of innovations for stationary time series. (English summary) **93j:62219**
Brockwell, Peter J. (*with* Liu, Jian[3]) Estimating the noise parameters from observations of a linear process with stable innovations. (English summary) **93j:62220**
— (*with* Liu, Jian[3]; Tweedie, Richard L.) On the existence of stationary threshold autoregressive moving-average processes. **93k:62180**
Broemeling, Lyle D. (*with* Cook, Peyton) Bayesian analysis of threshold autoregressions. (English summary)
Campbell, John Y. *see* **Perron, Pierre, 93h:62167**
Capitanio, Antonella Algebraic considerations on the stationarity of autoregressive stochastic processes. (Italian. English and Italian summaries)
Chan, K. S. *see* **Pham Dinh Tuan; et al., 93c:62150**
Chan, Wai-sum (*with* Wei, William W. S.) A comparison of some estimators of time series autocorrelations. (English summary)
Chang, Xue Jiang *see* **Chen, Min, 93j:62223**
Chaudhuri, G. (*with* Borwankar, J. D.; Rao, P. R. K.) Bhattacharyya distance based linear discriminant function for stationary time series. **93b:62124**
— Linear discriminant function for complex normal time series. (English summary) **93j:62221**
Chen, Cathy W. S. Bayesian inferences and forecasting in bilinear time series models.
— Bayesian analysis of bilinear time series models: a Gibbs sampling approach. (English summary)
Chen, Han Fu (*with* Deniau, Claude) Robustesse de l'estimateur des moindres carrés généralisés, vis-à-vis d'une erreur de modèle, pour des processus ARMA. (English and French summaries) [Robustness of the extended-least-squares estimator with respect to the model error in ARMA processes] **93j:62222**
Chen, Jia Xin The Bayesian estimation of the order of an AR model under the squared-error loss function. (Chinese. English and Chinese summaries)
Chen, Min (*with* Chang, Xue Jiang) Estimators of the parameters of an autoregressive process with disturbing noise and their asymptotic properties. (Chinese. English and Chinese summaries) **93j:62223**
— A further discussion on asymptotic properties of autoregressive estimates of the inverse autocorrelation function. I. The rate of strong convergence. (Chinese. English summary) **93d:62158**
Chen, Rong (*with* Tsay, Ruey S.) Functional-coefficient autoregressive models. (English summary) **93k:62181**
Cheng, Bing Existence, uniqueness and Fréchet differentiability of ψ-estimates of parameters in stationary observation. (English summary) **93j:62224**
Cheng, Qian Sheng Rank of a class of autocorrelation matrixes in spectral estimation. **93a:62126**
Chissom, Brad S. *see* **Song, Qiang**
Chiu, Shean-Tsong A linear estimation procedure for the parameters of autoregressive moving-average processes. **93b:62125**
Cho, Sinsup *see* **Ahn, Sung K., 93k:62177**
Choi, Byoung Seon The asymptotic joint distribution of the correlation determinant estimates of an ARMA process. **93c:62144**
— On the asymptotic distributions of the R and S arrays for identifying an ARMA process. **93i:62079**
Choi, In Asymptotic normality of the instrumental variable estimates for ARIMA(p, m, q) processes. (English summary)
Chuang, Alice *see* **Abraham, Bovas, 93m:62191**
Cipra, Tomáš (*with* Rubio, Asunción; Trujillo, J.) Time series analysis: recursive methods and their modifications for time series with outliers and missing observations. (English summary)
— (*with* Romera Ayllón, Ma. Rosario) Recursive time series methods in L_1-norm. (English summary) **93m:62194**

Cook, Peyton *see* **Broemeling, Lyle D.**
Das, J. K. *see* **Basu, A. K., 93k:62179**
Davis, Richard Alan (*with* Knight, Keith; Liu, Jian[3]) *M*-estimation for autoregressions with infinite variance. **93c:62145**
— *see also* **Breidt, F. J., 93j:62219**
DeJong, David N. (*with* Nankervis, John C.; Savin, N. E.; Whiteman, Charles H.) The power problems of unit root tests in time series with autoregressive errors. (English summary)
Deniau, Claude *see* **Boutahar, Mohamed, 93a:62125; 93f:62122** *and* **Chen, Han Fu, 93j:62222**
Dhar, Sunil K. Computation of certain minimum distance estimators in AR[k] model. (English summary) **93k:62182**
Dorfman, Jeffrey H. (*with* Havenner, Arthur M.) A Bayesian approach to state space multivariate time series modeling. **93c:62146**
Dufour, Jean-Marie *see* **Boudjellaba, Hafida; et al., 93m:62193**
Durlauf, Steven N. Time series properties of aggregate output fluctuations. (English summary) **93j:62225**
Eccleston, John A. *see* **Martin, Richard John, 93k:62189**
Eltinge, John L. Exponential convergence properties of autocovariance matrix inverses and latent vector prediction coefficients. (English summary) **93j:62226**
Fassò, Alessandro Statistical diagnostic in the closed loop autoregressive model. (Italian summary)
Faust, Jon When are variance ratio tests for serial dependence optimal? (English summary) **93e:62230**
Feigin, Paul D. (*with* Resnick, Sidney I.) Estimation for autoregressive processes with positive innovations. (English summary) **93m:62195**
Fischer, Herbert (*with* Schäffler, Stefan; Warsitz, Hubert) Parameter estimation in linear regression models with stationary ARMA(p, q)-errors using automatic differentiation. (English summary) **93i:62080**
Franke, Jürgen *see* **Kreiss, Jens-Peter, 93h:62162**
Franses, Philip Hans A model selection test for an AR(1) versus an MA(1) model. (English summary)
— Modeling seasonality in bimonthly time series. (English summary)
Gabr, M. M. Recursive estimation of bilinear time series models. (English summary)
— Nonlinearity tests for bilinear systems. **93e:62231**
Galbraith, John W. (*with* Zinde-Walsh, Victoria) The GLS transformation matrix and a semi-recursive estimator for the linear regression model with ARMA errors. **93d:62159**
Gassiat, Élisabeth Estimation adaptive d'un processes AR non causal. (English summary) [Adaptative estimation in noncausal stationary AR processes] **93b:62126**
Gerencsér, László AR(∞) estimation and nonparametric stochastic complexity. (English summary)
— *see also* **Baikovicius, Jimmy**
Gill, Len (*with* Lewbel, Arthur) Testing the rank and definiteness of estimated matrices with applications to factor, state-space and ARMA models. (English summary) **93m:62196**
Granger, Clive W. J. *see* **Lee, Tae-Hwy; et al., 93m:62199**
Gupta, Sat N. (*with* Kumar, Ashok) Time domain estimation in fractionally differenced noise processes. (English summary) **93f:62123**
— Estimation in long memory time series models. **93e:62232**
Hambaba, Mohamed L. Order selection statistical test for nonstationary AR models. (English summary) **93k:62183**
Hannan, E. J. Missed opportunities. (English summary) (*see* **93b:62003**)
Hansen, Bruce E. Consistent covariance matrix estimation for dependent heterogeneous processes. **93c:62147**
Harrison, Jeff (*with* West, Mike) Dynamic linear model diagnostics. **93c:62148**
Hartigan, J. A. *see* **Barry, Daniel, 93b:62122**
Hassler, U. Unit root tests: the autoregressive approach in comparison with the periodogram regression. (English summary)
Havenner, Arthur M. *see* **Dorfman, Jeffrey H., 93c:62146**
Heij, Christiaan (*with* Kloek, Teun; Lucas, André) Positivity conditions for stochastic state space modelling of time series. (English summary) **93m:62197**
Hesse, C. H. On asymptotics of the sample distribution for a class of linear process models in economics. (English summary) **93k:62184**
Hidalgo, F. Javier Adaptive estimation in time series regression models with heteroskedasticity of unknown form. (English summary) **93j:62227**
Higgins, M. L. *see* **Bera, Anil K.**
Hili, Ouagnina Sur les modèles autorégressifs à seuils. (English summary) [On autoregressive threshold models] **93d:62160**
Hillmer, Steven C. *see* **Stam, Antonie, 93a:62128**
Hinich, Melvin J. (*with* Patterson, Douglas M.) A new diagnostic test of model inadequacy which uses the martingale difference criterion. **93h:62157**
Hosking, J. R. M. (*with* Ravishanker, Nalini) Approximate simultaneous significance intervals for residual autocorrelations of autoregressive moving-average time series models. (English summary)
— *see also* **Wu, Lilian Shiao Yen; et al.**
Huang, Ren *see* **Jia, Min Ping, 93h:62161**
Huhn, Edit Recursive algorithm for evaluation of the likelihood function of ARMA processes. (Hungarian. English and Hungarian summaries)
Hui, Yer Van (*with* Lee, Andy H.) Assessing influence in time series. (English summary) **93h:62158**
Hurvich, Clifford M. (*with* Tsai, Chih-Ling) A corrected Akaike information criterion for vector autoregressive model selection. (English summary)
Huzii, Mitsuaki *see* **Tanaka, Minoru[2], 93j:62231**
Jagerman, David L. (*with* Melamed, Benjamin) The transition and autocorrelation structure of TES processes. I. General theory. **93h:62159**
— (*with* Melamed, Benjamin) The transition and autocorrelation structure of TES processes. II. Special cases. (English summary) **93h:62160**
Jia, Min Ping (*with* Huang, Ren) On the stationarity and invertibility of a general bilinear time series model. (English summary) **93h:62161**
Johansen, Søren A representation of vector autoregressive processes integrated of order 2. (English summary) **93j:62228**
— Cointegration in partial systems and the efficiency of single-equation analysis. **93e:62233**
Joyeux, Roselyne Tests for seasonal cointegration using principal components. **93i:62081**
Kamalesh, V. *see* **Suresh Chandra, K., 93f:62126**
Kedem, Benjamin (*with* Li, Ta-Hsin) Monotone gain, first-order autocorrelation and zero-crossing rate. **93c:62149**
— *see also* **Martin, Donald E. K., 93k:62188**
Khatkevich, L. A. Statistical properties of a modified estimate for a covariance function. (Russian. Russian summary)
Kiiveri, H. T. Fitting spatial correlation models: approximating a likelihood approximation. (English summary) **93k:62185**
Kim, In Kyu *see* **Kim, Won Kyung**
Kim, Won Kyung (*with* Kim, In Kyu) Autocorrelation function structure of bilinear time series models. (English summary)
Kim, Young-Won (*with* Basawa, Ishwar V.) Empirical Bayes estimation for first-order autoregressive processes. (English summary) **93m:62198**
Kirchgässner, G. (*with* Wolters, J.) Implications of temporal aggregation on the relation between two time series. **93b:62127**
Kligienė, Nerutė Likelihood inference about a change point in switching autoregression. (Russian and Lithuanian summaries) **93d:62161**
— Prediction of a structural instability in stochastic process. (English, Russian and Lithuanian summaries) **93k:62186**
Kloek, Teun *see* **Heij, Christiaan; et al., 93m:62197**
Knight, Keith Asymptotics of Boscovich-type parameter estimates for infinite variance autoregressive process. (English summary) (*see* **93k:62005**)
— *see also* **Davis, Richard Alan; et al., 93c:62145**
Koreisha, Sergio G. (*with* Pukkila, Tarmo) Determining the order of a vector autoregression when the number of component series is large. (English summary)
Kormos, János (*with* Piterbarg, V. I.) A nonstationarity criterion for a Gaussian autoregressive time series under a close alternative. (Russian) **93e:62234**
Koul, Hira L. *M*-estimators in linear models with long range dependent errors. **93f:62124**
Kreiss, Jens-Peter (*with* Franke, Jürgen) Bootstrapping stationary autoregressive moving-average models. **93h:62162**
Kulkarni, P. M. Robust estimation and hypothesis tests for first-order threshold autoregressive models. (English summary) **93g:62116**
Kumar, Ashok *see* **Gupta, Sat N., 93f:62123**
Kunitomo, Naoto *see* **Anderson, T. W., 93e:62227**
Kutoyants, Yu. A. (*with* Mourid, Tahar) Estimation dans un modèle autorégressif avec retards. (English and French summaries) [Estimation for an autoregressive model with delay]
Langberg, Naftali A. *see* **Block, Henry W.; et al., 93i:62078**
Lasser, Rupert (*with* Rösler, M.) Linear mean estimation of weakly stationary stochastic processes under the aspects of optimality and asymptotic optimality. **93b:62128**
Lawrance, A. J. Uniformly distributed first-order autoregressive time series models and multiplicative congruential random number generators. (English summary) **93h:62163**
— (*with* Lewis, P. A. W.) Reversed residuals in autoregressive time series analysis. **93g:62117**
Lee, Andy H. *see* **Hui, Yer Van, 93h:62158**
Lee, Tae-Hwy (*with* White, Halbert; Granger, Clive W. J.) Testing for neglected nonlinearity in time series models: a comparison of neural network methods and alternative tests. (English summary) **93m:62199**
Lewbel, Arthur *see* **Gill, Len, 93m:62196**
Lewis, P. A. W. *see* **Lawrance, A. J., 93g:62117**
Li, Gui Bin Estimates of orders and parameters in general ARMA models. (English summary) **93i:62082**
Li, Ta-Hsin *see* **Kedem, Benjamin, 93c:62149**
Li, Wai Kee On the asymptotic standard errors of residual autocorrelations in nonlinear time series modelling. (English summary) **93f:62125**
Lii, Keh-Shin (*with* Masry, Elias) Model fitting for continuous-time stationary processes from discrete-time data. **93e:62235**
— (*with* Rosenblatt, Murray) An approximate maximum likelihood estimation for non-Gaussian non-minimum phase moving average processes. (English summary) **93j:62229**
— (*with* Tsou, T.-H.) Detecting sinusoids in non-Gaussian noise. (English summary) **93h:62164**
Lim, K. S. On the stability and ergodicity of a threshold AR(1) without intercepts. (English summary)
Lipeika, Antanas (*with* Lipeikienė, Joana) Estimation of many change-points in long autoregressive sequences. (English, Russian and Lithuanian summaries)
Lipeikienė, Joana *see* **Lipeika, Antanas**
Liu, Ci Hua The maximum likelihood estimation of change-points of an ARMA model. (Chinese)
Liu, Jian[3] Spectral radius, Kronecker products and stationarity. **93k:62187**
— *see also* **Davis, Richard Alan; et al., 93c:62145; Brockwell, Peter J., 93j:62220** *and* **93k:62180**
Lucas, André *see* **Heij, Christiaan; et al., 93m:62197**
Lütkepohl, Helmut ★ Introduction to multiple time series analysis. **93d:62162**
— (*with* Poskitt, D. S.) Estimating orthogonal impulse responses via vector autoregressive models. **93e:62236**
— Testing for time varying parameters in vector autoregressive models. (English summary) (*see* **93m:62006**)
Mar Molinero, Cecilio The autocorrelation function of a time series with a deterministic component.
Marriott, J. M. (*with* Smith, Adrian F. M.) Reparametrization aspects of numerical Bayesian methodology for autoregressive moving-average models.
Marshall, Pablo State space models with diffuse initial conditions. (English summary)
Martin, Donald E. K. (*with* Kedem, Benjamin) Estimation of the period of periodically correlated sequences. (English summary) **93k:62188**
Martin, Richard John (*with* Eccleston, John A.) A new model for slowly-decaying correlations. **93k:62189**
Masry, Elias *see* **Lii, Keh-Shin, 93e:62235**
McLeod, A. I. A note on ARMA model parameter redundancy. (English summary)

Melamed, Benjamin *see* **Jagerman, David L., 93h:62159** *and* **93h:62160**
Mentz, R. P. *see* **Anderson, T. W.**
Michálek, Jiří Hypotheses testing in mixtures of time series. I, II. (English, Russian and Lithuanian summaries) **93j:62230**
— (*with* Skřivánek, Jiří) A method of trend recognition in time series. (English summary)
Milbrodt, Hartmut Testing stationarity in the mean of autoregressive processes with a nonparametric regression trend. (English summary) **93h:62165**
Mittnik, Stefan On efficient exact maximum likelihood estimation of high-order ARMA models. (*see* **93b:90009**)
Mohamed, Fouad Y. *see* **Billard, Lynne, 93d:62157**
Mourid, Tahar *see* **Kutoyants, Yu. A.**
Nakamizo, Takayoshi (*with* Okazaki, Yoshinobu) Robust recursive identification of ARMAX model. (English summary) (*see* **93f:93007**)
Nankervis, John C. *see* **DeJong, David N.; et al.**
Newbold, P. *see* **Agiakloglou, C.**
Okazaki, Yoshinobu *see* **Nakamizo, Takayoshi, (93f:93007)**
Paparoditis, Efstathios (*with* Streitberg, Bernd) Order identification statistics in stationary autoregressive moving-average models: vector autocorrelations and the bootstrap. (English summary) **93h:62166**
Patterson, Douglas M. *see* **Hinich, Melvin J., 93h:62157**
Pergamenshchikov, S. M. (*with* Shiryaev, A. N.) On reparametrization and asymptotically optimal minimax estimation in a generalized autoregressive model. **93e:62237**
Perron, Pierre (*with* Campbell, John Y.) Racines unitaires en macroéconomie: le cas multidimensionnel. (English and French summaries) [Unit roots in macroeconomics: the multidimensional case] **93h:62167**
Petruccelli, Joseph D. On the approximation of time series by threshold autoregressive models. (English summary) **93m:62200**
Pham Dinh Tuan (*with* Chan, K. S.; Tong, Howell) Strong consistency of the least squares estimator for a nonergodic threshold autoregressive model. **93c:62150**
— Approximate distribution of parameter estimators for first-order autoregressive models. **93h:62168**
Phillips, Peter C. B. Spectral regression for cointegrated time series. **93h:62169**
Picard, Nico *see* **Bougerol, Philippe, 93g:62115**
Piterbarg, V. I. *see* **Kormos, János, 93e:62234**
Poskitt, D. S. Identification of echelon canonical forms for vector linear processes using least squares. **93a:62127**
— *see also* **Lütkepohl, Helmut, 93e:62236**
Pötscher, Benedikt M. Noninvertibility and pseudo-maximum likelihood estimation of misspecified ARMA models. **93c:62151**
Pukkila, Tarmo *see* **Koreisha, Sergio G.**
Rabinovitch, A. (*with* Thieberger, R.) "Purifying" noisy signals. **93k:62190**
Rao, P. R. K. *see* **Chaudhuri, G.; et al., 93b:62124**
Ravishanker, Nalini *see* **Hosking, J. R. M.** *and* **Wu, Lilian Shiao Yen; et al.**
Reimers, Hans-Eggert ★ Analyse kointegrierter Variablen mittels vektorautoregressiver Modelle. (German) [Analysis of co-integrated variables by means of vector autoregressive models]
Reinsel, Gregory C. (*with* Ahn, Sung K.) Vector autoregressive models with unit roots and reduced rank structure: estimation, likelihood ratio test, and forecasting.
Resnick, Sidney I. *see* **Feigin, Paul D., 93m:62195**
Romera Ayllón, Ma. Rosario *see* **Cipra, Tomáš, 93m:62194**
Rosenblatt, Murray *see* **Lii, Keh-Shin, 93j:62229**
Rösler, M. *see* **Lasser, Rupert, 93b:62128**
Roy, Roch *see* **Boudjellaba, Hafida; et al., 93m:62193**
Rubio, Asunción *see* **Cipra, Tomáš; et al.**
Savin, N. E. *see* **DeJong, David N.; et al.**
Schäffler, Stefan *see* **Fischer, Herbert; et al., 93i:62080**
Schmid, Wolfgang How to locate outliers in a time series, if a starting-block is present. (English summary) **93e:62238**
Schnatter, Sylvia Integration-based Kalman-filtering for a dynamic generalized linear trend model. **93e:62239**
Shiryaev, A. N. *see* **Pergamenshchikov, S. M., 93e:62237**
da Silva, M. Eduarda A. *see* **Subba Rao, T., 93h:62170**
Sim, C. H. First-order autoregressive logistic processes. (English summary)
Skřivánek, Jiří *see* **Michálek, Jiří**
Smith, Adrian F. M. *see* **Marriott, J. M.**
Song, Qiang (*with* Chissom, Brad S.) Fuzzy time series and its models. (English summary)
Sowell, Fallaw Maximum likelihood estimation of stationary univariate fractionally integrated time series models. (English summary) **93k:62191**
Stam, Antonie (*with* Hillmer, Steven C.) Order reductions of the marginals and identification of multiple ARMA models. **93a:62128**
Startsev, A. N. A new approach to estimation of an autoregressive parameter. (*see* **93k:60008**)
Steigerwald, Douglas G. Adaptive estimation in time series regression models. (English summary) **93m:62201**
Stoffer, David S. (*with* Wall, Kent D.) Bootstrapping state-space models: Gaussian maximum likelihood estimation and the Kalman filter. **93a:62129**
— (*with* Toloi, Clélia M. C.) A note on the Ljung-Box-Pierce portmanteau statistic with missing data. (English summary)
— *see also* **Block, Henry W.; et al., 93i:62078**
Streitberg, Bernd *see* **Paparoditis, Efstathios, 93h:62166**
Subba Rao, T. (*with* da Silva, M. Eduarda A.) Identification of bilinear time series models $BL(p,0,p,1)$. (English summary) **93h:62170**
Suresh Chandra, K. (*with* Kamalesh, V.) Limit theorems on serial moment of a time series and their statistical applications. **93f:62126**
Tanaka, Minoru² (*with* Huzii, Mituaki) Some properties of moving-average model fittings. **93j:62231**
Thavaneswaran, A. (*with* Abraham, Bovas) Estimation of multivariate nonlinear time series models. **93c:62152**
— *see also* **Abraham, Bovas, 93a:62122**
Thieberger, R. *see* **Rabinovitch, A., 93k:62190**
Tjøstheim, Dag *see* **Auestad, Bjørn, 93a:62123**
Toloi, Clélia M. C. *see* **Stoffer, David S.**
Tong, Howell Some comments on a bridge between nonlinear dynamicists and statisticians. (English summary) **93h:62171**
— *see also* **Pham Dinh Tuan; et al., 93c:62150**
Trívez, F. Javier Granger causality in a bivariate framework. (Spanish. English summary)
— Granger causality in multivariate time-series models. (Spanish. English summary)
Trujillo, J. *see* **Cipra, Tomáš; et al.**
Tsai, Chih-Ling *see* **Hurvich, Clifford M.**
Tsay, Ruey S. *see* **Chen, Rong, 93k:62181**
Tsou, T.-H. *see* **Lii, Keh-Shin, 93h:62164**
Tsui, Albert K. (*with* Ali, Mukhtar M.) Approximations to the distribution of the least squares estimator in a first order stationary autoregressive model.
Tweedie, Richard L. *see* **Brockwell, Peter J.; et al., 93k:62180**
Vecchia, A. V. *see* **Anderson, P. L., 93k:62178**
Wall, Kent D. *see* **Stoffer, David S., 93a:62129**
Wang, Suojin Tail probability approximations in the first-order noncircular autoregression. (English summary) **93f:62127**
Warsitz, Hubert *see* **Fischer, Herbert; et al., 93i:62080**
Wei, Ching Zong On predictive least squares principles. **93k:62192**
Wei, William W. S. *see* **Chan, Wai-sum**
West, Mike *see* **Harrison, Jeff, 93c:62148**
White, Halbert (*with* Wooldridge, Jeffrey M.) Some results on sieve estimation with dependent observations. **93j:62232**
— *see also* **Lee, Tae-Hwy; et al., 93m:62199**
Whiteman, Charles H. *see* **DeJong, David N.; et al.**
Wolters, J. *see* **Kirchgässner, G., 93b:62127**
Wooldridge, Jeffrey M. *see* **White, Halbert, 93j:62232** *and* **Bollerslev, Tim, 93m:62192**
Wu, Lilian Shiao Yen (*with* Hosking, J. R. M.; Ravishanker, Nalini) Reallocation outliers in time series. (English summary)
Xie, Zhong Jie *see* **An, Hong Zhi, (93e:62004)**
Zhang, Hong Qing² Reduction of the asymptotic bias of autoregressive and spectral estimators by tapering. (English summary) **93m:62202**
Zhang, Hu Ming A log log law for unstable ARMA models with applications to time series analysis. **93f:62128**
Zinde-Walsh, Victoria *see* **Galbraith, John W., 93d:62159**

Items with secondary classifications in 62M10

Anděl, Jiří (*with* Zvára, Karel) Simulation methods in time series. (*see* **93b:65007**)
Anderson, T. W. The asymptotic distribution of autocorrelation coefficients. (English summary) **93h:62174**
Andrews, Donald W. K. (*with* Monahan, J. Christopher) An improved heteroskedasticity and autocorrelation consistent covariance matrix estimator.
Ango Nzé, Patrick Critères d'ergodicité de quelques modèles à représentation markovienne. (English and French summaries) [Criteria of ergodicity for some models with a Markovian representation] **93h:60103**
Ansley, Craig F. (*with* Kohn, Robert Jacob; Shively, Thomas S.) Computing p-values for the generalized Durbin-Watson and other invariant test statistics. (English summary) **93k:62211**
— *see also* **Kohn, Robert Jacob; et al., 93h:62085**
Baek, Ehung G. (*with* Brock, William A.) A nonparametric test for independence of a multivariate time series. **93d:62085**
Baillie, Richard T. (*with* Bollerslev, Tim) Prediction in dynamic models with time-dependent conditional variances. **93f:62146**
Belforte, G. Parameter identification for models with bounded errors in all variables. (English summary) **93h:93082**
Benassi, Albert Analyse multi-échelle et probabilités. [Multiscale analysis and probability theory] (*see* **93k:65002**)
Benghabrit, Youssef (*with* Hallin, Marc) Optimal rank-based tests against first-order superdiagonal bilinear dependence. (English summary) **93i:62040**
Berman, Simeon M. Estimation of the tail of the spectral distribution by means of high level sojourn times. **93e:62240**
Bollerslev, Tim *see* **Baillie, Richard T., 93f:62146**
Bondarenko, M. V. (*with* Poznyak, A. S.) Asymptotic normality and an estimate for the rate of convergence of algorithms for the identification of nonstationary objects. (Russian. Russian summary) **93i:93115**
Borwankar, J. D. *see* **Chaudhuri, G.; et al., 93a:62091**
Bosq, Denis Prévision d'une fonction aléatoire. (English and Italian summaries) [Prediction of a random function] **93e:62244**
— Propriétés asymptotiques des processus autorégressifs banachiques. Applications. (English and French summaries) [Asymptotic properties of autoregressive processes in Banach spaces. Applications] **93k:60081**
Bougerol, Philippe (*with* Picard, Nico) Strict stationarity of generalized autoregressive processes. (English summary) **93i:60071**
Boutahar, Mohamed Distribution asymptotique de l'estimateur des moindres carrés. Cas des modèles $ARX(p,s)$ instables. (English summary) [Asymptotic distribution of least-squares estimates in unstable $ARX(p,s)$ models] **93e:62241**
Brock, William A. *see* **Baek, Ehung G., 93d:62085**
Cao, Xin *see* **Liu, De Lin; et al.**
Chambers, Marcus J. Discrete models for estimating general linear continuous time systems. **93f:62147**
Chanda, Kamal C. (*with* Ruymgaart, Frits H.) Curve estimation for m_n-decomposable time series including bilinear processes. **93b:62055**
Chatterjee, Sangit (*with* Yilmaz, Mustafa R.) Chaos, fractals and statistics.
Chaudhuri, G. (*with* Borwankar, J. D.; Rao, P. R. K.) Bhattacharyya distance-based linear discrimination. **93a:62091**
Chen, Han Fu (*with* Guo, Lei; Zhang, Ji Feng) Identification and adaptive control for ARMAX systems. **93a:93002**
— (*with* Zhang, Ji Feng) On identifiability for multidimensional ARMAX model. (English summary) **93m:93093**

Chen, Rong (*with* Tsay, Ruey S.) On the ergodicity of TAR(1) processes. **93d:60108**
Cheng, Qian Sheng On the unique representation of non-Gaussian linear processes. **93d:60059**
Dargahi-Noubary, G. R. Discrimination between Gaussian time series based on their spectral differences. (English summary) **93i:62083**
Deniau, Claude (*with* Viano, Marie-Claude; Oppenheim, Georges) Une classe de processus fractionnaires à temps continu. (English and French summaries) [A class of fractional continuous-time processes] **93h:60058**
Durbin, James On a test of serial correlation for regression models with lagged dependent variables. (English summary) (*see* **93b:62003**)
Durlauf, Steven N. Spectral based testing of the martingale hypothesis. **93e:62212**
Eccleston, John A. *see* **Saunders, Ian W., 93k:62160**
Gouriéroux, Christian (*with* Monfort, Alain) Qualitative threshold ARCH models. **93g:62137**
Guo, Lei *see* **Chen, Han Fu; et al., 93a:93002**
Guyon, Xavier Variations et identification de champs gaussiens sur $\mathbf{R}^2$. [Variations and identification of Gaussian fields in $\mathbf{R}^2$] (*see* **93k:65002**)
Hallin, Marc (*with* Mélard, Guy; Milhaud, Xavier) Permutational extreme values of autocorrelation coefficients and a Pitman test against serial dependence. **93d:62089**
— *see also* **Benghabrit, Youssef, 93i:62040**
Hansen, Lars Peter (*with* Singleton, Kenneth J.) Computing semiparametric efficiency bounds for linear time series models. (*see* **93c:62005**)
Hardin, Jay C. (*with* Makagon, A.; Miamee, A. G.) Correlation autoregressive sequences: a summary. (English summary) **93h:60059**
Härdle, Wolfgang (*with* Vieu, Philippe) Kernel regression smoothing of time series. **93g:62119**
Hidalgo, F. Javier Adaptive semiparametric estimation in the presence of autocorrelation of unknown form. **93c:62071**
Hili, Ouagnina Estimateurs du minimum de distance d'Hellinger des modèles EXPARMA. (English and French summaries) [Minimum Hellinger distance estimates for the EXPARMA models] **93h:62044**
Holiday, D. B. Considerations for optimal nonparametric regression under a generalized error structure. **93d:62067**
Houdré, Christian On the linear prediction of multivariate $(2, p)$-bounded processes. **93a:60056**
Ioannides, D. A. *see* **Roussas, George G.; et al., 93j:62105**
Janžura, Martin Asymptotic normality of linear-quadratic statistics for Gaussian random fields. **93i:62084**
Jayakumar, K. (*with* Pillai, R. N.) The first-order autoregressive Mittag-Leffler process. (English summary)
Jiang, Ji Ming Parameter estimation of spatial AR model. **93f:62132**
Kemp, Gordon C. R. The joint distribution of forecast errors in the AR(1) model. **93f:62130**
Kohn, Robert Jacob (*with* Ansley, Craig F.; Wong, Chi-Ming) Nonparametric spline regression with autoregressive moving average errors. (English summary) **93h:62085**
— *see also* **Ansley, Craig F.; et al., 93k:62211**
Koul, Hira L. A weak convergence result useful in robust autoregression. **93d:60056**
Kowalski, Aleksander (*with* Szynal, Dominik) On general ARMA models and regularity conditions. (English summary) (*see* **93d:93009**)
Kulkarni, P. M. Estimation of parameters of a two-dimensional spatial autoregressive model with regression. (English summary) **93m:62206**
Lee, Hahn Shik Maximum likelihood inference on cointegration and seasonal cointegration. (English summary) **93k:62215**
Leitner, Martin Regularity and singularity of weakly stationary processes indexed by a commutative hypergroup. **93j:60043**
Li, De Li (*with* Rao, M. Bhaskara; Wang, Xiang Chen) Complete convergence of moving average processes. **93g:60065**
Li, Ze Zhi A notable example of a nonstationary ARMA process. (Chinese. English summary) **93d:60062**
Liese, Friedrich Every continuous first order autoregressive stochastic process is a Gaussian process. **93e:60077**
Littlejohn, R. P. Discrete minification processes and reversibility. **93a:60096**
Liu, De Lin (*with* Cao, Xin; Sheng, Zhao Han) Nonergodicity and transience of a class of nonlinear time series models. (Chinese. English and Chinese summaries)
Liu, Xue Pu Invariance principle for the integral periodogram of a multiple time series. **93f:62129**
Makagon, A. *see* **Hardin, Jay C.; et al., 93h:60059**
Malinovskii, V. K. Asymptotic expansions in a problem of the sequential estimation of an autoregression parameter. (Russian)
Marschner, Ian C. Robust methods for dependent cell pedigree data. (English summary)
Mélard, Guy *see* **Hallin, Marc; et al., 93d:62089**
Miamee, A. G. *see* **Hardin, Jay C.; et al., 93h:60059**
Milhaud, Xavier *see* **Hallin, Marc; et al., 93d:62089**
Monahan, J. Christopher *see* **Andrews, Donald W. K.**
Monfort, Alain *see* **Gouriéroux, Christian, 93g:62137**
Mukhopadhyay, Nitis (*with* Sriram, T. N.) On sequential comparisons of means of first-order autoregressive models. **93i:62073**
Nassiuma, D. K. (*with* Ordoukhani, N.) Forecasting of some transformed series. **93f:62131**
— (*with* Thavaneswaran, A.) Smoothed estimates for nonlinear time series models with irregular data. (English summary) **93j:62216**
Nelson, Daniel B. Filtering and forecasting with misspecified ARCH models. I. Getting the right variance with the wrong model. **93k:62217**
Nowak, Eugen Identifiability in multivariate dynamic linear errors-in-variables models. (English summary) **93m:62220**
Nyquist, Hans L_1-norm estimation of regression models with serially dependent error terms. (English summary) (*see* **93k:62005**)
Oppenheim, Georges *see* **Deniau, Claude; et al., 93h:60058**
Ordoukhani, N. *see* **Nassiuma, D. K., 93f:62131**
Picard, Nico *see* **Bougerol, Philippe, 93i:60071**
Pillai, R. N. *see* **Jayakumar, K.**
Politis, Dimitris N. (*with* Romano, Joseph P.) A circular block-resampling procedure for stationary data. (English summary) **93j:62123**
Poskitt, D. S. (*with* Salau, M. O.) Stable spectral factorization with applications to the estimation of time series models. (English summary) **93k:62194**
Pourahmadi, Mohsen Alternating projections and interpolation of stationary processes. (English summary) **93m:60077**
Poznyak, A. S. *see* **Bondarenko, M. V., 93i:93115**
Pupeikis, Rimantas Model order determination using robust hypothesis-testing procedures. (English, Russian and Lithuanian summaries)
Rajarshi, M. B. *see* **Ramanathan, T. V., (93h:62004)**
Ramanathan, T. V. (*with* Rajarshi, M. B.) Stationary distribution of random coefficient autoregressive models: some approximations and numerical evaluations. (English summary) (*see* **93h:62004**)
Rao, M. Bhaskara *see* **Li, De Li; et al., 93g:60065**
Rao, P. R. K. *see* **Chaudhuri, G.; et al., 93a:62091**
Robinson, Peter M. Nonparametric function estimation for long memory time series. **93g:62059**
Romano, Joseph P. *see* **Politis, Dimitris N., 93j:62123**
Roussas, George G. (*with* Tran, Lanh Tat; Ioannides, D. A.) Fixed design regression for time series: asymptotic normality. **93j:62105**
Ruymgaart, Frits H. *see* **Chanda, Kamal C., 93b:62055**
Saikkonen, Pentti Estimation and testing of cointegrated systems by an autoregressive approximation. **93g:62138**
Salau, M. O. *see* **Poskitt, D. S., 93k:62194**
Saunders, Ian W. (*with* Eccleston, John A.) Experimental design for continuous processes. (English summary) **93k:62160**
Schwetlick, H. Nonlinear parameter estimation: models, criteria and algorithms. **93f:65012**
Sheng, Zhao Han *see* **Liu, De Lin; et al.**
Shively, Thomas S. *see* **Ansley, Craig F.; et al., 93k:62211**
Sim, C. H. On the simulation of geometric processes. (English summary)
— Point processes with correlated gamma interarrival times. (English summary) **93m:60093**
Singleton, Kenneth J. *see* **Hansen, Lars Peter, (93c:62005)**
Sørensen, Bent E. Continuous record asymptotics in systems of stochastic differential equations. **93e:62218**
Sriram, T. N. *see* **Mukhopadhyay, Nitis, 93i:62073**
Szynal, Dominik *see* **Kowalski, Aleksander, (93d:93009)**
Thavaneswaran, A. *see* **Nassiuma, D. K., 93j:62216**
Tran, Lanh Tat On multivariate variable-kernel density estimates for time series. (French summary) **93f:62061**
— Kernel density estimation for linear processes. **93d:62080**
— *see also* **Roussas, George G.; et al., 93j:62105**
Truong, Young K. Robust nonparametric regression in time series. **93h:62088**
Tsay, Ruey S. *see* **Chen, Rong, 93d:60108**
Vaccaro, Richard J. (*with* Vukina, Tomislav) A solution to the positivity problem in the state-space approach to modeling vector-valued time series. (English summary) **93k:90026**
Viano, Marie-Claude *see* **Deniau, Claude; et al., 93h:60058**
Vieu, Philippe *see* **Härdle, Wolfgang, 93g:62119**
Vukina, Tomislav *see* **Vaccaro, Richard J., 93k:90026**
Wang, Xiang Chen *see* **Li, De Li; et al., 93g:60065**
Wong, Chi-Ming *see* **Kohn, Robert Jacob; et al., 93h:62085**
Yilmaz, Mustafa R. *see* **Chatterjee, Sangit**
Zhang, Ji Feng *see* **Chen, Han Fu; et al., 93a:93002** *and* **93m:93093**
Zhang, Zhi Yong Identification of parsimonious model structures. (English and Chinese summaries) **93j:93038**
Zvára, Karel *see* **Anděl, Jiří, (93b:65007)**

62M15 Spectral analysis

Alekseev, V. G. On spectral density estimates for a Gaussian periodically correlated random field. **93a:62130**
— Asymptotic properties of higher-order periodograms. (Russian)
Berman, Simeon M. Estimation of the tail of the spectral distribution by means of high level sojourn times. **93e:62240**
Boutahar, Mohamed Distribution asymptotique de l'estimateur des moindres carrés. Cas des modèles ARX(p, s) instables. (English summary) [Asymptotic distribution of least-squares estimates in unstable ARX(p, s) models] **93e:62241**
Brillinger, David R. Some asymptotics of finite Fourier transforms of a stationary p-adic process. (English summary) **93k:62193**
— The digital rainbow: some history and applications of numerical spectrum analysis. (English and French summaries)
Chou, I-Shang (*with* Lii, Keh-Shin) Spectral analysis of random fields with random sampling. (English summary) (*see* **93e:00029**)
Dargahi-Noubary, G. R. Discrimination between Gaussian time series based on their spectral differences. (English summary) **93i:62083**
Dehay, Dominique Estimation de paramètres fonctionnels spectraux de certains processus non-nécessairement stationnaires. (English summary) [Estimation of some spectral functional parameters of not necessarily stationary processes] **93a:62131**
Demesh, N. N. Some properties of a modified periodogram of observations of a discrete stable stationary process. (Russian) **93a:62132**
Franke, Jürgen (*with* Härdle, Wolfgang) On bootstrapping kernel spectral estimates. **93b:62129**
Galkin, V. Ya. (*with* Karpenko, V. A.) The maximum entropy principle in problems of the identification of nonstationary processes of a certain class. (Russian. Russian summary)
Gangopadhyay, Ashis K. *see* **Pawitan, Y., 93e:62242**
Gkhazal, Mokhamed (*with* Trush, N. N.) An inequality for data view windows. (Russian. Russian summary)
Härdle, Wolfgang *see* **Franke, Jürgen, 93b:62129**
Hurd, Harry L. (*with* Leśkow, Jacek) Estimation of the Fourier coefficient functions and their spectral densities for φ-mixing almost periodically correlated processes. (English summary) **93h:62172**

Jiang, Li Ping A consistent estimator of the bispectral density function and spectral estimation of non-Gaussian series with noise. (Chinese. English and Chinese summaries)
Karpenko, V. A. *see* **Galkin, V. Ya.**
Kumon, Masayuki Identification of non-minimum phase transfer function using higher-order spectrum. (English summary) **93h:62173**
Leśkow, Jacek *see* **Hurd, Harry L., 93h:62172**
Lii, Keh-Shin (*with* Rosenblatt, Murray) Cumulant spectral estimates: bias and covariance. **93c:62153**
— *see also* **Chou, I-Shang, (93e:00029)**
Liu, Xue Pu Invariance principle for the integral periodogram of a multiple time series. **93f:62129**
Mladenović, Pavle On covariance of spectral estimates of stationary random sequence. **93b:62130**
Molchan, G. M. Exact resolution thresholds for close frequencies. **93a:62133**
Pawitan, Y. (*with* Gangopadhyay, Ashis K.) Efficient bias corrected nonparametric spectral estimation. **93e:62242**
Poskitt, D. S. (*with* Salau, M. O.) Stable spectral factorization with applications to the estimation of time series models. (English summary) **93k:62194**
Rigas, A. G. Spectral analysis of stationary point processes using the fast Fourier transform algorithm. (English summary) **93e:62243**
Rosenblatt, Murray *see* **Lii, Keh-Shin, 93c:62153**
Salau, M. O. *see* **Poskitt, D. S., 93k:62194**
Shcherbakov, M. A. Investigation of statistical estimates for Wiener kernels in a frequency domain. (Russian. Russian summary)
Terdik, György Stationarity in fourth order and the marginal bispectrum for bilinear models with Gaussian residuals. (English summary) **93m:62203**
Trush, N. N. *see* **Gkhazal, Mokhamed**
Tunik, A. A. *see* **Tveritinov, V. V.**
Tveritinov, V. V. (*with* Tunik, A. A.) A sequential recurrent algorithm for spectral estimation of time series. (Russian. Russian summary)

Items with secondary classifications in 62M15

Benedetto, John J. Stationary frames and spectral estimation. (English summary) **93g:42010**
Chapman, G. Robert *see* **Kim, Peter T., 93j:60042**
Grieszbach, G. *see* **Schack, B.; et al., 93k:62210**
Hannan, E. J. Missed opportunities. (English summary) (*see* **93b:62003**)
Joyeux, Roselyne Tests for seasonal cointegration using principal components. **93i:62081**
Kedem, Benjamin (*with* Lopes, Silvia) Fixed points in mixed spectrum analysis. (English summary) (*see* **93e:00029**)
Kim, Peter T. (*with* Chapman, G. Robert) Group action on a lattice and an application to time series analysis. (English summary) **93j:60042**
Kozachenko, Yu. V. (*with* Stadnik, A. I.) Convergence of some functionals of Gaussian vectors in Orlicz spaces. (Russian) **93d:60034**
— (*with* Stadnik, A. I.) Pre-Gaussian processes and convergence in $C(T)$ of estimates for covariance functions. (Russian) **93d:60065**
Lii, Keh-Shin (*with* Tsou, T.-H.) Detecting sinusoids in non-Gaussian noise. (English summary) **93h:62164**
Lopes, Silvia *see* **Kedem, Benjamin, (93e:00029)**
Makagon, A. (*with* Miamee, A. G.; Salehi, Habib) Periodically correlated processes and their spectrum. (English summary) **93k:60083**
Meaux, Laurie M. *see* **Terdik, György, 93b:60077**
Miamee, A. G. *see* **Makagon, A.; et al., 93k:60083**
Salehi, Habib *see* **Makagon, A.; et al., 93k:60083**
Schack, B. (*with* Wagner, H.; Witte, H.) Statistical comparison of band spectral power: an aid in stochastical analysis of brain electrical activity. I. Approximation of the distribution of broad band power by a χ^2-distribution. (German summary) **93b:62140**
— (*with* Wagner, H.; Grieszbach, G.; Witte, H.) Statistical comparison of band spectral powers: an aid in stochastical analysis of brain electrical activity. II. Construction of confidence intervals of spectral band power and their application in EEG-analysis. (English and German summaries) **93k:62210**
Stadnik, A. I. *see* **Kozachenko, Yu. V., 93d:60034** *and* **93d:60065**
Subba Rao, T. *see* **Yuan, J., 93k:62198**
Terdik, György (*with* Meaux, Laurie M.) The exact bispectra for bilinear realizable processes with Hermite degree 2. **93b:60077**
Tsou, T.-H. *see* **Lii, Keh-Shin, 93h:62164**
Wagner, H. *see* **Schack, B.; et al., 93b:62140** *and* **93k:62210**
Witte, H. *see* **Schack, B.; et al., 93b:62140** *and* **93k:62210**
Yuan, J. (*with* Subba Rao, T.) Higher order spectral estimation for random fields. (English summary) **93k:62198**
Zhang, Hong Qing^2 Reduction of the asymptotic bias of autoregressive and spectral estimators by tapering. (English summary) **93m:62202**

62M20 Prediction [see also 60G25]; filtering [see also 60G35, 93E10, 93E11]

Anderson, T. W. The asymptotic distribution of autocorrelation coefficients. (English summary) **93h:62174**
Beran, Rudolf Controlling conditional coverage probability in prediction. **93g:62118**
Bosq, Denis Prévision d'une fonction aléatoire. (English and Italian summaries) [Prediction of a random function] **93e:62244**
Ge, Yan Xiang *see* **Zhang, Xiao Ling; et al.**
Härdle, Wolfgang (*with* Vieu, Philippe) Kernel regression smoothing of time series. **93g:62119**
Kemp, Gordon C. R. The joint distribution of forecast errors in the AR(1) model. **93f:62130**
Lazareva, B. V. Some procedures for the interpolation of a partially observable Markov process. (Russian) **93m:62204**
Le, Nhu D. (*with* Zidek, James V.) Interpolation with uncertain spatial covariances: a Bayesian alternative to Kriging. (English summary) **93k:62195**
Nassiuma, D. K. (*with* Ordoukhani, N.) Forecasting of some transformed series. **93f:62131**
Ordoukhani, N. *see* **Nassiuma, D. K., 93f:62131**
Rhomari, Noureddine Interpolation et prédiction non paramétrique d'un processus non nécessairement markovien: étude de l'erreur quadratique. (English and French summaries) [Interpolation and nonparametric prediction for a not necessarily Markov process: study of the quadratic error] **93h:62175**
Vieu, Philippe *see* **Härdle, Wolfgang, 93g:62119**
Watson, Patrick Kent The derivation of optimal forecasts of stochastic processes using a Bayes decision framework.
Xu, Da Ming Differential geometrical structures related to forecasting error variance ratios. **93e:62245**
Zhang, Cheng Jin *see* **Zhang, Xiao Ling; et al.**
Zhang, Hong Xing^2 Forecasting of a class of double time series models. (Chinese. English and Chinese summaries)
Zhang, Xiao Ling (*with* Ge, Yan Xiang; Zhang, Cheng Jin) Nonlinear dynamic models and Bayesian forecasting. (Chinese. Chinese summary)
Zidek, James V. *see* **Le, Nhu D., 93k:62195**

Items with secondary classifications in 62M20

Arjas, Elja (*with* Haara, Pentti; Norros, Ilkka) Filtering the histories of a partially observed marked point process. **93j:60054**
Belitser, E. N. (*with* Korostelëv, A. P.) Pseudovalues and minimax filtering algorithms for the nonparametric median. **93k:60102**
Bensaïd, Nadia Méthode hilbertienne pour la prévision non paramétrique d'un processus ponctuel. (English summary) [Hilbert method for the nonparametric prediction of a point process] **93b:60083**
Berliner, L. Mark Likelihood and Bayesian prediction of chaotic systems. **93e:62228**
Björk, Tomas (*with* Johansson, Björn) Adaptive prediction and reverse martingales. (English summary) **93m:60081**
Bosq, Denis Nonparametric prediction for unbounded almost stationary processes. **93a:62080**
— Modelization, nonparametric estimation and prediction for continuous time processes. **93a:62124**
Bukhalev, V. A. Optimal smoothing in systems with a randomly switching structure. (Russian. Russian summary) **93i:93126**
Chen, Cathy W. S. Bayesian inferences and forecasting in bilinear time series models.
Eltinge, John L. Exponential convergence properties of autocovariance matrix inverses and latent vector prediction coefficients. (English summary) **93j:62226**
Haara, Pentti *see* **Arjas, Elja; et al., 93j:60054**
Hurd, Harry L. (*with* Leśkow, Jacek) Estimation of the Fourier coefficient functions and their spectral densities for φ-mixing almost periodically correlated processes. (English summary) **93h:62172**
James, Matthew R. (*with* Le Gland, François) Numerical approximation for nonlinear filtering and finite-time observers. **93f:93127**
Jeske, Daniel R. Predicting the value of an integer-valued random variable. (English summary) **93m:60076**
Johansson, Björn *see* **Björk, Tomas, 93m:60081**
Khas'minskii, R. Z. (*with* Lazareva, B. V.) On some filtration procedure for jump Markov process observed in white Gaussian noise. (English summary) **93m:60082**
Korostelëv, A. P. *see* **Belitser, E. N., 93k:60102**
Kowalski, Aleksander (*with* Szynal, Dominik) On prediction in time-dependent L^1-ARMA models. **93b:60084**
Lazareva, B. V. *see* **Khas'minskii, R. Z., 93m:60082**
Le Gland, François *see* **James, Matthew R., 93f:93127**
Leitner, Martin Regularity and singularity of weakly stationary processes indexed by a commutative hypergroup. **93j:60043**
Leśkow, Jacek *see* **Hurd, Harry L., 93h:62172**
Liptser, R. Sh. (*with* Lototskiĭ, S. V.) Diffusion approximation and robust Kalman filter. **93b:93109**
Lototskii, S. V. *see* **Liptser, R. Sh., 93b:93109**
Norros, Ilkka *see* **Arjas, Elja; et al., 93j:60054**
Ould-Said, Elias Estimation non paramétrique du mode conditionnel. Application à la prévision. (English and French summaries) [Nonparametric estimation of the conditional mode. Application to prediction] **93m:62080**
Szynal, Dominik *see* **Kowalski, Aleksander, 93b:60084**
Tong, Howell Some comments on a bridge between nonlinear dynamicists and statisticians. (English summary) **93h:62171**
Weba, Michael Simulation and approximation of stochastic processes by spline functions. (English summary) **93f:60075**
Wei, Ching Zong On predictive least squares principles. **93k:62192**

62M30 Spatial processes

Besag, Julian (*with* Green, Peter J.) Spatial statistics and Bayesian computation. (English summary)
Clyde, Merlise (*with* Strauss, David) Logistic regression for spatial pair-potential models. (English summary) (*see* **93g:62004**)
Cressie, Noel *see* **Zimmerman, Dale L., 93e:62246**
Green, Peter J. *see* **Besag, Julian**
Ji, Chuanshu Some estimation problems for Gibbs states. (English summary) (*see* **93g:62004**)
Jiang, Ji Ming Uniform convergence rate of sample ACV and ACR for linear spatial series under more general martingale condition. **93b:62131**
— Parameter estimation of spatial AR model. **93f:62132**
Kashiwagi, Nobuhisa On use of the Kalman filter for spatial smoothing. (English summary) **93m:62205**
Kay, J. W. A comparison of smoothing parameter choices in image restoration. (English summary) (*see* **93g:62004**)
Krug, T. (*with* Martin, Richard John) Information loss on the mean for spatial processes when some values are missing. **93c:62154**

Kulkarni, P. M. Estimation of parameters of a two-dimensional spatial autoregressive model with regression. (English summary) **93m:62206**
Martin, Richard John *see* **Krug, T., 93c:62154**
Morin, Danielle On some properties of the Moran index. (English and Italian summaries) **93j:62233**
Myers, Donald E. Multidimensional multivariable smoothing. (English summary) (*see* **93g:62004**)
Phelan, Michael J. Point processes and inference for rainfall fields. (English summary) **93g:62120**
Posa, Donato A simple description of spatial-temporal processes. (English summary) **93m:62207**
Strauss, David *see* **Clyde, Merlise, (93g:62004)**
Thomson, P. J. Signal estimation using stochastic velocity models and irregular arrays. **93k:62196**
Titterington, D. M. Choosing the regularization parameter in image restoration. (English summary) (*see* **93g:62004**)
Zimmerman, Dale L. (*with* Cressie, Noel) Mean squared prediction error in the spatial linear model with estimated covariance parameters. **93e:62246**

Items with secondary classifications in 62M30

Archambault, Sylvain *see* **Moore, Marc, 93j:60038**
Christakos, George Certain results on spatiotemporal random fields and their applications in environmental research. (English summary) (*see* **93e:00029**)
Cressie, Noel Modeling growth with random sets. (English summary) (*see* **93g:62004**)
Gull, Stephen F. *see* **Skilling, John, (93g:62004)**
Haslett, John (*with* Horgan, Graham) Linear discriminant analysis in image restoration and the prediction of error rate. (English summary) (*see* **93g:62004**)
Horgan, Graham *see* **Haslett, John, (93g:62004)**
Molchanov, I. S. Random sets. A survey of some results and applications. (Russian. Ukrainian summary) **93e:60026**
Moore, Marc (*with* Archambault, Sylvain) On the asymptotic behavior of some statistics based on morphological operations. (English summary) **93j:60038**
Qian, Wei (*with* Titterington, D. M.) Normal approximations for lattice systems. **93a:60163**
Skilling, John (*with* Gull, Stephen F.) Bayesian maximum entropy image reconstruction. (English summary) (*see* **93g:62004**)
Titterington, D. M. *see* **Qian, Wei, 93a:60163**

62M40 Random fields

Andersen, Lars Smedegaard Inference for hidden Markov models. (English summary) **93h:62176**
Bektashov, S. (*with* Yadrenko, M. I.) Statistical estimates for the unknown mean of a homogeneous and isotropic random field. (Russian) **93c:62155**
Buldygin, V. V. (*with* Dem'yanenko, O. O.) Pointwise properties of estimates for the mutual correlation function of Gaussian fields. (Russian. Russian summary) **93j:62234**
Chadœuf, J. (*with* Nandris, D.; Geiger, J. P.; Nicole, M.; Pierrat, J. C.) Modélisation spatio-temporelle d'une epidémie par un processus de Gibbs: estimation et tests. (English and French summaries) [Spatiotemporal modelling of an epidemic using a Gibbs process: estimation and tests]
Comets, Francis Statistical analysis of Markov random fields using large deviation estimates. (English summary) (*see* **93e:62005**)
Dem'yanenko, O. O. *see* **Buldygin, V. V., 93j:62234**
Gebizlioğlu, Ömer L. Spatial processes: modelling, estimation, and hypothesis testing. (English summary)
Geiger, J. P. *see* **Chadœuf, J.; et al.**
Granville, V. (*with* Rasson, J.-P.) A new modelisation of noise in image remote sensing.
— (*with* Rasson, J.-P.) A Bayesian filter for a mixture model of noise in image remote sensing. (English summary)
Guyon, Xavier (*with* Künsch, Hans R.) Asymptotic comparison of estimators in the Ising model. (*see* **93e:62005**)
Högmander, H. A random field approach to transect counts of wildlife populations. (English summary) **93h:62177**
Janžura, Martin Asymptotic normality of linear-quadratic statistics for Gaussian random fields. **93i:62084**
Knopov, P. S. Estimation of the drift parameter of random fields. (Russian) **93d:62163**
Künsch, Hans R. *see* **Guyon, Xavier, (93e:62005)**
Lebedev, V. S. Estimation of the parameters of an image that is observable in two-parameter white noise. (Russian) (*see* **93b:60003**)
Le Fe Do *see* **Leonenko, N. N., 93e:62247**
Leonenko, N. N. (*with* Le Fe Do) Asymptotic properties of estimates of the regression coefficients of random fields. (Russian. English summary) **93e:62247**
Nandris, D. *see* **Chadœuf, J.; et al.**
Nicole, M. *see* **Chadœuf, J.; et al.**
Pierrat, J. C. *see* **Chadœuf, J.; et al.**
Rasson, J.-P. *see* **Granville, V.**
Shilo, L. V. A theorem on an estimate for the mean of a stationary random field. (Russian) **93e:62248**
Steinberg, Y. (*with* Zeitouni, Ofer) On tests for normality. (English summary) **93k:62197**
Subba Rao, T. *see* **Yuan, J., 93k:62198**
Yadrenko, M. I. *see* **Bektashov, S., 93c:62155**
Younes, Laurent Maximum likelihood estimation for Gibbsian fields. (English summary) (*see* **93g:62004**)
Yuan, J. (*with* Subba Rao, T.) Higher order spectral estimation for random fields. (English summary) **93k:62198**
Zayats, V. V. Estimation, based on a sample, of the correlation function of a homogeneous Gaussian field on the entire parametric set. (Russian) **93d:62164**
Zeitouni, Ofer *see* **Steinberg, Y., 93k:62197**

Items with secondary classifications in 62M40

Alekseev, V. G. On spectral density estimates for a Gaussian periodically correlated random field. **93a:62130**
Bustos, Oscar H. (*with* Frery, Alejandro C.) A contribution to the study of Markovian degraded images: an extension of a theorem by Geman and Geman. (English and Portuguese summaries) **93i:68187**
Chou, I-Shang (*with* Lii, Keh-Shin) Spectral analysis of random fields with random sampling. (English summary) (*see* **93e:00029**)
Christakos, George Certain results on spatiotemporal random fields and their applications in environmental research. (English summary) (*see* **93e:00029**)
Comets, Francis On consistency of a class of estimators for exponential families of Markov random fields on the lattice. **93c:82024**
Denny, J. L. (*with* Wright, A. Larry) Inference about the shape of neighboring points in fields. (English summary) **93h:62155**
Dinten, J. M. (*with* Guyon, Xavier; Yao, Jian Feng) On the choice of the regularization parameter: the case of binary images in the Bayesian restoration framework. (English summary) **93j:60055**
Donchenko, V. S. (*with* Shpak, V. M.) Estimation of parameters based on the Hough transform. (Russian. Russian summary) (*see* **93m:60009**)
Frery, Alejandro C. *see* **Bustos, Oscar H., 93i:68187**
Granville, V. (*with* Rasson, J.-P.) Density estimation on a finite regular lattice. (English summary) **93e:62104**
Guyon, Xavier (*with* Hardouin, C.) The chi-square coding test for nested Markov random field hypotheses. (English and French summaries) **93j:62207**
— *see also* **Dinten, J. M.; et al., 93j:60055**
Hardouin, C. *see* **Guyon, Xavier, 93j:62207**
Lii, Keh-Shin *see* **Chou, I-Shang, (93e:00029)**
Mase, Shigeru (*with* Ogata, Yosihiko; Tanemura, Masaharu) Statistical point configuration data—the present state of theory and applications. (Japanese)
Ogata, Yosihiko *see* **Mase, Shigeru; et al.**
Possolo, Antonio Subsampling a random field. (English summary) **93h:62156**
Rasson, J.-P. *see* **Granville, V., 93e:62104**
Różański, Roman Minimax sequential estimation based on random fields. **93h:62149**
Shpak, V. M. *see* **Donchenko, V. S., (93m:60009)**
Siegmund, David O. Tail approximations for maxima of random fields. (English summary) **93k:60129**
Tanemura, Masaharu *see* **Mase, Shigeru; et al.**
Wright, A. Larry *see* **Denny, J. L., 93h:62155**
Yao, Jian Feng *see* **Dinten, J. M.; et al., 93j:60055**

62M99 None of the above, but in this section

Ayala, G. (*with* Ferrándiz, Juan; Montes, F.) On parametric estimation in Boolean models. (English summary) (*see* **93m:62007**)
Bar-Lev, Shaul K. (*with* Enis, Peter) Variance stabilizing and normalizing transformations for the compound Poisson process. **93c:62156**
Beran, Rudolf Designing prediction bands. **93k:62199**
Dabrowski, André Robert (*with* McDonald, David) Statistical analysis of multiple ion channel data. (English summary) **93m:62208**
Enis, Peter *see* **Bar-Lev, Shaul K., 93c:62156**
Ferrándiz, Juan *see* **Ayala, G.; et al., (93m:62007)**
Li, Ker-Chau Uncertainty analysis for mathematical models with SIR. (English summary) (*see* **93b:60004**)
Lieberman, Gerald J. (*with* Ross, Sheldon M.) On the variance of the hazard estimator in simulation. (English summary)
Loader, Clive R. A log-linear model for a Poisson process change point. (English summary) **93k:62200**
McDonald, David *see* **Dabrowski, André Robert, 93m:62208**
Montes, F. *see* **Ayala, G.; et al., (93m:62007)**
Ross, Sheldon M. *see* **Lieberman, Gerald J.**
Zadrozny, Peter A. Errata to: "Analytic derivatives for estimation of linear dynamic models" [Comput. Math. Appl. **18** (1989), no. 6-7, 539–553].

Items with secondary classifications in 62M99

Ango Nzé, Patrick (*with* Portier, Bruno) Estimation de la densité et de la fonction de régression d'un processus stationnaire géométriquement β-mélangeant. (English and French summaries) [Estimation of the density or of the regression function for a β-mixing stationary process] **93h:62066**
Anh, V. V. (*with* Lunney, K. E.) Generalised harmonic analysis of a class of nonstationary random fields. (English summary) **93i:60093**
Athreya, K. B. (*with* Fuh, C. D.) Bootstrapping Markov chains: countable case. (English summary) **93j:62113**
Benhenni, Karim (*with* Cambanis, Stamatis) Sampling designs for estimating integrals of stochastic processes. **93e:60074**
Buldygin, V. V. (*with* Zayats, V. V.) A limit theorem for an estimate for a correlation function under dual passage to the limit. (Russian. Russian summary) (*see* **93e:60002**)
Cambanis, Stamatis *see* **Benhenni, Karim, 93e:60074**
Chao, Min Te From animal trapping to type-token. **93a:60053**
Dehay, Dominique (*with* Moché, Raymond) Trace measures of a positive definite bimeasure. **93d:60061**
Fuh, C. D. *see* **Athreya, K. B., 93j:62113**
Glasserman, Paul (*with* Hu, Jian Qiang; Strickland, Stephen G.) Strongly consistent steady-state derivative estimates. (English summary) **93f:60139**
Hansen, Bruce E. Strong laws for dependent heterogeneous processes. **93b:60064**
— Erratum: "Strong laws for dependent heterogeneous processes" [Econometric Theory **7** (1991), no. 2, 213–221; MR 93b:60064]. **93j:60036**
Honoré, Bo E. Trimmed LAD and least squares estimation of truncated and censored regression models with fixed effects. **93a:62100**
Hu, Jian Qiang *see* **Glasserman, Paul; et al., 93f:60139**
Kailath, Thomas *see* **Viberg, M.; et al., 93j:62158**

Kim, Hyune-Ju Boundary crossing probabilities by nondifferentiable processes and applications to two-phase regression.
Lunney, K. E. *see* **Anh, V. V., 93i:60093**
Moché, Raymond *see* **Dehay, Dominique, 93d:60061**
Mordeski, Ernesto Convergence of binary statistical experiments and Hellinger processes. (Russian)
Ottersten, B. *see* **Viberg, M.; et al., 93j:62158**
Pham Dinh Tuan (*with* Tran, Lanh Tat) Kernel density estimation under a locally mixing condition. **93a:62062**
Portier, Bruno *see* **Ango Nzé, Patrick, 93h:62066**
Potseluev, A. V. Fundamentals of statistical analysis and synthesis of complicated dynamic systems. **93c:93009**
Roussas, George G. (*with* Tran, Lanh Tat) Asymptotic normality of the recursive kernel regression estimate under dependence conditions. **93a:62064**
Slud, Eric V. Partial likelihood for continuous-time stochastic processes. **93j:62002**
Strickland, Stephen G. *see* **Glasserman, Paul; et al., 93f:60139**
Sweeting, Trevor J. Asymptotic ancillarity and conditional inference for stochastic processes. **93b:62044**
Tartakovskii, A. G. *see* **Verdenskaya, N. V., 93d:62146**
Tran, Lanh Tat *see* **Pham Dinh Tuan, 93a:62062** *and* **Roussas, George G., 93a:62064**
Verdenskaya, N. V. (*with* Tartakovskii, A. G.) Asymptotically optimal sequential discrimination of several hypotheses for nonhomogeneous Gaussian processes in a nonsymmetric situation. (Russian) **93d:62146**
Viberg, M. (*with* Ottersten, B.; Kailath, Thomas) Subspace based detection for linear structural relations. (English summary) **93j:62158**
Yang, Song Some inequalities about the Kaplan-Meier estimator. **93b:62023**
Ycart, Bernard Integer valued Markov processes and exponential families. **93k:60210**
Zayats, V. V. *see* **Buldygin, V. V., (93e:60002)**

62Nxx Engineering statistics

62N05 Reliability and life testing [see also 90B25]

Abdel-Moneim, Tharwat M. *see* **El Mawaziny, Ahmed H.; et al.**
Abouammoh, A. M. (*with* Ahmed, Abdul-Hadi Nabih; Khalique, A.) Stochastic classes of life distributions. (English and Arabic summaries) **93c:62157**
— (*with* Ahmed, Abdul-Hadi Nabih) On renewal failure rate classes of life distributions. **93c:62158**
Achcar, Jorge Alberto (*with* Louzada Neto, Francisco) Accelerated life tests with one stress variable: a Bayesian analysis of the Eyring model. (English summary)
— (*with* Louzada Neto, Francisco) A Bayesian approach for accelerated life tests considering the Weibull distribution. (English summary)
Ahmad, Ibrahim A. A new test for mean residual life times. (English summary) **93j:62235**
Ahmed, Abdul-Hadi Nabih *see* **Abouammoh, A. M.; et al., 93c:62157** *and* **93c:62158**
Altınel, İsmail Kuban The design of optimum component test plans in the demonstration of a series system reliability. (English summary) **93m:62209**
Amato, David A. *see* **Lee, Eric W.; et al., (93b:62005)**
Ananda, Malwane M. A. Estimating the exponential reliability function for a system in series with type II censored data. (English summary) **93m:62210**
Anderson, Jon E. (*with* Louis, Thomas A.; Holm, Niels V.; Harvald, Bent) Time-dependent association measures for bivariate survival distributions. (English summary) **93f:62133**
Aras, Girish (*with* Whitaker, Lyn R.) A sequential scheme to estimate the optimal age replacement policy. (English summary) **93m:62211**
Bagai, Isha (*with* Prakasa Rao, B. L. S.) Analysis of survival data with two dependent competing risks. (English summary) **93j:62236**
Bain, Lee J. *see* **Engelhardt, Max, 93d:62169**
Basu, Asit P. Sequential methods in reliability and life testing. (*see* **93g:62102**)
— (*with* Ebrahimi, Nader) Bayesian approach to some problems in life testing and reliability estimation. (English summary) **93i:62085**
— (*with* Thompson, R. D.) Life testing and reliability estimation under asymmetric loss. (English summary) **93d:62165**
Beirlant, Jan (*with* Carbonez, A.; van der Meulen, Edward C.) Long run proportional hazards models of random censorship. (English summary) **93h:62178**
Belyaev, Yu. K. (*with* Dugina, T. N.; Chistyakova, N. V.) Estimation of the reliability of a system with multiple failures on the basis of incomplete data. (Russian. Russian summary)
Bhattacharya, Samir Kumar (*with* Tyagi, Ravinder K.) Bayesian reliability analysis for the two-parameter exponential distribution. (English and Italian summaries)
— *see also* **Tiwari, Ram C.; et al.**
Block, Henry W. (*with* Langberg, Naftali A.; Savits, Thomas H.) Comparisons for maintenance policies involving complete and minimal repair. (English summary) **93i:62086**
(Blumenthal, Saul) *see* **Engelhardt, Max, 93d:62169**
Boland, Philip J. (*with* El-Neweihi, Emad; Proschan, Frank) Redundancy importance and allocation of spares in coherent systems. **93a:62134**
— (*with* El-Neweihi, Emad; Proschan, Frank) Stochastic order for redundancy allocations in series and parallel systems. **93d:62166**
Bunday, Brian D. ★ Statistical methods in reliability theory and practice. **93b:62132**
Cai, J. *see* **Prentice, Ross L., 93j:62239**
Calabria, R. (*with* Pulcini, G.) Bayes probability intervals in a load-strength model. (English summary)
Cao, Jin Hua (*with* Wang, Yue Dong) Correction: "The NBUC and NWUC classes of life distributions" [J. Appl. Probab. **28** (1991), no. 2, 473–479; MR 92h:62156].
Carbonez, A. *see* **Beirlant, Jan; et al., 93h:62178**
Castillo, Enrique (*with* Fernández-Canteli, A.; Ruiz Cobo, María Reyes) Design of statistical lifetime models by functional equations. (*see* **93i:60005**)
Chatterjee, Aditya *see* **Mukherjee, S. P., 93e:62251; 93f:62135** *and* **93h:62181**
Chen, H. J. *see* **Ng, C. K.; et al., 93k:62206**
Chen, Keh-Wei (*with* Zheng, Zhong Guo) A class of tests using L-statistic for constant relative failure rate against monotone relative failure rate. (English summary) **93g:62121**
Chen, Wen Hao *see* **Wang, Shu Jun**
Cheng, Kan (*with* Ma, Ben Cheng) Characterizations of exponential distributions in life distribution classes. (Chinese. English and Chinese summaries)
— (*with* He, Zong Fu) A study on life distribution classes. (Chinese. English and Chinese summaries)
Cheng, Xi Yu Structural reliability design for a location scale family of distributions. (Chinese. English and Chinese summaries)
Chiou, Paul Shrinkage estimation of reliability in the exponential distribution.
Chistyakova, N. V. *see* **Belyaev, Yu. K.; et al.**
Cléroux, Robert *see* **Léger, Christian**
Crowder, Martin (*with* Kimber, A. C.; Smith, Robert L.; Sweeting, Trevor J.) ★ Statistical analysis of reliability data. **93d:62167**
— On the identifiability crisis in competing risks analysis. **93e:62249**
Dalal, S. R. (*with* Mallows, Colin L.) When to stop testing software? Some exact results. (English summary) **93k:62201**
Dargahi-Noubary, G. R. Estimation of stress-strength reliability based on tail-modelling. (English summary) **93d:62168**
Del Grosso, G. (*with* Gerardi, A.; Koch, Giorgio) Optimality in accelerated life tests. (English summary) **93k:62202**
Dhar, D. *see* **Mukhopadhyay, A. C.**
Dugina, T. N. *see* **Belyaev, Yu. K.; et al.**
Duran, B. S. *see* **Esparza, S. O.**
Ebrahimi, Nader *see* **Basu, Asit P., 93i:62085**
Egeland, Thore Mixing dependence and system reliability. **93h:62179**
— On the S-shaped theorem. **93a:62135**
El Mawaziny, Ahmed H. (*with* Shoukry, Elham; Abdel-Moneim, Tharwat M.) Weibull accelerated life testing under competing risks by using power rule model with increasing stress, and in case of step-stress. (English summary)
El-Neweihi, Emad *see* **Boland, Philip J.; et al., 93a:62134** *and* **93d:62166**
Engelhardt, Max (*with* Bain, Lee J.) Statistical analysis of a Weibull process with left-censored data. (English summary) **93d:62169**
Esparza, S. O. (*with* Duran, B. S.) Multistate coherent systems and the three modules theorem. (English summary)
Fan, Da Yin A bootstrap confidence limit for reliability of parallel systems with pass-fail components tested by inspections with a known probability of being correct. (Chinese. English and Chinese summaries)
Fernández-Canteli, A. *see* **Castillo, Enrique; et al., (93i:60005)**
Frick, Hans On Lachin's formulae for sample sizes of survival tests. **93c:62159**
Gajjar, Amrutbhai V. *see* **Patel, Manharlal N.**
Gerardi, A. *see* **Del Grosso, G.; et al., 93k:62202**
Ghosh, Jayanta K. (*with* Joshi, S. N.) On the asymptotic distribution of an estimate of the change point in a failure rate. (English summary) **93j:62237**
Gupta, Pushpa L. (*with* Gupta, Rameshwar D.) Relative errors in reliability measures. (English summary) **93g:62122**
Gupta, Rameshwar D. *see* **Gupta, Pushpa L., 93g:62122**
Harder, Melinda H. Minimum distance estimators of scale with censored data. (English summary) **93k:62203**
Harvald, Bent *see* **Anderson, Jon E.; et al., 93f:62133**
He, Zong Fu *see* **Cheng, Kan**
Herbst, Tomáš Test of fit with the Koziol-Green model for random censorship. **93e:62250**
Hollander, Myles (*with* Proschan, Frank; Sconing, James) Information, censoring, and dependence. (English summary) **93h:62180**
Holm, Niels V. *see* **Anderson, Jon E.; et al., 93f:62133**
Jain, Madhu Bala *see* **Sen, Kanwar, 93b:62133**
Jiang, Ji Ming *see* **Zheng, Zhong Guo**
Johnson, Richard A. Confidence estimation with discrete reliability growth models. **93a:62136**
— *see also* **Weerahandi, Samaradasa, 93b:62134**
Joshi, S. N. *see* **Ghosh, Jayanta K., 93j:62237**
Kanjo, Anis I. An exact test for NBUE class of survival functions. (English summary)
Khalique, A. *see* **Abouammoh, A. M.; et al., 93c:62157**
Khomenko, L. P. *see* **Kotlyar, V. Yu.**
Kimber, A. C. *see* **Crowder, Martin; et al., 93d:62167**
Koch, Giorgio *see* **Del Grosso, G.; et al., 93k:62202**
Kordecki, Wojciech (*with* Szajowski, Krzysztof) Analysis of the structure and the reliability of the multistage technical systems. (*see* **93a:60004**)
Kotlyar, V. Yu. On a class of "aging" distributions. (Russian. English and Ukrainian summaries) **93i:62087**
— (*with* Khomenko, L. P.) Classes of "ageing" distributions. (Russian. English and Ukrainian summaries)
Koutras, Markos V. *see* **Papastavridis, Stavros G., 93k:62207**
Kuo, Lynn (*with* Smith, Adrian F. M.) Bayesian computations in survival models via the Gibbs sampler. (English summary) (*see* **93b:62005**)
Lam, Kin *see* **Ng, C. K.; et al., 93k:62206**
Langberg, Naftali A. *see* **Block, Henry W.; et al., 93i:62086**
Lau, Tai-Shing The reliability of exchangeable binary systems. **93c:62160**
(Laud, Purushottam W.) *see* **Basu, Asit P., 93d:62165**
Lee, Eric W. (*with* Wei, L. J.; Amato, David A.) Cox-type regression analysis for large numbers of small groups of correlated failure time observations. (English summary) (*see* **93b:62005**)
Léger, Christian (*with* Cléroux, Robert) Nonparametric age replacement: bootstrap confidence intervals for the optimal cost. (English summary)
(Leurgans, Sue) *see* **Lee, Eric W.; et al., (93b:62005)**
Limnios, N. Repairable failure-delay systems with elementary structure. (English summary)
Lin, C. H. (*with* Sukhatme, Shashikala) On the choice of precedence tests. (English summary) **93g:62123**
Lindqvist, Bo Henry Moment inequalities for the reliability function. **93k:62204**

Lo, Shaw-Hwa Estimating a survival function with incomplete cause-of-death data. **93f:62134**
Louis, Thomas A. *see* **Anderson, Jon E.; et al., 93f:62133**
Louzada Neto, Francisco *see* **Achcar, Jorge Alberto**
Lu, Jye-Chyi Effects of dependence on modeling system reliability and mean life via a multivariate Weibull distribution. (English summary)
Ma, Ben Cheng *see* **Cheng, Kan**
(MacEachern, Steven) *see* **Kuo, Lynn, (93b:62005)**
Mallows, Colin L. *see* **Dalal, S. R., 93k:62201**
Manoharan, M. Preservation of ILR property under mixed Poisson shock model. (English summary) **93k:62205**
Mao, Shi Song (*with* Xia, Jian Feng) The hierarchical Bayesian analysis of the zero-failure data. (English summary)
Menzefricke, Ulrich Designing accelerated life tests when there is type II censoring. (English summary)
van der Meulen, Edward C. *see* **Beirlant, Jan; et al., 93h:62178**
Mi, Jie Discrete bathtub failure rate and upside-down bathtub mean residual life. (English summary) **93j:62238**
Mukherjee, S. P. (*with* Chatterjee, Aditya) On some closure properties of dominance relations between life distributions based on reliability measures. **93f:62135**
— (*with* Chatterjee, Aditya) On some properties of the multivariate aging classes. (English summary) **93h:62181**
— (*with* Chatterjee, Aditya) Stochastic dominance of higher orders and its implications. **93e:62251**
Mukhopadhyay, A. C. (*with* Dhar, D.) Estimation of parameters of a parallel system under random censoring. (English summary)
Nabeya, Seiji Coincidence of two failure rate models. (English summary)
Narasimhulu, Y. C. (*with* Prasad, B. S.) On the failure time of 2-3 sliding stand-by system. (English summary) **93h:62182**
Neath, Andrew A. (*with* Samaniego, Francisco J.) On the total time on test transform of an IFRA distribution. (English summary)
Ng, C. K. (*with* Lam, Kin; Chen, H. J.) Multiple comparison of exponential location parameters with the best under type II censoring. (English summary) **93k:62206**
Papastavridis, Stavros G. (*with* Koutras, Markos V.) Consecutive k-out-of-n systems with maintenance. (English summary) **93k:62207**
Patel, Manharlal N. (*with* Gajjar, Amrutbhal V.) Type I progressively censored samples from power series distribution. (Italian summary)
Prakasa Rao, B. L. S. *see* **Bagai, Isha, 93j:62236**
Prasad, B. S. *see* **Narasimhulu, Y. C., 93h:62182**
Prentice, Ross L. (*with* Cai, J.) Covariance and survivor function estimation using censored multivariate failure time data. (English summary) **93j:62239**
Proschan, Frank *see* **Boland, Philip J.; et al., 93a:62134; 93d:62166** *and* **Hollander, Myles; et al., 93h:62180**
van Pul, Mark C. Asymptotic properties of a class of statistical models in software reliability. (English summary) **93e:62252**
Pulcini, G. *see* **Calabria, R.**
Rao, B. Raja Equivalence of the tampered random variable and the tampered failure rate models in accelerated life testing for a class of life distributions having the "setting the clock back to zero property".
Ratnasabapathi, D. (*with* Thavaneswaran, A.; Singh, Jagbir) Optimal estimation of polynomial hazard functions. (English summary) **93h:62183**
Robins, James M. (*with* Tsiatis, Anastasios A.) Semiparametric estimation of an accelerated failure time model with time-dependent covariates. (English summary) **93h:62184**
— Estimation of the time-dependent accelerated failure time model in the presence of confounding factors. (English summary) **93h:62185**
Ruiz Cobo, María Reyes *see* **Castillo, Enrique; et al., (93i:60005)**
Samaniego, Francisco J. *see* **Neath, Andrew A.**
Savits, Thomas H. *see* **Block, Henry W.; et al., 93i:62086**
Sconing, James *see* **Hollander, Myles; et al., 93h:62180**
Sen, Kanwar (*with* Jain, Madhu Bala) A test for bivariate exponentiality against BIFR alternative. **93b:62133**
Shoukry, Elham *see* **El Mawaziny, Ahmed H.; et al.**
Singh, Jagbir *see* **Ratnasabapathi, D.; et al., 93h:62183**
Smith, Adrian F. M. *see* **Kuo, Lynn, (93b:62005)**
Smith, Robert L. *see* **Crowder, Martin; et al., 93d:62167**
Sukhatme, Shashikala *see* **Lin, C. H., 93g:62123**
Sweeting, Trevor J. *see* **Crowder, Martin; et al., 93d:62167**
Szajowski, Krzysztof *see* **Kordecki, Wojciech, (93a:60004)**
Tang, Ying Hui Reliability bounds for shock models. (Chinese. English and Chinese summaries)
Thavaneswaran, A. *see* **Ratnasabapathi, D.; et al., 93h:62183**
Thompson, R. D. *see* **Basu, Asit P., 93d:62165**
Tian, Guo Liang The Bayesian prediction intervals of the kth future failure time for the Weibull process. (Chinese. English summary)
Tikhov, M. S. Reduction of test times for a censored sample. (Russian) **93c:62161**
Tiwari, Ram C. (*with* Zhang, Jie; Bhattacharya, Samir Kumar) Hierarchical Bayes approach to reliability analysis for the geometric life model. (English summary)
Tsiatis, Anastasios A. *see* **Robins, James M., 93h:62184**
Tyagi, Ravinder K. *see* **Bhattacharya, Samir Kumar**
Wang, Shu Jun (*with* Chen, Wen Hao) A statistical analysis of a system reliability growth model. (Chinese. Chinese summary)
Wang, Yue Dong *see* **Cao, Jin Hua**
Weerahandi, Samaradasa (*with* Johnson, Richard A.) Testing reliability in a stress-strength model when X and Y are normally distributed. **93b:62134**
Wei, L. J. *see* **Lee, Eric W.; et al., (93b:62005)**
Weng, Zhao Xi *see* **Zhou, Yuan Quan**
(West, Mike) *see* **Kuo, Lynn, (93b:62005)**
Whitaker, Lyn R. *see* **Aras, Girish, 93m:62211**
Xia, Jian Feng *see* **Mao, Shi Song**
Zhang, Jie *see* **Tiwari, Ram C.; et al.**
Zheng, Zhong Guo (*with* Jiang, Ji Ming) Asymptotic properties of the Lindstrom-Maddens lower confidence limit. (Chinese. English and Chinese summaries)
— *see also* **Chen, Keh-Wei, 93g:62121**
Zheng, Zu Kang The class K of estimators of mean lifetime with applications. **93g:62124**
Zhou, Yuan Quan (*with* Weng, Zhao Xi) Conditional uniformly most accurate upper [lower] limits of some reliability parameters. (Chinese. English and Chinese summaries)

Items with secondary classifications in 62N05

Ahmad, Mohammed Salahuddin (*with* Samawi, Hani Michel) Maximum likelihood estimates of Weibull parameters using accelerated life testing. (English and Arabic summaries)
Babu, Gutti Jogesh (*with* Rao, Calyampudi Radhakrishna; Rao, M. Bhaskara) Nonparametric estimation of specific occurrence/exposure rate in risk and survival analysis. **93k:62080**
Bassiakos, Yiannis C. (*with* Meng, Xiao-Li; Lo, Shaw-Hwa) A general estimator of the treatment effect when the data are heavily censored. **93d:62051**
Basu, Asit P. A survey of some inference problems for dependent systems. (English summary) **93g:62073**
Baxter, Laurence A. (*with* Rachev, Svetlozar T.) The stability of a characterization of the bivariate Marshall-Olkin distribution. **93a:60022**
Bhatt, M. B. *see* **Patel, S. R., 93h:62051**
Bhattacharyya, Gouri K. (*with* Ghosh, Jayanta K.) Asymptotic properties of estimators in a binomial reliability growth model and its continuous-time analog. **93b:62043**
Block, Henry W. (*with* Langberg, Naftali A.; Savits, Thomas H.) Repair replacement policies. (English summary) **93j:60129**
Brady, Bennett (*with* Singpurwalla, Nozer D.) Stochastically monotone dependence. (English summary) **93i:60160**
Bristol, David R. (*with* Chen, Hubert J.; Mithongtae, Jirawan S.) Comparing exponential guarantee times with a control. (English summary) **93h:62035**
Chan, Wai (*with* Proschan, Frank; Sethuraman, Jayaram) Convex-ordering among functions, with applications to reliability and mathematical statistics. (English summary) **93i:60035**
Chang, San Chyi *see* **Huang, Wên T'ao, 93h:62082**
Chao, Min Te (*with* Fu, James C.) The reliability of a large series system under Markov structure. **93a:90025**
Chen, Hubert J. *see* **Bristol, David R.; et al., 93h:62035**
Chen, Ping[2] Nonparametric estimation of survival functions from incomplete observations. (Chinese. English and Chinese summaries)
— Nonparametric estimation of bivariate survival functions under the competing risks case. (Chinese. English and Chinese summaries)
— Product limit estimation of bivariate survival functions in the case of competing risks. (Chinese. English and Chinese summaries)
Cheng, Kan Some recent advances on reliability theory in China. **93i:60161**
— *see also* **Ma, Ben Cheng**
Cheng, Yi Ming Coefficients of the best linear unbiased estimators under the Weibull distribution when $n > 25$. (Chinese. English and Chinese summaries)
Cooke, Roger Marvin (*with* Misiewicz, J. K.; Mendel, Max B.) Applications of l_p symmetric measures to Bayesian inference. **93b:62008**
Costantini, Cristina (*with* Spizzichino, Fabio) Optimal stopping of life-testing: use of stochastic orderings in the case of conditionally exponential lifetimes. (English summary) (*see* **93g:60003**)
Csörgő, Sándor (*with* Viharos, László) Confidence bands for percentile residual lifetimes. **93h:62097**
David, H. T. *see* **Jobe, J. Marcus, 93c:62059**
Delecroix, M. (*with* Yazourh, O.) Estimation non paramétrique du taux de hasard en présence de censures droites: la méthode des fonctions orthogonales. (English and French summaries) [Nonparametric inference for failure rates with random right censorship: the method of orthogonal functions] **93m:62068**
Dhar, D. Estimation of survival function under random censorship. (English summary) **93k:62085**
Doss, Hani (*with* Gill, Richard D.) An elementary approach to weak convergence for quantile processes, with applications to censored survival data. (English summary) **93j:62144**
Dvinskikh, S. F. Reliability of a system with multiple failures. (Russian)
Ebrahimi, Nader How to compare two systems. **93a:60161**
— On estimating change point in a mean residual life function. (English summary) **93k:62059**
— Information theory and the failure time of a system. (English summary) **93k:62010**
El-Neweihi, Emad (*with* Sethuraman, Jayaram) A study of the role of modules in the failure of systems. (English summary) **93j:60131**
Fedorov, E. I. *see* **Fedorov, L. I.; et al., (93m:00032)**
Fedorov, L. I. (*with* Fedorov, E. I.; Kakutashvili, Sh. D.) Calculation of structures for the action of random stochastically dependent loads. (Russian. Russian summary) (*see* **93m:00032**)
Fei, He Liang (*with* Xu, Xiao Ling) Simultaneous confidence regions for the parameters of the three-parameter Weibull distribution. (Chinese. English and Chinese summaries)
Fishman, George S. (*with* Granovsky, Boris L.; Rubin, David S.) Evaluating best-case and worst-case variances when bounds are available. (English summary) **93f:62024**
Fu, James C. *see* **Chao, Min Te, 93a:90025**
Gaede, Karl-Walter Stochastic orderings in reliability. (English summary) (*see* **93g:60003**)
Ghosh, Jayanta K. *see* **Bhattacharyya, Gouri K., 93b:62043**
Gill, Richard D. *see* **Doss, Hani, 93j:62144**
Gómez, Guadalupe (*with* Julià, Olga; Utzet, Frederic) Survival analysis for left censored data. (English summary) **93k:62090**
— (*with* Van Ryzin, John) Estimation of the subsurvival function for time-to-tumor in survival/sacrifice experiments. **93a:62139**
Granovsky, Boris L. *see* **Fishman, George S.; et al., 93f:62024**
Griffith, William S. *see* **Sheu, Shey Huei, 93j:60135**
Gross, Shulamith T. (*with* Huber-Carol, Catherine) Regression models for truncated survival data. (English summary) **93m:62074**

Günlük, N. O. *see* **Özekici, S., 93d:90024**
Hawkins, D. L. (*with* Kochar, Subhash C.; Loader, Clive R.) Testing exponentiality against IDMRL distributions with unknown change point. **93b:62071**
Hjort, Nils Lid Semiparametric estimation of parametric hazard rates. (English summary) (*see* **93b:62005**)
Hollander, Myles (*with* Presnell, Brett; Sethuraman, Jayaram) Nonparametric methods for imperfect repair models. **93h:62078**
Horváth, Lajos (*with* Johnson, Richard A.) Tests of fit for composite hypotheses with censored data. **93f:62028**
Hsieh, John J. A hazard process for survival analysis. (English summary) **93m:62111**
Huang, Wên T'ao (*with* Chang, San Chyi) Estimations of survival function based on incomplete and missing data. **93h:62082**
Huber-Carol, Catherine *see* **Gross, Shulamith T., 93m:62074**
Hung, Ken *see* **Kotz, Samuel; et al., 93g:62071**
Iyer, Srinivas The Barlow-Proschan importance and its generalizations with dependent components. (English summary) **93h:60141**
Jain, Madhu Bala *see* **Sen, Kanwar, 93c:62032**
Joag-Dev, Kumar Conditional negative dependence in stochastic ordering and interchangeable random variables. (English summary) **93g:60042**
Jobe, J. Marcus (*with* David, H. T.) Buehler confidence bounds for a reliability-maintainability measure. **93c:62059**
Johnson, Richard A. *see* **Horváth, Lajos, 93f:62028**
Julià, Olga *see* **Gómez, Guadalupe; et al., 93k:62090**
Kakutashvili, Sh. D. *see* **Fedorov, L. I.; et al., (93m:00032)**
Kallenberg, Wilbert C. M. *see* **Kroese, Dirk P., 93k:60217**
Khattree, Ravindra Estimation of guarantee time and mean life after warranty for two-parameter exponential failure model. (English summary) **93j:62065**
Klein, John P. Small sample moments of some estimators of the variance of the Kaplan-Meier and Nelson-Aalen estimators. **93b:62062**
Kochar, Subhash C. *see* **Hawkins, D. L.; et al., 93b:62071**
Konstant, D. G. *see* **Solov'ev, A. D., 93f:60130**
Konstantinidis, D. G. (*with* Solov'ev, A. D.) A uniform estimate for the reliability of a complex repairable system with an unlimited number of repair units. (Russian. Russian summary) **93j:60132**
Korwar, R. M. A characterization of the family of distributions with a linear mean residual life function. (English summary) **93m:62035**
Kotz, Samuel (*with* Wang, Qiwen; Hung, Ken) Interrelations among various definitions of bivariate positive dependence. (English summary) **93g:62071**
Kroese, Dirk P. (*with* Kallenberg, Wilbert C. M.) Second-order asymptotics in level crossing for differences of renewal processes. **93k:60217**
Kuk, Anthony Y. C. A semiparametric mixture model for the analysis of competing risks data. (English summary) **93i:62032**
Kulkarni, H. V. *see* **Prasad, M. S., 93h:62025**
Langberg, Naftali A. *see* **Block, Henry W.; et al., 93j:60129**
Lee, Elisa T. ★ Statistical methods for survival data analysis. **93m:62216**
(Leurgans, Sue) *see* **Hjort, Nils Lid, (93b:62005)**
Li, Wei *see* **Shi, Ding Hua**
Li, Xin Wei A discussion on multistate life distributions relative to σ-fields ($\mathcal{P}_t$). (Chinese. English and Chinese summaries)
Lin, D. Y. Sequential log rank tests adjusting for covariates with the accelerated life model. (English summary) **93j:62202**
Liu, Jingyu Precedence probabilities and their applications. **93e:62139**
Lo, Shaw-Hwa *see* **Bassiakos, Yiannis C.; et al., 93d:62051**
Loader, Clive R. *see* **Hawkins, D. L.; et al., 93b:62071**
Ma, Ben Cheng (*with* Cheng, Kan) Characterizations of geometric distributions based on moments. (English summary)
Manatunga, Amita K. *see* **Oakes, David**
(McKeague, Ian W.) *see* **Slud, Eric V., (93b:62005)**
Mendel, Max B. *see* **Cooke, Roger Marvin; et al., 93b:62008**
Meng, Xiao-Li *see* **Bassiakos, Yiannis C.; et al., 93d:62051**
Misiewicz, J. K. *see* **Cooke, Roger Marvin; et al., 93b:62008**
Mithongtae, Jirawan S. *see* **Bristol, David R.; et al., 93h:62035**
(Moeschberger, Melvin L.) *see* **Gómez, Guadalupe; et al., 93k:62090**
Oakes, David (*with* Manatunga, Amita K.) A new representation of Cox's score statistic and its variance.
Ohi, Fumio (*with* Proschan, Frank) Crossing properties of reliability functions. (English summary) **93j:60134**
Özekici, S. (*with* Günlük, N. O.) Maintenance of a device with age-dependent exponential failures. **93d:90024**
Patel, S. R. (*with* Bhatt, M. B.) Unbiased estimation in sampling from two two-truncation parameter families when both samples are type II censored. (English summary) **93h:62051**
Prakasa Rao, B. L. S. ★ Identifiability in stochastic models. **93j:62034**
Prasad, M. S. (*with* Kulkarni, H. V.) A class of absolutely continuous bivariate life-time distributions. (English summary) **93h:62025**
Presnell, Brett *see* **Hollander, Myles; et al., 93h:62078**
Proschan, Frank *see* **Chan, Wai; et al., 93i:60035** *and* **Ohi, Fumio, 93j:60134**
Rachev, Svetlozar T. *see* **Baxter, Laurence A., 93a:60022**
Rao, Calyampudi Radhakrishna (*with* Tu, Dong Sheng) Inference of the occurrence/exposure rate with mixed censoring models. **93f:62023**
— *see also* **Babu, Gutti Jogesh; et al., 93k:62080**
Rao, M. Bhaskara *see* **Babu, Gutti Jogesh; et al., 93k:62080**
Rekab, Kamel Bayesian estimation of the difference between two mean times to failure. **93a:62113**
Robins, James M. (*with* Tsiatis, Anastasios A.) Correcting for noncompliance in randomized trials using rank preserving structural failure time models. **93i:62090**
Rubin, David S. *see* **Fishman, George S.; et al., 93f:62024**
Samawi, Hani Michel *see* **Ahmad, Mohammed Salahuddin**
Sankaran, P. G. (*with* Unnikrishnan Nair, N.) On bivariate vitality functions. (English summary) **93h:62022**
Sasieni, Peter D. Information bounds for the conditional hazard ratio in a nested family of regression models. **93m:62086**
Savits, Thomas H. Repair policies and stochastic order. (English summary) **93g:90042**
— *see also* **Block, Henry W.; et al., 93j:60129**
Sen, Kanwar (*with* Jain, Madhu Bala) Tests for bivariate mean residual life. **93c:62032**
Sethuraman, Jayaram *see* **Hollander, Myles; et al., 93h:62078; Chan, Wai; et al., 93i:60035** *and* **El-Neweihi, Emad, 93j:60131**
Shaked, Moshe (*with* Shanthikumar, J. George) Reliability and maintainability. (*see* **93a:60001**)
— (*with* Shanthikumar, J. George) Dynamic multivariate aging notions in reliability theory. **93a:60139**
Shanthikumar, J. George *see* **Shaked, Moshe, 93a:60139** *and* **(93a:60001)**
Sheu, Shey Huei (*with* Griffith, William S.) Multivariate imperfect repair. (English summary) **93j:60135**
Shi, Ding Hua (*with* Li, Wei) Availability analysis of a two-unit series system with shut-off rule and "first-fail, first-repaired".
Singpurwalla, Nozer D. (*with* Youngren, Mark A.) Models for dependent lifelengths induced by common environments. (English summary) (*see* **93f:62004**)
— *see also* **Brady, Bennett, 93i:60160**
Slud, Eric V. Nonparametric identifiability of marginal survival distributions in the presence of dependent competing risks and a prognostic covariate. (English summary) (*see* **93b:62005**)
Solov'ev, A. D. (*with* Konstant, D. G.) Reliability estimation of a complex renewable system with an unbounded number of repair units. **93f:60130**
— *see also* **Konstantinidis, D. G., 93j:60132**
Spizzichino, Fabio *see* **Costantini, Cristina, (93g:60003)**
Tang, Ying Hui A comparison of shock systems. (Chinese. English and Chinese summaries)
Tsiatis, Anastasios A. *see* **Robins, James M., 93i:62090**
Tu, Dong Sheng *see* **Rao, Calyampudi Radhakrishna, 93f:62023**
Unnikrishnan Nair, N. *see* **Sankaran, P. G., 93h:62022**
Utzet, Frederic *see* **Gómez, Guadalupe; et al., 93k:62090**
Uzunoğullari, Ülkü (*with* Wang, Jane-Ling) A comparison of hazard rate estimators for left truncated and right censored data. (English summary) **93m:62088**
Van Ryzin, John *see* **Gómez, Guadalupe, 93a:62139**
Viharos, László *see* **Csörgő, Sándor, 93h:62097**
Wang, Jane-Ling *see* **Uzunoğullari, Ülkü, 93m:62088**
Wang, Qiwen *see* **Kotz, Samuel; et al., 93g:62071**
Wang, Yin Sheng (*with* Yao, Wen Qi; Yue, De Quan) Reliability analysis of a two-dependent-unit parallel system with replaceable repair facility. (Chinese. English and Chinese summaries)
(West, Mike) *see* **Hjort, Nils Lid, (93b:62005)**
Wu, Li Peng *see* **Zheng, Zu Kang, 93m:62094**
Xu, Xiao Ling *see* **Fei, He Liang**
Yang, Shie-Shien A class of nonparametric procedures for comparing two survival distributions over an interval based on randomly right censored data. **93f:62070**
Yao, Wen Qi *see* **Wang, Yin Sheng; et al.**
Yazourh, O. *see* **Delecroix, M., 93m:62068**
Youngren, Mark A. *see* **Singpurwalla, Nozer D., (93f:62004)**
Yue, De Quan *see* **Wang, Yin Sheng; et al.**
Zacks, Shelemyahu ★ Introduction to reliability analysis. **93a:60140**
Zhang, Dong En A kind of maximum likelihood estimators for survival functions. (Chinese. English and Chinese summaries)
Zheng, Yao Hui The new better than used in convex ordering properties of increasing Markov processes. (Chinese. English and Chinese summaries)
Zheng, Zu Kang (*with* Wu, Li Peng) Estimation of the mean lifetime in nonparametric model under modified type I censoring. (English summary) **93m:62094**
Zhou, Mai Some properties of the Kaplan-Meier estimator for independent non-identically distributed random variables. **93e:62121**
— Asymptotic normality of the "synthetic data" regression estimator for censored survival data. **93g:62134**

62N10 Quality control

Arnold, Bernhard F. Optimal control charts and discrimination between "acceptable" and "unacceptable" states. (English summary)
Arumainayagam, S. Devaraj *see* **Soundararajan, V.**
Bai, Do Sun *see* **Kim, Sang Boo, 93e:62255**
Baillie, D. H. Attriables acceptance sampling plans. (*see* **93i:62002**)
Barlow, Richard E. (*with* Irony, Telba Z.) Foundations of statistical quality control. (English summary) **93g:62125**
Basu, Sujit Kumar *see* **Roy, Dilip, 93d:62170**
Bognárová, Marta *see* **Rublík, František, 93f:62137**
Box, George (*with* Kramer, Tim) Statistical process monitoring and feedback adjustment—a discussion. (English summary) **93e:62253**
Chakraborty, Tushar Kanti The determination of indifference quality level single sampling attribute plans with given relative slope. (English summary)
— Stochastic parameter single sampling plans of given strength. (English summary) **93j:62240**
— Single sampling LTPD plans as a stochastic programming problem. (English summary)
Does, R. J. M. M. (*with* Schriever, B. F.) Variables control chart limits and tests for special causes. (English summary)
Faraggi, D. *see* **Reiser, B.; et al., 93f:62136**
Freeny, Anne E. (*with* Nair, Vijayan N.) Robust parameter design with uncontrolled noise variables. (English summary)
Ghosh, D. T. On the near optimum continuous sampling plan CSP-2 (with $k = i$) to minimise the amount of inspection and its performance as compared to optimum CSP-1 plan. (English summary)
Göb, R. Type *A* operating characteristic functions of defects sampling plans. **93e:62254**
Guttman, Irwin *see* **Reiser, B.; et al., 93f:62136**
Hackl, Peter (*with* Ledolter, Johannes) A new nonparametric quality control technique.

Haitovsky, Yoel (*with* Rapp, Joel) Conditional resampling for misclassified multinomial data with applications to sampling inspection. (English summary)
Hryniewicz, Olgierd Approximately optimal economic process control for a general class of control procedures. (*see* **93i:62002**)
Hsu, Jason C. *see* **Ruberg, Stephen J., 93g:62126**
Irony, Telba Z. *see* **Barlow, Richard E., 93g:62125**
Kim, Sang Boo (*with* Bai, Do Sun) Economic design of one-sided screening procedures based on a correlated variable with all parameters unknown. **93e:62255**
Kirmani, S. N. U. A. (*with* Peddada, Shyamal Das) Stochastic ordering approach to off-line quality control. (English summary)
Kramer, Tim *see* **Box, George, 93e:62253**
Ledolter, Johannes *see* **Hackl, Peter**
León, R. V. (*with* Wu, C.-F. J.) A theory of performance measures in parameter design. (English summary) **93i:62088**
Madsen, H. *see* **Thyregod, P., (93i:62002)**
Majumdar, Anup Some acceptance criteria for single sampling multiattribute plans. (English summary)
Moskowitz, Herbert (*with* Tang, Kwei) Bayesian variables acceptance-sampling plans: quadratic loss function and step-loss function. (English summary)
Nair, Vijayan N. *see* **Freeny, Anne E.**
Pandey, R. J. On uniqueness of Bayesian three-decision plans by attributes. (English summary)
Peddada, Shyamal Das *see* **Kirmani, S. N. U. A.**
Pham-Gia, T. (*with* Turkkan, N.) Information loss in a noisy dichotomous sampling process. **93c:62162**
Rapp, Joel *see* **Haitovsky, Yoel**
Reiser, B. (*with* Faraggi, D.; Guttman, Irwin) Choice of sample size for testing the $P(X < Y)$. **93f:62136**
Rowlands, Robert John (*with* Wetherill, G. Barrie) Quality control. (*see* **93g:62102**)
Roy, Dilip (*with* Basu, Sujit Kumar) Control of location parameters in a multivariate situation. **93d:62170**
Ruberg, Stephen J. (*with* Hsu, Jason C.) Multiple comparison procedures for pooling batches in stability studies. (English summary) **93g:62126**
Rublík, František (*with* Bognárová, Marta) Tables for a statistical quality control test. (English and Slovak summaries) **93f:62137**
Schriever, B. F. *see* **Does, R. J. M. M.**
Seidel, Wilfried Minimax regret sampling plans based on generalized moments of the prior distribution. (*see* **93i:62002**)
Soundararajan, V. (*with* Arumainayagam, S. Devaraj) Quick switching system for costly and destructive testing. (English summary)
Srivastava, M. S. (*with* Wu, Yan Hong) A second order approximation to Taguchi's on-line control procedure. **93e:62256**
Tang, Kwei *see* **Moskowitz, Herbert**
Thyregod, P. (*with* Madsen, H.) On an adaptive acceptance control chart for autocorrelated processes. (English summary) (*see* **93i:62002**)
Turkkan, N. *see* **Pham-Gia, T., 93c:62162**
Wang, Ann-Lee Exponential cusum scheme for detecting a decrease in mean. (English summary)
Wetherill, G. Barrie *see* **Rowlands, Robert John, (93g:62102)**
Wu, C.-F. J. *see* **León, R. V., 93i:62088**
Wu, Yan Hong *see* **Srivastava, M. S., 93e:62256**
Yashchin, Emmanuel Performance of CUSUM control schemes for serially correlated observations. (English summary)

Items with secondary classifications in 62N10

Avenhaus, Rudolf (*with* Okada, Akira) Statistical criteria for sequential inspector-leadership games. (English summary) **93g:90095**
(Blumenthal, Saul) *see* **Gulati, S., (93b:62005)**
Dalal, S. R. (*with* Mallows, Colin L.) Buying with exact confidence. (English summary) **93k:60107**
Das, Biswanath Optimal gauging proportions to detect one-sided shifts in location. **93b:62025**
Göb, R. An interesting property of the Poisson operating characteristic function. (English summary) **93f:62020**
Godbole, Anant P. The exact and asymptotic distribution of overlapping success runs. **93h:60016**
Gulati, S. (*with* Padgett, W. J.) Kernel density estimation from record-breaking data. (English summary) (*see* **93b:62005**)
Johnson, Norman Lloyd[2] (*with* Kotz, Samuel) Some (more or less) naturally occurring mixtures.
Kim, Sang-Ik Minimal balanced 2^l fractional factorial designs of resolution V and Taguchi method. (English and Korean summaries) **93h:62140**
Kotz, Samuel *see* **Johnson, Norman Lloyd[2]**
(Lenz, H.-J.) *see* **Frontiers in statistical quality control, 93i:62002**
Mallows, Colin L. *see* **Dalal, S. R., 93k:60107**
(Nair, Vijayan N.) *see* **Taguchi's parameter design: a panel discussion, 93d:62143**
O'Geran, J. H. (*with* Wynn, Henry P.) Multi-stage step-wise group screening. (English summary) **93m:62217**
Okada, Akira *see* **Avenhaus, Rudolf, 93g:90095**
Padgett, W. J. *see* **Gulati, S., (93b:62005)**
Saunders, L. R. An exact formula for the symmetrical incomplete beta function where the parameter is an integer or half-integer. (English summary) **93j:65030**
(Wetherill, G. Barrie) *see* **Frontiers in statistical quality control, 93i:62002**
(Wilrich, P.-Th.) *see* **Frontiers in statistical quality control, 93i:62002**
Wynn, Henry P. *see* **O'Geran, J. H., 93m:62217**

Items listed otherwise than by author

Baton Rouge, LA ★ Frontiers in statistical quality control. 4. **93i:62002**
Frontiers in statistical quality control ★ Frontiers in statistical quality control. 4. **93i:62002**
Taguchi's parameter design: a panel discussion Taguchi's parameter design: a panel discussion. **93d:62143**
Workshop:
Statistical Quality Control ★ Frontiers in statistical quality control. 4. **93i:62002**

62Pxx Applications [see also 90–XX, 92–XX]

62P05 Applications to actuarial sciences and financial mathematics

Aebi, Markus (*with* Embrechts, Paul; Mikosch, Thomas) A large claim index. (English, French and German summaries)
Asmussen, Søren (*with* Rolski, Tomasz) Computational methods in risk theory: a matrix-algorithmic approach.
Beinhauer, Renate Eine allgemeine Versicherung auf mehrere Leben und ihre Deckungskapitalien. (English, French and German summaries) [A general insurance for several lives and its security capital]
Beirlant, Jan (*with* Teugels, Jozef L.) Modeling large claims in non-life insurance. (English summary) **93g:62127**
Bühlmann, H. Stochastic discounting. (English summary)
Carlin, Bradley P. State space modeling of nonstandard actuarial time series. (English summary)
Centeno, Lourdes An insight into the excess of loss retention limit. (English summary) **93g:62128**
Corradi, C. Approximating the solution of an integral equation arising in the theory of risk: a comment. (English and Italian summaries)
Deheuvels, Paul (*with* Steinebach, Josef) On some alternative estimates of the adjustment coefficient in risk theory. **93f:62139**
Delbaen, F. *see* **De Waegenaere, A., 93f:62138** *and* **De Schepper, A.; et al.**
De Schepper, A. (*with* De Vylder, F.; Goovaerts, M. J.; Kaas, R.) Interest randomness in annuities certain. (English summary) **93k:62208**
— (*with* Goovaerts, M. J.) Some further results on annuities certain with random interest. (English summary) **93k:62209**
— (*with* Goovaerts, M. J.; Delbaen, F.) The Laplace transform of annuities certain with exponential time distribution. (English summary)
De Vylder, F. (*with* Goovaerts, M. J.) Estimation of the heterogeneity parameter in the Bühlmann-Straub credibility theory model. **93c:62163**
— (*with* Goovaerts, M. J.) A summary of new results on optimal parameter estimation under zero-excess assumptions. (English summary) **93g:62129**
— (*with* Goovaerts, M. J.) Optimal parameter estimation under zero-excess assumptions in a classical model. (English summary) **93h:62186**
— (*with* Goovaerts, M. J.) Optimal parameter estimation under zero excess assumptions in the Bühlmann-Straub model. (English summary) **93j:62241**
— *see also* **De Schepper, A.; et al., 93k:62208**
De Waegenaere, A. (*with* Delbaen, F.) A dynamic reinsurance theory. (English summary) **93f:62138**
Dickson, David C. M. On the distribution of the surplus prior to ruin. (English summary) **93j:62242**
Dufresne, F. (*with* Gerber, Hans U.) The probability of ruin for the inverse Gaussian and related processes. (English summary)
Embrechts, Paul Martingales in non-life insurance. **93b:62135**
— (*with* Grübel, Rudolf; Pitts, Susan M.) Some applications of the fast Fourier transform algorithm in insurance mathematics. (English summary) **93j:62243**
— *see also* **Aebi, Markus; et al.**
Gerber, Hans U. On the probability of ruin for infinitely divisible claim amount distributions. (English summary) **93g:62130**
— *see also* **Dufresne, F.**
Goovaerts, M. J. *see* **De Vylder, F., 93c:62163; 93g:62129; 93h:62186; 93j:62241; De Schepper, A.; et al., 93k:62208; 93k:62209**
Gouriéroux, Christian Courbes de performance, de sélection et de discrimination. (English and French summaries) [Performance, selection and discrimination curves]
Grandell, Jan Finite time ruin probabilities and martingales. (Russian and Lithuanian summaries) **93e:62257**
Grübel, Rudolf *see* **Embrechts, Paul; et al., 93j:62243**
Haberman, Steven Pension funding with time delays: a stochastic approach. (English summary) **93m:62212**
van Heerwaarden, A. E. *see* **Kaas, R., 93f:62141**
Heilmann, Wolf-Rüdiger (*with* Schröter, Klaus J.) Orderings of risks and their actuarial applications. (English summary) **93h:62187**
Hesselager, Ole Prediction of outstanding claims: a hierarchical credibility approach. (English summary)
Hürlimann, Werner Ordering of risks through loss ratios. (English summary) **93f:62140**
Jensen, J. L. Saddlepoint approximations to the distribution of the total claim amount in some recent risk models. (English summary) **93h:62188**
Kaas, R. (*with* van Heerwaarden, A. E.) Stop-loss order, unequal means, and more dangerous distributions. (English summary) **93f:62141**
— *see also* **De Schepper, A.; et al., 93k:62208**
Kling, Bart (*with* Wolthuis, Henk) Ordering of risks in life insurance. (English summary) **93g:62131**
Kremer, Erhard An elementary upper bound for the loading of a stoploss cover. **93b:62136**
Mikosch, Thomas *see* **Aebi, Markus; et al.**
Møller, Christian Max Select mortality and other durational effects modelled by partially observed Markov chains. **93b:62137**
Montrucchio, Luigi (*with* Peccati, Lorenzo) A note on Shiu-Fisher-Weil immunization theorem. **93a:62137**
Norberg, Ragnar Reserves in life and pension insurance. (English summary)
— Hattendorff's theorem and Thiele's differential equation generalized. (English summary) **93g:62132**

— *see also* **Sundt, Bjørn**
Papachristou, Dimitris J. (*with* Waters, Howard R.) Some remarks concerning stochastic interest rates in relation to long term insurance policies. (English summary)
Peccati, Lorenzo *see* **Montrucchio, Luigi, 93a:62137**
Pitts, Susan M. *see* **Embrechts, Paul; et al., 93j:62243**
Præstgaard, Jens Nonparametric estimation of actuarial values. (English summary) **93g:62133**
Promislow, S. David The probability of ruin in a process with dependent increments. **93c:62164**
Ramsay, Colin M. The linear model revisited. **93b:62138**
dos Reis, Alfredo Egídio How long is the surplus below zero? (English summary) **93m:62213**
Rolski, Tomasz *see* **Asmussen, Søren**
Salinelli, Ernesto About a duration index for life insurance contracts. **93b:62139**
— Immunization of investments with partially negative cash-flows. (English summary)
Schröter, Klaus J. On a family of counting distributions and recursions for related compound distributions. **93c:62165**
— *see also* **Heilmann, Wolf-Rüdiger, 93b:62187**
Steinebach, Josef *see* **Deheuvels, Paul, 93f:62139**
Sundt, Bjørn On greatest accuracy credibility with limited fluctuation. (English summary)
— *see also* **Teugels, Jozef L., 93e:62258**
Taylor, Greg A Bayesian interpretation of Whittaker-Henderson graduation. (English summary) **93f:62142**
— Risk exchange. II. Optimal reinsurance contracts. (English summary) **93m:62214**
Teugels, Jozef L. (*with* Sundt, Bjørn) A stop-loss experience rating scheme for fleets of cars. **93e:62258**
— *see also* **Beirlant, Jan, 93g:62127**
Waters, Howard R. *see* **Papachristou, Dimitris J.**
Wolthuis, Henk *see* **Kling, Bart, 93g:62131**

Items with secondary classifications in 62P05

Beirlant, Jan (*with* Teugels, Jozef L.) Limit distributions for compounded sums of extreme order statistics. **93k:60051**
Carriere, Jacques Nonparametric tests for mixed Poisson distributions. (English summary) **93m:62105**
De Vylder, F. (*with* Goovaerts, M. J.; Kaas, R.) Stochastic processes defined from a Lagrangian. (English summary) **93g:60207**
Frenz, Michael (*with* Schmidt, Volker) An insensitivity property of ladder height distributions. **93j:60062**
Goovaerts, M. J. *see* **De Vylder, F.; et al., 93g:60207**
Kaas, R. *see* **De Vylder, F.; et al., 93g:60207**
Kshirsagar, Anant M. *see* **Weissfeld, L. A., 93g:62076**
Lehtonen, Tapani (*with* Nyrhinen, Harri) On asymptotically efficient simulation of ruin probabilities in a Markovian environment. (English summary) **93h:60144**
Nyrhinen, Harri *see* **Lehtonen, Tapani, 93h:60144**
Roberts, Leigh A. On ratios of random variables and generalised mortality rates. **93c:62026**
Schmidt, Volker *see* **Frenz, Michael, 93j:60062**
Teugels, Jozef L. *see* **Beirlant, Jan, 93k:60051**
Weissfeld, L. A. (*with* Kshirsagar, Anant M.) A modified growth curve model and its application to clinical studies. (English summary) **93g:62076**

62P10 Applications to biology

Baker, Stuart G. *see* **Wax, Yohanan; et al.**
Becher, Heiko (*with* Drescher, K.; Jöckel, K.-H.) Design aspects and odds ratio estimation in multicenter case-control studies. (English and German summaries) **93f:62143**
Becker, Niels G. Statistical challenges of AIDS. (English summary)
Brookmeyer, Ron *see* **Wang, Mei-Cheng; et al., 93m:62218**
Carter, Randy L. *see* **Vonesh, Edward F., 93a:62140**
(Chakraborty, Ranajit) *see* **Statistical methods in biological and medical sciences, 93b:62141**
Chalmers, Thomas C. *see* **Mosteller, Frederick**
Chao, Lien Chū (*with* Li, Shên Ming) Estimating population size for continuous-time capture-recapture models via sample coverage. (English summary)
Chi, G. Y. H. *see* **Hung, Hsien Ming; et al., 93m:62215**
Coad, D. S. Some results on estimation for two-stage clinical trials. (English summary)
Cormack, R. M. Interval estimation for mark-recapture studies of closed populations. (French summary) **93c:62166**
Day, Richard D. *see* **Rao, B. Raja; et al., 93e:62259**
Drane, J. Wanzer (*with* Fu, Chongyau; Postelnicu, Tiberiu) Theorems on binary responses to combinations of stimuli. (English summary) **93d:62171**
Drescher, K. *see* **Becher, Heiko; et al., 93f:62143**
Falissard, Bruno (*with* Lellouch, Joseph) A new procedure for group sequential analysis in clinical trials. (French summary)
Forcina, A. Modelling balanced longitudinal data: maximum likelihood estimation and analysis of variance. (English and French summaries) **93f:62144**
Fu, Chongyau *see* **Drane, J. Wanzer; et al., 93d:62171**
Gani, Joseph Mark Generating function methods in a random allocation problem of epidemics. **93a:62138**
Geller, Nancy L. *see* **Tang, Dei-In; et al.**
George, Edward I. (*with* Robert, Christian P.) Capture-recapture estimation via Gibbs sampling. (English summary)
Gleser, Leon Jay A note on the analysis of familial data. (English summary) **93f:62145**
Gómez, Guadalupe (*with* Van Ryzin, John) Estimation of the subsurvival function for time-to-tumor in survival/sacrifice experiments. **93a:62139**
Grieszbach, G. *see* **Schack, B.; et al., 93k:62210**
Hung, Hsien Ming (*with* Chi, G. Y. H.; Lipicky, R. J.) Testing for the existence of a desirable dose combination. (English and French summaries) **93m:62215**
Jennison, Christopher (*with* Turnbull, Bruce W.) Sequential equivalence testing and repeated confidence intervals, with applications to normal and binary responses. (English and French summaries)
Jewell, Nicholas P. *see* **Wang, Mei-Cheng; et al., 93m:62218**
Jöckel, K.-H. *see* **Becher, Heiko; et al., 93f:62143**
Kale, B. K. *see* **Suresh, R. P., 93h:62189**
Krewski, Daniel *see* **Prentice, Ross L.; et al.**
Lee, Elisa T. ★ Statistical methods for survival data analysis. **93m:62216**
Lellouch, Joseph *see* **Falissard, Bruno**
Li, Shên Ming *see* **Chao, Lien Chū**
Lipicky, R. J. *see* **Hung, Hsien Ming; et al., 93m:62215**
Lloyd, Christopher Testing capture homogeneity in a recapture model. (English summary)
Mark, Steven D. *see* **Robins, James M.; et al., 93e:62260**
Marsh, Gary M. *see* **Rao, B. Raja; et al., 93e:62259**
Mason, Mark *see* **Prentice, Ross L.; et al.**
Mosteller, Frederick (*with* Chalmers, Thomas C.) Some progress and problems in meta-analysis of clinical trials. (English summary)
Nakamura, Tsuyoshi Proportional hazards model with covariates subject to measurement error. (English and French summaries) **93i:62089**
Newey, Whitney K. *see* **Robins, James M.; et al., 93e:62260**
O'Geran, J. H. (*with* Wynn, Henry P.) Multi-stage step-wise group screening. (English summary) **93m:62217**
Patterson, Blossom H. *see* **Wax, Yohanan; et al.**
Pocock, Stuart J. *see* **Tang, Dei-In; et al.**
Portier, Christopher J. *see* **Williams, Paige L.**
Postelnicu, Tiberiu *see* **Drane, J. Wanzer; et al., 93d:62171**
Prentice, Ross L. (*with* Smythe, Robert T.; Krewski, Daniel; Mason, Mark) On the use of historical control data to estimate dose response trends in quantal bioassay. (French summary)
Rao, B. Raja (*with* Day, Richard D.; Marsh, Gary M.) Estimation of relative risks from individual and ecological correlation studies. **93e:62259**
(Rao, Calyampudi Radhakrishna) *see* **Statistical methods in biological and medical sciences, 93b:62141**
Robert, Christian P. *see* **George, Edward I.**
Robins, James M. (*with* Tsiatis, Anastasios A.) Correcting for noncompliance in randomized trials using rank preserving structural failure time models. **93i:62090**
— (*with* Mark, Steven D.; Newey, Whitney K.) Estimating exposure effects by modelling the expectation of exposure conditional on confounders. (French summary) **93e:62260**
Schäbe, H. A nonrecursive estimator for the Cox model. **93c:62167**
Schack, B. (*with* Wagner, H.; Witte, H.) Statistical comparison of band spectral power: an aid in stochastical analysis of brain electrical activity. I. Approximation of the distribution of broad band power by a χ^2-distribution. (German summary) **93b:62140**
— (*with* Wagner, H.; Grieszbach, G.; Witte, H.) Statistical comparison of band spectral powers: an aid in stochastical analysis of brain electrical activity. II. Construction of confidence intervals of spectral band power and their application in EEG-analysis. (English and German summaries) **93k:62210**
See, Lai-Chu *see* **Wang, Mei-Cheng, 93a:62141**
Smythe, Robert T. *see* **Prentice, Ross L.; et al.**
Suresh, R. P. (*with* Kale, B. K.) Percentile selection differential. (English summary) **93h:62189**
Tang, Dei-In (*with* Geller, Nancy L.; Pocock, Stuart J.) On the design and analysis of randomized clinical trials with multiple endpoints. (English and French summaries)
Tsiatis, Anastasios A. *see* **Robins, James M., 93i:62090**
Tsutakawa, Robert K. Prior distribution for item response curves. (English summary) **93d:62172**
Turnbull, Bruce W. *see* **Jennison, Christopher**
Van Ryzin, John *see* **Gómez, Guadalupe, 93a:62139**
Vonesh, Edward F. (*with* Carter, Randy L.) Mixed-effects nonlinear regression for unbalanced repeated measures. (French summary) **93a:62140**
Wagner, H. *see* **Schack, B.; et al., 93b:62140** *and* **93k:62210**
Wang, Mei-Cheng (*with* See, Lai-Chu) *N*-estimation from retrospectively ascertained events with applications to AIDS. (French summary) **93a:62141**
— (*with* Brookmeyer, Ron; Jewell, Nicholas P.) Statistical models for prevalent cohort data. (English and French summaries) **93m:62218**
Wax, Yohanan (*with* Baker, Stuart G.; Patterson, Blossom H.) A score test for noninformative censoring using doubly sampled grouped survival data. (English summary)
Wellek, S. Basing the analysis of comparative bioavailability trials on an individualized statistical definition of equivalence. (English summary)
Whitehead, John Raymond Sequential methods in clinical trials. (*see* **93g:62102**)
Williams, Paige L. (*with* Portier, Christopher J.) Explicit solutions for constrained maximum likelihood estimators in survival/sacrifice experiments. (English summary)
Witte, H. *see* **Schack, B.; et al., 93b:62140** *and* **93k:62210**
Wynn, Henry P. *see* **O'Geran, J. H., 93m:62217**
Zhou, Mai Asymptotic normality of the "synthetic data" regression estimator for censored survival data. **93g:62134**

Items listed otherwise than by author

Statistical methods in biological and medical sciences ★ Statistical methods in biological and medical sciences. **93b:62141**

Items with secondary classifications in 62P10

Anderson, Jon E. (*with* Louis, Thomas A.; Holm, Niels V.; Harvald, Bent) Time-dependent association measures for bivariate survival distributions. (English summary) **93f:62133**
Babu, Gutti Jogesh (*with* Rao, Calyampudi Radhakrishna; Rao, M. Bhaskara) Nonparametric estimation of specific occurrence/exposure rate in risk and survival analysis. **93k:62080**
Bagai, Isha (*with* Prakasa Rao, B. L. S.) Analysis of survival data with two dependent competing risks. (English summary) **93j:62236**
Becker, Niels G. Analysis of infectious disease data from a sample of households. (English summary) (*see* **93f:60003**)
Bull, Shelley B. (*with* Donner, Allan) A characterization of the efficiency of individualized logistic regressions. (English and French summaries)
Burnett, Richard *see* **Krewski, Daniel; et al., 93g:62034**

Carrière, Keumhee Chough (*with* Reinsel, Gregory C.) Investigation of dual-balanced crossover designs for two treatments. (English and French summaries)
Carriquiry, Alicia L. *see* **Harville, David A.**
Crowder, Martin On the identifiability crisis in competing risks analysis. **93e:62249**
Dabrowski, André Robert (*with* McDonald, David) Statistical analysis of multiple ion channel data. (English summary) **93m:62208**
Donner, Allan *see* **Bull, Shelley B.**
Elashoff, Robert M. *see* **Lee, J. Jack; et al., 93k:62073**
Fountain, Robert L. (*with* Keating, Jerome P.; Rao, Calyampudi Radhakrishna) An example arising from Berkson's conjecture. **93a:62027**
Fung, Karen Yuen *see* **Krewski, Daniel; et al., 93g:62034**
Gupta, L. R. *see* **Puri, P. D.**
Harvald, Bent *see* **Anderson, Jon E.; et al., 93f:62133**
Harville, David A. (*with* Carriquiry, Alicia L.) Classical and Bayesian prediction as applied to an unbalanced mixed linear model. (English and French summaries)
Hendy, Michael D. *see* **Steel, Michael A.; et al., 93g:05042**
Herbst, Tomáš Test of fit with the Koziol-Green model for random censorship. **93e:62250**
Hinkelmann, Klaus *see* **Singh, Murari, 93k:62145**
Hjort, Nils Lid Semiparametric estimation of parametric hazard rates. (English summary) (*see* **93b:62005**)
Högmander, H. A random field approach to transect counts of wildlife populations. (English summary) **93h:62177**
Holm, Niels V. *see* **Anderson, Jon E.; et al., 93f:62133**
Hutcheson, K. *see* **McCormick, William P.; et al., 93e:62046**
Jansen, Johannes ★ Generalized linear mixed models and their application in plant breeding research. (English. English and Dutch summaries)
Keating, Jerome P. *see* **Fountain, Robert L.; et al., 93a:62027**
Khanin, L. G. (*with* Rachev, Svetlozar T.; Yakovlev, A. Yu.) On the optimal control of cancer radiotherapy for nonhomogeneous cell populations. (English summary) **93j:60015**
Krewski, Daniel (*with* Smythe, Robert T.; Fung, Karen Yuen; Burnett, Richard) Conditional and unconditional tests with historical controls. (French summary) **93g:62034**
Kuo, Lynn (*with* Smith, Adrian F. M.) Bayesian computations in survival models via the Gibbs sampler. (English summary) (*see* **93b:62005**)
Laska, Eugene M. (*with* Tang, Dei-In; Meisner, Morris J.) Testing hypotheses about an identified treatment when there are multiple endpoints. (English summary) **93g:62035**
Lee, J. Jack (*with* Li, Ker-Chau; Elashoff, Robert M.) On recensoring for censored paired data. (English summary) **93k:62073**
Leung, Chi-Ying Proportion estimation in mixtures with covariates. (English summary) **93j:62067**
(Leurgans, Sue) *see* **Hjort, Nils Lid, (93b:62005)**
Li, Ker-Chau *see* **Lee, J. Jack; et al., 93k:62073**
Lo, Shaw-Hwa Estimating a survival function with incomplete cause-of-death data. **93f:62134**
Louis, Thomas A. *see* **Anderson, Jon E.; et al., 93f:62133**
Lyons, N. I. *see* **McCormick, William P.; et al., 93e:62046**
(MacEachern, Steven) *see* **Kuo, Lynn, (93b:62005)**
Manatunga, Amita K. *see* **Oakes, David**
Marschner, Ian C. Robust estimation for epidemic models. **93k:62176**
— Robust methods for dependent cell pedigree data. (English summary)
McCormick, William P. (*with* Lyons, N. I.; Hutcheson, K.) Distributional properties of Jaccard's index of similarity. **93e:62046**
McDonald, David *see* **Dabrowski, André Robert, 93m:62208**
(McKeague, Ian W.) *see* **Slud, Eric V., (93b:62005)**
Meisner, Morris J. *see* **Laska, Eugene M.; et al., 93g:62035**
Nayak, Tapan K. On statistical analysis of a sample from a population of unknown species. **93h:62050**
Oakes, David (*with* Manatunga, Amita K.) A new representation of Cox's score statistic and its variance.
Penny, David *see* **Steel, Michael A.; et al., 93g:05042**
Pepe, Margaret Sullivan Inference for events with dependent risks in multiple endpoint studies. **93b:62076**
— Inference using surrogate outcome data and a validation sample. (English summary) **93j:62074**
Ponnuswamy, K. N. (*with* Subbarayan, A.) Construction of partial triallel mating designs and estimation of variance components. **93c:62130**
Prakasa Rao, B. L. S. *see* **Bagai, Isha, 93j:62236**
Puri, P. D. (*with* Gupta, L. R.) Supplemented designs for parallel line bio-assays. (English summary)
Rachev, Svetlozar T. *see* **Khanin, L. G.; et al., 93j:60015**
Rao, Calyampudi Radhakrishna (*with* Tu, Dong Sheng) Inference of the occurrence/exposure rate with mixed censoring models. **93f:62023**
— *see also* **Fountain, Robert L.; et al., 93a:62027** *and* **Babu, Gutti Jogesh; et al., 93k:62080**
Rao, M. Bhaskara *see* **Babu, Gutti Jogesh; et al., 93k:62080**
Reinsel, Gregory C. *see* **Carrière, Keumhee Chough**
Singh, Murari (*with* Hinkelmann, Klaus) Distribution of genotypic correlation coefficient and its transforms for nonnormal populations. (English summary) **93k:62145**
Slud, Eric V. Nonparametric identifiability of marginal survival distributions in the presence of dependent competing risks and a prognostic covariate. (English summary) (*see* **93b:62005**)
Smith, Adrian F. M. *see* **Kuo, Lynn, (93b:62005)**
Smythe, Robert T. *see* **Krewski, Daniel; et al., 93g:62034**
Steel, Michael A. (*with* Hendy, Michael D.; Penny, David) Significance of the length of the shortest tree. **93g:05042**
Strömberg, Ulf ★ Isotonic regression based on asymmetric distance functions with applications to biological data. **93e:62118**
Subbarayan, A. *see* **Ponnuswamy, K. N., 93c:62130**
Tang, Dei-In *see* **Laska, Eugene M.; et al., 93g:62035**
Tikhov, M. S. Reduction of test times for a censored sample. (Russian) **93c:62161**
Tu, Dong Sheng *see* **Rao, Calyampudi Radhakrishna, 93f:62023**
(West, Mike) *see* **Kuo, Lynn, (93b:62005)** *and* **Hjort, Nils Lid, (93b:62005)**
Yakovlev, A. Yu. *see* **Khanin, L. G.; et al., 93j:60015**
Yang, Song Minimum Hellinger distance estimation of parameter in the random censorship model. **93a:62048**

62P15 Applications to psychology

Agresti, Alan Computing conditional maximum likelihood estimates for generalized Rasch models using simple loglinear models with diagonals parameters. (English summary)
Bentler, Peter M. *see* **Lee, Sik Yum, (93e:62004)**
Browne, Michael W. *see* **Cudeck, Robert**
Cudeck, Robert (*with* Browne, Michael W.) Constructing a covariance matrix that yields a specified minimizer and a specified minimum discrepancy function value. (English summary)
Davison, Mark L. ★ Multidimensional scaling. **93d:62173**
Feldmann, Uwe Partial distributional canonical discriminant analysis. (English summary)
Lee, Sik Yum (*with* Bentler, Peter M.) Some aspects of covariance structure analysis. (*see* **93e:62004**)
— Bayesian analysis of stochastic constraints in structural equation models. (English summary)
Lepage, Yves *see* **Tricot, Jean-Marie, 93g:62135**
Meredith, William (*with* Millsap, Roger E.) On the misuse of manifest variables in the detection of measurement bias. **93e:62261**
Meulman, Jacqueline J. (*with* Verboon, Peter) Points of view analysis revisited: fitting multidimensional structures to optimal distance components with cluster restrictions on the variables. (English summary)
Millsap, Roger E. *see* **Meredith, William, 93e:62261**
Tricot, Jean-Marie (*with* Lepage, Yves) Tests de l'incertitude des observateurs dans une analyse de concordance sur une échelle nominale. (English and French summaries) [Testing observer uncertainty in a nominal-scale agreement analysis] **93g:62135**
Verboon, Peter *see* **Meulman, Jacqueline J.**

Items with secondary classifications in 62P15

Bedrick, Edward J. A comparison of generalized and modified sample biserial correlation estimators. **93e:62142**
ten Berge, Jos M. F. *see* **Kiers, Henk A. L., 93e:62140**
Carriere, Jacques (*with* Finster, Mark) Statistical theory for the ratio model of paired comparisons. (English summary)
Daley, D. J. Ranking in a one-factor model used to describe examination marks. (English summary) **93j:62054**
Finster, Mark *see* **Carriere, Jacques**
Gras, Régis (*with* Larher, Annie) L'implication statistique, une nouvelle méthode d'analyse de données. (English and French summaries) [Statistical inference, a new method of data analysis]
Kiers, Henk A. L. (*with* ten Berge, Jos M. F.) Minimization of a class of matrix trace functions by means of refined majorization. (English summary) **93e:62140**
Larher, Annie *see* **Gras, Régis**
Lee, Sik Yum *see* **Yau, Linda H.-Y.; et al.**
Millsap, Roger E. Sufficient conditions for rotational uniqueness in the additive MTMM model. (English summary) **93d:62112**
Poon, Wai-Yin *see* **Yau, Linda H.-Y.; et al.**
Schneider, Robert B. A uniform approach to multidimensional scaling. (English summary) **93i:62055**
Yau, Linda H.-Y. (*with* Lee, Sik Yum; Poon, Wai-Yin) Covariance structure analysis with three-level data. (English summary)
Zhou, Fang Jun A nonmetric method for analyzing a kind of weighted IDIOSCAL model. (Chinese. English summary)

62P20 Applications to economics [see also 90Axx]

Andrews, Donald W. K. (*with* Monahan, J. Christopher) An improved heteroskedasticity and autocorrelation consistent covariance matrix estimator.
Angus, John E. Limit laws in a stochastic model for profit from units sold under pro rata warranty. (English summary) **93h:62190**
Ansley, Craig F. (*with* Kohn, Robert Jacob; Shively, Thomas S.) Computing *p*-values for the generalized Durbin-Watson and other invariant test statistics. (English summary) **93k:62211**
Baillie, Richard T. (*with* Bollerslev, Tim) Prediction in dynamic models with time-dependent conditional variances. **93f:62146**
Baltagi, Badi H. (*with* Li, Qi) A note on the estimation of simultaneous equations with error components. **93k:62212**
Belsley, David A. The degree of effective identification and a diagnostic measure for assessing it. (English summary) (*see* **93b:90009**)
Bera, Anil K. (*with* Lee, Sangkyu) Information matrix test, parameter heterogeneity and ARCH: a synthesis. (English summary) **93h:62191**
Bollerslev, Tim (*with* Engle, Robert F.) Common persistence in conditional variances. (English summary) **93i:62091**
— *see also* **Baillie, Richard T., 93f:62146**
Boumahdi, Rachid (*with* Thomas, Alban) Estimation des modèles à deux régimes avec des données de panel. (English and French summaries) [Estimation of models with two regimes and panel data]
Buse, A. The efficiency of GLS estimators in simultaneous equations models with autocorrelated errors. (English and Italian summaries)
Canova, Fabio Modelling and forecasting exchange rates with a Bayesian time-varying coefficient model. (English summary)
Chambers, Marcus J. Discrete models for estimating general linear continuous time systems. **93f:62147**
Chang, I Lok (*with* Hallahan, Charles; Swamy, P. A. V. B.) Efficient computation of stochastic coefficients models. (English summary) (*see* **93b:90009**)
Chib, Siddhartha Bayes inference in the Tobit censored regression model. **93a:62142**

Christensen, Bent Jesper (*with* Kiefer, Nicholas M.) The exact likelihood function for an empirical job search model. **93c:62168**
Cornwell, Christopher (*with* Schmidt, Peter Joseph; Wyhowski, Donald) Simultaneous equations and panel data. **93g:62136**
De Souza, Geraldo Soares *see* **Gallant, A. Ronald, 93d:62174**
Engle, Robert F. *see* **Bollerslev, Tim, 93i:62091**
Gallant, A. Ronald (*with* De Souza, Geraldo Soares) On the asymptotic normality of Fourier flexible form estimates. **93d:62174**
Godfrey, L. G. ★ Misspecification tests in econometrics. **93h:62192**
Goldberger, Arthur S. ★ A course in econometrics. **93d:62175**
Gouriéroux, Christian (*with* Monfort, Alain) Qualitative threshold ARCH models. **93g:62137**
Hallahan, Charles *see* **Chang, I Lok; et al., (93b:90009)**
Hansen, Bruce E. Efficient estimation and testing of cointegrating vectors in the presence of deterministic trends. (English summary) **93j:62244**
Hansen, Lars Peter (*with* Singleton, Kenneth J.) Computing semiparametric efficiency bounds for linear time series models. (*see* **93c:62005**)
— (*with* Sargent, Thomas J.) Seasonality and approximation errors in rational expectations models. (English summary) **93k:62213**
Härdle, Wolfgang (*with* Hart, Jeffrey D.) A bootstrap test for positive definiteness of income effect matrices. (English summary) **93h:62193**
Hart, Jeffrey D. *see* **Härdle, Wolfgang, 93h:62193**
Harvey, Andrew *see* **Streibel, Mariane, 93j:62250**
Horowitz, Joel L. A smoothed maximum score estimator for the binary response model. **93a:62143**
Imbens, Guido W. An efficient method of moments estimator for discrete choice models with choice-based sampling. (English summary) **93e:62262**
Iwata, Shigeru Highest predictive density estimator in regression models. (English summary) **93j:62245**
— A note on multiple roots of the Tobit log likelihood. (English summary)
Jiang, Shi Zhang Sensitivity analysis of estimation in linear simultaneous equation system models. I. (English summary)
Kabe, D. G. On a prediction interval problem of econometric aggregation theory. (English summary) **93j:62246**
Kelejian, Harry H. The logit model and panel data via repeated observations: a clarification and extension of the literature. (English summary)
Kemp, Gordon C. R. The potential for efficiency gains in estimation from the use of additional moment restrictions. (English summary) **93i:62092**
Kiefer, Nicholas M. *see* **Christensen, Bent Jesper, 93c:62168**
Klein, Roger W. (*with* Spady, Richard H.) An efficient semiparametric estimator for binary response models. (English summary) **93k:62214**
Kohn, Robert Jacob *see* **Ansley, Craig F.; et al., 93k:62211**
Laitila, Thomas A pseudo-R^2 measure for limited and qualitative dependent variable models. (English summary) **93m:62219**
Lee, Hahn Shik Maximum likelihood inference on cointegration and seasonal cointegration. (English summary) **93k:62215**
Lee, K. C. *see* **Pesaran, M. H.; et al.**
Lee, Sangkyu *see* **Bera, Anil K., 93h:62191**
Li, Qi (*with* Stengos, Thanasis) A Hausman specification test based on root-N-consistent semiparametric estimators. (English summary)
— *see also* **Baltagi, Badi H., 93k:62212**
Matzkin, Rosa L. A nonparametric maximum rank correlation estimator. **93j:62247**
— Nonparametric and distribution-free estimation of the binary threshold crossing and the binary choice models. **93a:62144**
McCall, Brian P. A note on the identifiability of a dynamic binary choice model with state dependence. (English summary) **93k:62216**
McManus, Douglas A. How common is identification in parametric models? (English summary) **93j:62248**
Mehr, Peter *see* **Tsurumi, Hiroki**
Monahan, J. Christopher *see* **Andrews, Donald W. K.**
Monfort, Alain *see* **Gouriéroux, Christian, 93g:62137**
Monti, Anna Clara The study of the Gini concentration ratio by means of the influence function. (English and Italian summaries) **93h:62194**
Nelson, Daniel B. Filtering and forecasting with misspecified ARCH models. I. Getting the right variance with the wrong model. **93k:62217**
Nowak, Eugen Identifiability in multivariate dynamic linear errors-in-variables models. (English summary) **93m:62220**
Pesaran, M. H. (*with* Pierse, R. G.; Lee, K. C.) Persistence, cointegration, and aggregation: a disaggregated analysis of output fluctuations in the U.S. economy. (English summary)
Pierse, R. G. *see* **Pesaran, M. H.; et al.**
Pollard, David Asymptotics for least absolute deviation regression estimators. **93d:62176**
Pötscher, Benedikt M. (*with* Prucha, Ingmar R.) Basic structure of the asymptotic theory in dynamic nonlinear econometric models. II. Asymptotic normality. **93e:62263**
Prucha, Ingmar R. *see* **Pötscher, Benedikt M., 93e:62263**
Racine, Jeff *see* **Ullah, Aman, (93m:62006)**
Rilstone, Paul Semiparametric IV estimation with parameter dependent instruments. (English summary) **93j:62249**
Saikkonen, Pentti Estimation and testing of cointegrated systems by an autoregressive approximation. **93g:62138**
Salemi, Michael K. (*with* Song, Jaeyeong) Saddlepath solutions for multivariate linear rational expectations models. (English summary) **93h:62195**
Sargent, Thomas J. *see* **Hansen, Lars Peter, 93k:62213**
Schmidt, Peter Joseph *see* **Cornwell, Christopher; et al., 93g:62136**
Schneider, Wolfgang Systems of seemingly unrelated regression equations with time varying coefficients—an interplay of Kalman filtering, scoring, EM- and MINQUE-method. (English summary)
Shively, Thomas S. *see* **Ansley, Craig F.; et al., 93k:62211**
Singleton, Kenneth J. *see* **Hansen, Lars Peter, (93c:62005)**
Song, Jaeyeong *see* **Salemi, Michael K., 93h:62195**
Spady, Richard H. *see* **Klein, Roger W., 93k:62214**
Stengos, Thanasis *see* **Li, Qi**
Stern, Steven A method for smoothing simulated moments of discrete probabilities in multinomial probit models.
Streibel, Mariane (*with* Harvey, Andrew) Estimation of simultaneous equation models with stochastic trend components. (English summary) **93j:62250**
Sueyoshi, Glenn T. Semiparametric proportional hazards estimation of competing risks models with time-varying covariates. **93i:62093**
Swamy, P. A. V. B. *see* **Chang, I Lok; et al., (93b:90009)**
Szroeter, Jerzy The asymptotic local structure of the Cox modified likelihood-ratio statistic for testing nonnested hypotheses. (English summary) **93m:62221**
Terceiro Lomba, Jaime ★ Estimation of dynamic econometric models with errors in variables. **93b:62142**
Thomas, Alban *see* **Boumahdi, Rachid**
Tsurumi, Hiroki (*with* Mehr, Peter) Exogeneity tests in a truncated structural equation. (English summary)
Ullah, Aman (*with* Racine, Jeff) Smooth improved estimators of econometric parameters. (English summary) (*see* **93m:62006**)
Wyhowski, Donald *see* **Cornwell, Christopher; et al., 93g:62136**
Yanagimoto, Takemi Estimating a model through the conditional MLE. **93c:62169**
Zellner, Arnold Bayesian analysis in econometrics. (English summary) (*see* **93m:62006**)

Items with secondary classifications in 62P20

Ahn, Hyungtaik (*with* Manski, Charles F.) Distribution theory for the analysis of binary choice under uncertainty with nonparametric estimation of expectations. (English summary) **93m:62063**
Aigner, Dennis J. *see* **Ghali, Khalifa, (93m:62006)**
(Amman, Hans M.) *see* **Computational economics and econometrics, 93b:90009**
Anderson, T. W. The asymptotic distribution of autocorrelation coefficients. (English summary) **93h:62174**
Baltagi, Badi H. (*with* Li, Qi) A monotonic property for iterative GLS in the two-way random effects model. (English summary) **93m:62145**
(Barnett, William A.) *see* **Nonparametric and semiparametric methods in econometrics and statistics, 93c:62005**
(Belsley, David A.) *see* **Computational economics and econometrics, 93b:90009**
Bentler, Peter M. *see* **Satorra, Albert, (93g:62001)**
(Bock, M. E.) *see* **Readings in econometric theory and practice, 93m:62006**
Campbell, John Y. *see* **Perron, Pierre, 93h:62167**
Chandra, Ram *see* **Srivastava, Anil K., 93e:62179**
Cheng, Chi Lun (*with* Van Ness, John W.) Generalized M-estimators for errors-in-variables regression. **93h:62063**
Choi, In (*with* Phillips, Peter C. B.) Asymptotic and finite sample distribution theory for IV estimators and tests in partially identified structural equations. **93e:62080**
Cumby, Robert E. (*with* Huizinga, John) Testing the autocorrelation structure of disturbances in ordinary least squares and instrumental variables regressions. **93m:62149**
Dorfman, Jeffrey H. (*with* Havenner, Arthur M.) A Bayesian approach to state space multivariate time series modeling. **93c:62146**
Durlauf, Steven N. Spectral based testing of the martingale hypothesis. **93e:62212**
— Time series properties of aggregate output fluctuations. (English summary) **93j:62225**
Eastwood, Brian J. (*with* Gallant, A. Ronald) Adaptive rules for seminonparametric estimators that achieve asymptotic normality. **93g:62053**
Faust, Jon When are variance ratio tests for serial dependence optimal? (English summary) **93e:62230**
Fisher, Franklin M. ★ Econometrics. **93d:01093**
Fisher, Stephen D. *see* **Spencer, Bruce D.**
Galbraith, John W. (*with* Zinde-Walsh, Victoria) The GLS transformation matrix and a semi-recursive estimator for the linear regression model with ARMA errors. **93d:62159**
Gallant, A. Ronald *see* **Eastwood, Brian J., 93g:62053**
Ghali, Khalifa (*with* Aigner, Dennis J.) Data pooling and self-selection: a mixed effects hierarchical approach. (English summary) (*see* **93m:62006**)
Giles, David E. A. (*with* Srivastava, Virendra Kumar) An unbiased estimator of the covariance matrix of the mixed regression estimator. **93a:62085**
Giles, Judith A. Estimation of the error variance after a preliminary test of homogeneity in a regression model with spherically symmetric disturbances. (English summary) **93j:62171**
Gouriéroux, Christian Courbes de performance, de sélection et de discrimination. (English and French summaries) [Performance, selection and discrimination curves]
(Griffiths, W. E.) *see* **Readings in econometric theory and practice, 93m:62006**
Hansen, Bruce E. Consistent covariance matrix estimation for dependent heterogeneous processes. **93c:62147**
Havenner, Arthur M. *see* **Dorfman, Jeffrey H., 93c:62146**
Heij, Christiaan (*with* Kloek, Teun; Lucas, André) Positivity conditions for stochastic state space modelling of time series. (English summary) **93m:62197**
Hesse, C. H. On asymptotics of the sample distribution for a class of linear process models in economics. (English summary) **93k:62184**
Hidalgo, F. Javier Adaptive estimation in time series regression models with heteroskedasticity of unknown form. (English summary) **93j:62227**
Honoré, Bo E. Trimmed LAD and least squares estimation of truncated and censored regression models with fixed effects. **93a:62100**
Huizinga, John *see* **Cumby, Robert E., 93m:62149**
Johansen, Søren Cointegration in partial systems and the efficiency of single-equation analysis. **93e:62233**
(Judge, George) *see* **Readings in econometric theory and practice, 93m:62006**
Kabe, D. G. Equivalence of GMANOVA and SUR models. (English summary) **93f:62092**
Kemp, Gordon C. R. The joint distribution of forecast errors in the AR(1) model. **93f:62130**
— On Wald tests for globally and locally quadratic restrictions. **93g:62091**
Kloek, Teun *see* **Heij, Christiaan; et al., 93m:62197**
Krämer, Walter *see* **Ploberger, Werner, 93a:62098**
Lancaster, Tony ★ The econometric analysis of transition data. **93f:90041**
Leamer, Edward E. Bayesian elicitation diagnostics. **93c:62054**
Lee, Lung Fei Amemiya's generalized least squares and tests of overidentification in

simultaneous equation models with qualitative or limited dependent variables. (English summary) **93j:62073**

— On efficiency of methods of simulated moments and maximum simulated likelihood estimation of discrete response models. (English summary) **93k:62218**

Lee, Myoung-jae Median regression for ordered discrete response. **93e:62180**

Li, Qi *see* **Baltagi, Badi H., 93m:62145**

Liang, Wên Ch'i On asymptotic optimum rules for the selection of variables in regression analysis. **93e:62171**

Lin, Chun Tu The efficiency of least squares estimators of a seemingly unrelated regression model. **93c:62120**

Lucas, André *see* **Heij, Christiaan; et al., 93m:62197**

(Lütkepohl, Helmut) *see* **Readings in econometric theory and practice, 93m:62006**

Madhulika *see* **Srivastava, Virendra Kumar**

Manski, Charles F. Nonparametric estimation of expectations in the analysis of discrete choice under uncertainty. (*see* **93c:62005**)

— *see also* **Ahn, Hyungtaik, 93m:62063**

Mittnik, Stefan On efficient exact maximum likelihood estimation of high-order ARMA models. (*see* **93b:90009**)

Moothathu, T. S. K. On a sufficient condition for two nonintersecting Lorenz curves. (English summary) **93e:62053**

(Pau, Louis-F.) *see* **Computational economics and econometrics, 93b:90009**

Perron, Pierre (*with* Campbell, John Y.) Racines unitaires en macroéconomie: le cas multidimensionnel. (English and French summaries) [Unit roots in macroeconomics: the multidimensional case] **93h:62167**

Phillips, Peter C. B. *see* **Choi, In, 93e:62080**

Ploberger, Werner (*with* Krämer, Walter) The CUSUM test with OLS residuals. **93a:62098**

Pötscher, Benedikt M. Noninvertibility and pseudo-maximum likelihood estimation of misspecified ARMA models. **93c:62151**

Powell, James L. Estimation of monotonic regression models under quantile restrictions. **93j:62165**

— *see also* **Nonparametric and semiparametric methods in econometrics and statistics, 93c:62005**

Reimers, Hans-Eggert ★ Analyse kointegrierter Variablen mittels vektorautoregressiver Modelle. (German) [Analysis of co-integrated variables by means of vector autoregressive models]

Rogers, L. C. G. (*with* Satchell, S. E.) Estimating variance from high, low and closing prices. **93e:62217**

Ryu, Hang K. Maximum entropy estimation of density and regression functions. (English summary) **93m:62085**

Sapra, Sunil K. Asymptotic properties of a quasi-maximum likelihood estimator in truncated regression model with serial correlation. (English summary) **93h:62057**

Satchell, S. E. *see* **Rogers, L. C. G., 93e:62217**

Satorra, Albert (*with* Bentler, Peter M.) Goodness-of-fit test under IV estimation: asymptotic robustness of a NT test statistic. (English summary) (*see* **93g:62001**)

Smith, Richard J. Nonnested tests for competing models estimated by generalized method of moments. **93c:62122**

Spencer, Bruce D. (*with* Fisher, Stephen D.) On comparing distributions of poverty gaps. (English summary)

Srivastava, Anil K. (*with* Chandra, Ram) Improved estimation of restricted regression model when disturbances are not necessarily normal. (English summary) **93e:62179**

Srivastava, Virendra Kumar (*with* Madhulika) Predictive efficiency of mixed regression estimation in misspecified regression models.

— *see also* **Giles, David E. A., 93a:62085**

Steigerwald, Douglas G. Adaptive estimation in time series regression models. (English summary) **93m:62201**

Stinchcombe, Maxwell B. (*with* White, Halbert) Some measurability results for extrema of random functions over random sets. **93f:28011**

Taguchi, Tokio A characterization of Gini's statistics: on a system of vector analysis of distribution. (English and Italian summaries)

(Tauchen, George E.) *see* **Nonparametric and semiparametric methods in econometrics and statistics, 93c:62005**

Trívez, F. Javier Granger causality in a bivariate framework. (Spanish. English summary)

— Granger causality in multivariate time-series models. (Spanish. English summary)

Van Ness, John W. *see* **Cheng, Chi Lun, 93h:62063**

Vuong, Quang H. (*with* Wang, Weiren) Minimum chi-square estimation and tests for model selection. (English summary) **93j:62069**

Wang, Weiren *see* **Vuong, Quang H., 93j:62069**

Watson, Patrick Kent The von Neumann ratio test for serial correlation in the general linear regression model.

Weiss, Andrew A. Some aspects of measurement error in a censored regression model. (English summary) **93j:62180**

White, Halbert *see* **Stinchcombe, Maxwell B., 93f:28011**

Wooldridge, Jeffrey M. Some alternatives to the Box-Cox regression model. (English summary) **93h:62120**

Zellner, Arnold Bayesian methods and entropy in economics and econometrics. (*see* **93b:00011**)

Zinde-Walsh, Victoria *see* **Galbraith, John W., 93d:62159**

Items listed otherwise than by author

Biography:
Judge, George G. ★ Readings in econometric theory and practice. **93m:62006**

Computational economics and econometrics ★ Computational economics and econometrics. **93b:90009**

Durham, NC ★ Nonparametric and semiparametric methods in econometrics and statistics. **93c:62005**

Meeting:
Society of Economic Dynamics and Control ★ Computational economics and econometrics. **93b:90009**

Minneapolis, MN ★ Computational economics and econometrics. **93b:90009**

Nonparametric and semiparametric methods in econometrics and statistics ★ Nonparametric and semiparametric methods in econometrics and statistics. **93c:62005**

Readings in econometric theory and practice ★ Readings in econometric theory and practice. **93m:62006**

Symposium:
Economic Theory and Econometrics ★ Nonparametric and semiparametric methods in econometrics and statistics. **93c:62005**

62P25 Applications to social sciences

Lee, Lung Fei On efficiency of methods of simulated moments and maximum simulated likelihood estimation of discrete response models. (English summary) **93k:62218**

Items with secondary classifications in 62P25

Fisher, Stephen D. *see* **Spencer, Bruce D.**

Frank, Ove (*with* Nowicki, Krzysztof) Exploratory statistical analysis of networks. (English summary) (*see* **93k:05003**)

Gleissner, W. A parameterisation of the price indices characterized by the Eichhorn-Voeller axioms. **93g:90021**

Nowicki, Krzysztof Asymptotic distributions in random graphs with applications to social networks. **93a:60016**

— *see also* **Frank, Ove, (93k:05003)**

Spencer, Bruce D. (*with* Fisher, Stephen D.) On comparing distributions of poverty gaps. (English summary)

62P99 None of the above, but in this section

Makhmudov, Z. M. Taking into account supplementary information in randomized synthesis of composite indicators. (Russian. Russian summary)

Petit, J. L. Généralisation du paradoxe de Simpson. (English and French summaries) [Generalization of the Simpson paradox] **93m:62222**

Items with secondary classifications in 62P99

Bickel, Peter J. (*with* Nair, Vijayan N.; Wang, Paul C. C.) Nonparametric inference under biased sampling from a finite population. **93h:62068**

Ciampi, Antonio Constructing prediction trees from data: the RECPAM approach. (English summary) (*see* **93k:62001**)

Comets, Francis (*with* Gidas, Basilis) Asymptotics of maximum likelihood estimators for the Curie-Weiss model. **93c:62038**

Daglish, George The essential mathematics of remote sensing. (English summary) **93f:86007**

Gidas, Basilis *see* **Comets, Francis, 93c:62038**

Moothathu, T. S. K. The best estimator and a strongly consistent asymptotically normal unbiased estimator of Lorenz curve Gini index and Theil entropy index of Pareto distribution. (English summary)

Nair, Vijayan N. *see* **Bickel, Peter J.; et al., 93h:62068**

Sanchez, J. *see* **Velilla Cerdán, Santiago, (93g:62001)**

Velilla Cerdán, Santiago (*with* Sanchez, J.) Optimal design for the estimation of the Z-resonance parameters. (English summary) (*see* **93g:62001**)

Wang, Paul C. C. *see* **Bickel, Peter J.; et al., 93h:62068**

62Q05 Statistical tables

(Koziol, James A.) *see* **Handbook: Percentage points of the inverse Gaussian distribution, 93e:62264**

Robison-Cox, James Tables of order statistics of normal random variables under linear trend. (English summary)

Items listed otherwise than by author

Handbook:
Percentage points of the inverse Gaussian distribution ★ CRC handbook of percentage points of the inverse Gaussian distribution. **93e:62264**

Items with secondary classifications in 62Q05

(Beyer, William H.) *see* **CRC standard probability and statistics, 93f:62001**

Bognárová, Marta *see* **Rublík, František, 93f:62137**

Rublík, František (*with* Bognárová, Marta) Tables for a statistical quality control test. (English and Slovak summaries) **93f:62137**

Items listed otherwise than by author

CRC standard probability and statistics ★ CRC standard probability and statistics. **93f:62001**

Tables:
Statistics and probability ★ CRC standard probability and statistics. **93f:62001**

65–XX Numerical analysis

65–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

(Becker, Albert) *see* **Engeln-Müllges, Gisela, 93g:65001** *and* **93g:65002b**

Bohlender, Gerd Bibliography on enclosure methods and related topics. (*see* **93f:65009**)

(Dietel, Jürgen) *see* **Engeln-Müllges, Gisela, 93g:65002a** *and* **93g:65002b**

(Eggermann, Uli) *see* **Engeln-Müllges, Gisela, 93g:65002a**

(Engeln, Claus) *see* **Engeln-Müllges, Gisela, 93g:65002a**
Engeln-Müllges, Gisela (*with* Reutter, Fritz) ★ Formelsammlung zur numerischen Mathematik mit C-Programmen. (German) [Collection of formulas on numerical mathematics with C-programs] **93g:65001**
— (*with* Reutter, Fritz) ★ Formelsammlung zur numerischen Mathematik mit QuickBASIC-Programmen. (German) [Collection of formulas on numerical mathematics with QuickBASIC programs] **93g:65002a**
— (*with* Reutter, Fritz) ★ Formelsammlung zur numerischen Mathematik mit Turbo Pascal-Programmen. (German) [Collection of formulas on numerical mathematics with Turbo Pascal programs] **93g:65002b**
Flannery, Brian P. *see* **Press, William H.; et al., 93i:65001a** *and* **93i:65001b**
(Golub, Gene H.) *see* **Van Huffel, Sabine, 93b:65001**
(Gukelberger, Thilo) *see* **Engeln-Müllges, Gisela, 93g:65001**
Mackerle, Jaroslav Finite and boundary elements and supercomputing—a bibliography (1989–1991). (English summary)
(Pohl, Elmar) *see* **Engeln-Müllges, Gisela, 93g:65002a**
Press, William H. (*with* Teukolsky, Saul A.; Vetterling, William T.; Flannery, Brian P.) ★ Numerical recipes in FORTRAN. **93i:65001a**
— (*with* Teukolsky, Saul A.; Vetterling, William T.; Flannery, Brian P.) ★ Numerical recipes in C. (English. English summary) **93i:65001b**
Reutter, Fritz *see* **Engeln-Müllges, Gisela, 93g:65001; 93g:65002a** *and* **93g:65002b**
(Seesing-Völkel, Dorothée) *see* **Engeln-Müllges, Gisela, 93g:65001**
Teukolsky, Saul A. *see* **Press, William H.; et al., 93i:65001a** *and* **93i:65001b**
Vandewalle, Joos *see* **Van Huffel, Sabine, 93b:65001**
Van Huffel, Sabine (*with* Vandewalle, Joos) ★ The total least squares problem. **93b:65001**
Vetterling, William T. *see* **Press, William H.; et al., 93i:65001a** *and* **93i:65001b**

Items with secondary classifications in 65–00

Beaven, C. H. J. ★ The approximations handbook. **93i:00004**
Mackerle, Jaroslav ★ Finite element methods. **93d:00007**
(Meier, Jörg) *see* **Späth, Helmuth, 93k:65013**
Späth, Helmuth ★ Eindimensionale Spline-Interpolations-Algorithmen. (German. German summary) [One-dimensional spline interpolation algorithms] **93k:65013**
Su, Kendall L. ★ Handbook of tables for elliptic-function filters. **93c:65029**
Zwillinger, Daniel ★ Handbook of integration. **93i:00005**

Items listed otherwise than by author

Index:
Appl. Numer. Math. Master index to Volumes 1–10.

65–01 Instructional exposition (textbooks, tutorial papers, etc.)

Ames, William F. ★ Numerical methods for partial differential equations. **93g:65003**
Badriev, I. B. (*with* Voloshanovskaya, S. N.) ★ Численные методы. (Russian) [Numerical methods] **93m:65001**
Heinrich, Juan C. *see* **Pepper, Darrell W., 93f:65001**
Higham, Nicholas J. Solving linear equations. (*see* **93g:00019**)
Jennings, Alan (*with* McKeown, J. J.) ★ Matrix computation. **93m:65002**
Karchevskiĭ, M. M. (*with* Lyashko, A. D.; Pavlova, M. F.) ★ Методы вычислений: численные методы решения дифференциальных уравнений. (Russian) [Computational methods: numerical methods for solving differential equations] **93a:65001**
Korbicz, Józef (*with* Zajda, Zbigniew; Solnik, Włodzimierz; Uciński, Dariusz) ★ Wybrane metody numerycznego rozwiązywania równań różniczkowych cząstkowych. (Polish) [Selected methods for the numerical solution of partial differential equations] **93e:65001**
(Lommatzsch, Klaus) *see* **Sobol', I. M., 93g:65005**
Lyashko, A. D. *see* **Karchevskiĭ, M. M.; et al., 93a:65001**
(Matthes, A.) *see* **Sobol', I. M., 93g:65005**
McKeown, J. J. *see* **Jennings, Alan, 93m:65002**
Pavlova, M. F. *see* **Karchevskiĭ, M. M.; et al., 93a:65001**
Pepper, Darrell W. (*with* Heinrich, Juan C.) ★ The finite element method. **93f:65001**
Samarskiĭ, A. A. ★ Теория разностных схем. (Russian. Russian summary) [Theory of difference schemes] **93g:65004**
Schatzman, Michelle ★ Analyse numérique. (French. French summary) [Numerical analysis] **93i:65002**
Schwarz, Hans-Rudolf ★ Methode der finiten Elemente. (German) [The finite element method] **93e:65002**
Sobol', I. M. ★ Die Monte-Carlo-Methode. (German) [The Monte Carlo method] **93g:65005**
Solnik, Włodzimierz *see* **Korbicz, Józef; et al., 93e:65001**
Uciński, Dariusz *see* **Korbicz, Józef; et al., 93e:65001**
Voloshanovskaya, S. N. *see* **Badriev, I. B., 93m:65001**
Zajda, Zbigniew *see* **Korbicz, Józef; et al., 93e:65001**

Items with secondary classifications in 65–01

(Bukhgeim, A. L.) *see* **Lavrent'ev, M. M., 93m:47001**
Bustos, Oscar H. (*with* Frery, Alejandro C.) ★ Simulação estocástica: teoria e algoritmos. (Portuguese) [Stochastic simulation: theory and algorithms] **93f:65011**
Frery, Alejandro C. *see* **Bustos, Oscar H., 93f:65011**
Glassey, Robert ★ Numerical computation using C. **93j:65001**
(Golub, Gene H.) *see* **Van Huffel, Sabine, 93b:65001**
Lavrent'ev, M. M. (*with* Savel'ev, L. Ya.) ★ Линейные операторы и некорректные задачи. (Russian. English and Russian summaries) [Linear operators and ill-posed problems] **93m:47001**
Mikhailov, G. A. ★ Minimization of computational costs of nonanalogue Monte Carlo methods. **93c:65011**
Savel'ev, L. Ya. *see* **Lavrent'ev, M. M., 93m:47001**
Vandewalle, Joos *see* **Van Huffel, Sabine, 93b:65001**
Van Huffel, Sabine (*with* Vandewalle, Joos) ★ The total least squares problem. **93b:65001**
Walker, James Stephan ★ Fast Fourier transforms. **93g:00007**
Wittum, Gabriel ★ Filternde Zerlegungen. (German) [Filtering decompositions] **93e:65039**

65–02 Research exposition (monographs, survey articles)

Bowers, Kenneth L. *see* **Lund, John, 93i:65004**
(Brebbia, C. A.) *see* **Boundary element technology, 93b:65002**
Brezinski, Claude (*with* Redivo Zaglia, Michela) ★ Extrapolation methods. **93d:65001**
Fedorenko, R. P. Stiff systems of ordinary differential equations and their numerical integration. (Russian) **93c:65001**
George, P. L. ★ Automatic mesh generation. **93f:65002**
(Ingber, Marc S.) *see* **Boundary element technology, 93b:65002**
Liseĭkin, V. D. (*with* Petrenko, V. E.) ★ Адаптивно-инвариантный метод численного решения задач с пограничными и внутренними слоями. (Russian) [An adaptive-invariant method for the numerical solution of problems with boundary and interior layers] **93i:65003**
Lund, John (*with* Bowers, Kenneth L.) ★ Sinc methods for quadrature and differential equations. **93i:65004**
Petrenko, V. E. *see* **Liseĭkin, V. D., 93i:65003**
Redivo Zaglia, Michela *see* **Brezinski, Claude, 93d:65001**
Wesseling, Pieter ★ An introduction to multigrid methods. **93g:65006**

Items listed otherwise than by author

Albuquerque, NM ★ Boundary element technology. VII. **93b:65002**
Boundary element technology ★ Boundary element technology. VII. **93b:65002**
Conference:
Boundary Element Technology ★ Boundary element technology. VII. **93b:65002**

Items with secondary classifications in 65–02

Chen, Goong (*with* Zhou, Jian-Xin) ★ Boundary element methods. **93e:65143**
Eberle, Albrecht (*with* Rizzi, Arthur; Hirschel, Ernst Heinrich) ★ Numerical solutions of the Euler equations for steady flow problems. **93f:76081**
Hari, Vjeran On sharp quadratic convergence bounds for the serial Jacobi methods. **93a:65050**
Hirschel, Ernst Heinrich *see* **Eberle, Albrecht; et al., 93f:76081**
Kramer, Martina Elijda ★ Aspects of solving nonlinear boundary value problems numerically. **93c:65096**
Křivánek, Mirko Algorithmic and geometric aspects of cluster analysis. **93e:65022**
McCormick, Stephen F. ★ Multilevel projection methods for partial differential equations. **93b:65137**
Quarteroni, Alfio Numerical methods in fluid-dynamics. (Italian) **93g:76095**
Rizzi, Arthur *see* **Eberle, Albrecht; et al., 93f:76081**
Saad, Youcef ★ Numerical methods for large eigenvalue problems. **93h:65052**
Strehmel, Karl (*with* Weiner, Rüdiger) ★ Linear-implizite Runge-Kutta-Methoden und ihre Anwendung. (German) [Linearly implicit Runge-Kutta methods and their application] **93g:65095**
Voevodin, V. V. ★ Mathematical foundations of parallel computing. **93j:65230**
Weiner, Rüdiger *see* **Strehmel, Karl, 93g:65095**
Zhou, Jian-Xin *see* **Chen, Goong, 93e:65143**
Zlatev, Zahari ★ Computational methods for general sparse matrices. **93b:65074**

65–03 Historical (must also be assigned at least one classification number from Section 01)

Golub, Gene H. A history of modern numerical linear algebra. **93c:65002**

Items with secondary classifications in 65–03

(Faddeev, D. K.) *see* **Kublanovskaya, V. N., 93a:01057c**
(Faddeeva, V. N.) *see* **Kublanovskaya, V. N., 93a:01057c**
Ferry, D. K. *see* **Masani, P.; et al.**
Folta, Jaroslav Notes on the history of numerical analysis in its connections with Prague. (*see* **93b:65007**)
Kollerstrom, Nick Thomas Simpson and "Newton's method of approximation": an enduring myth. **93k:01031**
Kublanovskaya, V. N. The contribution of V. N. Faddeeva and D. K. Faddeev in the development of computational methods in linear algebra. (Russian) **93a:01057c**
Masani, P. (*with* Randell, B.; Ferry, D. K.; Saeks, R.) The Wiener memorandum on the mechanical solution of partial differential equations.
Randell, B. *see* **Masani, P.; et al.**
Saeks, R. *see* **Masani, P.; et al.**
Szabados, J. (*with* Vértesi, Péter) A survey on mean convergence of interpolatory processes. (English summary) **93j:65016**
Vértesi, Péter *see* **Szabados, J., 93j:65016**

65–04 Explicit machine computation and programs (not the theory of computation or programming)

Adams, John C. MUDPACK-2: Multigrid software for approximating elliptic partial differential equations on uniform grids with any resolution. (English summary)
Barbier, Christine (*with* Bettess, Peter; Bettess, Jacqueline A.) Automatic generation of mapping functions for infinite elements using REDUCE. (English summary)
Bekakos, M. P. (*with* Evans, David J.) The double alternating group explicit method for nonlinear parabolic equations on MIMD parallel computers. (English summary)
Bennett, Karin R. *see* **Majaess, Fouad; et al., 93a:65002** *and* **93a:65003**
Bettess, Jacqueline A. *see* **Barbier, Christine; et al.**
Bettess, Peter *see* **Barbier, Christine; et al.**
Cariño, Ricolindo (*with* Robinson, Ian; de Doncker-Kapenga, Elise) An algorithm for automatic integration of certain singular functions over a triangle. (English summary) (*see* **93f:65006**)
Conn, Andrew R. (*with* Gould, N. I. M.; Toint, Ph. L.) ★ LANCELOT. (English. English summary)
de Doncker-Kapenga, Elise *see* **Cariño, Ricolindo; et al., (93f:65006)**
(Euler, Norbert) *see* **Steeb, Willi-Hans, 93h:65001**

Evans, David J. *see* **Bekakos, M. P.**
Fairweather, Graeme *see* **Majaess, Fouad; et al., 93a:65002** *and* **93a:65003**
Feudel, Ulrike (*with* Jansen, Wolfgang) CANDYS/QA—a software system for qualitative analysis of nonlinear dynamical systems. (English summary) **93k:65001**
Glassey, Robert ★ Numerical computation using C. **93j:65001**
Gould, N. I. M. *see* **Conn, Andrew R.; et al.**
Grotendorst, J. Algorithms of mixed symbolic-numeric type for rational approximation. (English summary) (*see* **93j:00007**)
Gur'yanov, A. V. ★ Пакет программ для решения двухточечных краевых задач (метод ортогонального переноса граничных условий). (Russian. Russian summary) [A program package for solving two-point boundary value problems (the method of orthogonal transfer of boundary conditions)]
Hereman, W. (*with* Zhuang, W.) Symbolic computation of solitons with Macsyma. (English summary) **93m:65003**
Huseyin, K. *see* **Wang, S., 93g:65007**
Jansen, Wolfgang *see* **Feudel, Ulrike, 93k:65001**
Jones, Mark T. (*with* Patrick, Merrell L.) The Lanczos algorithm for the generalized symmetric eigenproblem on shared-memory architectures. (English summary) (*see* **93j:00007**)
Keast, Patrick *see* **Majaess, Fouad; et al., 93a:65002** *and* **93a:65003**
Killingbeck, John P. ★ Microcomputer algorithms.
Lewien, Dirk *see* **Steeb, Willi-Hans, 93j:65002**
Liska, R. Numerical code generation for finite difference schemes solving. (English summary) (*see* **93j:00007**)
Majaess, Fouad (*with* Keast, Patrick; Fairweather, Graeme; Bennett, Karin R.) The solution of almost block diagonal linear systems arising in spline collocation at Gaussian points with monomial basis functions. **93a:65002**
— (*with* Keast, Patrick; Fairweather, Graeme; Bennett, Karin R.) Algorithm 704: ABD-PACK and ABBPACK-FORTRAN programs for the solution of almost block diagonal linear systems arising in spline collocation at Gaussian points with monomial basis functions. **93a:65003**
Moonen, Marc (*with* Van Dooren, Paul; Vandewalle, Joos) A systolic array for SVD updating. (English summary)
Patrick, Merrell L. *see* **Jones, Mark T., (93j:00007)**
Ratz, Dietmar An inclusion algorithm for global optimization in a portable PASCAL-XSC implementation. (English summary) (*see* **93i:65006**)
Robinson, Ian *see* **Cariño, Ricolindo; et al., (93f:65006)**
Steeb, Willi-Hans ★ Algorithms and computations with Turbo-Pascal. **93h:65001**
— (*with* Lewien, Dirk) ★ Algorithms and computation with REDUCE. (English. English summary) **93j:65002**
— Computer algebra and its applications in physics. (English summary) **93i:65005**
Tesfatsion, Leigh Nonlocal automated comparative static analysis. (English summary) **93h:65002**
Toint, Ph. L. *see* **Conn, Andrew R.; et al.**
Vandewalle, Joos *see* **Moonen, Marc; et al.**
Van Dooren, Paul *see* **Moonen, Marc; et al.**
Wang, S. (*with* Huseyin, K.) "Maple" analysis of nonlinear oscillations. (English summary) **93g:65007**
Yutsis, V. S. Automation of some stages of the realization of the finite-element method. (Russian. English and Georgian summaries) **93c:65003**
Zhuang, W. *see* **Hereman, W., 93m:65003**

Items with secondary classifications in 65–04

Bailey, P. B. (*with* Everitt, W. N.; Zettl, Anton) Computing eigenvalues of singular Sturm-Liouville problems. **93a:65102**
Baker, Christopher T. H. *see* **Willé, David R., 93a:65109**
Balfour, James A. D. ★ Computer analysis of structural frameworks. **93f:73002**
Barnsley, Michael F. ★ The Desktop Fractal Design System. **93k:58133a**
— ★ The Desktop Fractal Design System. **93k:58133b**
Cai, Xiao-Chuan (*with* Gropp, William D.; Keyes, David E.) A comparison of some domain decomposition algorithms for nonsymmetric elliptic problems. (English summary) **93h:65149**
Desprez, F. (*with* Tourancheau, B.) Parallel BLAS and BLACS for numerical algorithms on a reconfigurable network. (English summary) (*see* **93m:65006**)
Everitt, W. N. *see* **Bailey, P. B.; et al., 93a:65102**
Feng, Yong Cheng *see* **Wang, Xi Liang; et al., 93j:65031**
Fischer, Hans Christoph Automatic differentiation and applications. **93j:65032**
Flannery, Brian P. *see* **Press, William H.; et al., 93i:65001a** *and* **93i:65001b**
Gropp, William D. *see* **Cai, Xiao-Chuan; et al., 93h:65149**
Gruber, Bruno *see* **Ramek, Michael, 93e:22001**
Kelch, Rainer Numerical quadrature by extrapolation with automatic result verification. (English summary) **93m:65032**
Keyes, David E. *see* **Cai, Xiao-Chuan; et al., 93h:65149**
Kimbrel, Tracy (*with* Sinha, Rakesh Kumar) A probabilistic algorithm for verifying matrix products using $O(n^2)$ time and $\log_2 n + O(1)$ random bits.
Lioen, Walter M. (*with* Winter, Dik T.) Solving large dense systems of linear equations on systems with virtual memory and with cache.
Loyens, Ludovicus Daniël Joseph Carolus ★ A design method for parallel programs. **93f:65099**
Lozier, D. W. (*with* Turner, Peter R.) Robust parallel computation in floating-point and SLI arithmetic. (English and German summaries) **93e:65161**
Mattheij, R. M. M. (*with* Staarink, G. W. M.) ★ BOUNDPAK. Part 1. **93b:65222a**
— (*with* Staarink, G. W. M.) ★ BOUNDPAK. Part 2. **93b:65222b**
Mbala Hikolo, A. *see* **Onana, A.**
(Meier, Jörg) *see* **Späth, Helmuth, 93k:65013**
Onana, A. (*with* Mbala Hikolo, A.) A direct solver for a class of symmetric linear systems. (English summary)
Pasquarelli, Franco *see* **Quarteroni, Alfio; et al., 93h:65155**
Press, William H. (*with* Teukolsky, Saul A.; Vetterling, William T.; Flannery, Brian P.) ★ Numerical recipes in FORTRAN. **93i:65001a**
— (*with* Teukolsky, Saul A.; Vetterling, William T.; Flannery, Brian P.) ★ Numerical recipes in C. (English. English summary) **93i:65001b**
Qing, Xian Ming *see* **Wang, Xi Liang; et al., 93j:65031**
Quarteroni, Alfio (*with* Pasquarelli, Franco; Valli, Alberto) Heterogeneous domain decomposition: principles, algorithms, applications. (English summary) **93h:65155**
Ramek, Michael (*with* Gruber, Bruno) Programs for symmetry adaptation coefficients for semisimple symmetry chains: the general case. **93e:22001**
Sinha, Rakesh Kumar *see* **Kimbrel, Tracy**
(Spalviņš, A.) *see* **Computer technology and boundary value problems. A network coprocessor, 93b:65003**
Späth, Helmuth ★ Eindimensionale Spline-Interpolations-Algorithmen. (German. German summary) [One-dimensional spline interpolation algorithms] **93k:65013**
Staarink, G. W. M. *see* **Mattheij, R. M. M., 93b:65222a** *and* **93b:65222b**
Storck, Ulrike Numerical integration in two dimensions with automatic result verification. (English summary) **93j:65038**
Teukolsky, Saul A. *see* **Press, William H.; et al., 93i:65001a** *and* **93i:65001b**
Tourancheau, B. *see* **Desprez, F., (93m:65006)**
Turner, Peter R. *see* **Lozier, D. W., 93e:65161**
Valli, Alberto *see* **Quarteroni, Alfio; et al., 93h:65155**
Vetterling, William T. *see* **Press, William H.; et al., 93i:65001a** *and* **93i:65001b**
Wang, Xi Liang (*with* Feng, Yong Cheng; Qing, Xian Ming) Numerical computation of cylindrical functions for complex arguments. (Chinese. English and Chinese summaries) **93j:65031**
Willé, David R. (*with* Baker, Christopher T. H.) The tracking of derivative discontinuities in systems of delay-differential equations. **93a:65109**
Winter, Dik T. *see* **Lioen, Walter M.**
Wittum, Gabriel ★ Filternde Zerlegungen. (German) [Filtering decompositions] **93e:65039**
Zettl, Anton *see* **Bailey, P. B.; et al., 93a:65102**
Zwillinger, Daniel ★ Handbook of integration. **93i:00005**

Items listed otherwise than by author

Computer technology and boundary value problems. A network coprocessor ★ Вычислительная техника и краевые задачи. Сеточный сопроцессор. (Russian) [Computer technology and boundary value problems. A network coprocessor] **93b:65003**

65–06 Proceedings, conferences, collections, etc.

(Adams, Ernst Wilhelm) *see* **Scientific computing with automatic result verification, 93f:65009**
(Aliabadi, M. Hosseini) *see* **Adaptive finite and boundary element methods, 93m:65005**
(Andreev, Andrei St.) *see* **Mathematical modelling and scientific computations, 93a:65004**
(Atanassova, Lidlya) *see* **Computer arithmetic and enclosure methods, 93i:65006**
(Azencott, Robert) *see* **Simulated annealing, 93e:65003**
(Bellen, Alfredo) *see* **Parallel methods for ordinary differential equations, 93f:65008**
(Birkhoff, Garrett) *see* **Festschrift: Birkhoff, Garrett, 93c:65004**
(Bouleau, Nicolas) *see* **Numerical probability, 93k:65002**
(Brebbia, C. A.) *see* **Adaptive finite and boundary element methods, 93m:65005**
(Broomhead, D. S.) *see* **Dynamics of numerics and the numerics of dynamics, 93b:65004**
(Canuto, Claudio) *see* **Spectral and high order methods for partial differential equations, 93d:65005**
(Chan, Tony F. C.) *see* **Proceedings: Conference on Scientific Computation, 93d:65004** *and* **Symposium: Domain Decomposition Methods for Partial Differential Equations, 93g:65009**
(Dimov, Ivan T.) *see* **Mathematical modelling and scientific computations, 93a:65004**
(Du, Qing Hua) *see* **Theory and applications of boundary element methods, 93b:65008**
(Elliott, Charles M.) *see* **Conference: Dynamics of Numerics and Numerics of Dynamics, 93d:65002**
(Espelid, Terje O.) *see* **Numerical integration, 93f:65006**
(Garbey, Marc) *see* **Asymptotic and numerical methods for partial differential equations with critical parameters, 93m:65006**
(Genz, Alan) *see* **Numerical integration, 93f:65006**
(Griffiths, D. F.) *see* **Numerical analysis, 93b:65005**
(Guo, Ben Yu) *see* **Numerical methods for partial differential equations, 93b:65006**
(Herzberger, Jürgen) *see* **Computer arithmetic and enclosure methods, 93i:65006**
(Il'in, V. P.) *see* **Numerical methods and mathematical modeling, 93i:65007**
(Iserles, Arieh) *see* **Dynamics of numerics and the numerics of dynamics, 93b:65004; Conference: Dynamics of Numerics and Numerics of Dynamics, 93d:65002** *and* **Acta numerica, 93m:65004**
(Kansa, Edward J.) *see* **Advances in the theory and applications of radial basis functions, 93g:65008**
(Kaper, Hans G.) *see* **Asymptotic and numerical methods for partial differential equations with critical parameters, 93m:65006**
(Keyes, David E.) *see* **Symposium: Domain Decomposition Methods for Partial Differential Equations, 93g:65009** *and* **Parallel processing for scientific computing, 93k:65003**
(Kulisch, Ulrich) *see* **Scientific computing with automatic result verification, 93f:65009**
(Leuze, Michael R.) *see* **Parallel processing for scientific computing, 93k:65003**
(Marek, Ivo) *see* **Proceedings: Symposium on Numerical Analysis, 93b:65007**
(Markov, Svetoslav M.) *see* **Mathematical modelling and scientific computations, 93a:65004**
(Meurant, Gérard A.) *see* **Symposium: Domain Decomposition Methods for Partial Differential Equations, 93g:65009**
(Mitchell, Andrew Ronald) *see* **Conference: Dynamics of Numerics and Numerics of Dynamics, 93d:65002**
(Monegato, Giovanni) *see* **Orthogonal polynomials and numerical methods, 93f:65007**
(Petzold, Linda R.) *see* **Parallel processing for scientific computing, 93k:65003**
(Pieper, Gail W.) *see* **Asymptotic and numerical methods for partial differential equations with critical parameters, 93m:65006**
(Quarteroni, Alfio) *see* **Spectral and high order methods for partial differential equations, 93d:65005**
(Reed, Daniel A.) *see* **Parallel processing for scientific computing, 93k:65003**
(Riganti, R.) *see* **Collected papers on stochastic systems modelling, 93f:65004**

(Scroggs, Jeffrey S.) *see* **Symposium: Domain Decomposition Methods for Partial Differential Equations, 93g:65009**
(Shi, Zhong Ci) *see* **Proceedings: Conference on Scientific Computation, 93d:65004**
(Sincovec, Richard F.) *see* **Parallel processing for scientific computing, 93k:65003**
(Spalviņš, A.) *see* **Computer technology and boundary value problems. A network coprocessor, 93b:65003**
(Spence, A.) *see* **Conference: Dynamics of Numerics and Numerics of Dynamics, 93d:65002**
(Talay, Denis) *see* **Numerical probability, 93k:65002**
(Tanaka, Masataka) *see* **Theory and applications of boundary element methods, 93b:65008**
(Traub, Joseph F.) *see* **Festschrift: Traub, Joseph F., 93j:65003**
(Ullrich, Ch.) *see* **Mathematical modelling and scientific computations, 93a:65004**
(Varga, Richard S.) *see* **Festschrift: Birkhoff, Garrett, 93c:65004**
(Vichnevetsky, Robert) *see* **Festschrift: Birkhoff, Garrett, 93c:65004**
(Voigt, Robert G.) *see* **Symposium: Domain Decomposition Methods for Partial Differential Equations, 93g:65009**
(Watson, G. A.) *see* **Numerical analysis, 93b:65005**
(Woźniakowski, Henryk) *see* **Festschrift: Traub, Joseph F., 93j:65003**
(Ying, Long An) *see* **Numerical methods for partial differential equations, 93b:65006**
(Zennaro, Marino) *see* **Parallel methods for ordinary differential equations, 93f:65008**

Items listed otherwise than by author

Acta numerica ★ Acta numerica. 1993. **93m:65004**
Adaptive finite and boundary element methods ★ Adaptive finite and boundary element methods. **93m:65005**
Advances in the theory and applications of radial basis functions ★ Advances in the theory and applications of radial basis functions. **93g:65008**
Albena ★ Mathematical modelling and scientific computations. **93a:65004**
All-Union Conference:
Monte Carlo Methods in Numerical Mathematics and Mathematical Physics ★ VIII Всесоюзное Совещание "Методы Монте-Карло в Вычислительной Математике и Математической Физике". Часть 1. (Russian) [VIII All-Union Conference "Monte Carlo Methods in Numerical Mathematics and Mathematical Physics". Part 1] **93f:65003a**
— ★ VIII Всесоюзное Совещание "Методы Монте-Карло в Вычислительной Математике и Математической Физике". Часть 2. (Russian) [VIII All-Union Conference "Monte Carlo Methods in Numerical Mathematics and Mathematical Physics". Part 2] **93f:65003b**
Asymptotic and numerical methods for partial differential equations with critical parameters ★ Asymptotic and numerical methods for partial differential equations with critical parameters. **93m:65006**
Beavne ★ Asymptotic and numerical methods for partial differential equations with critical parameters. **93m:65006**
Beijing ★ Theory and applications of boundary element methods. **93b:65008**
Bergen ★ Numerical integration. **93f:65006**
Birthday:
Birkhoff, Garrett ★ A Festschrift to honor Professor Garrett Birkhoff on his eightieth birthday. **93c:65004**
Bristol ★ The dynamics of numerics and the numerics of dynamics. **93b:65004**
— ★ IMA Conference on Dynamics of Numerics and Numerics of Dynamics. **93d:65002**
Collected papers on stochastic systems modelling ★ Collected papers on stochastic systems modelling. **93f:65004**
Como ★ Spectral and high order methods for partial differential equations. **93d:65005**
Computer arithmetic and enclosure methods ★ Computer arithmetic and enclosure methods. **93i:65006**
Computer technology and boundary value problems. A network coprocessor ★ Вычислительная техника и краевые задачи. Сеточный сопроцессор. (Russian) [Computer technology and boundary value problems. A network coprocessor] **93b:65003**
Conference:
Dynamics of Numerics and Numerics of Dynamics ★ The dynamics of numerics and the numerics of dynamics. **93b:65004**
— ★ IMA Conference on Dynamics of Numerics and Numerics of Dynamics. **93d:65002**
Numerical Analysis ★ Numerical analysis 1991. **93b:65005**
Numerical Methods for Partial Differential Equations ★ Numerical methods for partial differential equations. **93b:65006**
Parallel Methods for Ordinary Differential Equations: the State of the Art ★ Parallel methods for ordinary differential equations. **93f:65008**
Parallel Processing for Scientific Computing ★ Parallel processing for scientific computing. Vol. I, II. **93k:65003**
Scientific Computation ★ Proceedings of International Conference on Scientific Computation. **93d:65004**
Spectral and High Order Methods for Partial Differnetial Equations ★ Spectral and high order methods for partial differential equations. **93d:65005**
Dundee ★ Numerical analysis 1991. **93b:65005**
Dynamics of numerics and the numerics of dynamics ★ The dynamics of numerics and the numerics of dynamics. **93b:65004**
Extrapolation and defect correction ★ Extrapolation and defect correction. **93d:65003**
Festschrift:
Birkhoff, Garrett ★ A Festschrift to honor Professor Garrett Birkhoff on his eightieth birthday. **93c:65004**
Traub, Joseph F. ★ Festschrift for Joseph F. Traub. Part I. **93j:65003**
Grado ★ Parallel methods for ordinary differential equations. **93f:65008**
Hangzhou ★ Proceedings of International Conference on Scientific Computation. **93d:65004**
Mathematical modelling and scientific computations ★ Mathematical modelling and scientific computations. **93a:65004**
NATO Advanced Research Workshop:
Asymptotic-induced Numerical Methods for Partial Differential Equations, Critical Parameters, and Domain Decomposition ★ Asymptotic and numerical methods for partial differential equations with critical parameters. **93m:65006**
NATO Advanced Research Workshop: (*cont'd.*)
Numerical Integration: Recent Developments, Software and Applications ★ Numerical integration. **93f:65006**
Norfolk, VA ★ Fifth International Symposium on Domain Decomposition Methods for Partial Differential Equations. **93g:65009**
— ★ Parallel processing for scientific computing. Vol. I, II. **93k:65003**
Novosibirsk ★ VIII Всесоюзное Совещание "Методы Монте-Карло в Вычислительной Математике и Математической Физике". Часть 1. (Russian) [VIII All-Union Conference "Monte Carlo Methods in Numerical Mathematics and Mathematical Physics". Part 1] **93f:65003a**
— ★ VIII Всесоюзное Совещание "Методы Монте-Карло в Вычислительной Математике и Математической Физике". Часть 2. (Russian) [VIII All-Union Conference "Monte Carlo Methods in Numerical Mathematics and Mathematical Physics". Part 2] **93f:65003b**
Numerical analysis ★ Numerical analysis 1991. **93b:65005**
Numerical analysis of nonlinear problems ★ Hisenkei mondai no sūchi kaiseki. [Numerical analysis of nonlinear problems] **93f:65005**
Numerical integration ★ Numerical integration. **93f:65006**
Numerical methods and mathematical modeling ★ Численные методы и математическое моделирование. (Russian) [Numerical methods and mathematical modeling] **93i:65007**
Numerical methods for partial differential equations ★ Numerical methods for partial differential equations. **93b:65006**
Numerical probability ★ Probabilités numériques. (French) [Numerical probability] **93k:65002**
Oldenburg ★ Computer arithmetic and enclosure methods. **93i:65006**
Orthogonal polynomials and numerical methods ★ Orthogonal polynomials and numerical methods. **93f:65007**
Parallel methods for ordinary differential equations ★ Parallel methods for ordinary differential equations. **93f:65008**
Parallel processing for scientific computing ★ Parallel processing for scientific computing. Vol. I, II. **93k:65003**
Prague ★ Proceedings of the Second International Symposium on Numerical Analysis. **93b:65007**
Probabilités numériques ★ Probabilités numériques. (French) [Numerical probability] **93k:65002**
Proceedings:
Conference on Scientific Computation ★ Proceedings of International Conference on Scientific Computation. **93d:65004**
Symposium on Numerical Analysis ★ Proceedings of the Second International Symposium on Numerical Analysis. **93b:65007**
School:
Mathematical Modelling and Scientific Computations ★ Mathematical modelling and scientific computations. **93a:65004**
Scientific computing with automatic result verification ★ Scientific computing with automatic result verification. **93f:65009**
Seminar:
Extrapolation and Defect Correction in Finite Element Methods ★ Extrapolation and defect correction. **93d:65003**
Simulated annealing ★ Simulated annealing. **93e:65003**
Special Issue:
Advances in the theory and applications of radial basis functions ★ Advances in the theory and applications of radial basis functions. **93g:65008**
Orthogonal polynomials and numerical methods ★ Orthogonal polynomials and numerical methods. **93f:65007**
Spectral and high order methods for partial differential equations ★ Spectral and high order methods for partial differential equations. **93d:65005**
Symposium:
Boundary Element Methods ★ Theory and applications of boundary element methods. **93b:65008**
Computer Arithmetic and Scientific Computation ★ Computer arithmetic and enclosure methods. **93i:65006**
Domain Decomposition Methods for Partial Differential Equations ★ Fifth International Symposium on Domain Decomposition Methods for Partial Differential Equations. **93g:65009**
Numerical Analysis ★ Proceedings of the Second International Symposium on Numerical Analysis. **93b:65007**
Numerical Analysis of Nonlinear Problems ★ Hisenkei mondai no sūchi kaiseki. [Numerical analysis of nonlinear problems] **93f:65005**
Theory and applications of boundary element methods ★ Theory and applications of boundary element methods. **93b:65008**
Tianjin ★ Numerical methods for partial differential equations. **93b:65006**

Items with secondary classifications in 65–06

(Ames, William F.) *see* **Computational and applied mathematics, 93j:00008**
(Anderssen, Robert S.) *see* **Miniconference: Inverse Problems in Partial Differential Equations, 93i:00020**
(Babuška, Ivo M.) *see* **Reliability in computational mechanics, 93g:73001**
(Boyanov, Borislav D.) *see* **Optimal recovery, 93m:00043**
(Brebbia, C. A.) *see* **Boundary element technology, 93b:65002; Computational methods in water resources, 93g:76002** *and* **93g:76003**
(Brezinski, Claude) *see* **Extrapolation and rational approximation, 93g:00026** *and* **Computational and applied mathematics, 93j:00007**
(Buchmann, Johannes) *see* **Computer science, 93d:68002**
(Chung, T. J.) *see* **Finite elements in fluids, 93e:76050**
(Corduneanu, Constantin) *see* **Integral methods in science and engineering—90, 93f:00014**
(Demkowicz, Leszek) *see* **Reliability in computational mechanics, 93g:73001**
(Evans, David J.) *see* **Parallel computing '91, 93f:00016**
(Ewing, Richard E.) *see* **Computational methods in water resources, 93g:76002** *and* **93g:76003**
(Fry, John L.) *see* **Integral methods in science and engineering—90, 93f:00014**

(Ganzinger, Harald) *see* Computer science, 93d:68002
(González-Vera, Pablo) *see* Extrapolation and rational approximation, 93g:00026
(Gray, W. G.) *see* Computational methods in water resources, 93g:76002 *and* 93g:76003
(Hagen, Hans) *see* Topics in surface modeling, 93c:65026 *and* Curve and surface design, 93g:65027
(Haji-Sheikh, A.) *see* Integral methods in science and engineering—90, 93f:00014
(Hayek Calil, Nácere) *see* Extrapolation and rational approximation, 93g:00026
(Heywood, J. G.) *see* Navier-Stokes equations II—theory and numerical methods, 93m:00042
(Hotz, Günter) *see* Computer science, 93d:68002
(van der Houwen, P. J.) *see* Computational and applied mathematics, 93j:00008
(Huang, Zeng) *see* Integral methods in science and engineering—90, 93f:00014
(Hyman, James M.) *see* Experimental mathematics: computational issues in nonlinear sciences, 93f:00012
(Ingber, Marc S.) *see* Boundary element technology, 93b:65002
(Joubert, G. R.) *see* Parallel computing '91, 93f:00016
(Kaucher, Edgar) *see* Computer arithmetic, scientific computation and mathematical modelling, 93e:00022
(Korneichuk, N. P.) *see* Optimization of approximation methods, 93m:41001
(Kulisch, Ulrich) *see* Computational and applied mathematics, 93j:00007
(Lavrent'ev, M. M.) *see* All-Union Symposium: Computational Tomography, 93e:00013
(Law, A. G.) *see* Approximation, optimization and computing, 93a:41001
(Lebedev, S. A.) *see* Cybernetics and computer technology, 93b:00025
(Liddell, H.) *see* Parallel computing '91, 93f:00016
(Markov, Svetoslav M.) *see* Computer arithmetic, scientific computation and mathematical modelling, 93e:00022
(Masuda, Kyûya) *see* Navier-Stokes equations II—theory and numerical methods, 93m:00042
(Mayer, Günter) *see* Computer arithmetic, scientific computation and mathematical modelling, 93e:00022
(Mel'nikov, V. A.) *see* Cybernetics and computer technology, 93b:00025
(Natori, Makoto) *see* Parallel processing for matrix computation, 93e:65040 *and* Parallel processing for scientific computing, 93f:65027
(Nodera, T.) *see* Parallel processing for matrix computation, 93e:65040 *and* Parallel processing for scientific computing, 93f:65027
(Oden, J. Tinsley) *see* Reliability in computational mechanics, 93g:73001
(Pani, Amiya K.) *see* Miniconference: Inverse Problems in Partial Differential Equations, 93i:00020
(Papamichael, N.) *see* Computational complex analysis, 93m:00020
(Paul, Wolfgang J.) *see* Computer science, 93d:68002
(Payne, Fred R.) *see* Integral methods in science and engineering—90, 93f:00014
(Pinder, G. F.) *see* Computational methods in water resources, 93g:76002 *and* 93g:76003
(Rautmann, R.) *see* Navier-Stokes equations II—theory and numerical methods, 93m:00042
(Russell, T. F.) *see* Computational methods in water resources, 93g:76002 *and* 93g:76003
(Saff, E. B.) *see* Computational complex analysis, 93m:00020
(Samarskiĭ, A. A.) *see* Direct and inverse problems in mathematical physics, 93f:00006
(Solonnikov, V. A.) *see* Navier-Stokes equations II—theory and numerical methods, 93m:00042
(Sydow, Achim) *see* Computational systems analysis, 93e:00021
(Tikhonov, A. N.) *see* Direct and inverse problems in mathematical physics, 93f:00006
(Traub, Joseph F.) *see* Festschrift: Traub, Joseph F., 93m:00048
(Wang, Chung-Lie) *see* Approximation, optimization and computing, 93a:41001
(Wesseling, Pieter) *see* Proceedings: Conference on Numerical Methods in Fluid Mechanics, 93b:76002
(Woźniakowski, Henryk) *see* Optimal recovery, 93m:00043 *and* Festschrift: Traub, Joseph F., 93m:00048

Items listed otherwise than by author

Albena ★ Computer arithmetic, scientific computation and mathematical modelling. **93e:00022**
Albuquerque, NM ★ Boundary element technology. VII. **93b:65002**
All-Union Symposium:
  Computational Tomography ★ IV Всесоюзный Симпозиум по Вычислительной Томографии. Часть I. (Russian) [Fourth All-Union Symposium on Computational Tomography. Part I] **93e:00013**
Approximation, optimization and computing ★ Approximation, optimization and computing. **93a:41001**
Arlington, TX ★ Integral methods in science and engineering—90. **93f:00014**
Berlin ★ Computational systems analysis 1992. **93e:00021**
Birthday:
  Hotz, Günther ★ Informatik. [Computer science] **93d:68002**
  Lebedev, S. A. ★ Кибернетика и вычислительная техника. Вып. 5. (Russian) [Cybernetics and computer technology. No. 5] **93b:00025**
Boundary element technology ★ Boundary element technology. VII. **93b:65002**
Canberra ★ Mini-Conference on Inverse Problems in Partial Differential Equations. **93i:00020**
Computational and applied mathematics ★ Computational and applied mathematics. I. **93j:00007**
— ★ Computational and applied mathematics. II. **93j:00008**
Computational complex analysis ★ Computational complex analysis. **93m:00020**
Computational methods in water resources ★ Computational methods in water resources. IX. Vol. 1. **93g:76002**
— ★ Computational methods in water resources. IX. Vol. 2. **93g:76003**
Computational systems analysis ★ Computational systems analysis 1992. **93e:00021**
Computer arithmetic, scientific computation and mathematical modelling ★ Computer arithmetic, scientific computation and mathematical modelling. **93e:00022**
Computer science ★ Informatik. [Computer science] **93d:68002**
Conference:
  Boundary Element Technology ★ Boundary element technology. VII. **93b:65002**
  Computational Methods in Water Resources ★ Computational methods in water resources. IX. Vol. 1. **93g:76002**
  — ★ Computational methods in water resources. IX. Vol. 2. **93g:76003**
Conference: (*cont'd.*)
  Computer Arithmetic, Scientific Computation and Mathematical Modelling ★ Computer arithmetic, scientific computation and mathematical modelling. **93e:00022**
  Experimental Mathematics: Computational Issues in Nonlinear Science ★ Experimental mathematics: computational issues in nonlinear science. **93f:00012**
  Finite Element Methods in Flow Problems ★ Finite elements in fluids. Vol. 8. **93e:76050**
  Geometric Design ★ Curve and surface design. **93g:65027**
  Integral Methods in Science and Engineering ★ Integral methods in science and engineering—90. **93f:00014**
  Navier-Stokes Equations ★ The Navier-Stokes equations II—theory and numerical methods. **93m:00042**
  Numerical Methods in Fluid Mechanics ★ Proceedings of the Eighth GAMM-Conference on Numerical Methods in Fluid Mechanics. **93b:76002**
  Parallel Computing '91 ★ Parallel computing '91. **93f:00016**
Congress:
  Computational and Applied Mathematics ★ Computational and applied mathematics. I. **93j:00007**
  — ★ Computational and applied mathematics. II. **93j:00008**
  Extrapolation and Rational Approximation ★ Extrapolation and rational approximation. **93g:00026**
Curve and surface design ★ Curve and surface design. **93g:65027**
Cybernetics and computer technology ★ Кибернетика и вычислительная техника. Вып. 5. (Russian) [Cybernetics and computer technology. No. 5] **93b:00025**
Delft ★ Proceedings of the Eighth GAMM-Conference on Numerical Methods in Fluid Mechanics. **93b:76002**
Denver, CO ★ Computational methods in water resources. IX. Vol. 1. **93g:76002**
— ★ Computational methods in water resources. IX. Vol. 2. **93g:76003**
Direct and inverse problems in mathematical physics ★ Прямые и обратные задачи математической физики. (Russian) [Direct and inverse problems in mathematical physics] **93f:00006**
Dublin ★ Computational and applied mathematics. I. **93j:00007**
— ★ Computational and applied mathematics. II. **93j:00008**
Experimental mathematics: computational issues in nonlinear sciences ★ Experimental mathematics: computational issues in nonlinear science. **93f:00012**
Extrapolation and rational approximation ★ Extrapolation and rational approximation. **93g:00026**
Festschrift:
  Hotz, Günther ★ Informatik. [Computer science] **93d:68002**
  Traub, Joseph F. ★ Festschrift for Joseph F. Traub. Part II. **93m:00048**
Finite elements in fluids ★ Finite elements in fluids. Vol. 8. **93e:76050**
Huntsville, AL ★ Finite elements in fluids. Vol. 8. **93e:76050**
Informatik ★ Informatik. [Computer science] **93d:68002**
Integral methods in science and engineering—90 ★ Integral methods in science and engineering—90. **93f:00014**
Kraków ★ Reliability in computational mechanics. **93g:73001**
Lecture Notes in Mathematics ★ The Navier-Stokes equations II—theory and numerical methods. **93m:00042**
London ★ Parallel computing '91. **93f:00016**
Los Alamos, NM ★ Experimental mathematics: computational issues in nonlinear science. **93f:00012**
Miniconference:
  Inverse Problems in Partial Differential Equations ★ Mini-Conference on Inverse Problems in Partial Differential Equations. **93i:00020**
Navier-Stokes equations II—theory and numerical methods ★ The Navier-Stokes equations II—theory and numerical methods. **93m:00042**
Oberwolfach ★ The Navier-Stokes equations II—theory and numerical methods. **93m:00042**
Optimal recovery ★ Optimal recovery. **93m:00043**
Optimization of approximation methods ★ Оптимизация методов приближения. (Russian) [Optimization of approximation methods] **93m:41001**
Parallel computing '91 ★ Parallel computing '91. **93f:00016**
Parallel processing for matrix computation ★ Parallel processing for matrix computation. (Japanese) **93e:65040**
Parallel processing for scientific computing ★ Parallel processing for scientific computing. (Japanese) **93f:65027**
Proceedings:
  Conference on Numerical Methods in Fluid Mechanics ★ Proceedings of the Eighth GAMM-Conference on Numerical Methods in Fluid Mechanics. **93b:76002**
Puerto de la Cruz ★ Extrapolation and rational approximation. **93g:00026**
Reliability in computational mechanics ★ Reliability in computational mechanics. **93g:73001**
Special Issue:
  Computational complex analysis ★ Computational complex analysis. **93m:00020**
Symposium:
  Optimal Algorithms ★ Optimal recovery. **93m:00043**
  PCG (Preconditioned Conjugate Gradients) ★ Parallel processing for matrix computation. (Japanese) **93e:65040**
  — ★ Parallel processing for scientific computing. (Japanese) **93f:65027**
  Systems Analysis and Simulation ★ Computational systems analysis 1992. **93e:00021**
Tashkent ★ IV Всесоюзный Симпозиум по Вычислительной Томографии. Часть I. (Russian) [Fourth All-Union Symposium on Computational Tomography. Part I] **93e:00013**
Tempe, AZ ★ Curve and surface design. **93g:65027**
Topics in surface modeling ★ Topics in surface modeling. **93c:65026**
Varna ★ Optimal recovery. **93m:00043**
Workshop:
  Reliability in Computational Mechanics ★ Reliability in computational mechanics. **93g:73001**
Yokohama ★ Parallel processing for matrix computation. (Japanese) **93e:65040**
— ★ Parallel processing for scientific computing. (Japanese) **93f:65027**

65A05 Tables

Items with secondary classifications in 65A05

Paszkowski, Stefan Evaluation of a C-table. (English summary) **93h:65030**

65Bxx Acceleration of convergence

Items with secondary classifications in 65Bxx

Brezinski, Claude (*with* Redivo Zaglia, Michela) ★ Extrapolation methods. **93d:65001**
Redivo Zaglia, Michela *see* **Brezinski, Claude, 93d:65001**

65B05 Extrapolation to the limit, deferred corrections

Brezinski, Claude (*with* Sadok, H.) Some vector sequence transformations with applications to systems of equations. (English summary) **93h:65003**
Gu, Chuan Qing *see* **Zhu, Gong Qin, 93c:65007**
Liem, Chin Bo *see* **Lü, Tao; et al., 93e:65004**
Lü, Tao (*with* Shih, Tsi Min; Liem, Chin Bo) An analysis of splitting extrapolation for multidimensional problems. (English summary) **93e:65004**
Midy, P. Scaling transformations and extrapolation algorithms for vector sequences. **93g:65010**
Osada, Naoki Extensions of Levin's transformations to vector sequences. **93c:65005**
— Extrapolation methods for some singular fixed point sequences. (English summary) **93h:65004**
Paszkowski, Stefan Convergence acceleration of continued fractions of Poincaré's type 1. **93c:65006**
Redivo Zaglia, Michela Particular rules for the Θ-algorithm. (English summary) **93h:65005**
Sadok, H. *see* **Brezinski, Claude, 93h:65003**
Shih, Tsi Min *see* **Lü, Tao; et al., 93e:65004**
Zhu, Gong Qin (*with* Gu, Chuan Qing) A successive acceleration process for a general extrapolation algorithm. (Chinese. English summary) **93c:65007**

Items with secondary classifications in 65B05

Griffin, Peter Acceleration of the sum of Fibonacci reciprocals. **93d:11024**
Haegemans, Ann *see* **Verlinden, Pierre, 93g:65032**
Jolicard, Georges *see* **Killingbeck, John P., 93k:81005**
Killingbeck, John P. (*with* Jolicard, Georges) Two simple eigenvalue shooting algorithms. (English summary) **93k:81005**
Kwok, Yue-Kuen Analysis of computer-extended perturbation series. (English summary) **93h:35018**
Tai, Xue Cheng Global extrapolation with a parallel splitting method. (English summary) **93i:65095**
Verlinden, Pierre (*with* Haegemans, Ann) An asymptotic expansion in wavelet analysis and its application to accurate numerical wavelet decomposition. (English summary) **93g:65032**
Zhou, Ai Hui An extrapolation method for finite element approximation of integro-differential equations with parameters. (English summary) **93h:65173**
— Extrapolation for finite element methods of the first kind Fredholm integral equations. (English summary) **93h:65174**

65B10 Summation of series

Khattab, Ahmad *see* **Riedel, Roland**
Kzaz, M. Convergence acceleration of some Gaussian quadrature formulas for analytic functions. (English summary) **93j:65004**
Nakashima, Katsuya (*with* Okuzaki, Tomoyuki) Accelerating the convergence of slowly convergent infinite series. (Japanese. English summary) **93i:65008**
Okuzaki, Tomoyuki *see* **Nakashima, Katsuya, 93i:65008**
Riedel, Roland (*with* Khattab, Ahmad) Eine verbesserte Lubkintransformation zur Konvergenzbeschleunigung bei Potenzreihen. [An improved Lubkin transformation for accelerating convergence in power series]
Sablonnière, Paul A short note on the generalized Euler transform for the summation of power series. (English summary) **93j:65005**

Items with secondary classifications in 65B10

Li, Jian Lin On a series of Erdős-Turán type. (English summary) **93j:40002**
Paszkowski, Stefan Evaluation of the Fermi-Dirac integral of half-integer order. **93b:65036**

65B15 Euler-Maclaurin formula

Items with secondary classifications in 65B15

Haegemans, Ann *see* **Verlinden, Pierre, 93g:65032**
Verlinden, Pierre (*with* Haegemans, Ann) An asymptotic expansion in wavelet analysis and its application to accurate numerical wavelet decomposition. (English summary) **93g:65032**

65B99 None of the above, but in this section

Beckermann, Bernhard (*with* Neuber, A.; Mühlbach, G.) Shanks's transformation revisited. **93g:65011**
Benchiboun, M. D. Some results on nonlinear and nonlogarithmic sequences and their acceleration. (English summary) **93g:65012**
Lai, Choi Hong An acceleration technique for a nonoverlapped domain decomposition method. (English summary) (*see* **93j:00007**)
Matos, Ana C. Convergence and acceleration properties for the vector ε-algorithm. (English summary) **93h:65006**
Mühlbach, G. *see* **Beckermann, Bernhard; et al., 93g:65011**
Muskat, Joseph B. Generalized Fibonacci and Lucas sequences and rootfinding methods. (English summary) **93k:65004**
Neuber, A. *see* **Beckermann, Bernhard; et al., 93g:65011**
Pérez Fernández, T. *see* **Piñar, Miguel A., 93k:65005**
Piñar, Miguel A. (*with* Pérez Fernández, T.) On higher order Padé-type approximants with some prescribed coefficients in the numerator. (English summary) **93k:65005**
Ptak, Marek (*with* Rutkowska, A.; Szczurek, J.) A note on inverses of power series. **93a:65005**
Rutkowska, A. *see* **Ptak, Marek; et al., 93a:65005**
Szczurek, J. *see* **Ptak, Marek; et al., 93a:65005**
Xu, Guo Liang (*with* Zhuang, Guo Zhong) Convergence acceleration of vector sequences by vector Padé approximation. (English summary) **93m:65007**
Zhuang, Guo Zhong *see* **Xu, Guo Liang, 93m:65007**

Items with secondary classifications in 65B99

Achuthan, P. (*with* Ponnuswamy, S.) Padé approximants and Eisenstein-Ramanujan continued fraction. (English summary) **93m:30006**
Averin, A. V. (*with* Voloshchenko, A. M.) A consistent P_1 synthetic acceleration method for outer iterations. (Russian. English summary) **93c:65121**
Basu, Sankar (*with* Fontaine, Fred L.) Formal power series representation of lossless distributed multiports in terms of Padé approximants. **93c:94012**
Bruin, H. Numerical determination of the continued fraction expansion of the rotation number. (English summary) **93m:58058**
Croft, Tony An application of convergence acceleration techniques to a class of two-point boundary value problems on a semi-infinite domain. (English summary) **93g:65097**
Fontaine, Fred L. *see* **Basu, Sankar, 93c:94012**
González-Vera, Pablo *see* **Orive Rodríguez, Ramón A., 93m:65020**
Lubich, Ch. Chebyshev acceleration of Picard-Lindelöf iteration. **93h:65092**
Orive Rodríguez, Ramón A. (*with* González-Vera, Pablo) On the convergence of bivariate two-point Padé-type approximants. (English summary) **93m:65020**
Ponnuswamy, S. *see* **Achuthan, P., 93m:30006**
Popov, B. A. Acceleration of computations with a choice of the form of approximations. (Russian) **93b:65023**
Voloshchenko, A. M. *see* **Averin, A. V., 93c:65121**

65Cxx Numerical simulation {For theoretical aspects, see 68U20.}

65C05 Monte Carlo methods

Adamov, A. A. Construction of an optimal density for simultaneous estimation of several functionals by the Monte Carlo method. (Russian) **93c:65008**
Bergen, James R. (*with* Shvaytser, Haim) A probabilistic algorithm for computing Hough transforms. **93e:65005**
Borovkov, K. A. On a new variant of the Monte Carlo method. (Russian) **93d:65006a**
— A stochastic search algorithm with an application to multidimensional integration. **93d:65006b**
Brostow, Witold (*with* Cook, Robert; Kubát, Josef) Molecular dynamics and Monte Carlo simulations of polymeric materials: chain relaxation dynamics. (*see* **93f:00014**)
Catoni, Olivier (*with* Trouvé, Alain) Parallel annealing by multiple trials: a mathematical study. **93j:65006**
— Rates of convergence for sequential annealing: a large deviation approach. **93k:65006**
Cook, Robert *see* **Brostow, Witold; et al., (93f:00014)**
Dimov, Ivan T. Minimization of the probable error for some Monte Carlo methods. (*see* **93a:65004**)
Dincă, Iuliana Monte Carlo methods for solving some eigenvalue problems. (French and Russian summaries) **93c:65009**
Forrest, B. M. *see* **Mehlig, B.; et al., 93d:65009**
Goutsias, John K. A theoretical analysis of Monte Carlo algorithms for the simulation of Gibbs random field images. **93e:65006**
Green, Peter J. (*with* Han, Xiao-liang) Metropolis methods, Gaussian proposals and antithetic variables. (English summary) (*see* **93e:62005**)
Halton, John H. Reject the rejection technique. (English summary) **93j:65008**
Han, Xiao-liang *see* **Green, Peter J., (93e:62005)**
Heermann, D. W. *see* **Mehlig, B.; et al., 93d:65009**
Heinrich, Stefan Lower bounds for the complexity of Monte Carlo function approximation. (English summary) **93h:65007**
— (*with* Mathé, Peter) The Monte Carlo complexity of Fredholm integral equations. **93d:65007**
Helland, K. (*with* Lii, Keh-Shin; Rosenblatt, Murray) Monte Carlo and turbulence. **93a:65006**
Janse van Rensburg, E. J. (*with* Torrie, G. M.) Estimation of multidimensional integrals: is Monte Carlo the best method? (English summary) **93m:65008**
Kargin, B. A. (*with* Rakimgulov, K. B.) A weighting Monte Carlo method for modelling the optical radiation field in the ocean-atmosphere system. **93c:65010**
Khisamutdinov, A. I. (*with* Shishmarëva, S. O.) Nonsimulation estimates in Monte Carlo methods. (Russian) **93b:65009**
Kubát, Josef *see* **Brostow, Witold; et al., (93f:00014)**
Lacroix, Jean Algorithmes pour la résolution de l'équation de conservation. [Algorithms for the solution of the conservation equation] (*see* **93k:65002**)
Lehtonen, Tapani (*with* Nyrhinen, Harri) Simulating level-crossing probabilities by importance sampling. (English summary) **93j:65009**
Lii, Keh-Shin *see* **Helland, K.; et al., 93a:65006**
Mathé, Peter Random approximation of Sobolev embeddings. **93d:65008**
— *see also* **Heinrich, Stefan, 93d:65007**
Mehlig, B. (*with* Heermann, D. W.; Forrest, B. M.) Exact Langevin algorithms. (English summary) **93d:65009**

Mikhailov, G. A. ★ Minimization of computational costs of nonanalogue Monte Carlo methods. **93c:65011**
Mitchell, Ricardo A. *see* **Peart, Paul B., 93k:65007**
Nyrhinen, Harri *see* **Lehtonen, Tapani, 93j:65009**
Ogawa, Shigeyoshi Monte Carlo simulation of nonlinear diffusion processes. **93e:65007**
Peart, Paul B. (*with* Mitchell, Ricardo A.) On computing the exact value of dispersion of a sequence. (English summary) **93k:65007**
Prigarin, S. M. Convergence of numerical models of random fields in Monte Carlo method. (English summary) **93j:65010**
Rakimgulov, K. B. *see* **Kargin, B. A., 93c:65010**
Rosenblatt, Murray *see* **Helland, K.; et al., 93a:65006**
Sakalauskas, L. L. On the convergence of a centering procedure. (Russian. English and Lithuanian summaries) **93b:65010**
Shishmarëva, S. O. *see* **Khisamutdinov, A. I., 93b:65009**
Shostak, A. V. *see* **Trubitsyn, N. F.**
Shvaytser, Haim *see* **Bergen, James R., 93e:65005**
Sun, Jia Yang Some practical aspects of exploratory projection pursuit. (English summary) **93m:65009**
Torrie, G. M. *see* **Janse van Rensburg, E. J., 93m:65008**
Trouvé, Alain Massive parallelization of simulated annealing: a mathematical study. **93j:65007**
— *see also* **Catoni, Olivier, 93j:65006**
Trubitsyn, N. F. (*with* Shostak, A. V.) Application of Holton sequences in the Monte Carlo method. (Russian. English and Ukrainian summaries)

Items with secondary classifications in 65C05

Antyufeev, V. S. Direct and inverse problems of the radiation transfer in a vegetative cover. **93c:78008**
Bernard, Pierre Quelques méthodes particulaires stochastiques. [Some stochastic particle methods] (*see* **93k:65002**)
Bertocchi, Maria (*with* Brandolini, L.; Słomiński, Leon; Sobczynska, J.) A Monte-Carlo approach for 0-1 programming problems. (English and German summaries) **93i:90066**
Bouleau, Nicolas On numerical integration by the shift and application to Wiener space. **93f:60096**
Bradley, R. Mark *see* **Buchalter, B. J., 93h:82033**
Brandolini, L. *see* **Bertocchi, Maria; et al., 93i:90066**
Buchalter, B. J. (*with* Bradley, R. Mark) Orientational order in random packings of ellipses. (English summary) **93h:82033**
Caracciolo, Sergio (*with* Pelissetto, Andrea; Sokal, Alan D.) Join-and-cut algorithm for self-avoiding walks with variable length and free endpoints. **93f:82031**
Catoni, Olivier Sharp large deviations estimates for simulated annealing algorithms. (French summary) **93c:60032**
Dietzfelbinger, Martin (*with* Meyer auf der Heide, Friedhelm) Dynamic hashing in real time. (English summary) **93j:68040**
van Dijk, Herman K. *see* **Hop, J. Peter, 93e:65157**
Doerschuk, Peter C. *see* **Gelfand, Saul B.; et al., (93m:00047)**
Fang, Kai Tai *see* **Wang, Yuan[1], (93d:00033)**
Faure, Henri Suggestions for quasi-Monte Carlo users. **93m:11074**
Fishman, George S. (*with* Rubin, David S.) Bounding the variance in Monte Carlo experiments. (English summary) **93f:90066**
Frigessi, Arnoldo (*with* Huang, Ch'i Jui; Younes, Laurent) Optimal spectral structure of reversible stochastic matrices, Monte Carlo methods and the simulation of Markov random fields. (English summary) **93e:60133**
Gelfand, Saul B. (*with* Doerschuk, Peter C.; Nahhas-Mohandes, Mohamed) Simulated annealing algorithms for continuous optimization. (English summary) (*see* **93m:00047**)
van Ginneken, L. P. P. P. *see* **Otten, R. H. J. M., 93h:90001**
Glynn, Peter W. (*with* Heidelberger, Philip) Analysis of initial transient deletion for parallel steady-state simulations. **93c:68110**
Goertzel, Ben Global optimization by multilevel search. (English summary)
Grabner, Peter J. (*with* Tichy, Robert F.) Spherical designs, discrepancy and numerical integration. **93d:11080**
Halton, John H. Random sequences in generalized Cantor sets. **93c:65013**
Heidelberger, Philip *see* **Glynn, Peter W., 93c:68110**
Hop, J. Peter (*with* van Dijk, Herman K.) SISAM and MIXIN: two algorithms for the computation of posterior moments and densities using Monte Carlo integration. (English summary) **93e:65157**
Hu, Chin Kun Histogram Monte Carlo renormalization group method for phase transition models without critical slowing down. (English summary) **93m:82020**
Huang, Ch'i Jui (*with* Sheu, Shuenn Jyi) Singular perturbed Markov chains and exact behaviors of simulated annealing processes. **93f:60101**
— *see also* **Frigessi, Arnoldo; et al., 93e:60133**
Khisamutdinov, A. I. (*with* Kobeleva, N. F.) "Nonsymmetric" interactions in Monte Carlo methods with continuous time and the approximation of the Boltzmann equation. (Russian. English and Russian summaries) **93g:82093**
Kleiss, Ronald Average-case complexity distributions: a generalization of the Woźniakowski lemma for multidimensional numerical integration. (English summary) **93d:65024**
Kobeleva, N. F. *see* **Khisamutdinov, A. I., 93g:82093**
Kushner, Harold J. (*with* Yang, Jichuan) A Monte Carlo method for sensitivity analysis and parametric optimization of nonlinear stochastic systems: the ergodic case. **93a:90049**
Lavine, Michael A note on bounding Monte Carlo variances. (English summary) **93j:62046**
Lazzaro, D. *see* **Puccio, L., 93c:65052**
(Lommatzsch, Klaus) *see* **Sobol', I. M., 93g:65005**
Mathé, Peter A minimax principle for the optimal error of Monte Carlo methods. (English summary) **93m:65193**
(Matthes, A.) *see* **Sobol', I. M., 93g:65005**
Meyer auf der Heide, Friedhelm *see* **Dietzfelbinger, Martin, 93j:68040**
Nahhas-Mohandes, Mohamed *see* **Gelfand, Saul B.; et al., (93m:00047)**
Niederreiter, Harald ★ Random number generation and quasi-Monte Carlo methods. **93h:65008**
Novak, Erich Optimal linear randomized methods for linear operators in Hilbert spaces. **93f:65048**
Otten, R. H. J. M. (*with* van Ginneken, L. P. P. P.) ★ The annealing algorithm. **93h:90001**
Pelissetto, Andrea *see* **Caracciolo, Sergio; et al., 93f:82031**
Prigarin, S. M. *see* **Voitishek, A. V., 93i:65013**
Puccio, L. (*with* Lazzaro, D.) Tikhonov regularization of ill-posed problems via cubic splines. (Italian. English summary) **93c:65052**
Rubin, David S. *see* **Fishman, George S., 93f:90066**
Sheu, Shuenn Jyi *see* **Huang, Ch'i Jui, 93f:60101**
Słomiński, Leon *see* **Bertocchi, Maria; et al., 93i:90066**
Sobczynska, J. *see* **Bertocchi, Maria; et al., 93i:90066**
Sobol', I. M. ★ Die Monte-Carlo-Methode. (German) [The Monte Carlo method] **93g:65005**
Sokal, Alan D. *see* **Caracciolo, Sergio; et al., 93f:82031**
Takev, Milko D. On probable error of the Monte Carlo method for numerical integration. (English summary) **93f:65025**
(Talay, Denis) *see* **Bernard, Pierre, (93k:65002)**
Tichy, Robert F. *see* **Grabner, Peter J., 93d:11080**
Trouvé, Alain Convergence optimale pour les algorithmes de recuits généralisés. (English and French summaries) [Optimal convergence rate for generalized simulated annealing] **93j:60032**
(Tubaro, L.) *see* **Bernard, Pierre, (93k:65002)**
Voitishek, A. V. (*with* Prigarin, S. M.) Functional convergence of estimates and models in the Monte Carlo method. (Russian. Russian summary) **93i:65013**
Wagner, Wolfgang[1] A convergence proof for Bird's direct simulation Monte Carlo method for the Boltzmann equation. **93f:82053**
Wang, Yuan[1] (*with* Fang, Kai Tai) Number-theoretic method in applied statistics. I, II. (English summary) (*see* **93d:00033**)
Weyrich, N. Bivariate spline approximation by penalized least squares. (*see* **93d:65022**)
Yang, Jichuan *see* **Kushner, Harold J., 93a:90049**
Younes, Laurent *see* **Frigessi, Arnoldo; et al., 93e:60133**

Items listed otherwise than by author

All-Union Conference:
Monte Carlo Methods in Numerical Mathematics and Mathematical Physics ★ VIII Всесоюзное Совещание "Методы Монте-Карло в Вычислительной Математике и Математической Физике". Часть 1. (Russian) [VIII All-Union Conference "Monte Carlo Methods in Numerical Mathematics and Mathematical Physics". Part 1] **93f:65003a**
— ★ VIII Всесоюзное Совещание "Методы Монте-Карло в Вычислительной Математике и Математической Физике". Часть 2. (Russian) [VIII All-Union Conference "Monte Carlo Methods in Numerical Mathematics and Mathematical Physics". Part 2] **93f:65003b**
Novosibirsk ★ VIII Всесоюзное Совещание "Методы Монте-Карло в Вычислительной Математике и Математической Физике". Часть 1. (Russian) [VIII All-Union Conference "Monte Carlo Methods in Numerical Mathematics and Mathematical Physics". Part 1] **93f:65003a**
— ★ VIII Всесоюзное Совещание "Методы Монте-Карло в Вычислительной Математике и Математической Физике". Часть 2. (Russian) [VIII All-Union Conference "Monte Carlo Methods in Numerical Mathematics and Mathematical Physics". Part 2] **93f:65003b**

65C10 Random number generation

Akopov, N. Z. (*with* Savvidi, G. K.; Ter-Arutyunyan-Savvidi, N. G.) Matrix generator of pseudorandom numbers. **93a:65007**
Alon, Noga (*with* Goldreich, Oded; Håstad, Johan; Peralta, René) Simple constructions of almost k-wise independent random variables. **93a:65008**
Aluru, Srinivas (*with* Prabhu, G. M.; Gustafson, John) A random number generator for parallel computers. (English summary) **93e:65008**
Bruno, G. A Bayesian analysis for generators of pseudorandom numbers. I. (Italian. Italian summary)
Burton, F. Warren (*with* Page, Rex L.) Distributed random number generation. (English summary) **93i:65009**
Chakrabarti, Amitabha *see* **Toral, Raúl, 93j:65012**
Chhikara, R. S. *see* **Deng, Lih-Yuan, 93e:65009**
Compagner, Aaldert The hierarchy of correlations in random binary sequences. **93c:65012**
— *see also* **Wang, Da Kai, 93e:65012**
De Matteis, A. (*with* Eichenauer-Herrmann, Jürgen; Grothe, H.) Computation of critical distances within multiplicative congruential pseudorandom number sequences. **93b:65011**
Deng, Lih-Yuan (*with* Chhikara, R. S.) Robustness of some nonuniform random variate generators. (English summary) **93e:65009**
Eichenauer-Herrmann, Jürgen Construction of inversive congruential pseudorandom number generators with maximal period length. **93d:65010**
— A remark on the discrepancy of quadratic congruential pseudorandom numbers. (English summary) **93i:65010**
— Statistical independence of a new class of inversive congruential pseudorandom numbers. **93d:65011**
— *see also* **De Matteis, A.; et al., 93b:65011**
Fushimi, Masanori *see* **Tezuka, Shu, 93h:65009**
Goldreich, Oded *see* **Alon, Noga; et al., 93a:65008**
Grothe, H. *see* **De Matteis, A.; et al., 93b:65011**
Gustafson, John *see* **Aluru, Srinivas; et al., 93e:65008**
Halton, John H. Random sequences in generalized Cantor sets. **93c:65013**
Håstad, Johan *see* **Alon, Noga; et al., 93a:65008**
Johnson, Bruce R. (*with* Leeming, David J.) A study of the digits of π, e and certain other irrational numbers. (English summary) **93e:65010**
Krawczyk, Hugo How to predict congruential generators. (English summary) **93g:65013**
Leeming, David J. *see* **Johnson, Bruce R., 93e:65010**

Levitan, Yu. L. *see* **Sobol', I. M.; et al.**
Li, Shi Peng *see* **Zhu, Jin Kang, 93f:65010**
Maurer, Ueli M. A universal statistical test for random bit generators. **93e:65011**
Mitchell, Douglas W. A nonlinear random number generator with known, long cycle length. (English summary)
Niederreiter, Harald ★ Random number generation and quasi-Monte Carlo methods. **93h:65008**
Page, Rex L. *see* **Burton, F. Warren, 93i:65009**
Peralta, René *see* **Alon, Noga; et al., 93a:65008**
Percus, Jerome K. *see* **Percus, Ora Engelberg, 93g:65014** *and* **93i:65011**
Percus, Ora Engelberg (*with* Percus, Jerome K.) An expanded set of correlation tests for linear congruential random number generators. (English summary) **93g:65014**
— (*with* Percus, Jerome K.) Intrinsic relations in the structure of linear congruential generators modulo 2^β. (English summary) **93i:65011**
Prabhu, G. M. *see* **Aluru, Srinivas; et al., 93e:65008**
Savvidi, G. K. *see* **Akopov, N. Z.; et al., 93a:65007**
Shukhman, B. V. *see* **Sobol', I. M.; et al.**
Sinclair, Alistair ★ Algorithms for random generation and counting. (English. English summary) **93j:65011**
Sobol', I. M. (*with* Turchaninov, V. I.; Levitan, Yu. L.; Shukhman, B. V.) ★ Quasirandom sequence generators. (English. English and Russian summaries)
Ter-Arutyunyan-Savvidi, N. G. *see* **Akopov, N. Z.; et al., 93a:65007**
Tezuka, Shu (*with* Fushimi, Masanori) Calculation of Fibonacci polynomials for GFSR sequences with low discrepancies. **93h:65009**
Toral, Raúl (*with* Chakrabarti, Amitabha) Generation of Gaussian distributed random numbers by using a numerical inversion method. (English summary) **93j:65012**
Turchaninov, V. I. *see* **Sobol', I. M.; et al.**
Wang, Da Kai (*with* Compagner, Aaldert) On the use of reducible polynomials as random number generators. **93e:65012**
Zhang, Shi Chao (*with* Zhou, Sheng Ming) A pseudo-random number generator.
Zhou, Sheng Ming *see* **Zhang, Shi Chao**
Zhu, Jin Kang (*with* Li, Shi Peng) p-ary GMW sequences. (Chinese. English summary) **93f:65010**

Items with secondary classifications in 65C10

Alon, Noga (*with* Goldreich, Oded; Håstad, Johan; Peralta, René) Simple constructions of almost k-wise independent random variables. **93k:94006a**
— (*with* Goldreich, Oded; Håstad, Johan; Peralta, René) Addendum to: "Simple constructions of almost k-wise independent random variables". **93k:94006b**
Antipov, M. V. ★ О математической случайности. (Russian. English and Russian summaries) [Mathematical randomness] **93e:00003**
— ★ Границы случайности. (Russian. English and Russian summaries) [Limits of randomness] **93e:00004**
Deng, Lih-Yuan (*with* George, E. Olusegun) Some characterizations of the uniform distribution with applications to random number generation. (English summary) **93j:62028**
Evangelou, S. N. A numerical study of sparse random matrices. (English summary) **93j:82034**
George, E. Olusegun *see* **Deng, Lih-Yuan, 93j:62028**
Goldreich, Oded *see* **Alon, Noga; et al., 93k:94006a** *and* **93k:94006b**
Håstad, Johan *see* **Alon, Noga; et al., 93k:94006a** *and* **93k:94006b**
Kolmogorov, A. N. Tables of random numbers. (Russian) **93b:01048**
Lawrance, A. J. Uniformly distributed first-order autoregressive time series models and multiplicative congruential random number generators. (English summary) **93h:62163**
Nisan, Noam ★ Using hard problems to create pseudorandom generators. **93c:68032**
Peralta, René *see* **Alon, Noga; et al., 93k:94006a** *and* **93k:94006b**
Randall, Dana J. Efficient generation of random nonsingular matrices. (English summary) **93i:68089**
Sprugnoli, Renzo The generation of binary trees as a numerical problem. **93d:68057**

65C20 Models, numerical methods

Alaya, M. Ben Sur la méthode du shift en simulation. [On the shift method in simulation] (*see* **93k:65002**)
Becker, Monique (*with* Douillet, Pierre L.) Une méthode hiérarchique, auto-régulée, de simulation d'événements extrêmement rares. (English and French summaries) [A hierarchical, self-regulated method for simulating very rare events] **93h:65010**
Billoire, A. Simulations Monte Carlo en physique théorique. (French summary) [Monte Carlo simulations in theoretical physics] (*see* **93k:65002**)
Bouleau, Nicolas Irregular and simulatable functionals on Wiener space. (English summary) (*see* **93k:65002**)
Bustos, Oscar H. (*with* Frery, Alejandro C.) ★ Simulação estocástica: teoria e algoritmos. (Portuguese) [Stochastic simulation: theory and algorithms] **93f:65011**
Chambers, Marcus J. A note on forecasting in co-integrated systems. (English summary)
Delaurens, F. (*with* Mustieles Moreno, Francisco-José) A deterministic particle method for solving kinetic transport equations: the semiconductor Boltzmann equation case. **93k:65008**
Douillet, Pierre L. *see* **Becker, Monique, 93h:65010**
Faure, O. *see* **Gaines, J., (93k:65002)**
Frery, Alejandro C. *see* **Bustos, Oscar H., 93f:65011**
Gaines, J. (*with* Faure, O.) Simulation trajectorielle des diffusions. (French summary) [Pathwise simulation of diffusions] (*see* **93k:65002**)
Jaulin, Luc (*with* Walter, Eric) Guaranteed nonlinear parameter estimation from bounded-error data via interval analysis. (English summary)
Langtangen, Hans Petter Stochastic breakthrough time analysis of an enhanced oil recovery process. (English summary)
Malinetskii, G. G. (*with* Shakaeva, M. S.) Analysis of a family of cellular automata that model oscillatory chemical reactions. (Russian. English summary) **93d:65012**
Mashnina, I. A. (*with* Starkov, A. V.) Exponential algorithms for simulation of neutron scattering. (English summary)
Mustieles Moreno, Francisco-José *see* **Delaurens, F., 93k:65008**
Ogawa, Shigeyoshi Simulation de processus de diffusion non linéaires. [Simulation of nonlinear diffusion processes] (*see* **93k:65002**)
Prigarin, S. M. ★ Спектральные модели векторных однородных полей. (Russian. English and Russian summaries) [Spectral models of vector homogeneous fields] **93i:65012**
— *see also* **Voitishek, A. V., 93i:65013**
Sabatier, Pierre C. Remark on the informative content of few measurements. (English summary) **93e:65013**
Sabel'fel'd, K. K. The walk-on-boundary algorithms for solving boundary value problems in multiply-connected domains. **93a:65009**
Schmeiser, Bruce Simulation experiments. (*see* **93a:60001**)
Schwetlick, H. Nonlinear parameter estimation: models, criteria and algorithms. **93f:65012**
Shakaeva, M. S. *see* **Malinetskii, G. G., 93d:65012**
Starkov, A. V. *see* **Mashnina, I. A.**
Talay, Denis Approximation et simulation de solutions d'EDS. [Approximation and simulation of solutions of SDE] (*see* **93k:65002**)
Tsai, Jyun-Hwei *see* **Wu, Chwan-Hwa, (93g:65178)**
Tyson, John J. *see* **Weimar, Jörg R.; et al., (93g:65178)**
Voitishek, A. V. (*with* Prigarin, S. M.) Functional convergence of estimates and models in the Monte Carlo method. (Russian. Russian summary) **93i:65013**
Walter, Eric *see* **Jaulin, Luc**
Watson, Layne T. *see* **Weimar, Jörg R.; et al., (93g:65178)**
Weimar, Jörg R. (*with* Tyson, John J.; Watson, Layne T.) Third generation cellular automaton for modeling excitable media. (English summary) (*see* **93g:65178**)
Westerdale, T. H. Quasimorphisms or queasymorphisms? Modeling finite automaton environments. **93d:65013**
Wu, Chwan-Hwa (*with* Tsai, Jyun-Hwei) An asynchronous relaxation method for the parallel simulation of the learning of recurrent neural networks. (English summary) (*see* **93g:65178**)
Zhu, Hong Computer simulation of stochastic systems and a study of the conditions for the theorem. (Chinese. English and Chinese summaries)
Zuckerman, David Simulating BPP using a general weak random source. (English summary) (*see* **93d:68005**)

Items with secondary classifications in 65C20

Adams, Ernst Wilhelm Gear drive vibrations and verified periodic solutions. (English summary) (*see* **93e:00022**)
(Andreev, Andrei St.) *see* **Mathematical modelling and scientific computations, 93a:65004**
Bakan, G. M. (*with* Kussul', N. N.) Nonstochastic identification of parameters of a linear static object under unknown noise intensity. (Russian. Russian summary) **93k:93113**
(Bouleau, Nicolas) *see* **Numerical probability, 93k:65002**
Bratvedt, Frode (*with* Bratvedt, Kyrre; Buchholz, Christian F.; et al.) Front tracking for petroleum reservoirs. (English summary) **93h:76071**
Bratvedt, Kyrre *see* **Bratvedt, Frode; et al., 93h:76071**
Buchholz, Christian F. *see* **Bratvedt, Frode; et al., 93h:76071**
Bun', R. A. (*with* Vasil'ev, E. D.; Semotyuk, V. N.) ★ Моделирование электрических цепей методом подсхем. (Russian. Russian summary) [Modeling electrical circuits by the subscheme method] **93m:94050**
Calvetti, Daniela Roundoff error for floating point representation of real data. **93d:62031**
Conley, William Cleland Simulation applied to a three hundred degree polynomial. (English summary) **93k:93007**
(Dimov, Ivan T.) *see* **Mathematical modelling and scientific computations, 93a:65004**
Earn, David J. D. (*with* Tremaine, Scott) Exact numerical studies of Hamiltonian maps: iterating without roundoff error. **93c:58068**
Fairweather, Graeme (*with* López Marcos, J. C.) A box method for a nonlinear equation of population dynamics. **93c:92006**
Fogelson, Aaron L. Continuum models of platelet aggregation: formulation and mechanical properties. **93e:92005**
Gardiner, John Richard *see* **Silverberg, Larry**
Greenblatt, David Computing the combined effect of wake-passing and free-stream turbulence on gas turbine blade boundary layers. (English summary) **93h:80002**
Ito, Nobuyasu (*with* Kikuchi, Macoto; Okabe, Yutaka) Recycle of random sequences. (English summary)
Kampowsky, Wilfried (*with* Rentrop, Peter; Schmidt, Walter) Classification and numerical simulation of electric circuits. (English summary) **93h:94038**
Kikuchi, Macoto *see* **Ito, Nobuyasu; et al.**
Kussul', N. N. *see* **Bakan, G. M., 93k:93113**
Li, Ker-Chau Uncertainty analysis for mathematical models with SIR. (English summary) (*see* **93b:60004**)
López Marcos, J. C. *see* **Fairweather, Graeme, 93c:92006**
(Markov, Svetoslav M.) *see* **Mathematical modelling and scientific computations, 93a:65004**
Okabe, Yutaka *see* **Ito, Nobuyasu; et al.**
Peskin, Charles S. *see* **Tu, Cheng, 93g:76097**
Rentrop, Peter *see* **Kampowsky, Wilfried; et al., 93h:94038**
(Riganti, R.) *see* **Collected papers on stochastic systems modelling, 93f:65004**
Rychlik, Igor Confidence bands for linear regressions. **93h:62062**
Schmidt, Walter *see* **Kampowsky, Wilfried; et al., 93h:94038**
Semotyuk, V. N. *see* **Bun', R. A.; et al., 93m:94050**
Silverberg, Larry (*with* Gardiner, John Richard) Simulation of the mechanics of water-skier motion. (English summary)
Sjogren, Jon A. Closed-form solution of decomposable stochastic models. **93f:68018**
Sultangazin, U. M. *see* **Zakarin, È. A., (93b:65007)**
(Talay, Denis) *see* **Numerical probability, 93k:65002**
Tremaine, Scott *see* **Earn, David J. D., 93c:58068**
Tu, Cheng (*with* Peskin, Charles S.) Stability and instability in the computation of flows with moving immersed boundaries: a comparison of three methods. (English summary) **93g:76097**
(Ullrich, Ch.) *see* **Mathematical modelling and scientific computations, 93a:65004**
Vasil'ev, E. D. *see* **Bun', R. A.; et al., 93m:94050**

Zakarin, È. A. (*with* Sultangazin, U. M.) Mathematical modelling of urban air pollution. (*see* **93b:65007**)

Items listed otherwise than by author

Albena ★ Mathematical modelling and scientific computations. **93a:65004**
Collected papers on stochastic systems modelling ★ Collected papers on stochastic systems modelling. **93f:65004**
Mathematical modelling and scientific computations ★ Mathematical modelling and scientific computations. **93a:65004**
Numerical probability ★ Probabilités numériques. (French) [Numerical probability] **93k:65002**
Probabilités numériques ★ Probabilités numériques. (French) [Numerical probability] **93k:65002**
School:
Mathematical Modelling and Scientific Computations ★ Mathematical modelling and scientific computations. **93a:65004**

65C99 None of the above, but in this section

Anderson, Christopher R. An implementation of the fast multipole method without multipoles. **93b:65012**
Arsenin, V. Ya. (*with* Kryanev, A. V.) Generalized maximum likelihood method and its application for solving ill-posed problems. (English summary) (*see* **93m:00041**)
Klein, Rolf (*with* Mehlhorn, Kurt; Meiser, Stefan) Randomized incremental construction of abstract Voronoĭ diagrams. (English summary) **93f:65013**
Kolář, Miroslav (*with* O'Shea, Seamus F.) Fast, portable, and reliable algorithm for the calculation of Halton numbers. (English summary)
Kryanev, A. V. *see* **Arsenin, V. Ya.**, (**93m:00041**)
Mehlhorn, Kurt *see* **Klein, Rolf; et al.**, **93f:65013**
Meiser, Stefan *see* **Klein, Rolf; et al.**, **93f:65013**
O'Shea, Seamus F. *see* **Kolář, Miroslav**
Westcott, Mark A statistical view of some aspects of inverse problems. (English summary) (*see* **93i:00020**)

Items with secondary classifications in 65C99

Bokowski, Jürgen (*with* Richter-Gebert, Jürgen; Schindler, Werner) On the distribution of order types. **93b:05031**
Huestis, Stephen P. The Backus-Gilbert problem for sampled band-limited functions. (English summary) **93k:86001**
Richter-Gebert, Jürgen *see* **Bokowski, Jürgen; et al.**, **93b:05031**
Schindler, Werner *see* **Bokowski, Jürgen; et al.**, **93b:05031**

65Dxx Numerical approximation {Primarily algorithms; for theory, see 41–XX.}

Items with secondary classifications in 65Dxx

Badriev, I. B. (*with* Voloshanovskaya, S. N.) ★ Численные методы. (Russian) [Numerical methods] **93m:65001**
Farin, Gerald ★ Curves and surfaces for computer aided geometric design. (English. English summary) **93k:65016**
(Kansa, Edward J.) *see* **Advances in the theory and applications of radial basis functions**, **93g:65008**
Kijima, Masaaki *see* **Sumita, Ushio**, **93b:65203**
Sumita, Ushio (*with* Kijima, Masaaki) Theory and algorithms of the Laguerre transform. II. Algorithm. **93b:65203**
Voloshanovskaya, S. N. *see* **Badriev, I. B.**, **93m:65001**

Items listed otherwise than by author

Advances in the theory and applications of radial basis functions ★ Advances in the theory and applications of radial basis functions. **93g:65008**
Special Issue:
Advances in the theory and applications of radial basis functions ★ Advances in the theory and applications of radial basis functions. **93g:65008**

65D05 Interpolation

Barnhill, Robert E. (*with* Foley, Thomas A.; Lane, David A.) Interpolating scattered multivariate data as a function of time. (English summary) **93i:65014**
Bar-On, Ilan (*with* Sidi, Avram) New algorithms for polynomial and trigonometric interpolation on parallel computers. (English summary) **93e:65014**
Baxter, B. J. C. Conditionally positive functions and p-norm distance matrices. **93a:65010**
— Norm estimates for inverses of distance matrices. (*see* **93d:65022**)
Beatson, R. K. (*with* Powell, M. J. D.) Univariate interpolation on a regular finite grid by a multiquadric plus a linear polynomial. **93e:65015**
Beckermann, Bernhard (*with* Carstensen, Carsten) A reliable modification of the cross rule for rational Hermite interpolation. (English summary) **93k:65009**
Behforooz, G. The not-a-knot piecewise interpolatory cubic polynomial. (English summary) **93g:65015**
Bernardi, Christine (*with* Maday, Yvon) Polynomial interpolation results in Sobolev spaces. (English summary) **93k:65010**
de Boor, Carl On the error in multivariate polynomial interpolation. (English summary) **93j:65013**
Boyd, John Philip A fast algorithm for Chebyshev, Fourier, and sinc interpolation onto an irregular grid. (English summary) **93j:65014**
Bultheel, Adhemar *see* **Van Barel, Marc**, **93g:65017**
Carnicer, Jésus Miguel (*with* Dahmen, Wolfgang) Convexity preserving interpolation and Powell-Sabin elements. (English summary) **93g:65016**
Carstensen, Carsten *see* **Beckermann, Bernhard**, **93k:65009**
Chang, Qian Shun (*with* Wong, Yau Shu; Li, Zheng Feng) New interpolation formulas of using geometric assumptions in the algebraic multigrid method. **93d:65014**
Chen, Guan Rong Optimal interpolation of scattered data on a circular domain with boundary conditions. (English summary) **93i:65015**
— *see also* **Koç, Çetin Kaya**, **93k:65011**
Chui, Charles K. (*with* Ward, Joseph D.; Jetter, K.) Cardinal interpolation with differences of tempered functions. (English summary) **93i:65016**
Clements, John C. A convexity-preserving C^2 parametric rational cubic interpolation. (English summary) **93h:65011**
Cuyt, Annie Extension of: "A multivariate convergence theorem of the 'de Montessus de Ballore' type" to multipoles [J. Comput. Appl. Math. **32** (1990), no. 1-2, 47–57; MR 92b:65015]. (English summary) **93h:65012**
Dahmen, Wolfgang *see* **Carnicer, Jésus Miguel**, **93g:65016**
Dedieu, Jean-Pierre On the convergence problem in interpolation theory: pointwise and uniform convergence to continuous or discontinuous functions. **93c:65014**
Delbourgo, Roger Accurate C^2 rational interpolants in tension. (English summary) **93m:65010**
Deslauriers, Gilles (*with* Dubuc, Serge) Continuous iterative interpolation processes. (English summary) **93i:65017**
Dubuc, Serge *see* **Deslauriers, Gilles**, **93i:65017**
Eck, Matthias MQ-curves are curves in tension. (*see* **93d:65022**)
Erber, T. *see* **Gavelek, D.**, **93d:65015**
Favati, P. (*with* Lotti, Grazia; Romani, Francesco) Asymptotic expansion of error in interpolatory quadrature. (English summary) **93e:65016**
Foley, Thomas A. (*with* Opitz, Karsten) Hybrid cubic Bézier triangle patches. (*see* **93d:65022**)
— *see also* **Barnhill, Robert E.; et al.**, **93i:65014**
Gasca, Mariano (*with* Martínez, José J.) Bivariate Hermite-Birkhoff interpolation and Vandermonde determinants. (English summary) **93h:65013**
— *see also* **Mühlbach, G.**, **93a:65011**
Gavelek, D. (*with* Erber, T.) Shadowing and iterative interpolation for Čebyšev mixing transformations. **93d:65015**
Hallatschek, Klaus Fouriertransformation auf dünnen Gittern mit hierarchischen Basen. (English and German summaries) [Fourier transform on sparse grids with hierarchical bases] **93f:65014**
Inoue, Hidehiko (*with* Shibata, Yukio; Miyazaki, Haruo) Generation of interpolation curves with the least energy using dynamic programming. (English summary) **93h:65014**
Ismail, M. K. Monotonicity preserving interpolation using C^2 rational cubic Bézier curves. (*see* **93d:65022**)
Jeeawock-Zedek, Fatma Interpolation de Lagrange par des splines quadratiques sur un quadrilatère de $\mathbf{R}^2$. (English and French summaries) [Lagrange interpolation by quadratic splines on a quadrilateral domain in $\mathbf{R}^2$] **93f:65015**
Jetter, K. *see* **Chui, Charles K.; et al.**, **93i:65016**
Koç, Çetin Kaya (*with* Chen, Guan Rong) A fast algorithm for scalar Nevanlinna-Pick interpolation. (English summary) **93k:65011**
Koch, Per Erik Minimization of interpolating spline curves with bounded derivatives. (*see* **93d:65022**)
Kozak, Jernej (*with* Lokar, Matija) On piecewise quadratic G^2 approximation and interpolation. (*see* **93d:65022**)
Landowne, Elliott *see* **Pan, Victor; et al.**, **93m:65011**
Lane, David A. *see* **Barnhill, Robert E.; et al.**, **93i:65014**
Lee, E. T. Y. On a class of data parametrizations: variations on a theme of Epstein. II. (*see* **93d:65022**)
Li, Zheng Feng *see* **Chang, Qian Shun; et al.**, **93d:65014**
Lokar, Matija *see* **Kozak, Jernej**, (**93d:65022**)
Lotti, Grazia *see* **Favati, P.; et al.**, **93e:65016**
Maday, Yvon *see* **Bernardi, Christine**, **93k:65010**
Madych, Wally R. Miscellaneous error bounds for multiquadric and related interpolators. (English summary) **93i:65018**
Martínez, José J. *see* **Gasca, Mariano**, **93h:65013**
Miyazaki, Haruo *see* **Inoue, Hidehiko; et al.**, **93h:65014**
Morandi, R. A blending function method with interior constraints. (English and German summaries) **93e:65017**
Mu, Yu Jie (*with* Xin, Quan Long) The Bernstein-Bézier representation of Lagrange interpolating segments and patches. (Chinese. English and Chinese summaries) **93i:65019**
Mühlbach, G. (*with* Gasca, Mariano) Multivariate polynomial interpolation under projectivities. I. Lagrange and Newton interpolation formulas. **93a:65011**
Opitz, Karsten *see* **Foley, Thomas A.**, (**93d:65022**)
Pan, Victor (*with* Sadikou, Akimou; Landowne, Elliott; Tiga, Olen) A new approach to fast polynomial interpolation and multipoint evaluation. (English summary) **93m:65011**
Pottmann, Helmut Interpolation on surfaces using minimum norm networks. **93a:65012**
Powell, M. J. D. *see* **Beatson, R. K.**, **93e:65015**
Romani, Francesco *see* **Favati, P.; et al.**, **93e:65016**
Sadikou, Akimou *see* **Pan, Victor; et al.**, **93m:65011**
Sakurai, Tetsuya (*with* Sugiura, Hiroshi; Torii, Tatsuo) Numerical factorization of a polynomial by rational Hermite interpolation. (English summary) **93h:65015**
Šalkauskas, K. Moving least squares interpolation with thin-plate splines and radial basis functions. (English summary) **93i:65020**
Sarfraz, Muhammad Convexity preserving piecewise rational interpolation for planar curves. **93j:65015**
Schaback, Robert Geometrical differentiation and high-accuracy curve interpolation. **93b:65013**
— *see also* **Wu, Zong Min**, **93m:65012**
Shi, Xi Quan² (*with* Wang, Tian Jun) A quintic interpolant on an arbitrary triangular mesh. (Chinese. English summary) **93i:65021**
Shibata, Yukio *see* **Inoue, Hidehiko; et al.**, **93h:65014**
Shumilov, B. M. Smooth interpolation of surfaces by parametric splines of the second degree on an irregular triangular grid. (Russian) **93b:65014**
Sidi, Avram *see* **Bar-On, Ilan**, **93e:65014**
Sugiura, Hiroshi *see* **Sakurai, Tetsuya; et al.**, **93h:65015**

Szabados, J. (*with* Vértesi, Péter) A survey on mean convergence of interpolatory processes. (English summary) **93j:65016**
Tiga, Olen *see* **Pan, Victor; et al., 93m:65011**
Torii, Tatsuo *see* **Sakurai, Tetsuya; et al., 93h:65015**
Van Barel, Marc (*with* Bultheel, Adhemar) A new formal approach to the rational interpolation problem. **93g:65017**
Vértesi, Péter *see* **Szabados, J., 93j:65016**
Wang, Ren Hong Smooth curve and surface interpolation. (*see* **93b:00022**)
Wang, Tian Jun *see* **Shi, Xi Quan[2], 93i:65021**
Ward, Joseph D. *see* **Chui, Charles K.; et al., 93i:65016**
Wong, Yau Shu *see* **Chang, Qian Shun; et al., 93d:65014**
Wu, Zong Min (*with* Schaback, Robert) Local error estimates for radial basis function interpolation of scattered data. (English summary) **93m:65012**
Xin, Quan Long *see* **Mu, Yu Jie, 93i:65019**
Zhan, Yin Wei A C^u spline blending interpolation scheme. (English summary) (*see* **93d:65004**)

Items with secondary classifications in 65D05

Agarwal, Ravi Prakash *see* **Wong, Patricia J. Y., 93i:41001**
Akopyan, A. A. (*with* Gevorgyan, O. V.; Saakyan, A. A.) Two-dimensional polynomial interpolation. (Russian. Russian summary) **93k:41003**
Barnhill, Robert E. (*with* Opitz, Karsten; Pottmann, Helmut) Fat surfaces: a trivariate approach to triangle-based interpolation on surfaces. (English summary) **93j:65024**
Bulychev, Yu. G. Methods for the numerical-analytic integration of differential equations. (Russian) **93b:65120**
Chirikalov, V. A. Calculation of a differentiating matrix for Hermite interpolation polynomials. (Russian) **93b:65037**
Chui, Charles K. (*with* Shi, Xian Liang) Wavelets and multiscale interpolation. **93e:42043**
Criscuolo, Giuliana (*with* Mastroianni, Giuseppe; Occorsio, Donatella) Uniform convergence of derivatives of extended Lagrange interpolation. **93b:41009**
— (*with* Mastroianni, Giuseppe; Vértesi, Péter) Pointwise simultaneous convergence of extended Lagrange interpolation with additional knots. **93a:41003**
DeRose, Tony (*with* Mann, Stephen) An approximately G^1 cubic surface interpolant. (*see* **93d:65022**)
Edwards, John A. Exact equations of the nonlinear spline. **93c:41018**
de Faget de Casteljau, Paul POLynomials, POLar forms, and interPOLation. (*see* **93d:65022**)
Fang, Kui C^1 polynomial interpolation over an arbitrary triangle. **93f:41005**
Frischmuth, K. *see* **Maess, G., 93b:65017**
Gautschi, Walter On mean convergence of extended Lagrange interpolation. (English summary) **93j:41003**
Gevorgyan, O. V. *see* **Akopyan, A. A.; et al., 93k:41003**
Golovach, G. P. Some more general estimates for the remainder term of the Lagrange interpolation formula. (Russian) **93d:41002**
Gopengauz, I. E. A pointwise error estimate for interpolation with multiple nodes at endpoints of an interval. (Russian) **93f:41006**
Grell, Georg A. *see* **Smolarkiewicz, Piotr K., 93e:76061**
Herzog, Gerd On universal functions and interpolation. **93c:41002**
Howell, Gary W. Derivative error bounds for Lagrange interpolation: an extension of Cauchy's bound for the error of Lagrange interpolation. **93b:41003**
Jones, Alan K. Topological considerations in the interpolation of contour curves. (*see* **93c:65026**)
Khlobystov, V. V. *see* **Makarov, Vladimir Leonidovich, 93a:41004**
Kobza, Jiří Quadratic splines smoothing the first derivatives. (Czech summary) **93b:41015**
Ladygin, V. S. A high-speed algorithm for spline calculation. (Russian) **93b:76069**
Lahtinen, Aatos On the choice of parameters in shape-preserving quadratic spline interpolation. **93c:41030**
Li, Luo Qing *see* **Liang, Xue Zhang, 93f:41007**
Liang, Xue Zhang (*with* Li, Luo Qing) On bivariate osculatory interpolation. **93f:41007**
Lin, Qun (*with* Yang, Yi Du) Interpolation and correction of finite element methods. (Chinese) **93a:65155**
Lisovik, L. P. Problems of the interpolation of entire functions by an infinite set of nodes. (Russian) **93f:41008**
Litvin, O. N. Polynomial interflatation of functions of three variables on M ($M \geq 3$) intersecting planes without preserving the class $C^r(\mathbf{R}^3)$. (Russian. English summary) **93c:41004**
Lou, Yuan Ren On the overconvergence of Hermite interpolating polynomials. **93e:30079**
Lu, Hao Some complexity problems for computations with polynomials. (Chinese. English summary) **93e:65162**
Lubinsky, D. S. (*with* Rabinowitz, Philip) Hermite and Hermite-Fejér interpolation and associated product integration rules on the real line: the L_1 theory. (English summary) **93j:41005**
Maess, G. (*with* Frischmuth, K.) Parametric quadratic splines with minimal curvature. **93b:65017**
Makarov, Vladimir Leonidovich (*with* Khlobystov, V. V.) Polynomial interpolation of nonlinear functionals. (Russian) **93a:41004**
Mann, Stephen *see* **DeRose, Tony, (93d:65022)**
Mastroianni, Giuseppe Uniform convergence of derivatives of Lagrange interpolation. (English summary) **93j:41006**
— *see also* **Criscuolo, Giuliana; et al., 93a:41003** *and* **93b:41009**
Merrien, J.-L. A family of Hermite interpolants by bisection algorithms. **93b:41005**
Merriman, Barry Particle approximation. **93e:76059**
Min, Guo Hua Generalized Nevai interpolation operators. (English summary) **93m:41005**
— On weighted L^p-convergence of certain Lagrange interpolation. **93b:41006**
Nepomnyashchikh, S. V. Mesh theorems on traces, normalizations of function traces and their inversion. **93h:65148**
Occorsio, Donatella *see* **Criscuolo, Giuliana; et al., 93b:41009**
Ong, B. H. (*with* Unsworth, K.) On nonparametric constrained interpolation. (*see* **93d:65022**)
Opitz, Karsten *see* **Barnhill, Robert E.; et al., 93j:65024**
Peters, Jörg (*with* Sitharam, Meera) Stability of interpolation from C^1 cubics at the vertices of an underlying triangulation. **93a:41061**
Pottmann, Helmut *see* **Barnhill, Robert E.; et al., 93j:65024**
Rabinowitz, Philip *see* **Lubinsky, D. S., 93j:41005**
Rabut, Christophe Some tools for quasi-interpolation on cardinal grids. **93e:41003**
Saakyan, A. A. *see* **Akopyan, A. A.; et al., 93k:41003**
Sarma, P. A. Families of third, fourth & fifth order extended Nyström methods for $Y''' = f(x, y)$.
Saxena, Anjula *see* **Varma, A. K.; et al., 93e:41014**
Saxena, R. B. *see* **Varma, A. K.; et al., 93e:41014**
Schaback, Robert Rational geometric curve interpolation. (*see* **93d:65022**)
Shi, Hu Li (*with* Yan, Yi Hua) Extended interpolation method and its applications in piecewise approximations. (English summary) (*see* **93j:00007**)
Shi, Xian Liang *see* **Chui, Charles K., 93e:42043**
Simeunović, D. M. Note on the location of zeros of a polynomial. **93g:65067**
Sitharam, Meera *see* **Peters, Jörg, 93a:41061**
Smolarkiewicz, Piotr K. (*with* Grell, Georg A.) A class of monotone interpolation schemes. **93e:76061**
Sugiura, Hiroshi (*with* Torii, Tatsuo) Polynomial interpolation on quasi-equidistributed nodes on the unit disk.
Torii, Tatsuo *see* **Sugiura, Hiroshi**
Uluchev, Rumen Smoothest interpolation with free nodes in W_p^r. **93a:41006**
Unsworth, K. *see* **Ong, B. H., (93d:65022)**
Varma, A. K. (*with* Saxena, Anjula; Saxena, R. B.) Lacunary interpolation modified (0, 1, 4) case. **93e:41014**
Vértesi, Péter *see* **Criscuolo, Giuliana; et al., 93a:41003**
Wang, Shao Ming Spline interpolations over type-2 triangulations. **93a:65015**
Wong, Patricia J. Y. (*with* Agarwal, Ravi Prakash) A new representation for the error function for the Hermite interpolation and sharper pointwise and uniform error bounds for the derivatives. **93i:41001**
Xie, Ting Fan (*with* Zhou, Song Ping) The divergence phenomena of interpolation type operators in L^p space. **93h:41007**
Yan, Yi Hua *see* **Shi, Hu Li, (93j:00007)**
Yang, Yi Du *see* **Lin, Qun, 93a:65155**
Zeifang, Rainer Interpolation with g-splines. **93e:41008**
Zhou, Song Ping *see* **Xie, Ting Fan, 93h:41007**

65D07 Splines

Arge, Erlend (*with* Dæhlen, Morten; Tveito, Aslak) Box spline interpolation; a computational study. (English summary) **93m:65013**
Asmuss, S. Sharp error estimates for approximation by two-dimensional splines. (Russian. English and Russian summaries) **93j:65017**
— An operator method based on the transformation of stepwise representations by means of splines for local mean values. (Russian. English and Russian summaries) **93j:65018**
Barry, Phillip J. (*with* Zhu, Rui Feng) Another knot insertion algorithm for B-spline curves. (English summary) **93e:65018**
Bartels, Richard H. *see* **Vermeulen, A. H.; et al., 93b:65018**
Beatson, R. K. (*with* Chacko, E.) Which cubic spline should one use? **93c:65015**
Bezhaev, A. Yu. Methods of the variational theory of splines. (Russian) (*see* **93i:65007**)
Bos, L. P. (*with* Šalkauskas, K.) Weighted splines based on piecewise polynomial weight functions. (*see* **93g:65027**)
— *see also* **Šalkauskas, K., 93g:65020**
Chacko, E. *see* **Beatson, R. K., 93c:65015**
Dæhlen, Morten (*with* Lyche, Tom) Decomposition of splines. **93e:65019**
— *see also* **Arge, Erlend; et al., 93m:65013**
De Tisi, Flavia (*with* Rossini, Milvia) Behavior of the beta-splines with values of the parameters beta2 negative. (English summary) **93i:65022**
Duan, Qi (*with* Li, Shai He) An error estimate for a class of bivariate splines. (Chinese. Chinese summary)
Filimonenkov, D. O. Error estimates for some piecewise-polynomial approximations in the plane. (Russian. Russian summary) **93i:65023**
Floater, Michael S. Evaluation and properties of the derivative of a NURBS curve. (*see* **93d:65022**)
Frischmuth, K. *see* **Maess, G., 93b:65017**
Fuhr, Richard D. (*with* Kallay, Michael) Monotone linear rational spline interpolation. (English summary) **93g:65018**
Gao, Jun Bin A new finite element of C^1 cubic splines. **93c:65016**
Gasca, Mariano (*with* Micchelli, Charles A.; Peña, Juan Manuel) Almost strictly totally positive matrices. **93b:65015**
Gautschi, Walter Spline approximation and quadrature formulae. **93h:65016**
Goodman, T. N. T. Two ways to construct a smooth piecewise rational curve. (English summary) **93h:65017**
Hagen, Hans *see* **Lasser, Dieter, (93g:65027)**
Han, Wei Min *see* **Jou, Emery, (93g:65027)**
Heppler, G. R. *see* **Vermeulen, A. H.; et al., 93b:65018**
Hoschek, Josef (*with* Schneider, Franz-Josef) Approximate spline conversion for integral and rational Bézier and B-spline surfaces. (*see* **93b:65035**)
— (*with* Seemann, G.) Spherical splines. (French summary) **93a:65013**
Hřebíček, Jiří (*with* Mikulík, Miloslav) Shape preserving splines. (*see* **93b:65007**)
Hu, Ri Zhang A new method of constructing natural interpolation splines. (Chinese. English and Chinese summaries) **93e:65020**
Jiang, Yu Ming Random bisection of uniform B-spline curve segments and surface patches. (Chinese. English and Chinese summaries) **93g:65019**
Jou, Emery (*with* Han, Wei Min) Minimal-energy splines with various end constraints. (*see* **93g:65027**)
Kallay, Michael *see* **Fuhr, Richard D., 93g:65018**
Kirrmann, Georg A short proof of an algorithm by Boehm. **93a:65014**
Kulkarni, Rekha (*with* Laurent, Pierre-Jean; Mazure, Marie-Laurence) Nonaffine blossoms and subdivision for Q-splines. (*see* **93d:65022**)

Lasser, Dieter (*with* Hagen, Hans) Interval weighted tau-splines. (*see* **93g:65027**)
Laurent, Pierre-Jean *see* **Kulkarni, Rekha; et al.**, (93d:65022)
Lee, C. K. *see* **Tan, S. T.**, 93c:65017
Lempel, Abraham (*with* Seroussi, Gadiel) Systematic derivation of spline bases. (English summary) **93j:65019**
Li, Shai He *see* **Duan, Qi**
Loach, P. D. (*with* Wathen, A. J.) On the best least squares approximation of continuous functions using linear splines with free knots. **93b:65016**
Luo, En *see* **Yang, Yong**, 93b:65020
Luscher, Norbert Calculations of curvature continuous cubic splines. (English summary) **93i:65024**
Lyche, Tom *see* **Dæhlen, Morten**, 93e:65019
Maess, G. (*with* Frischmuth, K.) Parametric quadratic splines with minimal curvature. **93b:65017**
Mazure, Marie-Laurence *see* **Kulkarni, Rekha; et al.**, (93d:65022)
(Meier, Jörg) *see* **Späth, Helmuth**, 93k:65013
Micchelli, Charles A. *see* **Gasca, Mariano; et al.**, 93b:65015
Mikulík, Miloslav *see* **Hřebíček, Jiří**, (93b:65007)
Molodenkova, I. D. Rational splines. (Russian) (*see* **93b:00016**)
Neuser, David A. Curve and surface interpolation using quintic weighted tau-splines. (*see* **93g:65027**)
Peña, Juan Manuel *see* **Gasca, Mariano; et al.**, 93b:65015
Phillips, G. M. (*with* Taylor, Peter John[1]) Algorithms for spline and other approximations to functions and data. (English summary) **93k:65012**
Qamar, Ihtzaz Method to determine optimum number of knots for cubic splines. (English summary)
Rippa, Samuel Adaptive approximation by piecewise linear polynomials on triangulations of subsets of scattered data. (English summary) **93d:65016**
Rossini, Milvia *see* **De Tisi, Flavia**, 93i:65022
Šalkauskas, K. (*with* Bos, L. P.) Weighted splines as optimal interpolants. (English summary) **93g:65020**
— *see also* **Bos, L. P.**, (93g:65027)
Schmidt, Jochen W. Positive, monotone, and S-convex C^1-interpolation on rectangular grids. (English and German summaries) **93f:65016**
Schneider, Franz-Josef *see* **Hoschek, Josef**, (93b:65035)
Seemann, G. *see* **Hoschek, Josef**, 93a:65013
Seroussi, Gadiel *see* **Lempel, Abraham**, 93j:65019
Späth, Helmuth ★ Eindimensionale Spline-Interpolations-Algorithmen. (German. German summary) [One-dimensional spline interpolation algorithms] **93k:65013**
Tan, Jie Qing Interpolating multivariate rational splines of special forms. (English and Chinese summaries) **93m:65014**
Tan, S. T. (*with* Lee, C. K.) Inversed rational B-spline for interpolation. **93c:65017**
Taylor, Peter John[1] *see* **Phillips, G. M.**, 93k:65012
Tveito, Aslak *see* **Arge, Erlend; et al.**, 93m:65013
Verlan, I. I. On a class of nonlocal generalized splines. (Russian. English, Russian and Moldavian summaries) **93f:65017**
Vermeulen, A. H. (*with* Bartels, Richard H.; Heppler, G. R.) Integrating products of B-splines. **93b:65018**
Voskoboĭnikov, Yu. E. Descriptive smoothing splines and algorithms for their construction. (Russian. Russian summary) **93j:65020**
Wang, Guo Jin Generating NURBS curves by envelopes. (English and German summaries) **93g:65021**
Wang, Shao Ming Spline interpolations over type-2 triangulations. **93a:65015**
Wathen, A. J. *see* **Loach, P. D.**, 93b:65016
Weyrich, N. Bivariate spline approximation by penalized least squares. (*see* **93d:65022**)
Whiteley, Walter A matrix for splines. **93b:65019**
Yang, Yong (*with* Luo, En) A spline synthetic discrete method (SSDM) for the analysis of plane problems. (Chinese. English summary) **93b:65020**
Zheludev, V. A. Periodic splines and the fast Fourier transform. (Russian) **93b:65021**
Zhu, Rui Feng *see* **Barry, Phillip J.**, 93e:65018
Zmatrakov, N. L. Approximation properties of two-dimensional splines of third and fourth degrees. (Russian. Russian summary) **93j:65021**

Items with secondary classifications in 65D07

Alfeld, Peter (*with* Schumaker, Larry L.; Sirvent, Maritza) On dimension and existence of local bases for multivariate spline spaces. **93f:41015**
Apel, T. (*with* Dobrowolski, Manfred) Anisotropic interpolation with applications to the finite element method. (German summary) **93b:65166**
Arge, Erlend (*with* Dæhlen, Morten) Grid point interpolation on finite regions using C^1 box splines. **93g:41001**
Barsky, Brian A. *see* **Seroussi, Gadiel**, 93d:41011
Behforooz, G. The not-a-knot piecewise interpolatory cubic polynomial. (English summary) **93g:65015**
Billera, Louis J. (*with* Rose, Lauren L.) Modules of piecewise polynomials and their freeness. **93f:52017**
Brunnett, Guido H. Properties of minimal-energy splines. (*see* **93g:65027**)
Chen, Han Lin Properties of complex harmonic splines. (English summary) **93j:30041**
Chui, Charles K. On cardinal spline-wavelets. **93k:65112**
Costabel, Martin (*with* McLean, William) Spline collocation for strongly elliptic equations on the torus. **93f:65096**
Dæhlen, Morten Modeling with box spline surfaces. (*see* **93g:65027**)
— *see also* **Arge, Erlend**, 93g:41001
Dahmen, Wolfgang (*with* Micchelli, Charles A.; Seidel, Hans-Peter) Blossoming begets B-spline bases built better by B-patches. **93b:41014**
Dedieu, Jean-Pierre On the convergence problem in interpolation theory: pointwise and uniform convergence to continuous or discontinuous functions. **93c:65014**
Degen, W. L. F. Best approximations of parametric curves by splines. **93e:41017**
Diao, Bai Qing (*with* Jiang, Chang Jun) A dimension-lowering algorithm for parametric variable broken line smoothing splines. (Chinese. English and Chinese summaries)
Dierckx, P. (*with* Van Leemput, S.; Vermeire, T.) Algorithms for surface fitting using Powell-Sabin splines. **93b:65026**
Dobrowolski, Manfred *see* **Apel, T.**, 93b:65166
Dyn, Nira (*with* Levin, David; Yad-Shalom, I.) Conditions for regular B-spline curves and surfaces. (French summary) **93f:41004**
Eck, Matthias Algorithms for geometric spline curves. (*see* **93g:65027**)
— MQ-curves are curves in tension. (*see* **93d:65022**)
Edwards, John A. Exact equations of the nonlinear spline. **93c:41018**
El Tarazi, M. N. *see* **Karabalii, A. A.**, 93m:65091
Farin, Gerald Degree reduction fairing of cubic B-spline curves. (*see* **93b:65035**)
Frøyland, Lars A. (*with* Laksså, Arne; Pajchel, Jan) Modelling geological structures using splines. (*see* **93d:65022**)
Gao, Jian[1] Using lower-order spline-on-spline functions to approximate the derivatives of a function. (Chinese. English summary) **93f:41016**
Goodman, T. N. T. (*with* Sharma, Ambikeshwar) A Bernstein type operator on the simplex. **93a:41040**
Győrvári, J. (*with* Mihálykó, Cs.) The numerical solution of nonlinear differential equations by spline functions. **93b:65095**
Hagen, Hans (*with* Santarelli, Paolo) Variational design of smooth B-spline surfaces. (*see* **93c:65026**)
— *see also* **Topics in surface modeling**, 93c:65026
Hartmann, Erich *see* **Hoschek, Josef**, (93c:65026)
Hoàng Văn Lai Splines and numerical solutions with an accuracy $O(h^3)$ for a hyperbolic differential-integral equation. **93b:65134**
Hoschek, Josef Bézier curves and surface patches on quadrics. (*see* **93d:65022**)
— (*with* Hartmann, Erich) Functional splines for interpolation, approximation, and blending of curves, surfaces, and solids. (*see* **93c:65026**)
Hřebíček, Jiří (*with* Šik, František; Veselý, Vítězslav) Digital convolution filters and smoothing splines. (*see* **93b:65007**)
Ignatov, M. I. (*with* Pevnyi, A. B.) Surface smoothing with B-spline finite elements. (English summary)
Jain, Padam Chand (*with* Shankar, Rama; Singh, T. V.) Cubic spline technique for solution of Burgers' equation with a semi-linear boundary condition. **93a:65121**
Jeeawock-Zedek, Fatma Interpolation de Lagrange par des splines quadratiques sur un quadrilatère de $\mathbf{R}^2$. (English and French summaries) [Lagrange interpolation by quadratic splines on a quadrilateral domain in $\mathbf{R}^2$] **93f:65015**
Jiang, Chang Jun *see* **Diao, Bai Qing**
Karabalii, A. A. (*with* El Tarazi, M. N.) Solving second order initial value problems by cubic splines. (English summary) **93m:65091**
Kirov, Georgi Khr. ★ Approximation with quasi-splines. **93f:41001**
Koch, Per Erik Minimization of interpolating spline curves with bounded derivatives. (*see* **93d:65022**)
Kounchev, Ognyan Iv. Definition and basic properties of polysplines. **93a:41016**
Kvasov, B. I. *see* **Yatsenko, S. A.**, 93m:41017
Ladygin, V. S. A high-speed algorithm for spline calculation. (Russian) **93b:76069**
Lahtinen, Aatos On the choice of parameters in shape-preserving quadratic spline interpolation. **93c:41030**
— Positive Hermite interpolation by quadratic splines. (English summary) **93m:41014**
Lai, Ming Jun A characterization theorem of multivariate splines in blossoming form. **93a:41019**
Laksså, Arne *see* **Frøyland, Lars A.; et al.**, (93d:65022)
Lazzaro, D. *see* **Puccio, L.**, 93c:65052
Lee, E. T. Y. On a class of data parametrizations: variations on a theme of Epstein. II. (*see* **93d:65022**)
— Corners, cusps, and parametrizations: variations on a theorem of Epstein. **93c:41003**
Lee, Seng Luan (*with* Tan, Roger C. E.; Tang, W.-S.) L_2-approximation by the translates of a function and related attenuation factors. **93d:41009**
Levin, David *see* **Dyn, Nira; et al.**, 93f:41004
Li, Bing Kun *see* **Sun, Jia Chang**, (93d:65004)
Liu, Hore Yuan *see* **Wang, Chi Hsu; et al.**
Manni, Carla Lower bounds on the dimension of bivariate spline spaces and generic triangulations. (*see* **93d:65022**)
Matveev, O. V. Approximation properties of interpolation D^m-splines. (Russian) **93b:41017**
McLean, William *see* **Costabel, Martin**, 93f:65096
Micchelli, Charles A. *see* **Dahmen, Wolfgang; et al.**, 93b:41014
Mihálykó, Cs. *see* **Győrvári, J.**, 93b:65095
Mohamed, Ali Shauket Numerical solution by the spline method for an elastic problem. **93a:65176**
Neamtu, Marian On discrete simplex splines and subdivision. (English summary) **93m:41015**
Nürnberger, Günther (*with* Riessinger, Th.) Lagrange and Hermite interpolation by bivariate splines. **93f:41048**
Pajchel, Jan *see* **Frøyland, Lars A.; et al.**, (93d:65022)
Pevnyi, A. B. *see* **Ignatov, M. I.**
Prautzsch, Hartmut On convex Bézier triangles. (French summary) **93a:65019**
Prössdorf, Siegfried (*with* Schneider, Reinhold) Spline approximation methods for multidimensional periodic pseudodifferential equations. **93g:65125**
Puccio, L. (*with* Lazzaro, D.) Tikhonov regularization of ill-posed problems via cubic splines. (Italian. English summary) **93c:65052**
Qin, Rong Spline boundary element—QR method. (*see* **93b:65008**)
Rabut, Christophe Elementary m-harmonic cardinal B-splines. **93c:41020**
— High level m-harmonic cardinal B-splines. **93c:41021**
Riessinger, Th. Interpolation by bivariate quadratic splines on a four-directional mesh. (English and German summaries) **93m:41016**
— *see also* **Nürnberger, Günther**, 93f:41048
Rogina, Mladen Basis of splines associated with some singular differential operators. (English summary) **93i:41006**
Ron, Amos Linear independence of the translates of an exponential box spline. **93b:41019**
Rose, Lauren L. *see* **Billera, Louis J.**, 93f:52017

Rouff, Marc On the control of partial differential equations: a C^K discretization method. **93d:49037**
Sakai, Manabu (*with* Usmani, Riaz A.) On recursion relations for splines. **93a:41020**
Santarelli, Paolo *see* **Hagen, Hans**, (**93c:65026**)
Schmidt, Jochen W. Dual algorithms for solving convex partially separable optimization problems. **93c:90084**
Schneider, Reinhold *see* **Prössdorf, Siegfried**, **93g:65125**
Schumaker, Larry L. *see* **Alfeld, Peter; et al.**, **93f:41015**
Seidel, Hans-Peter *see* **Dahmen, Wolfgang; et al.**, **93b:41014**
Seroussi, Gadiel (*with* Barsky, Brian A.) An explicit derivation of discretely shaped beta-spline basis functions of arbitrary order. **93d:41011**
Sha, Zhen (*with* Zhang, Nan Song; Zhao, De Ping; Wang, Xiang) Approximate solution to the parabolic equations and their picture display on the computer. **93a:65136**
— *see also* **Wang, Xiang**, **93a:65119**
Shankar, Rama *see* **Jain, Padam Chand; et al.**, **93a:65121**
Sharma, Ambikeshwar *see* **Goodman, T. N. T.**, **93a:41040**
Shrivastava, Manjulata Discrete cubic interpolatory splines. (English summary) **93m:41008**
Shumilov, B. M. Smooth interpolation of surfaces by parametric splines of the second degree on an irregular triangular grid. (Russian) **93b:65014**
— Spline approximation schemes that are exact on polynomials. (Russian. Russian summary) **93g:41009**
Šik, František *see* **Hřebíček, Jiří; et al.**, (**93b:65007**)
Singh, T. V. *see* **Jain, Padam Chand; et al.**, **93a:65121**
Sirvent, Maritza *see* **Alfeld, Peter; et al.**, **93f:41015**
Stojanović, Mirjana Exponentially fitted mid point spline difference scheme on nonuniform mesh for a singular perturbation problem. (*see* **93b:65007**)
Sun, Jia Chang (*with* Li, Bing Kun) Parallel multilevel B-spline preconditioners for the biharmonic problem. (English summary) (*see* **93d:65004**)
Tan, Roger C. E. *see* **Lee, Seng Luan; et al.**, **93d:41009**
Tang, W.-S. *see* **Lee, Seng Luan; et al.**, **93d:41009**
Uluchev, Rumen Smoothest interpolation with free nodes in W_p^r. **93a:41006**
Usmani, Riaz A. *see* **Sakai, Manabu**, **93a:41020**
Van Leemput, S. *see* **Dierckx, P.; et al.**, **93b:65026**
Vermeire, T. *see* **Dierckx, P.; et al.**, **93b:65026**
Veselý, Vítězslav *see* **Hřebíček, Jiří; et al.**, (**93b:65007**)
Wang, Chi Hsu (*with* Liu, Hore Yuan; Wen, Rong Sheng) Pipelined computations of B-spline curve.
Wang, Xiang (*with* Sha, Zhen) The bivariate spline approximate solution to the hyperbolic equations with variable coefficients. **93a:65119**
— *see also* **Sha, Zhen; et al.**, **93a:65136**
Wen, Rong Sheng *see* **Wang, Chi Hsu; et al.**
Yad-Shalom, I. *see* **Dyn, Nira; et al.**, **93f:41004**
Yatsenko, S. A. (*with* Kvasov, B. I.) On the choice of parametrization for cubic splines. (Russian. Russian summary) **93m:41017**
Zeifang, Rainer Interpolation with g-splines. **93e:41008**
Zhan, Yin Wei A C^μ spline blending interpolation scheme. (English summary) (*see* **93d:65004**)
Zhang, Li Qing Spline collocation approximation to periodic solutions of ordinary differential equations. **93a:65106**
Zhang, Nan Song *see* **Sha, Zhen; et al.**, **93a:65136**
Zhanlav, T. Spline approximation in the stabilization method for solving nonlinear boundary value problems. (*see* **93b:65007**)
Zhao, De Ping *see* **Sha, Zhen; et al.**, **93a:65136**

Items listed otherwise than by author

Topics in surface modeling ★ Topics in surface modeling. **93c:65026**

65D10 Smoothing, curve fitting

Abuelma'atti, Muhammad Taher A simple algorithm for fitting measured data to Fourier-series models. (English summary)
Albrecht, M. Approximation of functional relationships to fuzzy observations. (English summary) **93g:65022**
Al-Hassan, Qassem M. A variable order–variable stepsize continuation method that can trace difficult curves. (English and Arabic summaries) **93c:65018**
Cui, Ming Gen *see* **Jiao, Guang Hong**
Diao, Bai Qing (*with* Jiang, Chang Jun) A dimension-lowering algorithm for parametric variable broken line smoothing splines. (Chinese. English and Chinese summaries)
Goshtasby, Ardeshir (*with* O'Neill, William D.) Surface fitting to scattered data by a sum of Gaussians. (English summary)
Hosaka, Mamoru *see* **Saitoh, Tsuyoshi**, (**93a:68006**)
Hřebíček, Jiří (*with* Šik, František; Veselý, Vítězslav) Digital convolution filters and smoothing splines. (*see* **93b:65007**)
Ignatov, M. I. (*with* Pevnyi, A. B.) Surface smoothing with B-spline finite elements. (English summary)
Jiang, Chang Jun *see* **Diao, Bai Qing**
Jiao, Guang Hong (*with* Cui, Ming Gen) A good convexity-preserving smoothing operator. (Chinese. English and Chinese summaries)
Kou, Ji Song *see* **Qi, Shu Yi; et al.**
Liu, Fan[1] Further comment on the least-squares method. (English and Chinese summaries) **93m:65015**
Lokar, Matija Bézier curves. (Slovenian. English and Slovenian summaries) **93d:65017**
Markov, Svetoslav M. (*with* Popova, E. D.) New aspects of mathematical modelling: curve fitting. **93d:65018**
Myers, Donald E. Kriging, co-Kriging, radial basis functions and the role of positive definiteness. (English summary) **93j:65022**
O'Neill, William D. *see* **Goshtasby, Ardeshir**
Pevnyi, A. B. *see* **Ignatov, M. I.**
Plaskota, L. Function approximation and integration on the Wiener space with noisy data. (English summary) **93m:65016**
Popova, E. D. *see* **Markov, Svetoslav M.**, **93d:65018**
Qi, Shu Yi (*with* Wang, Yi Zhi; Kou, Ji Song; Wang, Zhong Sheng) An algorithm for rational curve fitting with control accuracy. (Chinese. English and Chinese summaries)
Saitoh, Tsuyoshi (*with* Hosaka, Mamoru) Curve fitting with extended rational Bézier curves and curve drawing. (*see* **93a:68006**)
Schmidt, Jochen W. Constrained smoothing of histograms by quadratic splines. (German summary) **93f:65018**
— Vereinheitlichte Darlegung von dualen Algorithmen zum restringierten Ausgleichen von Punktmengen und Histogrammen durch quadratische Spline-Funktionen. [Uniform presentation of dual algorithms for constrained smoothing of data and histograms by quadratic spline functions]
Shi, Hu Li (*with* Yan, Yi Hua) Extended interpolation method and its applications in piecewise approximations. (English summary) (*see* **93j:00007**)
Šik, František *see* **Hřebíček, Jiří; et al.**, (**93b:65007**)
Veselý, Vítězslav *see* **Hřebíček, Jiří; et al.**, (**93b:65007**)
Wang, Yi Zhi *see* **Qi, Shu Yi; et al.**
Wang, Zhong Sheng *see* **Qi, Shu Yi; et al.**
Watson, G. A. Linear best approximation using a class of polyhedral norms. (English summary) **93g:65023**
Yan, Yi Hua *see* **Shi, Hu Li**, (**93j:00007**)

Items with secondary classifications in 65D10

Beatson, R. K. (*with* Chacko, E.) Which cubic spline should one use? **93c:65015**
Bilodeau, Martin Fourier smoother and additive models. (English and French summaries) **93k:62082**
Brunnett, Guido H. A new characterization of plane elastica. (*see* **93d:65022**)
Chacko, E. *see* **Beatson, R. K.**, **93c:65015**
Clements, John C. A convexity-preserving C^2 parametric rational cubic interpolation. (English summary) **93h:65011**
Coope, I. D. Circle fitting by linear and nonlinear least squares. (English summary) **93k:65054**
Dalzell, C. J. (*with* Ramsay, James O.) Computing reproducing kernels with arbitrary boundary constraints. (English summary) **93m:65188**
Dyn, Nira (*with* Levin, David) Stationary and nonstationary binary subdivision schemes. (*see* **93d:65022**)
Goodman, T. N. T. Joining rational curves smoothly. **93a:65018**
— (*with* Sharma, Ambikeshwar) A Bernstein type operator on the simplex. **93a:41040**
Hoschek, Josef (*with* Seemann, G.) Spherical splines. (French summary) **93a:65013**
Levin, David *see* **Dyn, Nira**, (**93d:65022**)
Liang, You Dong *see* **Ma, Li Zhuang; et al.**, **93c:65169**
Ma, Li Zhuang (*with* Liang, You Dong; Peng, Qun Sheng) A new approach for smoothing polyhedra with arbitrary topologies. **93c:65169**
Míka, Stanislav (*with* Vaněk, Petr) Acceleration of convergence of a two-level algebraic algorithm by aggregation in smoothing process. (English summary) **93g:65051**
Moiseenko, V. A. (*with* Saenko, O. A.) Using the Kalman smoother to analyse and process oceanographic data. **93d:86002**
Myers, Donald E. Multidimensional multivariable smoothing. (English summary) (*see* **93g:62004**)
Peng, Qun Sheng *see* **Ma, Li Zhuang; et al.**, **93c:65169**
Ramsay, James O. *see* **Dalzell, C. J.**, **93m:65188**
Saenko, O. A. *see* **Moiseenko, V. A.**, **93d:86002**
Sarfraz, Muhammad Convexity preserving piecewise rational interpolation for planar curves. **93j:65015**
Seemann, G. *see* **Hoschek, Josef**, **93a:65013**
Sharma, Ambikeshwar *see* **Goodman, T. N. T.**, **93a:41040**
Vaněk, Petr *see* **Míka, Stanislav**, **93g:65051**
Weinstein, Stanley E. (*with* Xu, Yuesheng) Degree reduction of Bézier curves by approximation and interpolation. **93m:65023**
Westcott, Mark A statistical view of some aspects of inverse problems. (English summary) (*see* **93i:00020**)
Weyrich, N. Bivariate spline approximation by penalized least squares. (*see* **93d:65022**)
Xu, Yuesheng *see* **Weinstein, Stanley E.**, **93m:65023**

65D15 Algorithms for functional approximation

Baxter, B. J. C. The asymptotic cardinal function of the multiquadratic $\varphi(r) = (r^2 + c^2)^{1/2}$ as $c \to \infty$. (English summary) **93j:65023**
Bayliss, Alvin (*with* Turkel, Eli) Mappings and accuracy for Chebyshev pseudo-spectral approximations.
Beatson, R. K. (*with* Newsam, G. N.) Fast evaluation of radial basis functions. I. (English summary) **93i:65025**
Beckermann, Bernhard (*with* Wimp, Jet) Some dynamically trivial mappings with applications to the improvement of simple iteration. (English summary) **93h:65018**
— A reliable method for computing M-Padé approximants on arbitrary staircases. **93g:65024**
— (*with* Labahn, George) A uniform approach for Hermite Padé and simultaneous Padé approximants and their matrix-type generalizations. (English summary) **93i:65026**
— *see also* **Cabay, Stan; et al.**, **93c:65020**
Berezovskii, A. I. (*with* Nechiporenko, N. A.) On reconstruction, optimal with respect to accuracy, of difference functions with a given number of interior extrema. (Russian. Russian summary) **93m:65017**
Branders, Maria *see* **Piessens, Robert**, **93i:65028**
Bultheel, Adhemar *see* **Van Barel, Marc**, **93f:65020**
Cabay, Stan (*with* Labahn, George; Beckermann, Bernhard) On the theory and computation of nonperfect Padé-Hermite approximants. **93c:65020**
— (*with* Labahn, George) A superfast algorithm for multidimensional Padé systems. **93c:65019**
Cai, Wei (*with* Gottlieb, David; Shu, Chi-Wang) On one-sided filters for spectral Fourier approximations of discontinuous functions. **93e:65021**
Carpenter, Amos J. *see* **Varga, Richard S.**, **93b:65024**

Cavaretta, A. S., Jr. (*with* Sitharam, Meera) The total variation of the tensor product Bernstein-Bézier operator. (English summary) **93m:65018**
Faber, Vance (*with* Mycielski, Jan) Applications of learning theorems. **93b:65022**
González-Vera, Pablo *see* **Orive Rodríguez, Ramón A., 93m:65020**
Gottlieb, David *see* **Cai, Wei; et al., 93e:65021**
Grünbaum, F. Alberto Diffuse tomography: the isotropic case. **93c:65021**
— (*with* Zubelli, Jorge P.) Diffuse tomography: computational aspects of the isotropic case. **93c:65022**
Hatano, K. (*with* Hatano, Y.; Mitsui, Taketomo) On reformed Krylov's method. (English summary) **93k:65014**
Hatano, Y. *see* **Hatano, K.; et al., 93k:65014**
Heindl, G. Inclusions of the range of functions and their derivatives. (English summary) **93h:65019**
Iri, Masao *see* **Kubota, Koichi**
Jia, Rong Qing (*with* Micchelli, Charles A.) Using the refinement equations for the construction of pre-wavelets. II. Powers of two. **93e:65024**
Jódar, Lucas *see* **Law, A. G.; et al., 93h:65021**
Krämer, Walter Stephan Evaluation of polynomials in several variables with high accuracy. (English summary) **93h:65020**
Křivánek, Mirko Algorithmic and geometric aspects of cluster analysis. **93e:65022**
Kubota, Koichi (*with* Iri, Masao) Estimates of rounding errors with fast automatic differentiation and interval analysis.
Kutsenko, N. T. *see* **Zefirov, V. N.; et al.**
Labahn, George *see* **Cabay, Stan, 93c:65019; 93c:65020** *and* **Beckermann, Bernhard, 93i:65026**
Law, A. G. (*with* Zhang, C. N.; Rezazadeh, A.; Jódar, Lucas) Evaluation of a rational function. (English summary) **93h:65021**
Micchelli, Charles A. Using the refinement equation for the construction of pre-wavelets. **93e:65023**
— (*with* Rabut, Christophe; Utreras, Florencio I.) Using the refinement equation for the construction of pre-wavelets. III. Elliptic splines. **93e:65025**
— *see also* **Jia, Rong Qing, 93e:65024**
Milošević, Radivoje On the approximation values of an implicitly given function. (English and Serbo-Croatian summaries) **93i:65027**
Mitsui, Taketomo *see* **Hatano, K.; et al., 93k:65014**
Mokin, Yu. I. Approximation of smooth functions on surfaces of a three-dimensional space. (Russian. Russian summary) **93m:65019**
Mycielski, Jan *see* **Faber, Vance, 93b:65022**
Nechiporenko, N. A. *see* **Berezovskiĭ, A. I., 93m:65017**
Newsam, G. N. *see* **Beatson, R. K., 93i:65025**
Orive Rodríguez, Ramón A. (*with* González-Vera, Pablo) On the convergence of bivariate two-point Padé-type approximants. (English summary) **93m:65020**
Pérez Fernández, T. (*with* Piñar, Miguel A.) Properties of the Bernstein-Jacobi operator in $C^r[0, 1]$. (Spanish. English summary) **93a:65016**
Piessens, Robert (*with* Branders, Maria) On the computation of Fourier transforms of singular functions. (English summary) **93i:65028**
Piñar, Miguel A. *see* **Pérez Fernández, T., 93a:65016**
Podol'skiĭ, E. N. *see* **Zefirov, V. N.; et al.**
Popov, B. A. Acceleration of computations with a choice of the form of approximations. (Russian) **93b:65023**
Rabut, Christophe *see* **Micchelli, Charles A.; et al., 93e:65025**
Reis, Maria Luiza (*with* Roberty, Nilson Costa) Maximum entropy algorithms for image reconstruction from projections. (English summary) **93f:65019**
Rezazadeh, A. *see* **Law, A. G.; et al., 93h:65021**
Roberty, Nilson Costa *see* **Reis, Maria Luiza, 93f:65019**
Rote, Günter The convergence rate of the sandwich algorithm for approximating convex functions. (English and German summaries) **93h:65022**
Rouy, Elisabeth (*with* Tourin, Agnès) A viscosity solutions approach to shape-from-shading. **93d:65019**
Shu, Chi-Wang *see* **Cai, Wei; et al., 93e:65021**
Sitharam, Meera *see* **Cavaretta, A. S., Jr., 93m:65018**
Tian, Wei Wen *see* **Zhang, Lian Sheng, 93a:65017**
Tourin, Agnès *see* **Rouy, Elisabeth, 93d:65019**
Turkel, Eli *see* **Bayliss, Alvin**
Utreras, Florencio I. *see* **Micchelli, Charles A.; et al., 93e:65025**
Van Barel, Marc (*with* Bultheel, Adhemar) A parallel algorithm for discrete least squares rational approximation. (English summary) **93f:65020**
Varga, Richard S. (*with* Carpenter, Amos J.) Some numerical results on best uniform rational approximation of x^α on $[0, 1]$. **93b:65024**
Vasilenko, V. A. Best finite-dimensional ΣΠ-approximations. (Russian) (*see* **93i:65007**)
Wimp, Jet *see* **Beckermann, Bernhard, 93h:65018**
Yang, Feng Jian Construction and stability of multiderivative hybrid one-step methods with parameters. (Chinese. English summary) **93c:65023**
Yserentant, Harry Hierarchical bases. (*see* **93b:00026**)
Zefirov, V. N. (*with* Kutsenko, N. T.; Podol'skiĭ, E. N.) Approximation of a measurable function by a quasipolynomial of special form in real time. (Russian)
Zhang, C. N. *see* **Law, A. G.; et al., 93h:65021**
Zhang, Lian Sheng (*with* Tian, Wei Wen) A globally convergent algorithm for a locally Lipschitz function. **93a:65017**
Zhukov, A. V. A method of approximating functions. (Russian. Russian summary) **93f:65021**
Zubelli, Jorge P. *see* **Grünbaum, F. Alberto, 93c:65022**

Items with secondary classifications in 65D15

Abgrall, Rémi Sur le comportement asymptotique des coefficients de certaines approximations polynomiales. (English summary) [On the asymptotic behavior of the coefficients of some polynomial approximations] **93e:41009**
Achuthan, P. (*with* Ponnuswamy, S.) Padé approximants and Eisenstein-Ramanujan continued fraction. (English summary) **93m:30006**
Bagirov, A. M. A method for the approximation of a subdifferential. (Russian) **93d:49016**
Baratchart, Laurent (*with* Olivi, M.; Wielonsky, F.) On a rational approximation problem in the real Hardy space H_2. **93a:30046**
Barry, Phillip J. Symmetrizing multiaffine polynomials. (*see* **93d:65022**)
Bennett, Karin R. *see* **Majaess, Fouad; et al., 93a:65002**
Bultheel, Adhemar *see* **Xu, Guo Liang, 93e:41025; 93e:41026** *and* **Van Barel, Marc, 93g:65017**
Cavaretta, A. S., Jr. (*with* Micchelli, Charles A.) Pyramid patches provide potential polynomial paradigms. **93h:65023**
Chen, Dao Qi The CG method for image reconstruction from projections. (English summary) (*see* **93d:65004**)
Cheney, E. W. *see* **Sun, Xingping, 93m:41023**
Dunham, Charles B. Uniform approximation with alternation, Young's condition and the Remez first algorithm. **93e:41001**
Elhay, Sylvan (*with* Golub, Gene H.; Kautský, Jaroslav) Jacobi matrices for sums of weight functions. (English summary) **93k:65036**
Fairweather, Graeme *see* **Majaess, Fouad; et al., 93a:65002**
Feichtinger, Hans G. (*with* Gröchenig, Karlheinz) Gabor wavelets and the Heisenberg group: Gabor expansions and short time Fourier transform from the group theoretical point of view. **93i:42020**
— (*with* Gröchenig, Karlheinz) Iterative reconstruction of multivariate band-limited functions from irregular sampling values. **93a:94006**
Fischer, Bernd (*with* Golub, Gene H.) How to generate unknown orthogonal polynomials out of known orthogonal polynomials. (English summary) **93m:42011**
Fülöp, J. A semi-infinite programming method for approximating load duration curves by polynomials. (English and German summaries) **93j:90116**
Gao, Jian[1] Using lower-order spline-on-spline functions to approximate the derivatives of a function. (Chinese. English summary) **93f:41016**
Golub, Gene H. *see* **Elhay, Sylvan; et al., 93k:65036** *and* **Fischer, Bernd, 93m:42011**
González-Vera, Pablo *see* **Orive Rodríguez, Ramón A., 93b:41022**
Grabowski, Piotr On a problem of the best L^2-approximation with exponential sums. **93c:41043**
Granados, Bertha FFT method for biorthogonal expansion with respect to the integrated Walsh functions. **93c:42024**
Gröchenig, Karlheinz *see* **Feichtinger, Hans G., 93a:94006** *and* **93i:42020**
Grotendorst, J. Algorithms of mixed symbolic-numeric type for rational approximation. (English summary) (*see* **93j:00007**)
Grothmann, R. (*with* Mhaskar, H. N.) Detection of singularities using segment approximation. **93a:41015**
Heinrich, Stefan Lower bounds for the complexity of Monte Carlo function approximation. (English summary) **93h:65007**
Iserles, Arieh (*with* Nørsett, S. P.) ★ Order stars. **93c:41026**
Kautský, Jaroslav *see* **Elhay, Sylvan; et al., 93k:65036**
Keast, Patrick *see* **Majaess, Fouad; et al., 93a:65002**
Lin, Qun (*with* Rokne, J. G.) A family of centered forms for rational functions. (English summary) **93h:65067**
Majaess, Fouad (*with* Keast, Patrick; Fairweather, Graeme; Bennett, Karin R.) The solution of almost block diagonal linear systems arising in spline collocation at Gaussian points with monomial basis functions. **93a:65002**
Mhaskar, H. N. *see* **Grothmann, R., 93a:41015**
Micchelli, Charles A. *see* **Cavaretta, A. S., Jr., 93h:65023**
Nørsett, S. P. *see* **Iserles, Arieh, 93c:41026**
Olivi, M. *see* **Baratchart, Laurent; et al., 93a:30046**
Orive Rodríguez, Ramón A. (*with* González-Vera, Pablo) On a family of multivariate two-point rational approximants. **93b:41022**
Pérez Fernández, T. *see* **Piñar, Miguel A., 93k:65005**
Piñar, Miguel A. (*with* Pérez Fernández, T.) On higher order Padé-type approximants with some prescribed coefficients in the numerator. (English summary) **93k:65005**
Ponnuswamy, S. *see* **Achuthan, P., 93m:30006**
Roberts, Stephen Hierarchical n-body calculations. **93c:65168**
Rokne, J. G. *see* **Lin, Qun, 93h:65067**
Sauer, Thomas Multivariate Bernstein polynomials and convexity. **93a:41012**
Schweikard, Achim Real zero isolation for trigonometric polynomials. (English summary) **93g:65066**
Smelov, V. V. Approximation of functions by eigenfunctions of the Sturm-Liouville problems. (*see* **93b:65007**)
Sun, Xingping (*with* Cheney, E. W.) The fundamentality of sets of ridge functions. (English summary) **93m:41023**
Timoshkin, A. I. The problem of constructing reduced disjunctive normal forms of Boolean functions from the standpoint of lattice theory. (Russian. English and Lithuanian summaries) **93b:06029**
Van Barel, Marc (*with* Bultheel, Adhemar) A new formal approach to the rational interpolation problem. **93g:65017**
Wasilkowski, G. W. Integration and approximation of multivariate functions: average case complexity with isotropic Wiener measure. (English summary) **93i:65136**
Weyrich, N. Bivariate spline approximation by penalized least squares. (*see* **93d:65022**)
Wielonsky, F. *see* **Baratchart, Laurent; et al., 93a:30046**
Xu, Guo Liang (*with* Bultheel, Adhemar) The problem of matrix Padé approximation. **93e:41025**
— (*with* Bultheel, Adhemar) Matrix Padé approximation: recursive computations. **93e:41026**
— (*with* Zhuang, Guo Zhong) Convergence acceleration of vector sequences by vector Padé approximation. (English summary) **93m:65007**
Zhuang, Guo Zhong *see* **Xu, Guo Liang, 93m:65007**

65D17 Computer aided design (modeling of curves and surfaces) [see also 68U05]

Andersson, Roger K.-E. (*with* Dahlberg, Björn E. J.) Interactive techniques for visual design. (*see* **93c:65026**)

Aumann, Günter Zum Entwurf abwickelbarer Bézier-Flächen. [On the design of developable Bézier surfaces] **93g:65025**
Baart, M. L. *see* **Coetzee, M. A., 93m:65021**
Bajaj, Chanderjit L. Surface fitting using implicit algebraic surface patches. (*see* **93c:65026**)
Barnhill, Robert E. (*with* Frost, Todd M.; Kersey, Scott N.) Self-intersections and offset surfaces. (*see* **93b:65035**)
— (*with* Bloomquist, Brett K.; Worsey, Andrew J.) Adaptive contouring for triangular Bézier patches. (*see* **93b:65035**)
— (*with* Opitz, Karsten; Pottmann, Helmut) Fat surfaces: a trivariate approach to triangle-based interpolation on surfaces. (English summary) **93j:65024**
— *see also* **Geometry processing for design and manufacturing, 93b:65035**
Barry, Phillip J. Symmetrizing multiaffine polynomials. (*see* **93d:65022**)
— *see also* **Goldman, Ronald N., 93e:65027**
Bartels, Richard H. *see* **Pfeifle, R.; et al., (93d:65022)**
Bez, H. E. An analysis of symmetry for plane curves and plane curve algorithms. **93e:65026**
Bloomquist, Brett K. *see* **Barnhill, Robert E.; et al., (93b:65035)**
Bloor, M. I. G. (*with* Wilson, Michael John) Free-form surfaces from partial differential equations. (*see* **93g:65027**)
Boehm, Wolfgang Geometrie im geometric Design. (German summary) [Geometry in geometric design] **93f:65022**
Brakhage, Karl-Heinz Numerical treatment of surface-surface intersection and contouring. (*see* **93d:65022**)
Brechner, Eric L. General offset curves and surfaces. (*see* **93b:65035**)
Brunet, P. (*with* Vinacua, A.) Modeling closed surfaces: a comparison of existing methods. (*see* **93d:65022**)
Brunnett, Guido H. Properties of minimal-energy splines. (*see* **93g:65027**)
— A new characterization of plane elastica. (*see* **93d:65022**)
Canny, John F. *see* **Manocha, Dinesh, 93b:65031** *and* **93b:65032**
Carnicer, Jésus Miguel Dual Bézier curves and convexity preserving interpolation. (English summary) **93k:65015**
Cavaretta, A. S., Jr. (*with* Micchelli, Charles A.) Pyramid patches provide potential polynomial paradigms. **93h:65023**
Cavendish, James C. (*with* Marin, Samuel P.) A procedural feature-based approach for designing functional surfaces. (*see* **93c:65026**)
Chionh, Eng-Wee (*with* Goldman, Ronald N.) Implicitizing rational surfaces with base points by applying perturbations and the factors of zero theorem. (*see* **93d:65022**)
— (*with* Goldman, Ronald N.) Degree, multiplicity, and inversion formulas for rational surfaces using u-resultants. **93b:65025**
Coetzee, M. A. (*with* Baart, M. L.) Review of geometric continuity, with application to the construction of G^2 continuous curves. (English summary) **93m:65021**
Cohen, Elaine *see* **Elber, G., (93d:65022)**
Coman, Gh. *see* **Gânscă, I.; et al.**
Dæhlen, Morten Modeling with box spline surfaces. (*see* **93g:65027**)
Dahlberg, Björn E. J. *see* **Andersson, Roger K.-E., (93c:65026)**
Daniel, Marc A curve intersection algorithm with processing of singular cases: introduction of a clipping technique. (*see* **93d:65022**)
DeRose, Tony (*with* Mann, Stephen) An approximately G^1 cubic surface interpolant. (*see* **93d:65022**)
DeVore, Ronald A. (*with* Jawerth, Björn; Lucier, Bradley J.) Surface compression. (English summary) **93i:65029**
Dierckx, P. (*with* Van Leemput, S.; Vermeire, T.) Algorithms for surface fitting using Powell-Sabin splines. **93b:65026**
Du, Wen-Hui (*with* Schmitt, Francis J. M.) On the G^2 continuity of piecewise parametric surfaces. (*see* **93d:65022**)
Dyn, Nira (*with* Levin, David) Stationary and nonstationary binary subdivision schemes. (*see* **93d:65022**)
Eck, Matthias Algorithms for geometric spline curves. (*see* **93g:65027**)
Elber, G. (*with* Cohen, Elaine) Offset approximation improvement by control point perturbation. (*see* **93d:65022**)
de Faget de Casteljau, Paul POLynomials, POLar forms, and interPOLation. (*see* **93d:65022**)
Farin, Gerald Degree reduction fairing of cubic B-spline curves. (*see* **93b:65035**)
— (*with* Hagen, Hans) A local twist estimator. (*see* **93c:65026**)
— Commutativity of Coons and tensor product operators. (English summary) **93g:65026**
— ★ Curves and surfaces for computer aided geometric design. (English. English summary) **93k:65016**
Farouki, Rida T. Pythagorean-hodograph curves in practical use. (*see* **93b:65035**)
Fiorot, J.-C. (*with* Jeannin, P.) ★ Rational curves and surfaces. **93f:65023**
— (*with* Jeannin, P.) ★ Courbes splines rationnelles. (French) [Rational spline curves] **93j:65025**
Flaquer, J. (*with* Gárate, G.; Pargada, M.) Envelopes of moving quadric surfaces. (English summary) **93h:65024**
Floater, Michael S. Derivatives of rational Bézier curves. (English summary) **93d:65020**
Frey, William H. *see* **Sapidis, Nickolas S., 93b:65033**
Fritsch, Frederick N. (*with* Nielson, Gregory M.) On the problem of determining the distance between parametric curves. (*see* **93g:65027**)
Frost, Todd M. *see* **Barnhill, Robert E.; et al., (93b:65035)**
Gânscă, I. (*with* Coman, Gh.; Ţâmbulea, L.) On the shape of Bézier surfaces. (Romanian summary)
Gárate, G. *see* **Flaquer, J.; et al., 93h:65024**
Goldman, Ronald N. (*with* Barry, Phillip J.) Wonderful triangle: a simple, unified, algorithmic approach to change of basis procedures in computer aided geometric design. **93e:65027**
— *see also* **Chionh, Eng-Wee, 93b:65025; Stefanus, Yohanes, 93b:65034; 93e:65031; Chionh, Eng-Wee, (93d:65022)** *and* **Pfeifle, R.; et al., (93d:65022)**
Goodman, T. N. T. Joining rational curves smoothly. **93a:65018**
Gregory, John A. (*with* Yuen, P. K.) An arbitrary mesh network scheme using rational splines. (*see* **93d:65022**)
— An introduction to bivariate uniform subdivision. (*see* **93b:65005**)
Hagen, Hans (*with* Santarelli, Paolo) Variational design of smooth B-spline surfaces. (*see* **93c:65026**)
— *see also* **Farin, Gerald, (93c:65026); Topics in surface modeling, 93c:65026** *and* **Curve and surface design, 93g:65027**
Hall, Charles A. (*with* Porsching, T. A.) Approximation methods in the computer numerically controlled fabrication of optical surfaces. II. Mollifications. **93b:65027**
(Harrison, M. C.) *see* **Fiorot, J.-C., 93f:65023**
Hartmann, Erich *see* **Hoschek, Josef, (93c:65026)**
Hermann, Thomas On a tolerance problem of parametric curves and surfaces. **93b:65028**
— (*with* Renner, Gábor) Note on the RBG-patch concept. (English summary) **93j:65026**
Hoschek, Josef Bézier curves and surface patches on quadrics. (*see* **93d:65022**)
— (*with* Hartmann, Erich) Functional splines for interpolation, approximation, and blending of curves, surfaces, and solids. (*see* **93c:65026**)
Jawerth, Björn *see* **DeVore, Ronald A.; et al., 93i:65029**
Jeannin, P. *see* **Fiorot, J.-C., 93f:65023** *and* **93j:65025**
Jones, Alan K. Topological considerations in the interpolation of contour curves. (*see* **93c:65026**)
Jüttler, Bert (*with* Wassum, Peter) Some remarks on geometric continuity of rational surface patches. **93b:65029**
Kamenev, G. K. A class of adaptive algorithms for the approximation of convex bodies by polyhedra. (Russian) **93c:65024**
Kazantsev, I. G. Information content of projections. **93b:65030**
Kersey, Scott N. *see* **Barnhill, Robert E.; et al., (93b:65035)**
Klass, Reinhold (*with* Kuhn, Bernhard) Fillet and surface intersections defined by rolling balls. (English summary)
Kuhn, Bernhard *see* **Klass, Reinhold**
Kuo, Chên Hsiang Surface design using rational cubic splines and cross-sectional design techniques. (English and Chinese summaries) **93e:65028**
Lang, Johann (*with* Röschel, Otto) Developable $(1, n)$-Bézier surfaces. (English summary) **93h:65025**
Levin, David *see* **Dyn, Nira, (93d:65022)**
Li, Yan Bin *see* **Wang, Xiao Chun[1]; et al., 93h:65027**
Liang, You Dong *see* **Zheng, Jian Min; et al., 93j:65029**
Liu, Bao Yong *see* **Wu, Zhong Qi**
Liu, Hore Yuan *see* **Wang, Chi Hsu; et al.**
Lu, Hongmin (*with* Mathis, Frank H.) Surface approximation by spline smoothing and generalized cross-validation. (English summary)
Lucier, Bradley J. *see* **DeVore, Ronald A.; et al., 93i:65029**
Luo, Zhong Xian (*with* Wang, Ren Hong) Structure and application of algebraic spline curve and surface. (English summary) **93i:65030**
(Lyche, Tom) *see* **Mathematical methods in computer aided geometric design, 93d:65022**
Maekawa, Takashi *see* **Patrikalakis, Nicholas M.; et al., (93f:68006)**
Mann, Stephen (*with* et al.) A survey of parametric scattered data fitting using triangular interpolants. (*see* **93g:65027**)
— *see also* **DeRose, Tony, (93d:65022)**
Manocha, Dinesh (*with* Canny, John F.) Detecting cusps and inflection points in curves. **93b:65031**
— (*with* Canny, John F.) Algorithm for implicitizing rational parametric surfaces. **93b:65032**
Marin, Samuel P. *see* **Cavendish, James C., (93c:65026)**
Mathis, Frank H. *see* **Lu, Hongmin**
Mazure, Marie-Laurence Geometric contact of order p between two surfaces. (*see* **93d:65022**)
Micchelli, Charles A. *see* **Cavaretta, A. S., Jr., 93h:65023**
Nadler, Edmond Nonnegativity of bivariate quadratic functions on a triangle. (English summary) **93d:65021**
Nielson, Gregory M. *see* **Fritsch, Frederick N., (93g:65027)**
Opitz, Karsten *see* **Barnhill, Robert E.; et al., 93j:65024**
Osipov, I. L. Reconstruction of a surface that has continuous curvature and is given on a two-dimensional point manifold. (Russian. Russian summary) **93h:65026**
Pargada, M. *see* **Flaquer, J.; et al., 93h:65024**
Parkinson, D. B. Optimised biarc curves with tension. (English summary)
Patrikalakis, Nicholas M. Interrogation of surface intersections. (*see* **93b:65035**)
— (*with* Maekawa, Takashi; Sherbrooke, Evan C.; Zhou, Jing Fang) Computation of singularities for engineering design. (English summary) (*see* **93f:68006**)
Peters, Jörg Joining smooth patches around a vertex to form a C^k surface. (English summary) **93k:65017**
Pfeifle, R. (*with* Bartels, Richard H.; Goldman, Ronald N.) Tensor product slices. (*see* **93d:65022**)
Piah, A. R. M. Construction of smooth surfaces by piecewise tensor product polynomials. (*see* **93d:65022**)
Piegl, Les A. Constructive geometric approach to surface-surface intersection. (*see* **93b:65035**)
Porsching, T. A. *see* **Hall, Charles A., 93b:65027**
Pottmann, Helmut *see* **Barnhill, Robert E.; et al., 93j:65024**
Powar, P. L. The neutral case for the min-max angle criterion: a generalized concept. (English summary) **93j:65027**
Pratt, Michael J. The virtues of cyclides in CAGD. (*see* **93d:65022**)
Prautzsch, Hartmut (*with* Trump, Wilfried) Simple surfaces have no simple C^1 parametrization. (*see* **93d:65022**)
— On convex Bézier triangles. (French summary) **93a:65019**
Renner, Gábor *see* **Hermann, Thomas, 93j:65026**
Röschel, Otto *see* **Lang, Johann, 93h:65025**
Sablonnière, Paul Discrete Bézier curves and surfaces. **93e:65029**
Santarelli, Paolo *see* **Hagen, Hans, (93c:65026)**
Sapidis, Nickolas S. (*with* Frey, William H.) Controlling the curvature of a quadratic Bézier curve. **93b:65033**
Schmeltz, G. Curvature properties of parametric triangular Bézier patches. **93e:65030**
Schmitt, Francis J. M. *see* **Du, Wen-Hui, (93d:65022)**

(Schumaker, Larry L.) *see* **Mathematical methods in computer aided geometric design, 93d:65022**
Seebregts, C. H. *see* **Vries-Baayens, A. E., (93c:65026)**
Sherbrooke, Evan C. *see* **Patrikalakis, Nicholas M.; et al., (93f:68006)**
Stefanus, Yohanes (*with* Goldman, Ronald N.) Discrete convolution schemes. **93e:65031**
— (*with* Goldman, Ronald N.) Blossoming Marsden's identity. **93b:65034**
Stoyanov, Tsvetan E. Marching along surface/surface intersection curves with an adaptive step length. (English summary) **93i:65031**
Ţâmbulea, L. *see* **Gânscă, I.; et al.**
Tan, Jian Rong (*with* Zhuo, Shou Peng; Zong, Ye) An algorithm for finding the intersection curves of a function surface and a free-form surface, based on the properties of half-spaces. (Chinese. English and Chinese summaries)
Tang, Xiang Yang A triangular Bézier smooth interpolation surface with global VC^1 and local C^2 continuity over discrete points in R^3. (Chinese. English summary) **93i:65032**
(Taylor, Jean E.) *see* **Computing optimal geometries, 93a:65021**
Tian, Jie The geometric continuity of rational Bézier triangular surfaces. **93a:65020**
Trump, Wilfried *see* **Prautzsch, Hartmut, (93d:65022)**
Ueda, Kenji A method for removing the singularities from Gregory surfaces. (*see* **93d:65022**)
Van Leemput, S. *see* **Dierckx, P.; et al., 93b:65026**
Vermeire, T. *see* **Dierckx, P.; et al., 93b:65026**
Vinacua, A. *see* **Brunet, P., (93d:65022)**
Vries-Baayens, A. E. (*with* Seebregts, C. H.) Exact conversion of a trimmed nonrational Bézier surface into composite or basic nonrational Bézier surfaces. (*see* **93c:65026**)
Wang, Chi Hsu (*with* Liu, Hore Yuan; Wen, Rong Sheng) Pipelined computations of *B*-spline curve.
Wang, Guo Jin (*with* Wang, Guo Zhao) The rational cubic Bézier representation of conics. (English summary) **93j:65028**
— A conversion formula for cubic NURB curves. (Chinese. English and Chinese summaries) **93k:65018**
Wang, Guo Zhao *see* **Wang, Guo Jin, 93j:65028** *and* **Zheng, Jian Min; et al., 93j:65029**
Wang, K. Y. Parametric surface intersections. (*see* **93b:65035**)
Wang, Keng (*with* Zhong, Hua Zhen) A new interpolating construction method for *B*-spline complex surfaces. (Chinese. English and Chinese summaries) **93m:65022**
Wang, Ren Hong *see* **Luo, Zhong Xian, 93i:65030**
Wang, Xiao Chun[1] (*with* Wu, Xu Tang; Li, Yan Bin) Curvature catering—a new concept for machining sculptured surfaces. (Chinese. English and Chinese summaries) **93h:65027**
Warren, Joe Free-form blending: a technique for creating piecewise implicit surfaces. (*see* **93c:65026**)
Wassum, Peter Conditions and constructions for GC^1 and GC^2 continuity between adjacent integral Bézier surface patches. (*see* **93c:65026**)
— *see also* **Jüttler, Bert, 93b:65029**
Weinstein, Stanley E. (*with* Xu, Yuesheng) Degree reduction of Bézier curves by approximation and interpolation. **93m:65023**
Wen, Rong Sheng *see* **Wang, Chi Hsu; et al.**
Wilson, Michael John *see* **Bloor, M. I. G., (93g:65027)**
Worsey, Andrew J. *see* **Barnhill, Robert E.; et al., (93b:65035)**
Wu, Xu Tang *see* **Wang, Xiao Chun[1]; et al., 93h:65027**
Wu, Zhong Qi (*with* Liu, Bao Yong) Using the optimization convex hull method to find intersections of *B*-spline curves. (Chinese. English summary)
Xu, Yuesheng *see* **Weinstein, Stanley E., 93m:65023**
Ye, Zheng Lin Planar rational curves of third order of arbitrary families of functions. (Chinese. English summary) **93c:65025**
Yuen, P. K. *see* **Gregory, John A., (93d:65022)**
Zenkin, O. V. Some formulas for the approximate description of curves and surfaces. (*see* **93k:00023**)
Zheng, Jian Min (*with* Wang, Guo Zhao; Liang, You Dong) Curvature continuity between adjacent rational Bézier patches. (English summary) **93j:65029**
Zhong, Hua Zhen *see* **Wang, Keng, 93m:65022**
Zhou, Chang Zheng Adjoint families of Bézier curves and Bézier surfaces. (Chinese. English and Chinese summaries) **93i:65033**
Zhou, Jing Fang *see* **Patrikalakis, Nicholas M.; et al., (93f:68006)**
Zhuo, Shou Peng *see* **Tan, Jian Rong; et al.**
Zong, Ye *see* **Tan, Jian Rong; et al.**

Items listed otherwise than by author

Biri, 1991 ★ Mathematical methods in computer aided geometric design. II. **93d:65022**
Computing optimal geometries Computing optimal geometries. **93a:65021**
Conference:
Curves, Surfaces, CAGD, and Image Processing ★ Mathematical methods in computer aided geometric design. II. **93d:65022**
Geometric Design ★ Curve and surface design. **93g:65027**
Curve and surface design ★ Curve and surface design. **93g:65027**
Geometry processing for design and manufacturing ★ Geometry processing for design and manufacturing. **93b:65035**
Mathematical methods in computer aided geometric design ★ Mathematical methods in computer aided geometric design. II. **93d:65022**
San Francisco, CA Computing optimal geometries. **93a:65021**
Session:
Computing Optimal Geometries Computing optimal geometries. **93a:65021**
Tempe, AZ ★ Curve and surface design. **93g:65027**
Topics in surface modeling ★ Topics in surface modeling. **93c:65026**

Items with secondary classifications in 65D17

Abramowski, Stephan (*with* Müller, Heinrich) ★ Geometrisches Modellieren. (German) [Geometric modeling] **93a:68145**
Barry, Phillip J. (*with* Zhu, Rui Feng) Another knot insertion algorithm for *B*-spline curves. (English summary) **93e:65018**
Barsky, Brian A. *see* **Seroussi, Gadiel, 93d:41011**
Berger, Marc A. (*with* Wang, Yang) Multidimensional two-scale dilation equations. **93c:42031**
Bos, L. P. (*with* Šalkauskas, K.) Weighted splines based on piecewise polynomial weight functions. (*see* **93g:65027**)
Buehler, David B. *see* **Sederberg, Thomas W., (93d:65022)**
Cavaretta, A. S., Jr. (*with* Sitharam, Meera) The total variation of the tensor product Bernstein-Bézier operator. (English summary) **93m:65018**
Charnes, Abraham (*with* Cooper, W. W.; Huang, Zhi Min; Sun, D. B.) Relations between half-space and finitely generated cones in polyhedral cone-ratio DEA models. **93b:52013**
Chastang, Jean-Claude A. *see* **Farouki, Rida T., 93f:78001**
Choi, Byoung K. (*with* Shin, Ha-yong; Yoo, Woo S.) Visually smooth composite surfaces for an unevenly spaced 3D data array. (English summary)
Chui, Charles K. (*with* Shi, Xian Liang) Wavelets and multiscale interpolation. **93e:42043**
Cooper, W. W. *see* **Charnes, Abraham; et al., 93b:52013**
Cox, Steven J. The two phase drum with the deepest bass note. **93g:35098**
Dæhlen, Morten (*with* Lyche, Tom) Decomposition of splines. **93e:65019**
Dobkin, David P. (*with* Souvaine, Diane L.) Detecting the intersection of convex objects in the plane. **93a:65190**
Eck, Matthias MQ-curves are curves in tension. (*see* **93d:65022**)
Fan, Hong Bing Calculation of curves with strictly monotone curvature that pass two triple points. (Chinese. English summary) **93d:53005**
Farin, Gerald Tighter convex hulls for rational Bézier curves. (English summary)
Farouki, Rida T. (*with* Chastang, Jean-Claude A.) Curves and surfaces in geometrical optics. **93f:78001**
Floater, Michael S. Evaluation and properties of the derivative of a NURBS curve. (*see* **93d:65022**)
Foley, Thomas A. (*with* Opitz, Karsten) Hybrid cubic Bézier triangle patches. (*see* **93d:65022**)
Fuhr, Richard D. (*with* Kallay, Michael) Monotone linear rational spline interpolation. (English summary) **93g:65018**
Goodman, T. N. T. Two ways to construct a smooth piecewise rational curve. (English summary) **93h:65017**
Gopalsamy, S. (*with* Khandekar, Dilip; Mudur, S. P.) A new method of evaluating compact geometric bounds for use in subdivision algorithms. **93b:65090**
Hagen, Hans *see* **Lasser, Dieter, (93g:65027)**
Han, Wei Min *see* **Jou, Emery, (93g:65027)**
Hoffmann, Christoph M. (*with* Vaněček, George, Jr.) Fundamental techniques for geometric and solid modeling. **93c:68109**
Hosaka, Mamoru New solutions of connection problems of free-form curves and surfaces.
Hoschek, Josef (*with* Schneider, Franz-Josef) Approximate spline conversion for integral and rational Bézier and *B*-spline surfaces. (*see* **93b:65035**)
— (*with* Seemann, G.) Spherical splines. (French summary) **93a:65013**
Huang, Zhi Min *see* **Charnes, Abraham; et al., 93b:52013**
Ismail, M. K. Monotonicity preserving interpolation using C^2 rational cubic Bézier curves. (*see* **93d:65022**)
Jou, Emery (*with* Han, Wei Min) Minimal-energy splines with various end constraints. (*see* **93g:65027**)
Kalik, K. (*with* Wendland, Wolfgang L.) The approximation of closed manifolds by triangulated manifolds and the triangulation of closed manifolds. (German summary) **93c:41023**
Kallay, Michael *see* **Fuhr, Richard D., 93g:65018**
Khandekar, Dilip *see* **Gopalsamy, S.; et al., 93b:65090**
Kirrmann, Georg A short proof of an algorithm by Boehm. **93a:65014**
Kocić, Ljubiša M. *see* **Milovanović, G. V., 93b:41018**
Kou, Ji Song *see* **Qi, Shu Yi; et al.**
Kozak, Jernej (*with* Lokar, Matija) On piecewise quadratic G^2 approximation and interpolation. (*see* **93d:65022**)
Kulkarni, Rekha (*with* Laurent, Pierre-Jean; Mazure, Marie-Laurence) Nonaffine blossoms and subdivision for *Q*-splines. (*see* **93d:65022**)
Lasser, Dieter (*with* Hagen, Hans) Interval weighted tau-splines. (*see* **93g:65027**)
Laurent, Pierre-Jean *see* **Kulkarni, Rekha; et al., (93d:65022)**
Lokar, Matija *see* **Kozak, Jernej, (93d:65022)**
Lyche, Tom *see* **Dæhlen, Morten, 93e:65019**
Mazure, Marie-Laurence *see* **Kulkarni, Rekha; et al., (93d:65022)**
(Meier, Jörg) *see* **Späth, Helmuth, 93k:65013**
Meyer, W. Weston Algebraic parametrization for quadric surface intersections. **93c:51024**
Milovanović, G. V. (*with* Kocić, Ljubiša M.) Integral spline operators in CAGD. **93b:41018**
Mu, Yu Jie (*with* Xin, Quan Long) The Bernstein-Bézier representation of Lagrange interpolating segments and patches. (Chinese. English and Chinese summaries) **93i:65019**
Mudur, S. P. *see* **Gopalsamy, S.; et al., 93b:65090**
Müller, Heinrich *see* **Abramowski, Stephan, 93a:68145**
Neamtu, Marian On discrete simplex splines and subdivision. (English summary) **93m:41015**
Neuser, David A. Curve and surface interpolation using quintic weighted tau-splines. (*see* **93g:65027**)
Opitz, Karsten *see* **Foley, Thomas A., (93d:65022)**
Qi, Shu Yi (*with* Wang, Yi Zhi; Kou, Ji Song; Wang, Zhong Sheng) An algorithm for rational curve fitting with control accuracy. (Chinese. English and Chinese summaries)
Sagan, Hans On the geometrization of the Peano curve and the arithmetization of the Hilbert curve. **93h:28014**
Šalkauskas, K. *see* **Bos, L. P., (93g:65027)**
Schaback, Robert Rational geometric curve interpolation. (*see* **93d:65022**)
Schneider, Franz-Josef *see* **Hoschek, Josef, (93b:65035)**
Sederberg, Thomas W. (*with* Buehler, David B.) Offsets of polynomial Bézier curves: Hermite approximation with error bounds. (*see* **93d:65022**)
Seemann, G. *see* **Hoschek, Josef, 93a:65013**
Seroussi, Gadiel (*with* Barsky, Brian A.) An explicit derivation of discretely shaped beta-spline basis functions of arbitrary order. **93d:41011**
Shaw, J. A. (*with* Weatherill, N. P.) Automatic topology generation for multiblock grids. (English summary)

Shi, Xi Quan² (*with* Wang, Tian Jun) A quintic interpolant on an arbitrary triangular mesh. (Chinese. English summary) **93i:65021**
Shi, Xian Liang *see* **Chui, Charles K., 93e:42043**
Shin, Ha-yong *see* **Choi, Byoung K.; et al.**
Sitharam, Meera *see* **Cavaretta, A. S., Jr., 93m:65018**
Souvaine, Diane L. *see* **Dobkin, David P., 93a:65190**
Späth, Helmuth ★ Eindimensionale Spline-Interpolations-Algorithmen. (German. German summary) [One-dimensional spline interpolation algorithms] **93k:65013**
Sun, D. B. *see* **Charnes, Abraham; et al., 93b:52013**
Taylor, Walter F. ★ The geometry of computer graphics. **93a:68158**
Vaněček, George, Jr. *see* **Hoffmann, Christoph M., 93c:68109**
Wang, Guo Jin Generating NURBS curves by envelopes. (English and German summaries) **93g:65021**
Wang, Tian Jun *see* **Shi, Xi Quan², 93i:65021**
Wang, Yang *see* **Berger, Marc A., 93c:42031**
Wang, Yi Zhi *see* **Qi, Shu Yi; et al.**
Wang, Zhong Sheng *see* **Qi, Shu Yi; et al.**
Weatherill, N. P. *see* **Shaw, J. A.**
Wendland, Wolfgang L. *see* **Kalik, K., 93c:41023**
Wu, Chang Chun *see* **Zhang, You Qi**
Xin, Quan Long *see* **Mu, Yu Jie, 93i:65019**
Yoo, Woo S. *see* **Choi, Byoung K.; et al.**
Zeifang, Rainer Interpolation with g-splines. **93e:41008**
Zhang, You Qi (*with* Wu, Chang Chun) The patch test condition in curvilinear coordinate system—formulation and application. (English summary)
Zhu, Rui Feng *see* **Barry, Phillip J., 93e:65018**

65D20 Computation of special functions, construction of tables

Abad, J. (*with* Sesma, Javier) Computation of Coulomb wave functions at low energies. (English summary) **93e:65032**
Badralexe, Eugene (*with* Marksteiner, P.; Oh, Y.; Freeman, A. J.) Computation of the Kummer functions and Whittaker functions by using Neumann type series expansions. (English summary) **93e:65033**
Borwein, Jonathan (*with* Zucker, I. J.) Fast evaluation of the gamma function for small rational fractions using complete elliptic integrals of the first kind. (English summary) **93g:65028**
Bowen, H. Ferrel *see* **Sharafeddin, Omar A.; et al., 93c:65028**
Chalbaud, Eduardo (*with* Martín, Pablo) Two-point quasifractional approximant in physics: method improvement and application to $J_\nu(x)$. **93a:65022**
Evans, James D. (*with* Hubbell, John H.; Evans, Valerie D.) Exact series solution to the Epstein-Hubbell generalized elliptic type integral using complex variable residue theory. (English summary) **93h:65028**
Evans, Valerie D. *see* **Evans, James D.; et al., 93h:65028**
Feng, Yong Cheng *see* **Wang, Xi Liang; et al., 93j:65031**
Freeman, A. J. *see* **Badralexe, Eugene; et al., 93e:65033**
Hayek Calil, Nácere (*with* Pérez-Acosta, Francisco) Expansions of coefficients and logarithms of Bessel-Clifford functions and of the modified Bessel function of the first kind. (Spanish. English and Spanish summaries)
Hoffman, David K. *see* **Sharafeddin, Omar A.; et al., 93c:65028**
Hubbell, John H. *see* **Evans, James D.; et al., 93h:65028**
Jiang, He Li An optimal quadratic numerical algorithm for n-fold integrals in a general domain. (Chinese. English summary) **93d:65023**
Karatsuba, E. A. Fast computations of transcendental functions. (Russian) **93c:65027**
Kaye, M. *see* **Reuster, D., 93m:65025**
Kim, Jin Bai (*with* Kim, Seong-A.) A note on $\int_0^\infty (\sin x/x)^n\,dx$. (English summary) (*see* **93d:00041**)
Kim, Seong-A. *see* **Kim, Jin Bai, (93d:00041)**
Kouri, Donald J. *see* **Sharafeddin, Omar A.; et al., 93c:65028**
Krämer, Walter Stephan Computation of interval bounds for elliptic integrals. (English summary) (*see* **93i:65006**)
MacLeod, Allan J. Chebyshev expansions for modified Struve and related functions. (English summary) **93h:65029**
Marksteiner, P. *see* **Badralexe, Eugene; et al., 93e:65033**
Martín, Pablo *see* **Chalbaud, Eduardo, 93a:65022**
Martínez Finkelshtein, Andrei On the rate of rational approximation of the function $\exp(-x)$ on the positive semi-axis. (Russian)
Oh, Y. *see* **Badralexe, Eugene; et al., 93e:65033**
Papamichael, N. (*with* Soares, M. J.; Stylianopoulos, N. S.) A numerical method for the computation of Faber polynomials for starlike domains. (English summary) **93m:65024**
Paszkowski, Stefan Evaluation of the Fermi-Dirac integral of half-integer order. **93b:65036**
— Evaluation of a C-table. (English summary) **93h:65030**
Pérez-Acosta, Francisco *see* **Hayek Calil, Nácere**
Qing, Xian Ming *see* **Wang, Xi Liang; et al., 93j:65031**
Reuster, D. (*with* Kaye, M.) A technique for developing complete orthonormal basis sets using general solutions of Bessel's differential equation. (English summary) **93m:65025**
Saunders, L. R. An exact formula for the symmetrical incomplete beta function where the parameter is an integer or half-integer. (English summary) **93j:65030**
Sesma, Javier *see* **Abad, J., 93e:65032**
Sharafeddin, Omar A. (*with* Bowen, H. Ferrel; Kouri, Donald J.; Hoffman, David K.) Numerical evaluation of spherical Bessel transforms via fast Fourier transforms. **93c:65028**
Soares, M. J. *see* **Papamichael, N.; et al., 93m:65024**
Stylianopoulos, N. S. *see* **Papamichael, N.; et al., 93m:65024**
Su, Kendall L. ★ Handbook of tables for elliptic-function filters. **93c:65029**
Takanashi, Kouichi The numerical computation of zeros of Bessel functions of order < -1. (Japanese. English summary) (*see* **93e:65040**)
Tang, Tao The Hermite spectral method for Gaussian-type functions. (English summary) **93m:65026**
Wang, Xi Liang (*with* Feng, Yong Cheng; Qing, Xian Ming) Numerical computation of cylindrical functions for complex arguments. (Chinese. English and Chinese summaries) **93j:65031**
Yoshida, Toshio Error analysis of recurrence technique for the calculation of Bessel function $I_\nu(x)$. (*see* **93a:41001**)
— Error analysis of the recurrence technique for calculation of Bessel functions $I_\nu(x)$. (English summary) **93m:65027**
Zucker, I. J. *see* **Borwein, Jonathan, 93g:65028**

Items with secondary classifications in 65D20

Boyd, John Philip Multipole expansions and pseudospectral cardinal functions: a new generalization of the fast Fourier transform. (English summary) **93h:65175**
Brezinski, Claude (*with* Redivo Zaglia, Michela) A new presentation of orthogonal polynomials with applications to their computation. **93h:33004**
Bromberg, Sara Results on a generalized elliptic integral. (Spanish. English summary) **93j:33012**
Chin, Raymond C. Y. A domain decomposition method for generating orthogonal polynomials for a Gaussian weight on a finite interval. **93a:33016**
Cohen, Henri (*with* Olivier, Michel) Calcul des valeurs de la fonction zêta de Riemann en multiprécision. (English summary) [Algorithm for computing the values of the Riemann zeta function] **93g:11134**
Cohen, Joel E. (*with* Liggett, Thomas M.) Random arithmetic-geometric means and random pi: observations and conjectures. **93f:60098**
Danchura, Werner *see* **Pettitt, Brian A.; et al., 93m:44006**
Dunster, T. M. Conical functions with one or both parameters large. **93c:33001**
Galant, David Algebraic methods for modified orthogonal polynomials. **93b:42036**
Gupta, Omprakash K. On evaluation of powers. (English summary) **93h:65182**
Kovalenko, I. N. (*with* Nakonechnyi, A. N.) An approach to the tabulation of the distribution functions of additive functionals of Wiener process. (Russian summary)
Labun, Donna *see* **Pettitt, Brian A.; et al., 93m:44006**
Lee, Deok Kyo Calculation of coefficients in a power-series expansion of the nome $q = \exp[-\pi K(k')/K(k)]$. **93f:33023**
Liggett, Thomas M. *see* **Cohen, Joel E., 93f:60098**
MacLeod, Allan J. Chebyshev expansions for Abramowitz functions. **93b:41034**
Nakonechnyi, A. N. *see* **Kovalenko, I. N.**
Olivier, Michel *see* **Cohen, Henri, 93g:11134**
Patry, Jean ★ Les fractions continues. (French) [Continued fractions] **93a:30002**
Pettitt, Brian A. (*with* Danchura, Werner; Labun, Donna) Spherical Bessel transforms. (English summary) **93m:44006**
Redivo Zaglia, Michela *see* **Brezinski, Claude, 93h:33004**
Temme, N. M. Asymptotic and numerical aspects of the noncentral chi-square distribution. (English summary) **93m:65190**
Vertgeim, B. A. Euler polynomials and their generalization. (Russian) **93h:12001**

65D25 Numerical differentiation

Bao, Xiu *see* **Chu, Lan Ying; et al.**
Beylkin, Gregory On the representation of operators in bases of compactly supported wavelets. (English summary) **93k:65019**
Bulychev, Yu. G. (*with* Burlai, I. V.; Pogonyshev, S. A.) A numerical-analytic method for the differentiation of functions with a bounded spectrum on the basis of Kotel'nikov's formula. (Russian) **93i:65034**
Burlai, I. V. *see* **Bulychev, Yu. G.; et al., 93i:65034**
Chirikalov, V. A. Calculation of a differentiating matrix for Hermite interpolation polynomials. (Russian) **93b:65037**
— Calculation of differentiating matrices for classical orthogonal polynomials of continuous and discrete arguments. (Russian) **93b:65038**
Christianson, Bruce Automatic Hessians by reverse accumulation. **93b:65039**
Chu, Lan Ying (*with* Sun, Gui Lan; Bao, Xiu) A construction method for numerical partial derivatives. (Chinese. English and Chinese summaries)
Corliss, George F. (*with* Rall, Louis B.) Computing the range of derivatives. (English summary) **93g:65029**
Evtushenko, Yu. G. Automatic differentiation viewed from optimal control theory. **93f:65024**
Fischer, Hans Christoph Automatic differentiation and applications. **93j:65032**
McGregor, Malcolm T. Numerical differentiation of analytic functions. **93k:65020**
Mitrea, Alexandru-Ioan On the convergence of numerical differentiation for Hermite nodes. (*see* **93i:00015**)
Mukamba, F. Approximate calculation of the derivatives of anisotropically approximately differentiable mappings. (Russian) (*see* **93m:35001**)
Neidinger, Richard D. An efficient method for the numerical evaluation of partial derivatives of arbitrary order. **93b:65040**
Obayashi, Noboru A numerical method for calculating the higher order derivatives used multi-based number. (English summary)
Pogonyshev, S. A. *see* **Bulychev, Yu. G.; et al., 93i:65034**
Rall, Louis B. *see* **Corliss, George F., 93g:65029**
Sun, Gui Lan *see* **Chu, Lan Ying; et al.**
Zhu, Hai Yan Fast methods for computing the values of the derivatives of a rational function. **93b:65041**

Items with secondary classifications in 65D25

Dixon, L. C. W. On the impact of automatic differentiation on the relative performance of parallel truncated Newton and variable metric algorithms. **93c:90079**
Groetsch, C. W. Optimal order of accuracy in Vasin's method for differentiation of noisy functions. **93f:49019**
Heindl, G. Inclusions of the range of functions and their derivatives. (English summary) **93h:65019**
Mathias, Roy Evaluating the Fréchet derivative of the matrix exponential. (English summary) **93i:65049**

Mukamba, F. Local properties of anisotropically differentiable functions. (Russian) (*see* **93m:35001**)

65D30 Numerical integration

Babinkostov, V. An error estimate for the matrix-quadrature process. (Macedonian. Russian summary) **93e:65034**

Basile, A. G. (*with* Gray, Christopher George) A relaxation algorithm for classical paths as a function of end points: application to the semiclassical propagator for far-from-caustic and near-caustic conditions. **93c:65030**

Beckers, Marc (*with* Haegemans, Ann) Transformation of integrands for lattice rules. (English summary) (*see* **93f:65006**)

Bloom, Thomas (*with* Lubinsky, D. S.; Stahl, Herbert) Interpolatory integration rules and orthogonal polynomials with varying weights. (English summary) **93h:65031**

Boehme, T. K. (*with* Preuss, W.; van der Wall, V.) On a simple numerical method for computing Stieltjes integrals in reliability theory. (English summary) **93e:65035**

Cariño, Ricolindo (*with* Robinson, Ian; de Doncker-Kapenga, Elise) An algebraic study of the Levin transformation in numerical integration. (English summary) (*see* **93f:65006**)

Cormack, Donald E. *see* **Rosen, Dan, 93h:65034**

Datta, Barun Kumar The approximate evaluation of certain integrals. (English summary)

Davies, K. T. R. (*with* Wu, J. S.; Davies, R. W.) Evaluation of integrals using general partial-fraction expansions. (English and French summaries) **93g:65030**

Davies, R. W. *see* **Davies, K. T. R.; et al., 93g:65030**

Delincé, F. *see* **Nicolet, A.; et al., (93b:65002)**

de Doncker-Kapenga, Elise (*with* Vakalis, Ignatios) Convergence results and speedup of parallel numerical integration algorithms. (English summary) (*see* **93k:65003**)

— *see also* **Cariño, Ricolindo; et al., (93f:65006)**

Evans, G. A. The high-order use of the trapezoidal rule in numerical quadrature. (English summary) **93g:65031**

Garasim, Ya. S. (*with* Ostudin, B. A.) Investigation of an algorithm for calculating a class of two-dimensional improper integrals. (Ukrainian)

Genon, A. *see* **Nicolet, A.; et al., (93b:65002)**

Gray, Christopher George *see* **Basile, A. G., 93c:65030**

Haegemans, Ann *see* **Verlinden, Pierre, 93g:65032** *and* **Beckers, Marc, (93f:65006)**

Hasegawa, Takemitsu (*with* Sugiura, Hiroshi; Torii, Tatsuo) Positivity of the weights of extended Clenshaw-Curtis quadrature rules. (English summary) **93h:65032**

Hayami, Ken A robust numerical integration method for 3-D boundary element analysis and its error analysis using complex function theory. (English summary) (*see* **93f:65006**)

Hitotumatu, Sin Multiple numerical integration formula using regular lattices. **93c:65031**

Huang, Xiao Ling Approximation of singular integrals by cubic Birkhoff interpolatory splines. (Chinese. English and Chinese summaries)

Hunter, D. B. The numerical evaluation of definite integrals affected by singularities near the interval of integration. (English summary) **93h:65033**

Joe, Stephen (*with* Sloan, Ian H.) On computing the lattice rule criterion *R*. **93b:65042**

Kabanovich, V. I. (*with* Kurbatov, A. M.) On the calculation of a family of triple integrals. (Russian. Russian summary) **93i:65035**

— (*with* Kurbatov, A. M.) Computation of a lattice function. (Russian) **93i:65036**

Kalaida, A. F. Matrix algorithms for the numerical integration of rapidly oscillating functions. (Russian) **93b:65043**

Kaplan, Wilfred (*with* Sleator, Frederick B.) Procedures for multiple integration. (English summary)

Keyes, Brian *see* **Stenger, Frank; et al., (93f:65006)**

Kieser, R. (*with* Schwab, Christoph; Wendland, Wolfgang L.) Numerical evaluation of singular and finite-part integrals on curved surfaces using symbolic manipulation. (English and German summaries) **93i:65037**

Kleiss, Ronald Average-case complexity distributions: a generalization of the Woźniakowski lemma for multidimensional numerical integration. (English summary) **93d:65024**

Kleiza, Jonas *see* **Kleiza, Vytautas, 93j:65033**

Kleiza, Vytautas (*with* Kleiza, Jonas) Properties and calculation of an integral with power singularities. (Russian. Russian summary) **93j:65033**

Kohlbeck, F. A method for the numerical integration of unequally spaced data. **93b:65044**

Kurbatov, A. M. *see* **Kabanovich, V. I., 93i:65035** *and* **93i:65036**

Legros, W. *see* **Nicolet, A.; et al., (93b:65002)**

Li, Yi Fu A highly accurate quadrature method. (Chinese) **93b:65045**

Lubinsky, D. S. *see* **Bloom, Thomas; et al., 93h:65031**

Lyness, J. N. (*with* Sørevik, T.) An algorithm for finding optimal integration lattices of composite order. (English summary) **93i:65038**

Malyutin, V. B. Approximations of path integrals with respect to a measure generated by a system of differential equations. (Russian. English and Russian summaries) **93j:65034**

Mayo, Anita A. The rapid evaluation of volume integrals of potential theory on general regions. **93c:65032**

Metzger, Mieczysław DRE integration algorithms for real-time simulation. (English summary) (*see* **93e:00021**)

Moldenhauer, W. Einparametrige vernetzte numerische Integration über Simplexe im $\mathbf{R}^3$. [One-parameter grid-linked numerical integration over simplices in $\mathbf{R}^3$]

Moscardó, Federico *see* **Pérez-Jordá, José M.; et al., 93e:65037**

Nazarchuk, Z. T. (*with* Senik, T. D.) An algorithm for calculating the potential of a simple layer. (Russian. English and Russian summaries) **93e:65036**

Nicolet, A. (*with* Genon, A.; Legros, W.; Umé, M.; Delincé, F.) An optimal adaptative numerical integral method. (English summary) (*see* **93b:65002**)

Onegov, L. A. Optimal methods for calculating double integrals with fixed singularities. (Russian) **93j:65035**

O'Reilly, Mike *see* **Stenger, Frank; et al., (93f:65006)**

Ostudin, B. A. *see* **Garasim, Ya. S.**

Paget, David *see* **Smith, William E., 93b:65046**

Parker, Ken *see* **Stenger, Frank; et al., (93f:65006)**

Peng, Zhong Qiu *see* **Wang, Xi Liang, 93m:65028**

Pérez-Jordá, José M. (*with* San-Fabián, Emilio; Moscardó, Federico) A simple, reliable and efficient scheme for automatic numerical integration. **93e:65037**

Preuss, W. *see* **Boehme, T. K.; et al., 93e:65035**

Rabinowitz, Philip (*with* Smith, William E.) Interpolatory product integration in the presence of singularities: L_2 theory. **93a:65023**

— Extrapolation methods in numerical integration. (English summary) **93j:65036**

Robinson, Ian *see* **Cariño, Ricolindo; et al., (93f:65006)**

Rosen, Dan (*with* Cormack, Donald E.) Analysis and evaluation of singular integrals by the invariant imbedding approach. (English summary) **93h:65034**

San-Fabián, Emilio *see* **Pérez-Jordá, José M.; et al., 93e:65037**

Schwab, Christoph (*with* Wendland, Wolfgang L.) Numerical integration of singular and hypersingular integrals in boundary element methods. (English summary) **93j:65037**

— (*with* Wendland, Wolfgang L.) On numerical cubatures of singular surface integrals in boundary element methods. **93h:65035**

— *see also* **Kieser, R.; et al., 93i:65037**

Senik, T. D. *see* **Nazarchuk, Z. T., 93e:65036**

Sidi, Avram Computation of oscillatory infinite integrals by extrapolation methods. (*see* **93f:65006**)

Sleator, Frederick B. *see* **Kaplan, Wilfred**

Sloan, Ian H. *see* **Joe, Stephen, 93b:65042**

Smith, William E. (*with* Paget, David) Optimal nodes for interpolatory product integration. **93b:65046**

— *see also* **Rabinowitz, Philip, 93a:65023**

Sørevik, T. *see* **Lyness, J. N., 93i:65038**

Squire, William Progressive Aitken midpoint quadrature. (English summary) (*see* **93f:00014**)

Stahl, Herbert *see* **Bloom, Thomas; et al., 93h:65031**

Stenger, Frank (*with* Keyes, Brian; O'Reilly, Mike; Parker, Ken) Sinc indefinite integration and initial value problems. (English summary) (*see* **93f:65006**)

Stolle, H.-W. (*with* Strauss, Raimond) On the numerical integration of certain singular integrals. (German summary) **93a:65024**

Storck, Ulrike Numerical integration in two dimensions with automatic result verification. (English summary) **93j:65038**

Strauss, Raimond *see* **Stolle, H.-W., 93a:65024**

Sugiura, Hiroshi *see* **Hasegawa, Takemitsu; et al., 93h:65032**

Takev, Milko D. On probable error of the Monte Carlo method for numerical integration. (English summary) **93f:65025**

Torii, Tatsuo *see* **Hasegawa, Takemitsu; et al., 93h:65032**

Uba, Peep Approximate computation of weakly singular integrals. (Russian summary) **93c:65033**

Umé, M. *see* **Nicolet, A.; et al., (93b:65002)**

Vakalis, Ignatios *see* **de Doncker-Kapenga, Elise, (93k:65003)**

Verlinden, Pierre (*with* Haegemans, Ann) An asymptotic expansion in wavelet analysis and its application to accurate numerical wavelet decomposition. (English summary) **93g:65032**

Voloshina, I. A. Some optimal formulas for the approximate calculation of integrals. (Russian) (*see* **93j:00003**)

van der Wall, V. *see* **Boehme, T. K.; et al., 93e:65035**

Wang, Chung-Lie *see* **Wang, Shao Ming, 93a:65025**

Wang, Shao Ming (*with* Wang, Chung-Lie) On numerical integration over triangulations. **93a:65025**

Wang, Xi Liang (*with* Peng, Zhong Qiu) Approximate series expansions of Sommerfeld integrals. (Chinese. English and Chinese summaries) **93m:65028**

Wendland, Wolfgang L. *see* **Schwab, Christoph, 93h:65035; Kieser, R.; et al., 93i:65037** *and* **Schwab, Christoph, 93j:65037**

Wu, J. S. *see* **Davies, K. T. R.; et al., 93g:65030**

Xu, Bao Yuan A theorem on the approximate calculation of double integrals and its applications. (Chinese. Chinese summary)

Xu, Yuan Gaussian cubature and bivariate polynomial interpolation. **93a:65026**

Zhong, Shou Guo A pasting method for computing ordinary integrals by using higher-order singular integration. (Chinese. Chinese summary) **93m:65029**

Items with secondary classifications in 65D30

Bartels, Richard H. *see* **Vermeulen, A. H.; et al., 93b:65018**

Beylkin, Gregory On the representation of operators in bases of compactly supported wavelets. (English summary) **93k:65019**

Bitsadze, D. G. A remark on a process for approximating singular integrals with a Cauchy kernel over open integration contours. (Russian) **93g:41024**

Borel, J.-P. (*with* Pagès, G.; Xiao, Yi-Jun) Suites à discrépance faible et intégration numérique. [Low-discrepancy sequences and numerical integration] (*see* **93k:65002**)

Cariño, Ricolindo (*with* Robinson, Ian; de Doncker-Kapenga, Elise) An algorithm for automatic integration of certain singular functions over a triangle. (English summary) (*see* **93f:65006**)

Carstoiu, F. (*with* Lombard, R. J.) A new method of evaluating folding type integrals. (English summary) **93f:81165**

Chacon, R. V. (*with* Fomenko, A. T.) Recursion formulas for the Lie integral. **93e:22013**

Contractor, Dinshaw N. *see* **Srivastava, Rajesh, 93b:65185**

Crow, John A. Quadrature of integrands with a logarithmic singularity. **93d:65025**

Delaurens, F. (*with* Mustieles Moreno, Francisco-José) A deterministic particle method for solving kinetic transport equations: the semiconductor Boltzmann equation case. **93k:65008**

Dimov, Ivan T. Minimization of the probable error for some Monte Carlo methods. (*see* **93a:65004**)

de Doncker-Kapenga, Elise *see* **Cariño, Ricolindo; et al., (93f:65006)**

Fomenko, A. T. *see* **Chacon, R. V., 93e:22013**

Gautschi, Walter On the remainder term for analytic functions of Gauss-Lobatto and Gauss-Radau quadratures. **93a:41071a**

— Corrections to: "On the remainder term for analytic functions of Gauss-Lobatto and Gauss-Radau quadratures". **93a:41071b**

Genz, Alan Statistics applications of subregion adaptive multiple numerical integration. (English summary) (*see* **93f:65006**)

Gori Nicolò-Amati, Laura On a quadrature process of Birkhoff type. (Italian summary) **93b:41035**

Guiggiani, M. Direct evaluation of hypersingular integrals in 2D BEM. **93a:65165**
Hawkins, D. L. *see* **Korzeniowski, Andrzej, 93f:60122**
Heppler, G. R. *see* **Vermeulen, A. H.; et al., 93b:65018**
Hunt, David C. *see* **Joe, Stephen, 93k:20074**
Janse van Rensburg, E. J. (*with* Torrie, G. M.) Estimation of multidimensional integrals: is Monte Carlo the best method? (English summary) **93m:65008**
Jin, Shi (*with* Levermore, C. David) The discrete-ordinate method in diffusive regimes. **93c:35004**
Joe, Stephen (*with* Hunt, David C.) The number of lattice rules having given invariants. (English summary) **93k:20074**
Johnson, Valen E. A technique for estimating marginal posterior densities in hierarchical models using mixtures of conditional densities. (English summary) **93m:62057**
Keast, Patrick Software for integration over triangles and general simplices. (English summary) (*see* **93f:65006**)
Korevaar, Jacob Behavior of Cotes numbers and other constants, with an application to Chebyshev-type quadrature. (English summary) **93m:41027**
Korzeniowski, Andrzej (*with* Hawkins, D. L.) On simulating Wiener integrals and their expectations. (English summary) **93f:60122**
Levermore, C. David *see* **Jin, Shi, 93c:35004**
Liem, Chin Bo *see* **Lü, Tao; et al., 93e:65004**
Lombard, R. J. *see* **Carstoiu, F., 93f:81165**
Lopatyuk, I. N. *see* **Yanovich, L. A., 93h:28021**
Lü, Tao (*with* Shih, Tsi Min; Liem, Chin Bo) An analysis of splitting extrapolation for multidimensional problems. (English summary) **93e:65004**
Lubich, Ch. (*with* Ostermann, Alexander) Runge-Kutta methods for parabolic equations and convolution quadrature. **93d:65082**
Lubinsky, D. S. (*with* Rabinowitz, Philip) Hermite and Hermite-Fejér interpolation and associated product integration rules on the real line: the L_1 theory. (English summary) **93j:41005**
MacLeod, Allan J. Chebyshev expansions for Abramowitz functions. **93b:41034**
Miyahiro, Eiichi *see* **Noda, Matu-Tarow**
Mori, Masatake Developments in the double exponential formulas for numerical integration. **93d:65028**
Mustieles Moreno, Francisco-José *see* **Delaurens, F., 93k:65008**
Noda, Matu-Tarow (*with* Miyahiro, Eiichi) A hybrid approach for the integration of a rational function.
O'Hagan, A. Bayes-Hermite quadrature. **93c:62013**
Ostermann, Alexander *see* **Lubich, Ch., 93d:65082**
Pagès, G. *see* **Borel, J.-P.; et al., (93k:65002)**
Petras, Knut Error bounds for Gaussian and related quadrature and applications to R-convex functions. **93c:41047**
Price, John F. (*with* Sloan, Ian H.) Pointwise convergence of multiple Fourier series: sufficient conditions and an application to numerical integration. (English summary) **93k:42007**
Prössdorf, Siegfried (*with* Sloan, Ian H.) Quadrature method for singular integral equations on closed curves. **93c:65166**
Rabinowitz, Philip *see* **Lubinsky, D. S., 93j:41005**
Reimer, Manfred On the existence problem for Gauss-quadrature on the sphere. **93j:41017**
Riley, Bruce V. The numerical solution of Volterra integral equations with nonsmooth solutions based on sinc approximation. **93b:65210**
Robinson, Ian *see* **Cariño, Ricolindo; et al., (93f:65006)**
Shih, Tsi Min *see* **Lü, Tao; et al., 93e:65004**
Sloan, Ian H. *see* **Prössdorf, Siegfried, 93c:65166** *and* **Price, John F., 93k:42007**
Srivastava, Rajesh (*with* Contractor, Dinshaw N.) Efficient evaluation of integrals in three-dimensional boundary element method using linear shape functions over plane triangular elements. **93b:65185**
Torrie, G. M. *see* **Janse van Rensburg, E. J., 93m:65008**
Vermeulen, A. H. (*with* Bartels, Richard H.; Heppler, G. R.) Integrating products of B-splines. **93b:65018**
Wasilkowski, G. W. Integration and approximation of multivariate functions: average case complexity with isotropic Wiener measure. (English summary) **93i:65136**
Xiao, Yi-Jun *see* **Borel, J.-P.; et al., (93k:65002)**
Yanovich, L. A. (*with* Lopatyuk, I. N.) Obtaining asymptotic expansions of continual integrals with respect to the Gaussian measure by the method of integration by parts. (Russian. English summary) **93h:28021**
Zwillinger, Daniel ★ Handbook of integration. **93i:00005**

65D32 Quadrature and cubature formulas

Bazarkhanov, D. B. Best quadrature formulas for some classes of differentiable functions. (Russian) **93c:65034**
Berens, H. (*with* Schmid, H. J.) On the number of nodes of odd degree cubature formulae for integrals with Jacobi weights on a simplex. (English summary) **93h:65036**
Bialecki, Bernard Sinc quadratures for Cauchy principal value integrals. (English summary) **93m:65030**
Casasús Latorre, L. (*with* González-Vera, Pablo; González-Concepción, C.; Pérez-Acosta, Francisco) Quadrature formulas and convergence of two-point Padé approximants. **93b:65047**
Crow, John A. Quadrature of integrands with a logarithmic singularity. **93d:65025**
Dragoş, Lazăr (*with* Popescu, Marin) Certain quadrature formulae of interest in aerodynamics. (English summary) **93h:65037**
Fang, Gen Sun (*with* Liu, Yong Ping) On the optimal quadrature least L_∞-norm of monosplines with free knots on the real axis. (English summary) **93j:65039**
González-Concepción, C. *see* **Casasús Latorre, L.; et al., 93b:65047**
González-Vera, Pablo *see* **Casasús Latorre, L.; et al., 93b:65047**
Guermond, Jean-Luc Numerical quadratures for layer potentials over curved domains in $\mathbf{R}^3$. (English summary) **93g:65033**
Haber, Seymour Two formulas for numerical indefinite integration. **93d:65026**
Ioakimidis, N. I. The Gauss-Laguerre quadrature rule for finite-part integrals. (English summary) **93m:65031**
Joe, Stephen (*with* Sloan, Ian H.) Imbedded lattice rules for multidimensional integration. **93g:65034**
Kautský, Jaroslav Gauss quadratures: an inverse problem. **93d:65027**
Kelch, Rainer Numerical quadrature by extrapolation with automatic result verification. (English summary) **93m:65032**
Laurie, Dirk P. Stratified sequences of nested quadrature formulas. (English summary) **93i:65039**
Lipskii, L. A. *see* **Tsvetkov, V. I., 93g:65035**
Liu, Yong Ping *see* **Fang, Gen Sun, 93j:65039**
Lyness, J. N. On handling singularities in finite elements. (English summary) **93h:65038**
Mori, Masatake Developments in the double exponential formulas for numerical integration. **93d:65028**
Nikolov, Geno On the monotonicity of sequences of quadrature formulae. **93d:65029**
Noskov, M. V. Weighted cubature formulas of the highest algebraic accuracy. (Russian. Russian summary) **93j:65040**
Omladič, Matjaž Average quadrature formulas of Gauss type. **93c:65035**
Palamara Orsi, Annamaria Two algorithms for the construction of product formulas. (English and German summaries)
Patterson, T. N. L. Modified optimal quadrature extensions. (English summary) **93m:65033**
Peherstorfer, Franz On the remainder of Gaussian quadrature formulas for Bernstein-Szegő weight functions. **93d:65030**
Pérez-Acosta, Francisco *see* **Casasús Latorre, L.; et al., 93b:65047**
Petras, Knut One sided L_1-approximation and bounds for Peano kernels. (English summary) **93i:65040**
Popescu, Marin *see* **Dragoş, Lazăr, 93h:65037**
Rasputin, G. G. The reproducing kernel method for constructing cubature formulas for an invariant integral. (Russian)
Samokish, B. A. A quadrature formula with a Chebyshev weight of the second kind that is optimal in H_2. (Russian. Russian summary) **93i:65041**
Schmid, H. J. *see* **Berens, H., 93h:65036**
Schwab, Christoph A note on variable knot, variable order composite quadrature for integrands with power singularities. (English summary) (*see* **93f:65006**)
Shabozov, M. Sh. Error estimates for quadrature formulas for some classes of functions. (Russian. Ukrainian summary) **93b:65048**
Sharipov, T. Kh. An optimal lattice cubature formula over the Mandelbrojt-Hörmander space $\widetilde{H}_1^a$. (Russian) (*see* **93m:00026**)
Sheshko, M. A. Cubature formulas for a singular integral on an open curve. (Russian. English and Russian summaries) **93k:65021**
Sloan, Ian H. *see* **Joe, Stephen, 93g:65034**
Smith, H. V. Asymptotic global error bounds for integrals of univalent functions. (English summary)
Stoyanova, S. B. Cubature formulas of fifteenth-degree accuracy for a hypersphere. (Russian. Russian summary)
Temlyakov, V. N. Error estimates for Fibonacci quadrature formulas for classes of functions with a bounded mixed derivative. (Russian) **93a:65027**
Tittelbach-Helmrich, K. Closed-type quadrature formula for an improper parameter integral.
Tsvetkov, V. I. (*with* Lipskiĭ, L. A.) Generalized quadrature formulas based on orthogonal Legendre polynomials. (Russian. English and Russian summaries) **93g:65035**
Waadeland, Haakon A Szegő quadrature formula for the Poisson formula. (English summary) **93k:65022**

Items with secondary classifications in 65D32

Bajnok, Bela *see* **Rabau, Patrick, 93c:41044**
Bazarkhanov, D. B. Best quadrature formulas for improper integrals on certain classes of differentiable functions. (Russian) **93d:41024**
Berry, Michael W. (*with* Golub, Gene H.) Estimating the largest singular values of large sparse matrices via modified moments. **93a:65046**
Camacho Machín, M. (*with* González-Vera, Pablo; Pérez-Acosta, Francisco) Quadratures on the unit circle: algebraic aspects. (Spanish. English summary) **93e:41039**
Chin, Raymond C. Y. A domain decomposition method for generating orthogonal polynomials for a Gaussian weight on a finite interval. **93a:33016**
Dryanov, Dimiter P. Optimal quadrature formulae on the real line. **93g:41025**
Dubinin, V. V. Cubature formulas for classes of functions with bounded mixed difference. (Russian. Russian summary) **93m:41026**
Eggermont, P. P. B. On the quadrature error in operational quadrature methods for convolutions. **93d:65112**
Frappier, Clément (*with* Olivier, Patrick) A quadrature formula involving zeros of Bessel functions. **93d:41025**
Gautschi, Walter Spline approximation and quadrature formulae. **93h:65016**
Golub, Gene H. *see* **Berry, Michael W., 93a:65046**
González-Vera, Pablo *see* **Camacho Machín, M.; et al., 93e:41039** *and* **Santos León, Juan C., 93e:41041**
Hasegawa, Takemitsu (*with* Sugiura, Hiroshi; Torii, Tatsuo) Positivity of the weights of extended Clenshaw-Curtis quadrature rules. (English summary) **93h:65032**
Joe, Stephen (*with* Sloan, Ian H.) On computing the lattice rule criterion R. **93b:65042**
Kalaida, A. F. Matrix algorithms for the numerical integration of rapidly oscillating functions. (Russian) **93b:65043**
Korobov, N. M. ★ Exponential sums and their applications. **93a:11068**
Kzaz, M. Convergence acceleration of some Gaussian quadrature formulas for analytic functions. (English summary) **93j:65004**
Martin, Clyde Franklin (*with* Stamp, Mark) Gaussian quadrature and linear systems. **93a:41054**
Mitrea, Alexandru-Ioan On the divergence of simple generalized quadratures. **93g:41026**
O'Hara, H. *see* **Smith, F. J., (93j:00007)**
Olivier, Patrick *see* **Frappier, Clément, 93d:41025**
Pérez-Acosta, Francisco *see* **Camacho Machín, M.; et al., 93e:41039**
Polovinkin, V. I. Realization of compactly supported functionals in $L_p^m(E_n)$. (Russian) **93a:46062**

Rabau, Patrick (*with* Bajnok, Bela) Bounds for the number of nodes in Chebyshev type quadrature formulas. **93c:41044**
Rahman, Q. I. (*with* Schmeisser, Gerhard) Characterization of functions in terms of rate of convergence of a quadrature process. II. Case of nonperiodic functions. **93f:41025**
Rasputin, G. G. Orthogonal polynomials and some cubature formulas for an integral with radially symmetric weight. (Russian)
Reimer, Manfred On the existence problem for Gauss-quadrature on the sphere. **93j:41017**
Reztsov, A. V. Nonnegative trigonometric polynomials of several variables, and cubature formulas of Gaussian type. (Russian) **93f:41044**
Santos León, Juan C. (*with* González-Vera, Pablo) Stieltjes-type functions and elementary quadrature formulas. I. (English summary) **93e:41041**
Schmeisser, Gerhard *see* **Rahman, Q. I., 93f:41025**
(Shakhov, Yu. N.) *see* **Korobov, N. M., 93a:11068**
Sloan, Ian H. *see* **Joe, Stephen, 93b:65042**
Smith, F. J. (*with* O'Hara, H.) Failure probability for error estimates to quadrature formulae. (English summary) (*see* **93j:00007**)
Stamp, Mark *see* **Martin, Clyde Franklin, 93a:41054**
Sugiura, Hiroshi *see* **Hasegawa, Takemitsu; et al., 93h:65032**
Torii, Tatsuo *see* **Hasegawa, Takemitsu; et al., 93h:65032**

65D99 None of the above, but in this section

Bernardi, Christine (*with* Dauge, Monique; Maday, Yvon) Relèvements de traces préservant les polynômes. (English and French summaries) [Trace liftings which preserve polynomials] **93g:65036**
Dauge, Monique *see* **Bernardi, Christine; et al., 93g:65036**
Girosi, Federico Some extensions of radial basis functions and their applications in artificial intelligence. (English summary) **93j:65041**
Lin, Qun (*with* Zhou, Ai Hui) Defect correction for finite element gradient. (English summary) **93h:65039**
Liu, Shu Tang (*with* Yang, Ju Ping) Computation of long convolutions through Mersenne number transforms. (Chinese. English and Chinese summaries) **93k:65023**
Maday, Yvon *see* **Bernardi, Christine; et al., 93g:65036**
McGarva, John (*with* Mullineux, Glen) Harmonic representation of closed curves. (English summary)
Micchelli, Charles A. (*with* Pinkus, Allan) Descartes systems from corner cutting. **93f:65026**
Mullineux, Glen *see* **McGarva, John**
Nunemacher, Jeffrey On computing Euler's constant. **93j:65042**
Pinkus, Allan *see* **Micchelli, Charles A., 93f:65026**
Yang, Ju Ping *see* **Liu, Shu Tang, 93k:65023**
Zhou, Ai Hui *see* **Lin, Qun, 93h:65039**

Items with secondary classifications in 65D99

An, Myoung *see* **Tolimieri, Richard; et al., 93i:65131**
Berger, Marc A. IFS algorithms for wavelet transforms, curves and surfaces, and image compression. (*see* **93e:62005**)
Bunch, K. J. (*with* Grow, R. W.) A compact cubic spline algorithm for converging to function minimums. (English summary)
Gröchenig, Karlheinz Reconstruction algorithms in irregular sampling. **93a:41025**
Grow, R. W. *see* **Bunch, K. J.**
Kiselev, O. N. (*with* Polyak, B. T.) Ellipsoidal estimation based on a generalized criterion. (Russian) **93b:93010**
Korneichuk, N. P. Encoding and recovery of operator values. **93d:41022**
Kuznichenko, V. M. Representation of functions from certain nonquasianalytic classes by generalized Taylor series. (Russian. English summary) **93c:26024**
Lu, Chao *see* **Tolimieri, Richard; et al., 93i:65131**
Niederhausen, Heinrich Fast Lagrange inversion, with an application to factorial numbers. **93d:05008**
Polyak, B. T. *see* **Kiselev, O. N., 93b:93010**
Prévost, Marc Dirac masses determination with orthogonal polynomials and ε-algorithm. Application to totally monotonic sequences. (English summary) **93i:41025**
Tolimieri, Richard (*with* An, Myoung; Lu, Chao) ★ Algorithms for discrete Fourier transform and convolution. **93i:65131**

65E05 Numerical methods in complex analysis (potential theory, etc.) {For numerical methods in conformal mapping, see 30C30.}

Billings, S. A. *see* **Tsang, K. M., 93a:65029**
Chaudhry, Maqsood A. (*with* Schinzinger, Roland) Numerical computation of the Schwarz-Christoffel transformation parameters for conformal mapping of arbitrarily shaped polygons with finite vertices. **93c:65036**
— An extended Schwarz-Christoffel transformation for numerical mapping of polygons with curved segments. **93c:65037**
Daripa, Prabir A fast algorithm to solve nonhomogeneous Cauchy-Riemann equations in the complex plane. (English summary) **93g:65037**
Schinzinger, Roland *see* **Chaudhry, Maqsood A., 93c:65036**
Sequeira, Fernando M. An algebra of discrete signals. (Portuguese. English summary) **93a:65028**
Tsang, K. M. (*with* Billings, S. A.) Orthogonal estimation algorithm for complex number systems. **93a:65029**
Zheng, Zhi Qiang An approximate method on the conformal mapping from a unit circle to an arbitrary curve. (Chinese. English and Chinese summaries) **93e:65038**

Items with secondary classifications in 65E05

Amano, Kaname A bidirectional method for numerical conformal mapping based on the charge simulation method. **93c:30011**
Ashyralyev, Ch. A variational method for solving a modified mixed boundary value problem for analytic functions. (Russian. Russian summary) **93f:76079**
Csordas, George (*with* Ruttan, Arden; Varga, Richard S.) The Laguerre inequalities with applications to a problem associated with the Riemann hypothesis. **93c:30041**
Fedotov, A. M. Theoretical justification of computational algorithms for problems of analytic continuation. (Russian. Russian summary) **93k:30069**
Georgiev, Peter Georgiev Algorithm for numerical conform transformation based on analogies with electrostatics. (Russian summary)
Greenbaum, Anne (*with* Greengard, Leslie; McFadden, G. B.) Laplace's equation and the Dirichlet-Neumann map in multiply connected domains. (English summary) **93m:65170**
Greengard, Leslie *see* **Greenbaum, Anne; et al., 93m:65170**
Henrici, Peter ★ Applied and computational complex analysis. Vol. 2. **93b:30001**
Lin, Jia Keng *see* **Wang, Lin Jiang, (93b:65008)**
McFadden, G. B. *see* **Greenbaum, Anne; et al., 93m:65170**
Papamichael, N. Two numerical methods for the conformal mapping of simply- and multiply-connected domains. **93e:30014**
— (*with* Stylianopoulos, N. S.) A domain decomposition method for conformal mapping onto a rectangle. **93a:30005**
— (*with* Stylianopoulos, N. S.) A domain decomposition method for approximating the conformal modules of long quadrilaterals. **93g:30008**
— *see also* **Computational complex analysis, 93m:00020**
Petković, M. S. Inclusion methods for the zeros of analytic functions. (English summary) **93j:65074**
Prössdorf, Siegfried (*with* Sloan, Ian H.) Quadrature method for singular integral equations on closed curves. **93c:65166**
Reemtsen, Rembert A cutting plane method for solving minimax problems in the complex plane. (English summary) **93j:65097**
Ruttan, Arden *see* **Csordas, George; et al., 93c:30041**
(Saff, E. B.) *see* **Computational complex analysis, 93m:00020**
Sloan, Ian H. *see* **Prössdorf, Siegfried, 93c:65166**
Stylianopoulos, N. S. *see* **Papamichael, N., 93a:30005** *and* **93g:30008**
Varga, Richard S. *see* **Csordas, George; et al., 93c:30041**
Volkov, E. A. Approximate conformal mapping by the block method of domains with a periodic structure. (Russian) **93f:30006**
Wang, Lin Jiang (*with* Lin, Jia Keng) Using complex series and boundary collocation method calculate elastic plane problem. (*see* **93b:65008**)

Items listed otherwise than by author

Computational complex analysis ★ Computational complex analysis. **93m:00020**
Special Issue:
Computational complex analysis ★ Computational complex analysis. **93m:00020**

65Fxx Numerical linear algebra

(Godunov, S. K.) *see* **Malyshev, A. N., 93j:65043**
Malyshev, A. N. ★ Введение в вычислительную линейную алгебру (с приложением алгоритмов на ФОРТРАНе). (Russian. Russian summary) [Introduction to computational linear algebra (with the application of algorithms in FORTRAN)] **93j:65043**
(Natori, Makoto) *see* **Parallel processing for matrix computation, 93e:65040** *and* **Parallel processing for scientific computing, 93f:65027**
(Nodera, T.) *see* **Parallel processing for matrix computation, 93e:65040** *and* **Parallel processing for scientific computing, 93f:65027**
Wittum, Gabriel ★ Filternde Zerlegungen. (German) [Filtering decompositions] **93e:65039**

Items listed otherwise than by author

Parallel processing for matrix computation ★ Parallel processing for matrix computation. (Japanese) **93e:65040**
Parallel processing for scientific computing ★ Parallel processing for scientific computing. (Japanese) **93f:65027**
Symposium:
PCG (Preconditioned Conjugate Gradients) ★ Parallel processing for matrix computation. (Japanese) **93e:65040**
— ★ Parallel processing for scientific computing. (Japanese) **93f:65027**
Yokohama ★ Parallel processing for matrix computation. (Japanese) **93e:65040**
— ★ Parallel processing for scientific computing. (Japanese) **93f:65027**

Items with secondary classifications in 65Fxx

Alpert, Bradley K. Construction of simple multiscale bases for fast matrix operations. (*see* **93e:00031**)
Belyankov, A. Ya. ★ Метод исчерпывания в вычислительной линейной алгебре. (Russian. Russian summary) [The exhaustion method in numerical linear algebra] **93g:65081**
(Dongarra, Jack J.) *see* **Parallel processing for scientific computing, 93g:65178**
Golub, Gene H. A history of modern numerical linear algebra. **93c:65002**
Jennings, Alan (*with* McKeown, J. J.) ★ Matrix computation. **93m:65002**
Jiang, Zeng Rong *see* **Li, Xiao Mei, 93k:65116**
(Kennedy, Ken) *see* **Parallel processing for scientific computing, 93g:65178**
Killingbeck, John P. ★ Microcomputer algorithms.
Li, Xiao Mei (*with* Jiang, Zeng Rong) ★ Bingxing suanfa. (Chinese. English and Chinese summaries) [Parallel algorithms] **93k:65116**
McKeown, J. J. *see* **Jennings, Alan, 93m:65002**
(Messina, Paul) *see* **Parallel processing for scientific computing, 93g:65178**
(Sorensen, Danny C.) *see* **Parallel processing for scientific computing, 93g:65178**
(Voigt, Robert G.) *see* **Parallel processing for scientific computing, 93g:65178**

Items listed otherwise than by author

Conference:
Parallel Processing for Scientific Computing ★ Parallel processing for scientific computing. **93g:65178**
Houston, TX ★ Parallel processing for scientific computing. **93g:65178**

Parallel processing for scientific computing ★ Parallel processing for scientific computing. **93g:65178**

65F05 Direct methods for linear systems and matrix inversion

Abramchuk, V. S. Directed search methods for solving the systems $Ax = f$. (Russian. English summary) **93c:65038**

Bai, Zhao Jun (*with* Hu, D. Y.; Reichel, Lothar) An implementation of the GMRES method using QR factorization. (English summary) (*see* **93g:65178**)

Bencharif, N. (*with* Ng, S. F.) Method of change of variable decomposition to solve and invert a system of linear equations. **93a:65030**

Bethke, D. *see* **Herzberger, Jürgen, 93c:65040**

Bischof, Christian H. (*with* Pan, Ching-Tsuan; Tang, Ping Tak Peter) A Cholesky up- and downdating algorithm for systolic and SIMD architectures. (English summary)

Björck, Å. Pivoting and stability in the augmented system method. (*see* **93b:65005**)

Blatov, I. A. Estimates for elements of inverse matrices and modifications of the matrix sweep method. (Russian) **93j:65044**

Bunch, James R. Matrix properties of the Levinson and Schur algorithms. (English summary) **93h:65040**

Cabaleiro, J. C. (*with* Rivera, F. F.; Plata, O. G.; Zapata, E. L.) A parallel algorithm for Householder's tridiagonalization of a symmetric matrix.

Calvetti, Daniela (*with* Reichel, Lothar) A Chebyshev-Vandermonde solver. **93c:65039**

Castro González, Nieves Analysis of the multilevel method with overcorrection by aggregation via an algebraic interpretation. (Spanish. English summary) **93a:65031**

Chan, Tony F. C. (*with* Hansen, Per Christian) A look-ahead Levinson algorithm for indefinite Toeplitz systems. **93a:65032**

Chen, Guang Jun *see* **Xiu, Nai Hua, 93m:65041**

Cocks, J. A. *see* **Wu, Shi Yu; et al., 93e:65049**

Dattatreya Rao, A. V. *see* **Ramabhadrasarma, Ivatury; et al., 93b:65051**

Demidovich, A. K. Invariance of Brauer pivoting with respect to elimination of orthogonal components. (Russian. English and Russian summaries) **93g:65038**

Deng, Jian Xin The rank-k updating algorithm for the exact inversion of matrices with integer elements. (English summary) **93g:65039**

Finck, Tilo (*with* Heinig, Georg; Rost, Karla) An inversion formula and fast algorithms for Cauchy-Vandermonde matrices. (English summary) **93m:65034**

Freund, Roland W. (*with* Zha, Hong Yuan) A look-ahead algorithm for the solution of general Hankel systems. (English summary) **93m:65035**

Gilbert, John R. (*with* Schreiber, Robert) Highly parallel sparse Cholesky factorization. **93g:65040**

Guo, Zhong A block order-descending criterion for matrices and solutions to the inverse problem for $Ax = b$. (Chinese. English and Chinese summaries) **93i:65042**

Hagelstein, Peter L. *see* **Kaushik, Sumanth, 93c:65042**

Hansen, Per Christian *see* **Chan, Tony F. C., 93a:65032**

Heinig, Georg *see* **Finck, Tilo; et al., 93m:65034**

Helmke, Uwe (*with* Moore, John Barratt) Singular-value decomposition via gradient and self-equivalent flows. **93m:65036**

Herzberger, Jürgen (*with* Bethke, D.) On two algorithms for bounding the inverses of an interval matrix. (English and Russian summaries) **93c:65040**

Higham, Desmond J. (*with* Higham, Nicholas J.) Componentwise perturbation theory for linear systems with multiple right-hand sides. (English summary) **93e:65041**

Higham, Nicholas J. Stability of a method for multiplying complex matrices with three real matrix multiplications. **93a:65033**

— *see also* **Higham, Desmond J., 93e:65041**

Hodel, A. Scottedward (*with* Poolla, Kameshwar) Parallel solution of large Lyapunov equations. (English summary) **93e:65042**

Hong, Yoo Pyo (*with* Pan, Ching-Tsuan) Rank-revealing QR factorizations and the singular value decomposition. **93d:65031**

Howell, Gary W. *see* **Sen, Syamal Kumar, 93k:65025**

Hu, D. Y. (*with* Reichel, Lothar) Krylov-subspace methods for the Sylvester equation. **93c:65041**

— *see also* **Bai, Zhao Jun; et al., (93g:65178)**

Ichim, Ion Une généralisation de la méthode du gradient avec le reste minimum. [A generalization of the gradient method with minimum remainder] **93e:65043**

Ivanov, Ivan Ganchev Parallel numerical algorithm for spectral problem of block Hermitian matrices. (English summary) **93m:65037**

Jayanthi, C. S. *see* **Wu, Shi Yu; et al., 93e:65049**

Jones, Mark T. (*with* Patrick, Merrell L.) Bunch-Kaufman factorization for real symmetric indefinite banded matrices. (English summary)

Kaushik, Sumanth (*with* Hagelstein, Peter L.) The application of the preconditioned biconjugate gradient algorithm to NLTE rate matrix equations. **93c:65042**

Labahn, George Inversion components of block Hankel-like matrices. (English summary) **93j:65045**

Lasserre, J. B. Sur l'inversion de matrice. (English summary) [On matrix inversion] **93b:65049**

Lin, Yu Hua *see* **Wang, Guo Rong[1], 93m:65040**

Linzer, Elliot On the stability of solution methods for band Toeplitz systems. **93g:65041**

— On the stability of transform-based circular deconvolution. (English summary) **93e:65044**

Lioen, Walter M. (*with* Winter, Dik T.) Solving large dense systems of linear equations on systems with virtual memory and with cache.

Liu, Qin Sheng Some developments in methods for solving linear least squares problems. (Chinese) **93d:65032**

Lorenz, Jens *see* **Van de Velde, Eric F., 93b:65052**

Louter-Nool, Margreet Block-Cholesky for parallel processing. **93c:65043**

Lu, Yi Jun Applicability of the odd-even reduction algorithm and the Gaussian elimination odd-even reduction algorithm. (Chinese summary)

Luchini, P. (*with* Manzo, F.) A fast conformal mapping algorithm with no FFT. **93c:65044**

Luo, Jenn-Ching A new class of decomposition for inverting asymmetric and indefinite matrices. (English summary) **93m:65038**

Manzo, F. *see* **Luchini, P., 93c:65044**

Maslovskaya, L. V. Condition... for the applicability of the generalized Cholesky method. (Russian) **93b:65050**

Mathias, Roy (*with* Stewart, G. W.) A block QR algorithm and the singular value decomposition. (English summary) **93k:65024**

Mayer, Günter Old and new aspects for the interval Gaussian algorithm. (English summary) (*see* **93e:00022**)

Mbala Hikolo, A. *see* **Onana, A.**

Moore, John Barratt *see* **Helmke, Uwe, 93m:65036**

Myagchilov, S. V. (*with* Tyrtyshnikov, E. E.) A fast matrix-vector multiplier in discrete vortex method. (English summary)

Nagy, James G. (*with* Plemmons, Robert J.) An inverse factorization algorithm for linear prediction. **93g:65042**

Neal, Larry (*with* Poole, George) A geometric analysis of Gaussian elimination. II. **93g:65043**

Ng, S. F. *see* **Bencharif, N., 93a:65030**

Onana, A. (*with* Mbala Hikolo, A.) A direct solver for a class of symmetric linear systems. (English summary)

Pan, Ching-Tsuan *see* **Hong, Yoo Pyo, 93d:65031** *and* **Bischof, Christian H.; et al.**

Parter, Seymour V. Remarks on the solution of Toeplitz systems of equations. (*see* **93b:65007**)

Patrick, Merrell L. *see* **Jones, Mark T.**

Piskulijski, Plamen Rounding analysis of parallel algorithm for the solution of a tridiagonal linear system of equations. (English and Russian summaries)

Plata, O. G. *see* **Cabaleiro, J. C.; et al.**

Plemmons, Robert J. *see* **Nagy, James G., 93g:65042**

Poole, George *see* **Neal, Larry, 93g:65043**

Poolla, Kameshwar *see* **Hodel, A. Scottedward, 93e:65042**

Ramabhadrasarma, Ivatury (*with* Dattatreya Rao, A. V.; Venkata Ramana, K.) On LU decomposition of a centrosymmetric matrix. **93b:65051**

Reichel, Lothar *see* **Calvetti, Daniela, 93c:65039; Hu, D. Y., 93c:65041** *and* **Bai, Zhao Jun; et al., (93g:65178)**

Rivera, F. F. *see* **Cabaleiro, J. C.; et al.**

Robinson, P. D. (*with* Wathen, A. J.) Variational bounds on the entries of the inverse of a matrix. (English summary) **93g:65044**

Rost, Karla *see* **Finck, Tilo; et al., 93m:65034**

Rump, Siegfried M. Inclusion of the solution for large linear systems with M-matrix. (English and Russian summaries) **93e:65045**

Sagae, Masahiko *see* **Tanabe, Kunio, 93a:65034**

Schreiber, Robert *see* **Gilbert, John R., 93g:65040**

Sen, Syamal Kumar (*with* Howell, Gary W.) Direct fail-proof triangularization algorithms for $AX + XB = C$ with error-free and parallel implementations. **93k:65025**

Sharyi, S. P. Solvability of the linear tolerance problem. (Russian. English and Russian summaries) **93e:65046**

— Optimal solution of interval linear algebraic systems. I. (English and Russian summaries) **93h:65041**

Sheng, Qin *see* **Yap, V. B., 93h:65042**

Shishkin, S. A. On the extension of the possibilities of matrix inversion procedures. (Russian) **93e:65047a**

— Letter to the editors: "On the extension of the possibilities of matrix inversion procedures". (Russian) **93e:65047b**

Shishkina, O. V. A parallel zonal partitioning method. (Russian) **93e:65048**

Spedicato, Emilio (*with* Vespucci, Maria Teresa) Variations on the Gram-Schmidt and the Huang algorithms for linear systems: a numerical study. (English summary) **93k:65026**

Stewart, G. W. Updating a rank-revealing ULV decomposition. (English summary) **93m:65039**

— *see also* **Mathias, Roy, 93k:65024**

Takahashi, Kimio Parallelizing Gaussian elimination on PAX. (Japanese. English and Japanese summaries) (*see* **93e:65040**)

Tanabe, Kunio (*with* Sagae, Masahiko) Pivoting strategy for rank-one modification of LDM^t-like factorization. **93a:65034**

Tang, Ping Tak Peter *see* **Bischof, Christian H.; et al.**

Tommasini Montanari, Tamara A new algorithm for special Vandermonde systems. (English summary) **93g:65045**

Tsao, Nai Kuan An accurate tridiagonal equation solver. **93a:65035**

Tuniev, A. D. The directional vector method and its applications. (Russian. English and Ukrainian summaries) **93j:65046**

Tyrtyshnikov, E. E. *see* **Myagchilov, S. V.**

Van de Velde, Eric F. (*with* Lorenz, Jens) Adaptive data distribution for concurrent continuation. **93b:65052**

Venkata Ramana, K. *see* **Ramabhadrasarma, Ivatury; et al., 93b:65051**

Vespucci, Maria Teresa *see* **Spedicato, Emilio, 93k:65026**

Wang, Guo Rong[1] (*with* Lin, Yu Hua) A new extension of Leverrier's algorithm. (English summary) **93m:65040**

Wathen, A. J. *see* **Robinson, P. D., 93g:65044**

Winter, Dik T. *see* **Lioen, Walter M.**

Wright, Stephen Joseph A collection of problems for which Gaussian elimination with partial pivoting is unstable. (English summary) **93j:65047**

Wu, Shi Yu (*with* Cocks, J. A.; Jayanthi, C. S.) An accelerated inversion algorithm using the resolvent matrix method. (English summary) **93e:65049**

Xie, Dong Xiu *see* **Zhang, Lei[1], 93c:65045**

Xiu, Nai Hua (*with* Chen, Guang Jun) Optimality of updating matrices of Abaffy-Broyden-Spedicato algorithms. (Chinese. English and Chinese summaries) **93m:65041**

Yang, Xiang Yu A note on least-square solutions of inverse eigenvalue problems. (Chinese. English summary)

Yap, V. B. (*with* Sheng, Qin) Numerical solutions of systems of linear equations. **93h:65042**

Zapata, E. L. *see* **Cabaleiro, J. C.; et al.**

Zha, Hong Yuan *see* **Freund, Roland W., 93m:65035**

Zhang, Bao Shan A further discussion on the inverse problem for the system of linear algebraic equations $Ax = b$. (Chinese)

Zhang, Lei[1] (*with* Xie, Dong Xiu) The least-square problem for rotation of subspaces. (Chinese. English summary) **93c:65045**

Items with secondary classifications in 65F05

Amodio, P. (*with* Brugnano, L.) Parallel factorizations and parallel solvers for tridiagonal linear systems. **93b:15014**

— Optimized cyclic reduction for the solution of linear tridiagonal systems on parallel computers. (English summary)

Bartels, Sven G. (*with* Higham, Desmond J.) The structured sensitivity of Vandermonde-like systems. **93e:65071**

Belsley, David A. Paring 3SLS calculations down to manageable proportions. (English summary)

Bennett, Karin R. *see* **Majaess, Fouad; et al., 93a:65002** *and* **93a:65003**

Björck, Å. (*with* Paige, C. C.) Loss and recapture of orthogonality in the modified Gram-Schmidt algorithm. **93c:65056**

Brugnano, L. *see* **Amodio, P., 93b:15014**

Chang, Qian Shun (*with* Wong, Yau Shu; Li, Zheng Feng) New interpolation formulas of using geometric assumptions in the algebraic multigrid method. **93d:65014**

Coleman, Thomas F. (*with* Plassmann, Paul E.) A parallel nonlinear least-squares solver: theoretical analysis and numerical results. **93a:65068**

Dackland, Krister (*with* Elmroth, Erik; Kågström, Bo; Van Loan, Charles) Design and evaluation of parallel block algorithms: *LU* factorization on an IBM 3090 VF/600J. (English summary) (*see* **93g:65178**)

Detournay, Christine A Cauchy integral element method for boundary singularities. (English summary) (*see* **93b:65002**)

Dimov, Ivan T. Minimization of the probable error for some Monte Carlo methods. (*see* **93a:65004**)

Dodson, David S. (*with* Levin, Stewart A.) A tricyclic tridiagonal equation solver. (English summary) **93g:65176**

Eisenstat, Stanley C. (*with* Liu, Joseph W. H.) Exploiting structural symmetry in a sparse partial pivoting code. (English summary)

Elmroth, Erik *see* **Dackland, Krister; et al., (93g:65178)**

Êm Ren Zin *see* **Odintsov, V. G.; et al.**

Fairweather, Graeme *see* **Majaess, Fouad; et al., 93a:65002** *and* **93a:65003**

Favati, P. (*with* Lotti, Grazia; Romani, Francesco; Rózsa, Pál) Generalized band matrices and their inverses. (English summary) **93d:15006**

Glazunov, N. M. (*with* Khodzhiev, Sh. Kh.) Interval extensions of direct methods for solving degenerate systems of linear algebraic equations. (Russian. Russian summary)

Gower, J. C. (*with* Groenen, P. J. F.) Applications of the modified Leverrier-Faddeev algorithm for the construction of explicit matrix spectral decompositions and inverses. **93e:65058**

Groenen, P. J. F. *see* **Gower, J. C., 93e:65058**

Hansen, Eldon Bounding the solution of interval linear equations. (English summary) **93e:65075**

Higham, Desmond J. *see* **Bartels, Sven G., 93e:65071**

Hromadka, T. V., II Complex variable boundary element method error analysis using Taylor series. (English summary) (*see* **93b:65002**)

Jansson, C. Rigorous sensitivity analysis for real symmetric matrices with uncertain data. (English summary) **93h:65066**

Kågström, Bo *see* **Dackland, Krister; et al., (93g:65178)**

Keast, Patrick *see* **Majaess, Fouad; et al., 93a:65002** *and* **93a:65003**

Khodzhiev, Sh. Kh. *see* **Glazunov, N. M.**

Klafszky, Emil (*with* Terlaky, Tamás) The role of pivoting in proving some fundamental theorems of linear algebra. **93a:15030**

Levin, Stewart A. *see* **Dodson, David S., 93g:65176**

Li, Zheng Feng *see* **Chang, Qian Shun; et al., 93d:65014**

Liu, Joseph W. H. *see* **Eisenstat, Stanley C.**

Lotti, Grazia *see* **Favati, P.; et al., 93d:15006**

Majaess, Fouad (*with* Keast, Patrick; Fairweather, Graeme; Bennett, Karin R.) The solution of almost block diagonal linear systems arising in spline collocation at Gaussian points with monomial basis functions. **93a:65002**

— (*with* Keast, Patrick; Fairweather, Graeme; Bennett, Karin R.) Algorithm 704: ABD-PACK and ABBPACK-FORTRAN programs for the solution of almost block diagonal linear systems arising in spline collocation at Gaussian points with monomial basis functions. **93a:65003**

Milovanović, E. I. *see* **Stojčev, M. K.; et al., (93c:93005)**

Milovanović, Igor Ž. *see* **Stojčev, M. K.; et al., (93c:93005)**

Moonen, Marc (*with* Van Dooren, Paul; Vandewalle, Joos) A singular value decomposition updating algorithm for subspace tracking. (English summary) **93g:65053**

Nemirovskii, A. S. Information-based complexity of linear operator equations. **93e:65163**

Odintsov, V. G. (*with* Rakhmonov, T. T.; Êm Ren Zin) ★ Изучение свойств блочно-диагональных и блочно-трехдиагональных окаймленных матриц. (Russian. English and Russian summaries) [A study of block-diagonal and block-tridiagonal bordered matrices]

Paige, C. C. *see* **Björck, Å., 93c:65056**

Pan, Victor Complexity of computations with matrices and polynomials. **93g:65179**

Plassmann, Paul E. *see* **Coleman, Thomas F., 93a:65068**

Rakhmonov, T. T. *see* **Odintsov, V. G.; et al.**

Reith, Roman Verified solutions of linear systems on transputer networks. (English summary) (*see* **93e:00022**)

Rex, G. Zu a posteriori Fehlerabschätzungen bei linearen Gleichungssystemen. [On a posteriori error estimates in systems of linear equations] **93h:65069**

Rodman, Leiba (*with* Shalom, Tamir) On inversion of symmetric Toeplitz matrices. **93d:15038**

Romani, Francesco *see* **Favati, P.; et al., 93d:15006**

Rost, Karla Möbius transformations, matrix representations for generalized Bezoutians, and fast algorithms for displacement structured systems of equations. **93b:65072**

Rózsa, Pál *see* **Favati, P.; et al., 93d:15006**

Rump, Siegfried M. On the solution of interval linear systems. (German summary) **93a:65062**

Shalom, Tamir *see* **Rodman, Leiba, 93d:15038**

Stojčev, M. K. (*with* Milovanović, E. I.; Milovanović, Igor Ž.) A procedure for multiplication of concatenated matrices. (English summary) (*see* **93c:93005**)

Sun, Ji Guang Componentwise perturbation bounds for some matrix decompositions. (English summary) **93k:15022**

— Rounding-error and perturbation bounds for the Cholesky and LDL^T factorizations. **93g:65058**

Terlaky, Tamás *see* **Klafszky, Emil, 93a:15030**

Tsao, Nai Kuan On the accuracy of solving triangular systems in parallel. II. **93b:65219**

Vainikko, Gennadi Solution of large systems arising by discretization of multidimensional weakly singular integral equations. (Russian summary) **93c:65167**

Vandewalle, Joos *see* **Moonen, Marc; et al., 93g:65053**

Van Dooren, Paul *see* **Moonen, Marc; et al., 93g:65053**

Van Loan, Charles *see* **Dackland, Krister; et al., (93g:65178)**

Wei, Wan Di (*with* Zhang, Fu Ji) The explicit expression of recurrence relations. (Chinese summary) **93f:39006**

Wong, Yau Shu *see* **Chang, Qian Shun; et al., 93d:65014**

Wright, Stephen Joseph Stable parallel algorithms for two-point boundary value problems. **93a:65099**

Yuan, Jin Yun (*with* Zhou, Rong Fu) A study on comparison theorems for matrix splittings. (Chinese. English and Chinese summaries)

Zhang, Fu Ji *see* **Wei, Wan Di, 93f:39006**

Zhou, Rong Fu *see* **Yuan, Jin Yun**

Zhu, Hai Yan Fast methods for computing the values of the derivatives of a rational function. **93b:65041**

65F10 Iterative methods for linear systems [see also 65N22]

Arioli, Mario (*with* Duff, I. S.; Ruiz, Daniel; Sadkane, Miloud) Techniques for accelerating the block Cimmino method. (English summary) (*see* **93g:65178**)

Axelsson, Owe On algebraic multilevel iteration methods for selfadjoint elliptic problems with anisotropy. **93d:65033**

Bramble, James H. (*with* Leyk, Zbigniew; Pasciak, Joseph E.) Iterative schemes for nonsymmetric and indefinite elliptic boundary value problems. **93d:65034**

Brezinski, Claude (*with* Redivo Zaglia, Michela; Sadok, H.) A breakdown-free Lanczos type algorithm for solving linear systems. (English summary) **93f:65028**

Censor, Yair On variable block algebraic reconstruction techniques. (English summary) (*see* **93d:44001**)

Chan, Raymond H. (*with* Yeung, Man-Chung) Jackson's theorem and circulant preconditioned Toeplitz systems. **93c:65046**

— (*with* Yeung, Man-Chung) Circulant preconditioners constructed from kernels. **93f:65029**

— (*with* Jin, Xiao-Qing) A family of block preconditioners for block systems. (English summary) **93e:65050**

Chou, Mo Hong An efficient scheme for unsteady flow past an object with boundary conformal to a circle. **93b:65053**

Cvetković, Ljiljana *see* **Herceg, Dragoslav, 93d:65036**

D'Azevedo, E. F. (*with* Forsyth, P. A.; Tang, Wei Pai) Towards a cost-effective ILU preconditioner with high level fill. (English summary) **93e:65051**

— (*with* Forsyth, P. A.; Tang, Wei Pai) Ordering methods for preconditioned conjugate gradient methods applied to unstructured grid problems. **93b:65054**

Doi, Shun A Gustafsson-type modification for parallel ordered incomplete *LU* factorizations. (English summary) (*see* **93e:65040**)

— *see also* **Washio, T.; et al., (93f:65027)**

Dostál, Zdeněk Domain decomposition and PDE with periodic boundary conditions. (English summary) (*see* **93g:65009**)

Douglas, Craig C. (*with* Douglas, Jim, Jr.) A greatly simplified theory for parallel multigrid or projection methods. (English summary) (*see* **93g:65178**)

Douglas, Jim, Jr. *see* **Douglas, Craig C., (93g:65178)**

Duff, I. S. *see* **Arioli, Mario; et al., (93g:65178)**

Eiermann, Michael J. (*with* Marek, Ivo; Niethammer, Wilhelm) On semi-iterative methods for the solution of singular linear systems. (*see* **93b:65007**)

— (*with* Niethammer, Wilhelm; Varga, Richard S.) Acceleration of relaxation methods for non-Hermitian linear systems. **93e:65052**

Ferng, William R. An iterative Lanczos-based condition estimator. (English summary) (*see* **93g:65178**)

Forsyth, P. A. *see* **D'Azevedo, E. F.; et al., 93b:65054** *and* **93e:65051**

Freund, Roland W. (*with* Golub, Gene H.; Nachtigal, Noël M.) Iterative solution of linear systems. **93g:65046**

Frommer, Andreas (*with* Szyld, Daniel B.) *H*-splittings and two-stage iterative methods. (English summary) **93j:65048**

Fujino, Seiji (*with* Zhang, Shao Liang) Analysis on convergence behavior of the CGS and BI-CG STAB methods. (English summary) (*see* **93i:65006**)

— (*with* Zhang, Shao Liang) Visualization of convergence behavior of Bi-CG STAB method. II. (Japanese. English summary) (*see* **93f:65027**)

— *see also* **Zhang, Shao Liang; et al., (93e:65040)**

Galanis, Sofoklis (*with* Hadjidimos, Apostolos) Best cyclic repartitioning for optimal successive overrelaxation convergence. **93g:65047**

Galligani, Emanuele *see* **Ruggiero, Valeria, 93b:65060**

Golub, Gene H. *see* **Freund, Roland W.; et al., 93g:65046**

Greenbaum, Anne Diagonal scalings of the Laplacian as preconditioners for other elliptic differential operators. **93c:65047**

Guo, Y. H. *see* **Padovan, Joe; et al., 93e:65055**

Gutknecht, Martin H. A completed theory of the unsymmetric Lanczos process and related algorithms. I. **93e:65053**

Hackbusch, Wolfgang A parallel conjugate gradient method. (English summary) **93k:65027**

Hadjidimos, Apostolos (*with* Psimarni, A.; Yeyios, A. K.) On the convergence of the modified accelerated overrelaxation (MAOR) method. **93a:65036**

— *see also* **Galanis, Sofoklis, 93g:65047**

Han, Hou De (*with* Il'in, V. P.; Kellogg, R. B.; Yuan, Wei) Analysis of flow directed iterations. **93c:65048**

Herceg, Dragoslav A note on iterative process for solving linear systems of equations. (Serbo-Croatian summary) **93d:65035**
— (*with* Cvetković, Ljiljana) On an iterative method for a system of equations. (Serbo-Croatian summary) **93d:65036**
Herzberger, Jürgen Iterative inclusion of the inverse matrix. **93d:65037**
Holmgren, S. (*with* Otto, Kurt) Iterative solution methods and preconditioners for block-tridiagonal systems of equations. **93a:65037**
Huckle, Thomas A note on skewcirculant preconditioners for elliptic problems. (English summary) **93g:65048**
Il'in, V. P. On the rate of convergence of iterations of implicit incomplete factorization methods. (Russian. Russian summary) **93j:65049**
— *see also* **Han, Hou De; et al., 93c:65048**
James, Douglas Implicit nullspace iterative methods for constrained least squares problems. **93b:65055**
Jiang, Chang Jin (*with* Li, Shao Jiang) On iterative method with multi-parameters for numerical solution of linear systems. (English summary) (*see* **93d:65004**)
Jiang, Hong[1] (*with* Wong, Yau Shu) A parallel alternating direction implicit preconditioning method. **93b:65056**
Jin, Xiao-Qing *see* **Chan, Raymond H., 93e:65050**
Joubert, Wayne Lanczos methods for the solution of nonsymmetric systems of linear equations. **93e:65054**
Kaporin, I. E. Iterative solution of systems of linear equations with the application of incomplete inverse triangular decomposition. (Russian. Russian summary) **93g:65049**
— Two-level explicit preconditionings for the conjugate gradient method. (Russian. Russian summary) **93f:65030**
Kellogg, R. B. *see* **Han, Hou De; et al., 93c:65048**
Kincaid, David R. (*with* Young, David M.) Stationary second-degree iterative methods and recurrences. **93d:65038**
Kolotilina, L. Yu. (*with* Polman, Ben) On incomplete block factorization methods of generalized SSOR type for H-matrices. (English summary) **93k:65028**
Krishna, Lala *see* **Padovan, Joe; et al., 93e:65055**
Ku, Takang (*with* Kuo, C.-C. Jay) A minimum-phase LU factorization preconditioner for Toeplitz matrices. (English summary) **93h:65043**
Kuo, C.-C. Jay *see* **Ku, Takang, 93h:65043**
Kutrunov, V. N. A polynomial of best uniform approximation in an iterative method for solving systems of linear algebraic equations. (Russian) **93b:65057**
Lazzaro, D. *see* **Puccio, L., 93c:65052**
Leite, J. B. An iterative method for the solution of linear algebraic systems. (English and Portuguese summaries) **93g:65050**
Leyk, Zbigniew *see* **Bramble, James H.; et al., 93d:65034**
Li, Shao Jiang *see* **Jiang, Chang Jin, (93d:65004)**
Li, You Ming Estimates of $\|B^{-1}A\|$ and their applications. (Chinese. English summary) **93c:65049**
Liu, Xing Ping Convergence of some iterative methods. (Chinese. English summary)
Magolu, Monga-Made Lower eigenvalue bounds for singular pencils of matrices. **93c:65050**
Marek, Ivo *see* **Eiermann, Michael J.; et al., (93b:65007)**
Martins, M. Madalena On a generalized iterative method for linear systems with matrices belonging to the class C_1. **93a:65038**
— (*with* Trigo, M. E.) Convergence conditions for some iterative methods. (English summary) (*see* **93j:00009**)
Mehrotra, Sanjay Implementations of affine scaling methods: approximate solutions of systems of linear equations using preconditioned conjugate gradient methods. (English summary)
Miekkala, Ulla (*with* Nevanlinna, Olavi) Quasinilpotency of the operators in Picard-Lindelöf iteration. **93d:65039**
Míka, Stanislav (*with* Vaněk, Petr) Acceleration of convergence of a two-level algebraic algorithm by aggregation in smoothing process. (English summary) **93g:65051**
Moszyński, Krzysztof Remarks on polynomial methods for solving systems of linear algebraic equations. (English summary) **93h:65044**
Nachtigal, Noël M. (*with* Reddy, Satish C.; Trefethen, Lloyd N.) How fast are nonsymmetric matrix iterations? **93a:65039**
— (*with* Reichel, Lothar; Trefethen, Lloyd N.) A hybrid GMRES algorithm for nonsymmetric linear systems. **93a:65040**
— *see also* **Freund, Roland W.; et al., 93g:65046**
Natarajan, Ramesh An Arnoldi-based iterative scheme for nonsymmetric matrix pencils arising in finite element stability problems. **93b:65058**
Nevanlinna, Olavi *see* **Miekkala, Ulla, 93d:65039**
Niethammer, Wilhelm *see* **Eiermann, Michael J.; et al., 93e:65052** *and* **(93b:65007)**
Oswald, Peter On a hierarchical basis multilevel method with nonconforming P1 elements. **93b:65059**
Otto, Kurt *see* **Holmgren, S., 93a:65037**
Oyanagi, Yoshio *see* **Zhang, Shao Liang; et al., (93e:65040)**
Padovan, Joe (*with* Krishna, Lala; Guo, Y. H.) Partitioned multiply scaled pseudo conjugate gradient schemes. (English summary) **93e:65055**
Pan, Victor Parametrization of Newton's iteration for computations with structured matrices and applications. **93a:65041**
— (*with* Schreiber, Robert) A fast, preconditioned conjugate gradient Toeplitz solver. (English summary) **93c:65051**
Pasciak, Joseph E. *see* **Bramble, James H.; et al., 93d:65034**
de Pillis, John A parallel iteration method and the convection-diffusion equation. **93a:65042**
Polman, Ben *see* **Kolotilina, L. Yu., 93k:65028**
Psimarni, A. *see* **Hadjidimos, Apostolos; et al., 93a:65036**
Puccio, L. (*with* Lazzaro, D.) Tikhonov regularization of ill-posed problems via cubic splines. (Italian. English summary) **93c:65052**
Qin, Ning *see* **Xu, Xue Rong; et al., 93d:65040**
Reddy, Satish C. *see* **Nachtigal, Noël M.; et al., 93a:65039**
Redivo Zaglia, Michela *see* **Brezinski, Claude; et al., 93f:65028**
Reichel, Lothar *see* **Nachtigal, Noël M.; et al., 93a:65040**
Richards, Bryan E. *see* **Xu, Xue Rong; et al., 93d:65040**
Ruggiero, Valeria (*with* Galligani, Emanuele) A parallel algorithm for solving block tridiagonal linear systems. **93b:65060**
Ruiz, Daniel *see* **Arioli, Mario; et al., (93g:65178)**
Rusten, Torgeir (*with* Winther, Ragnar) A preconditioned iterative method for saddlepoint problems. **93a:65043**
Saad, Youcef A flexible inner-outer preconditioned GMRES algorithm. (English summary)
Sadkane, Miloud *see* **Arioli, Mario; et al., (93g:65178)**
Sadok, H. *see* **Brezinski, Claude; et al., 93f:65028**
Schreiber, Robert *see* **Pan, Victor, 93c:65051**
Smith, Barry F. A parallel implementation of an iterative substructuring algorithm for problems in three dimensions. (English summary) **93m:65042**
Song, Yong Zhong Konvergenzkriterien für das verallgemeinerte AOR-Verfahren. [Criteria of convergence for the generalized AOR method] **93f:65031**
Starke, Gerhard (*with* Varga, Richard S.) A hybrid Arnoldi-Faber iterative method for nonsymmetric systems of linear equations. (English summary) **93m:65043**
Su, Yang Feng (*with* Zhu, Shi Dong) A model for parallel multisplitting chaotic iterations. (Chinese. English summary) **93b:65061**
Sun, Xiao Di Convergence of parallel multisplitting chaotic iterative methods. (Chinese. English summary) **93j:65050**
Suzuki, Toshio Inverse iteration method with a complex parameter. (English summary) (*see* **93f:65027**)
Szyld, Daniel B. *see* **Frommer, Andreas, 93j:65048**
Tanaka, T. *see* **Washio, T.; et al., (93f:65027)**
Tang, Wei Pai *see* **D'Azevedo, E. F.; et al., 93b:65054** *and* **93e:65051**
Tkachenko, A. I. Successive calculation of coordinates of a solution of the least squares problem. (Russian. Russian summary) **93f:65032**
Trefethen, Lloyd N. *see* **Nachtigal, Noël M.; et al., 93a:65039** *and* **93a:65040**
Trigo, M. E. *see* **Martins, M. Madalena, (93j:00009)**
Vaněk, Petr Acceleration of convergence of a two-level algorithm by smoothing transfer operators. (English summary) **93h:65045**
— *see also* **Míka, Stanislav, 93g:65051**
Varga, Richard S. *see* **Eiermann, Michael J.; et al., 93e:65052** *and* **Starke, Gerhard, 93m:65043**
Vavasis, Stephen A. Preconditioning for boundary integral equations. **93b:65062**
Wang, Jin Ming (*with* Zhang, De Tong) An iterative method for solving mixed finite element equations. (Chinese. English summary)
Washio, T. (*with* Doi, Shun; Tanaka, T.) Implementation and evaluation of ILU-preconditioned iterative methods on Cenju parallel computer. (Japanese. English summary) (*see* **93f:65027**)
Winther, Ragnar *see* **Rusten, Torgeir, 93a:65043**
Wong, Yau Shu *see* **Jiang, Hong[1], 93b:65056**
Woźnicki, Z. I. Estimation of the optimum relaxation factors in partial factorization iterative methods. (English summary) **93m:65044**
Wu, Jing Kun On variation of subdiagonal elements in a shifted QR iteration. (English summary) (*see* **93d:65004**)
Wu, Xian[2] *see* **Zhang, Yuan Ji, 93k:65030**
Xu, Jinchao Iterative methods by space decomposition and subspace correction. (English summary) **93k:65029**
Xu, Xue Rong (*with* Qin, Ning; Richards, Bryan E.) α-GMRES: a new parallelizable iterative solver for large sparse nonsymmetric linear systems arising from CFD. (English summary) **93d:65040**
Yeung, Man-Chung *see* **Chan, Raymond H., 93c:65046** *and* **93f:65029**
Yeyios, A. K. Optimum modified SOR (MSOR) method in a special case. (English summary) **93h:65046**
— *see also* **Hadjidimos, Apostolos; et al., 93a:65036**
Young, David M. *see* **Kincaid, David R., 93d:65038**
Yuan, Jin Yun *see* **Zhou, Rong Fu, 93a:65044**
Yuan, Wei *see* **Han, Hou De; et al., 93c:65048**
Zhan, Xin He *see* **Zhang, Shu Yuan, 93j:65051**
Zhang, De Tong *see* **Wang, Jin Ming**
Zhang, Shao Liang (*with* Fujino, Seiji; Oyanagi, Yoshio) Conjugate residual method for solving singular systems. (Japanese) (*see* **93e:65040**)
— *see also* **Fujino, Seiji, (93f:65027)** *and* **(93i:65006)**
Zhang, Shu Yuan (*with* Zhan, Xin He) Some convergence criteria for Jacobi iteration for block matrices. (Chinese. English and Chinese summaries) **93j:65051**
Zhang, Xuejun Multilevel Schwarz methods. (English summary) **93h:65047**
Zhang, Yuan Ji (*with* Wu, Xian[2]) An improvement on the convergence theorem of the N-P multisplitting iterative method. (Chinese. English summary) **93k:65030**
Zhou, Rong Fu (*with* Yuan, Jin Yun) A generalized TOR method and its convergence. (Chinese. English summary) **93a:65044**
Zhu, Shi Dong *see* **Su, Yang Feng, 93b:65061**

Items with secondary classifications in 65F10

Bethke, D. *see* **Herzberger, Jürgen, 93k:65040**
Bierlaire, M. (*with* Toint, Ph. L.; Tuyttens, D.) Errata: "On iterative algorithms for linear least squares problems with bound constraints" [Linear Algebra Appl. **143** (1991), 111–143; MR 91j:65109]. **93k:65053**
Brenner, Susanne C. A multigrid algorithm for the lowest-order Raviart-Thomas mixed triangular finite element method. **93j:65175**
Cai, Xiao-Chuan *see* **Xu, Jinchao, 93a:65059**
Carey, Graham *see* **Joubert, Wayne; et al., (93g:65178)**
Chan, Raymond H. (*with* Chan, Tony F. C.) Circulant preconditioners for elliptic problems. **93c:65131**
Chan, Tony F. C. (*with* Goovaerts, Danny) On the relationship between overlapping and nonoverlapping domain decomposition methods. **93a:65170**
— *see also* **Chan, Raymond H., 93c:65131**
Chronopoulos, Anthony T. (*with* Pernice, Michael) Vector preconditioned s-step methods on the IBM 3090/600S/6VF. (English summary) (*see* **93g:65178**)
Désidéri, J.-A. *see* **Guillard, H., (93d:65005)**

Eijkhout, Victor (*with* Margenov, Svetozar) Preconditioned iterative solution of spline finite element systems. **93a:65149**

Elsner, L. (*with* Koltracht, I.; Neumann, Michael) Convergence of sequential and asynchronous nonlinear paracontractions. **93d:65057**

Ewing, Richard E. (*with* Lazarov, R. D.; Vassilevski, Panayot S.) Finite difference schemes on grids with local refinement in time and in space for parabolic problems. Optimal order two-grid iterative methods. **93a:65113**

Fisher, P. G. (*with* Hughes-Hallett, A. J.) Nonstationary model solution techniques and the USA algorithm. (English summary) (*see* **93b:90009**)

Fix, George J. (*with* Kannan, Rangachary) A random direction algorithm for an intersection problem. (English and German summaries) **93g:65085**

Freund, Roland W. (*with* Hochbruck, M.) A biconjugate gradient-type algorithm for the iterative solution of non-Hermitian linear systems on massively parallel architectures. (English summary) (*see* **93j:00007**)

Frommer, Andreas (*with* Mayer, Günter) On the theory and practice of multisplitting methods in parallel computation. (English and German summaries) **93e:65158**

— Verallgemeinerte Diagonaldominanz bei nichtlinearen Funktionen. II. Anwendung auf asynchrone Iterationsverfahren und Beispiele. (English, German and Russian summaries) [Generalized diagonal dominance in nonlinear functions. II. Applications to asynchronous iteration methods and examples] **93j:65080**

Gallopoulos, E. (*with* Saad, Youcef) Efficient solution of parabolic equations by Krylov approximation methods. (English summary) **93d:65085**

Georgiev, Krassimir (*with* Margenov, Svetozar) On domain decomposition methods for problems with discontinuous coefficients. (English summary) (*see* **93e:00022**)

Gladwell, Ian *see* **Paprzycki, Marcin**, (**93g:65178**)

Godunov, S. K. A survey of criteria for the convergence of orthogonal-power processes. (Russian) (*see* **93b:65007**)

Goovaerts, Danny *see* **Chan, Tony F. C.**, **93a:65170**

Guillard, H. (*with* Désidéri, J.-A.) Iterative methods with spectral preconditioning for elliptic equations. (English summary) (*see* **93d:65005**)

Haase, Gundolf (*with* Langer, Ulrich[1]; Meyer, Arnd) The approximate Dirichlet domain decomposition method. I. An algebraic approach. (German summary) **93e:65146a**

— (*with* Langer, Ulrich[1]; Meyer, Arnd) The approximate Dirichlet domain decomposition method. II. Applications to 2nd-order elliptic BVPs. (German summary) **93e:65146b**

Hackbusch, Wolfgang The solution of large systems of BEM equations by the multi-grid and panel clustering technique. **93d:65104**

Hara, Veikko *see* **Liniger, Werner; et al.**, **93k:65085**

Heinreichsberger, O. (*with* Selberherr, S.; Stiftinger, M.) Three-dimensional MOS device simulation on a connection machine. (English summary) (*see* **93g:65178**)

Herzberger, Jürgen (*with* Petković, Ljiljana D.) On the construction of efficient interval Schulz's methods for bounding the inverse matrix. **93c:65065**

— (*with* Bethke, D.) Interval Schulz's methods: on the case of an interval matrix. (English summary) **93k:65040**

Highnam, Peter *see* **Joubert, Wayne; et al.**, (**93g:65178**)

Hochbruck, M. *see* **Freund, Roland W.**, (**93j:00007**)

Hodel, A. Scottedward (*with* Poolla, Kameshwar) Parallel solution of large Lyapunov equations. (English summary) **93e:65042**

Hughes-Hallett, A. J. *see* **Fisher, P. G.**, (**93b:90009**)

Joubert, Wayne (*with* Highnam, Peter; Carey, Graham) PCG/CM: a package for the iterative solution of large sparse linear systems on the connection machine. (English summary) (*see* **93g:65178**)

Kannan, Rangachary *see* **Fix, George J.**, **93g:65085**

Klein, Peter Paul Inclusion of eigenvalues for nonselfadjoint eigenvalue problems. (*see* **93b:65007**)

Kobel'kov, G. M. Numerical methods for solving Navier-Stokes equations in velocity-pressure variables. (Russian) **93b:76025**

Koltracht, I. *see* **Elsner, L.; et al.**, **93d:65057**

Ku, Takang (*with* Kuo, C.-C. Jay) On the spectrum of a family of preconditioned block Toeplitz matrices. **93b:65064**

Kucherov, A. B. (*with* Makarov, M. M.) An approximate factorization method for solving discrete elliptic problems on stretched domains. **93d:65092**

Kuo, C.-C. Jay *see* **Ku, Takang**, **93b:65064**

Langer, Ulrich[1] *see* **Haase, Gundolf; et al.**, **93e:65146a** *and* **93e:65146b**

Lasserre, J. B. Sur l'inversion de matrice. (English summary) [On matrix inversion] **93b:65049**

Lazarov, R. D. *see* **Ewing, Richard E.; et al.**, **93a:65113**

Liniger, Werner (*with* Odeh, Farouk; Hara, Veikko) A second-order sparse factorization method for Poisson's equation with mixed boundary conditions. (English summary) **93k:65085**

Lutoborski, Adam On the convergence of the Euler-Jacobi method. **93d:65041**

Magolu, Monga-Made Conditioning analysis of sparse block approximate factorizations. **93c:65063**

Makarov, M. M. *see* **Kucherov, A. B.**, **93d:65092**

Mandel, Jan Iterative solvers by substructuring for the p-version finite element method. (English summary) (*see* **93d:65005**)

Margenov, Svetozar *see* **Eijkhout, Victor**, **93a:65149** *and* **Georgiev, Krassimir**, (**93e:00022**)

Maslyankin, V. I. (*with* Mukhina, M. I.; Reznik, A. A.) On the solution of systems of linear equations with a sparse matrix by iterative methods. (Russian. English and Russian summaries)

Mayer, Günter *see* **Frommer, Andreas**, **93e:65158**

Meyer, Arnd *see* **Haase, Gundolf; et al.**, **93e:65146a** *and* **93e:65146b**

Miel, George Dense linear iterations on systolic array processors. (English summary)

Moss, William F. *see* **Zhang, Hong**, (**93g:65178**)

Mukhina, M. I. *see* **Maslyankin, V. I.; et al.**

Neumann, Michael *see* **Elsner, L.; et al.**, **93d:65057**

Notay, Yvan Conditioning of Stieltjes matrices by S/P consistently ordered approximate factorizations. (English summary) **93h:65061**

Odeh, Farouk *see* **Liniger, Werner; et al.**, **93k:65085**

Paprzycki, Marcin (*with* Gladwell, Ian) Using level 3 BLAS to solve almost block diagonal systems. (English summary) (*see* **93g:65178**)

Pernice, Michael *see* **Chronopoulos, Anthony T.**, (**93g:65178**)

von Petersdorff, T. (*with* Stephan, E. P.) Multigrid solvers and preconditioners for first kind integral equations. (English summary) **93d:65114**

Petković, Ljiljana D. *see* **Herzberger, Jürgen**, **93c:65065**

Poolla, Kameshwar *see* **Hodel, A. Scottedward**, **93e:65042**

Reznik, A. A. *see* **Maslyankin, V. I.; et al.**

Rusten, Torgeir (*with* Winther, Ragnar) Substructure preconditioners for elliptic saddle point problems. **93d:65108**

Saad, Youcef *see* **Gallopoulos, E.**, **93d:65085**

Selberherr, S. *see* **Heinreichsberger, O.; et al.**, (**93g:65178**)

Stephan, E. P. *see* **von Petersdorff, T.**, **93d:65114**

Stiftinger, M. *see* **Heinreichsberger, O.; et al.**, (**93g:65178**)

Suzuki, Toshio Inverse iteration method with a complex parameter. **93j:65056**

Toint, Ph. L. *see* **Bierlaire, M.; et al.**, **93k:65053**

Tuyttens, D. *see* **Bierlaire, M.; et al.**, **93k:65053**

Vassilevski, Panayot S. Preconditioning nonsymmetric and indefinite finite element matrices. **93c:65133**

— (*with* Wang, Jun Ping) Multilevel iterative methods for mixed finite element discretizations of elliptic problems. (English summary) **93j:65187**

— *see also* **Ewing, Richard E.; et al.**, **93a:65113**

Wang, Jun Ping Convergence analysis of Schwarz algorithm and multilevel decomposition iterative methods. I. Selfadjoint and positive definite elliptic problems. **93a:65159**

— Convergence analysis without regularity assumptions for multigrid algorithms based on SOR smoothing. **93e:65141**

— *see also* **Vassilevski, Panayot S.**, **93j:65187**

Winther, Ragnar *see* **Rusten, Torgeir**, **93d:65108**

Xu, Jinchao (*with* Cai, Xiao-Chuan) A preconditioned GMRES method for nonsymmetric or indefinite problems. **93a:65059**

Zhang, Hong (*with* Moss, William F.) Solution of generalized eigenvalue problems using a parallel subspace iteration algorithm. (English summary) (*see* **93g:65178**)

Zhang, Zhen Yue A basic parallel iterative method for solving symmetric tridiagonal extremal eigenpair problem. (English summary) (*see* **93d:65004**)

Zlatev, Zahari ★ Computational methods for general sparse matrices. **93b:65074**

Zuo, Zhao Qin Two new techniques for optimal control. **93d:49038**

65F15 Eigenvalues, eigenvectors

Aberth, Oliver (*with* Schaefer, Mark J.) Precise matrix eigenvalues using range arithmetic. (English summary) **93m:65045**

Arbenz, Peter Divide and conquer algorithms for the bandsymmetric eigenvalue problem. (English summary) (*see* **93f:00016**)

— Divide and conquer algorithms for the bandsymmetric eigenvalue problem. (English summary) **93i:65043**

Axelsson, Owe Bounds of eigenvalues of preconditioned matrices. **93e:65056**

Baker, Graham Accelerated bisection techniques for tri- and quindiagonal matrices. **93a:65045**

Beattie, Christopher (*with* Ribbens, Calvin J.) Parallel solution of a generalized symmetric matrix eigenvalue problem. (English summary) (*see* **93g:65178**)

Behnke, Henning Bounds for eigenvalues of parameter-dependent matrices. (English and German summaries)

Belyi, V. A. *see* **Kublanovskaya, V. N.**, (**93b:65007**)

Berry, Michael W. (*with* Golub, Gene H.) Estimating the largest singular values of large sparse matrices via modified moments. **93a:65046**

Bini, Dario (*with* Pan, Victor) Practical improvement of the divide-and-conquer eigenvalue algorithms. (German summary) **93a:65047**

Boley, Daniel L. (*with* Elhay, Sylvan; Golub, Gene H.; Gutknecht, Martin H.) Nonsymmetric Lanczos and finding orthogonal polynomials associated with indefinite weights. **93f:65033**

— (*with* Brent, Richard P.; Golub, Gene H.; Luk, Franklin T.) Algorithmic fault tolerance using the Lanczos method. **93f:65034**

Brent, Richard P. *see* **Boley, Daniel L.; et al.**, **93f:65034**

Bunse-Gerstner, Angelika (*with* Byers, Ralph; Mehrmann, Volker) A chart of numerical methods for structured eigenvalue problems. **93b:65063**

Byers, Ralph *see* **Bunse-Gerstner, Angelika; et al.**, **93b:65063**

Chan, Raymond H. (*with* Jin, Xiao-Qing) Skew-circulant preconditioners for skew-Hermitian type Toeplitz systems. (*see* **93b:00022**)

Chronopoulos, Anthony T. *see* **Kim, Sung Kwon**, **93h:65050**

Chu, Moody T. Numerical methods for inverse singular value problems. **93a:65048**

Davidson, Ernest R. *see* **Murray, Christopher W.; et al.**, **93j:65055**

Deif, A. S. *see* **Seif, N. P.; et al.**, **93a:65055**

Demmel, James (*with* Veselić, Krešimir) Jacobi's method is more accurate than QR. (English summary) **93e:65057**

Dongarra, Jack J. (*with* Sidani, M.) A parallel algorithm for the nonsymmetric eigenvalue problem. (English summary) (*see* **93b:65005**)

— (*with* Hammarling, Sven; Wilkinson, James H.) Numerical considerations in computing invariant subspaces. **93a:65049**

Elhay, Sylvan *see* **Boley, Daniel L.; et al.**, **93f:65033**

Freund, Roland W. (*with* Gutknecht, Martin H.; Nachtigal, Noël M.) An implementation of the look-ahead Lanczos algorithm for non-Hermitian matrices. (English summary) **93h:65048**

Fu, Wen Jun Using Newton's method and the improved Brauer method to compute the maximum eigenvalue of nonnegative irreducible matrices. (Chinese. English and Chinese summaries) **93i:65044**

— A note on diagonal transformation methods for computing the maximum eigenvalue and corresponding eigenvector of nonnegative irreducible matrices. (Chinese. English and Chinese summaries) **93j:65052**

Galligani, Emanuele (*with* Ruggiero, Valeria) Computation of minimal eigenpair in the large sparse generalized eigen-problem using vector computers. (English summary) (*see* **93f:00016**)

Garus, Rainer (*with* Küpper, Tassilo) Computation of the smallest positive eigenvalue of a quadratic λ-matrix. (*see* **93b:65007**)
van de Geijn, Robert A. Deferred shifting schemes for parallel QR methods. (English summary) **93k:65031**
Geist, G. A. (*with* Jessup, E. R.) Parallel implementation of a nonsymmetric tridiagonal eigensolver. (English summary) (*see* **93g:65178**)
Golub, Gene H. *see* **Berry, Michael W., 93a:65046**; **Boley, Daniel L.; et al., 93f:65033** *and* **93f:65034**
Gower, J. C. (*with* Groenen, P. J. F.) Applications of the modified Leverrier-Faddeev algorithm for the construction of explicit matrix spectral decompositions and inverses. **93e:65058**
Groenen, P. J. F. *see* **Gower, J. C., 93e:65058**
Gutknecht, Martin H. *see* **Boley, Daniel L.; et al., 93f:65033** *and* **Freund, Roland W.; et al., 93h:65048**
Hammarling, Sven *see* **Dongarra, Jack J.; et al., 93a:65049**
Hari, Vjeran On sharp quadratic convergence bounds for the serial Jacobi methods. **93a:65050**
Hashem, S. *see* **Seif, N. P.; et al., 93a:65055**
Hinrichsen, Diederich (*with* Pritchard, A. J.) On spectral variations under bounded real matrix perturbations. **93a:65051**
Ignat'ev, V. A. (*with* Ignat'eva, O. M.) Solution of a partial eigenvalue and eigenvector problem by means of a method of the successive condensation of subsystems. (Russian) (*see* **93k:73001**)
Ignat'eva, O. M. *see* **Ignat'ev, V. A., (93k:73001)**
Ikramov, Kh. D. Block symmetries in spectral problems for matrix pencils. (Russian) **93h:65049**
Jessup, E. R. Applying divide and conquer techniques to the nonsymmetric eigenvalue problem. (English summary) (*see* **93j:00007**)
— *see also* **Geist, G. A., (93g:65178)**
Ji, Xing Zhi A two-dimensional bisection method for solving two-parameter eigenvalue problems. (English summary) **93f:65035**
Jiang, Er Xiong A note on the double-shift QL algorithm. **93e:65059**
Jiang, Yi Cheng A method of finding eigenpairs by the Lanczos process after Rayleigh quotient iteration. (Chinese. English summary) **93e:65060**
Jin, Xiao-Qing *see* **Chan, Raymond H., (93b:00022)**
Jolicard, Georges *see* **Killingbeck, John P., 93c:65053**
Kaufman, Linda An algorithm for the banded symmetric generalized matrix eigenvalue problem. (English summary) **93m:65046**
Khimich, A. N. *see* **Molchanov, I. N.; et al.**
Killingbeck, John P. (*with* Jolicard, Georges) Perturbation methods for the matrix eigenproblem. (English summary)
— (*with* Jolicard, Georges) The folding algorithm for pentadiagonal matrices. **93c:65053**
Kim, Sung Kwon (*with* Chronopoulos, Anthony T.) An efficient nonsymmetric Lanczos method on parallel vector computers. (English summary) **93h:65050**
Klein, Peter Paul Inclusion of eigenvalues for nonselfadjoint eigenvalue problems. (*see* **93b:65007**)
Knizhnerman, L. A. Error estimates for the Arnoldi method: the normal matrix case. (Russian. Russian summary) **93j:65053**
Kregzhde, A. V. A numerical method for calculating the eigenvalues of a tridiagonal symmetric matrix. (Russian. Russian summary) **93f:65036**
Ku, Takang (*with* Kuo, C.-C. Jay) On the spectrum of a family of preconditioned block Toeplitz matrices. **93b:65064**
— (*with* Kuo, C.-C. Jay) Spectral properties of preconditioned rational Toeplitz matrices. (English summary) **93m:65047**
Kublanovskaya, V. N. (*with* Belyĭ, V. A.) Solution of spectral problems for polynomial matrix pencils. (*see* **93b:65007**)
Kuczyński, Jacek (*with* Woźniakowski, Henryk) Estimating the largest eigenvalue by the power and Lanczos algorithms with a random start. (English summary) **93g:65052**
Kuhnert, Frieder Über die Sensibilität von Eigenwerten und Eigenvektoren. (English and Russian summaries) [On the sensitivity of eigenvalues and eigenvectors] **93a:65052**
— Zur numerischen Berechnung benachbarter Matrizeneigenwerte bei Rang-1-Störung. (English summary) [On the numerical calculation of nearby matrix eigenvalues with rank-one perturbation] **93b:65065**
Kuo, C.-C. Jay *see* **Ku, Takang, 93b:65064** *and* **93m:65047**
Küpper, Tassilo *see* **Garus, Rainer, (93b:65007)**
László, Lajos Optimal plane rotations for complex matrices. **93e:65061**
Le, Jian *see* **Parlett, Beresford N., 93k:65033**
Lei, Guang Yao On the approximate computation of extreme eigenvalues and the condition number of nonsingular matrices. (Chinese. English summary) **93b:65066**
Leung, A. Y. T. (*with* Liu, Y. F.) A generalized complex symmetric eigensolver. **93e:65062**
Li, Kuiyuan (*with* Li, Tien-Yien) A homotopy algorithm for a symmetric generalized eigenproblem. (English summary) **93j:65054**
— (*with* Li, Tien-Yien) An algorithm for symmetric tridiagonal eigenproblems: divide and conquer with homotopy continuation. (English summary) **93m:65048**
Li, Ren Cang Algorithms for inverse eigenvalue problems. **93a:65053**
— Compute multiply nonlinear eigenvalues. **93c:65054**
Li, Tien-Yien (*with* Zeng, Zhong Gang) Homotopy-determinant algorithm for solving nonsymmetric eigenvalue problems. **93a:65054**
— *see also* **Li, Kuiyuan, 93j:65054**; **93m:65048** *and* **Zeng, Zhong Gang; et al., (93g:65178)**
Lin, Xiaola *see* **Zeng, Zhong Gang; et al., (93g:65178)**
Lindsay, K. A. The application of compound matrices to convection problems in multi-layered continua. **93h:65051**
Liu, Y. F. *see* **Leung, A. Y. T., 93e:65062**
Lu, Ya Yan *see* **Yau, Shing-Tung, 93m:65053**
Luk, Franklin T. *see* **Boley, Daniel L.; et al., 93f:65034**
Lutoborski, Adam On the convergence of the Euler-Jacobi method. **93d:65041**
Mehrmann, Volker *see* **Bunse-Gerstner, Angelika; et al., 93b:65063**
Mokeev, V. V. On the problem of determining the eigenvalues and eigenvectors of large matrix systems. (Russian. Russian summary) **93i:65045**
Molchanov, I. N. (*with* Popov, A. V.; Khimich, A. N.) An algorithm for solving a partial eigenvalue problem for large profile matrices. (Russian. English and Ukrainian summaries)
Moonen, Marc (*with* Van Dooren, Paul; Vandewalle, Joos) A singular value decomposition updating algorithm for subspace tracking. (English summary) **93g:65053**
Morgan, Ronald B. Generalizations of Davidson's method for computing eigenvalues of large nonsymmetric matrices. **93e:65063**
— (*with* Scott, David S.) Preconditioning the Lanczos algorithm for sparse symmetric eigenvalue problems. (English summary) **93k:65032**
Moss, William F. *see* **Zhang, Hong, (93g:65178)**
Murray, Christopher W. (*with* Racine, Stephen C.; Davidson, Ernest R.) Improved algorithms for the lowest few eigenvalues and associated eigenvectors of large matrices. (English summary) **93j:65055**
Nachtigal, Noël M. *see* **Freund, Roland W.; et al., 93h:65048**
Pan, Victor *see* **Bini, Dario, 93a:65047**
Parlett, Beresford N. The rewards for maintaining semi-orthogonality among Lanczos vectors. (English summary) **93g:65054**
— (*with* Le, Jian) Forward instability of tridiagonal QR. (English summary) **93k:65033**
Petiton, Serge G. Parallel subspace method for non-Hermitian eigenproblems on the connection machine (CM2). **93c:65055**
Popov, A. V. *see* **Molchanov, I. N.; et al.**
Pritchard, A. J. *see* **Hinrichsen, Diederich, 93a:65051**
Racine, Stephen C. *see* **Murray, Christopher W.; et al., 93j:65055**
Ribbens, Calvin J. *see* **Beattie, Christopher, (93g:65178)**
Rojo, Óscar (*with* Soto, Ricardo L.) New conditions for the additive inverse eigenvalue problem for matrices. **93b:65067**
— (*with* Soto, Ricardo L.; Rojo J., Héctor) New eigenvalue estimates for complex matrices. (English summary) **93m:65049**
Rojo J., Héctor *see* **Rojo, Óscar; et al., 93m:65049**
Ruggiero, Valeria *see* **Galligani, Emanuele, (93f:00016)**
Saad, Youcef ★ Numerical methods for large eigenvalue problems. **93h:65052**
Schaefer, Mark J. *see* **Aberth, Oliver, 93m:65045**
Scott, David S. *see* **Morgan, Ronald B., 93k:65032**
Seif, N. P. (*with* Hashem, S.; Deif, A. S.) Bounding the eigenvectors for symmetric interval matrices. **93a:65055**
Sidani, M. *see* **Dongarra, Jack J., (93b:65005)**
Song, Yong Zhong Estimates of perturbations for eigenvalues of arbitrary matrices. (Chinese. English and Chinese summaries) **93k:65034**
Soto, Ricardo L. *see* **Rojo, Óscar, 93b:65067** *and* **93m:65049**
Starke, Gerhard Fields of values and the ADI method for nonnormal matrices. (English summary) **93m:65050**
Sun, Ji Guang Rayleigh quotient and residual of a definite pair. **93d:65042**
— On the sensitivity of semisimple multiple eigenvalues. **93d:65043**
— On condition numbers of a nondefective multiple eigenvalue. **93a:65056**
Suzuki, Toshio Inverse iteration method with a complex parameter. **93j:65056**
Swarztrauber, Paul N. A parallel algorithm for computing the eigenvalues of a symmetric tridiagonal matrix. **93h:65053**
Trefethen, Lloyd N. Pseudospectra of matrices. **93e:65064**
Trench, William F. A note on computing eigenvalues of banded Hermitian Toeplitz matrices. (English summary) **93m:65051**
Vandewalle, Joos *see* **Moonen, Marc; et al., 93g:65053**
Van Dooren, Paul *see* **Moonen, Marc; et al., 93g:65053**
Veselić, Krešimir *see* **Demmel, James, 93e:65057**
Wilkinson, James H. *see* **Dongarra, Jack J.; et al., 93a:65049**
Woźniakowski, Henryk *see* **Kuczyński, Jacek, 93g:65052**
Wright, Ken Differential equations for the analytic singular value decomposition of a matrix. (English summary) **93f:65037**
Yamaguchi, Kayoko Stiff equations derived from diffusion-convection equations. (Japanese. English summary) (*see* **93f:65027**)
Yang, Ya Guang An improved eigenvalue perturbation bound on a nonnormal matrix and its application in robust stability analysis. (English summary) **93m:65052**
Yau, Shing-Tung (*with* Lu, Ya Yan) Reducing the symmetric matrix eigenvalue problem to matrix multiplications. (English summary) **93m:65053**
Zeng, Zhong Gang (*with* Lin, Xiaola; Li, Tien-Yien) An efficient parallel homotopy algorithm for nonsymmetric eigenvalue problems with $O(N)$ running time. (English summary) (*see* **93g:65178**)
— *see also* **Li, Tien-Yien, 93a:65054**
Zha, Hong Yuan Some properties of the quotient singular value decomposition. (English summary) **93m:65054**
Zhang, De Tong A modification of the homotopy method for solving generalized eigenvalue problem. **93e:65065**
Zhang, Hong (*with* Moss, William F.) Solution of generalized eigenvalue problems using a parallel subspace iteration algorithm. (English summary) (*see* **93g:65178**)
Zhang, Zhen Yue A basic parallel iterative method for solving symmetric tridiagonal extremal eigenpair problem. (English summary) (*see* **93d:65004**)

Items with secondary classifications in 65F15

Asai, Nobuyoshi The numerical solution of $xJ_m''(x) + HJ_m(x) = 0$ where $m > -1$ and $m > -H$. (Japanese. English summary) (*see* **93e:65040**)
Auslander, Louis (*with* Tsao, Anna) On parallelizable eigensolvers. **93f:65098**
Basermann, A. (*with* Weidner, Peter) A parallel algorithm for determining all eigenvalues of large real symmetric tridiagonal matrices. (English summary)
Burke, James V. (*with* Overton, Michael L.) Stable perturbations of nonsymmetric matrices. **93c:47016**
Chan, Raymond H. (*with* Yeung, Man-Chung) Jackson's theorem and circulant preconditioned Toeplitz systems. **93c:65046**
— (*with* Jin, Xiao-Qing) A family of block preconditioners for block systems. (English summary) **93e:65050**
Chang, Xiao Wen *see* **Wang, Jia Song, 93g:41028**
Cherkasov, M. A. Application of local interpolation in determining the eigenvalues of a matrix. (Russian) (*see* **93e:00015**)

Chu, Moody T. Matrix differential equations: a continuous realization process for linear algebra problems. **93g:65079**
Dincă, Iuliana Monte Carlo methods for solving some eigenvalue problems. (French and Russian summaries) **93c:65009**
Dongarra, Jack J. (*with* van de Geijn, Robert A.) Reduction to condensed form for the eigenvalue problem on distributed memory architectures. (English summary)
Friedland, Shmuel Inverse eigenvalue problems for symmetric Toeplitz matrices. (English summary) **93j:15009**
Fujii, Masatoshi (*with* Furuta, Takayuki; Seo, Yûki) An inequality for some nonnormal operators—extension to normal approximate eigenvalues. **93i:47023**
Furuta, Takayuki *see* **Fujii, Masatoshi; et al., 93i:47023**
van de Geijn, Robert A. *see* **Dongarra, Jack J.**
van Gelder, Boudewijn H. W. *see* **Soler, Tomás, 93c:15020**
Grishchenko, A. Z. (*with* Khilenko, V. V.) Determination of the number of fast and slow motions in the decomposition of linear dynamical models of arbitrarily large dimension. (Russian. English and Ukrainian summaries) **93g:65090**
Gutknecht, Martin H. A completed theory of the unsymmetric Lanczos process and related algorithms. I. **93e:65053**
Harada, Minoru Solving $J_k(x) = \varepsilon$ and $J_k''(x) = 0$ for a given $\varepsilon > 0$ and $k > 1$. (Japanese. English summary) (*see* **93e:65040**)
Hwang, T. (*with* Parsons, I. D.) A multigrid method for the generalized symmetric eigenvalue problem. I. Algorithm and implementation. (English summary) **93j:65173**
— (*with* Parsons, I. D.) A multigrid method for the generalized symmetric eigenvalue problem. II. Performance evaluation. (English summary) **93j:65174**
Ikramov, Kh. D. Spectral singularities of special classes of matrices. (Russian) **93d:15037**
— Matrix pencils—theory, applications, numerical methods. (Russian) **93e:15005**
Jin, Xiao-Qing *see* **Chan, Raymond H., 93e:65050**
Jones, Mark T. (*with* Patrick, Merrell L.) The Lanczos algorithm for the generalized symmetric eigenproblem on shared-memory architectures. (English summary) (*see* **93j:00007**)
Joubert, Wayne Lanczos methods for the solution of nonsymmetric systems of linear equations. **93e:65054**
Khilenko, V. V. *see* **Grishchenko, A. Z., 93g:65090**
Knyazev, Andrei Vladimirovich (*with* Skorokhodov, A. L.) Iterative methods of gradient type in a subspace for a partial symmetric generalized eigenvalue problem. (Russian) **93m:65075**
Li, Luo Luo Necessary and sufficient conditions for solvability of the multiplicative inverse matrix eigenvalue problem. (Chinese. English and Chinese summaries)
Li, Ren Cang On eigenvalues of a Rayleigh quotient matrix. **93a:15013**
Magolu, Monga-Made Lower eigenvalue bounds for singular pencils of matrices. **93c:65050**
Mayer, Günter Enclosures for eigenvalues and eigenvectors. (English summary) **93j:65071**
Muthiyalu, N. (*with* Usha, S.) Eigenvalues of centrosymmetric matrices. (German summary) **93g:15008**
Nakamura, Yoshimasa A new nonlinear dynamical system that leads to eigenvalues. **93e:58151a**
— Erratum: "A new nonlinear dynamical system that leads to eigenvalues". **93e:58151b**
Nechepurenko, Yu. M. Singular functions of polynomial matrices. **93h:15009**
Overton, Michael L. *see* **Burke, James V., 93c:47016**
Parsons, I. D. *see* **Hwang, T., 93j:65173** *and* **93j:65174**
Patrick, Merrell L. *see* **Jones, Mark T., (93j:00007)**
Plávka, J. The $O(n^3)$ algorithm for a special case of the maximum cost-to-time ratio cycle problem and its coherence with an eigenproblem of a matrix. (English summary) **93i:90102**
Quarteroni, Alfio (*with* Zampieri, Elena) Finite element preconditioning for Legendre spectral collocation approximations to elliptic equations and systems. **93c:65146**
Reddy, Satish C. (*with* Trefethen, Lloyd N.) Stability of the method of lines. **93d:65086**
Sadkane, Miloud A block Arnoldi-Chebyshev method for computing the leading eigenpairs of large sparse unsymmetric matrices. (English summary) **93i:65053**
— Block-Arnoldi and Davidson methods for unsymmetric large eigenvalue problems. (English summary) **93i:65054**
Seo, Yûki *see* **Fujii, Masatoshi; et al., 93i:47023**
Shen, Jie On error estimates of some higher order projection and penalty-projection methods for Navier-Stokes equations. **93a:35122**
Skorokhodov, A. L. *see* **Knyazev, Andrei Vladimirovich, 93m:65075**
Soler, Tomás (*with* van Gelder, Boudewijn H. W.) On covariances of eigenvalues and eigenvectors of second-rank symmetric tensors. **93c:15020**
Sun, Ji Guang Eigenvalues of Rayleigh quotient matrices. **93a:15015**
Suzuki, Toshio Inverse iteration method with a complex parameter. (English summary) (*see* **93f:65027**)
Trefethen, Lloyd N. *see* **Reddy, Satish C., 93d:65086**
Tsao, Anna *see* **Auslander, Louis, 93f:65098**
Usha, S. *see* **Muthiyalu, N., 93g:15008**
Vandeven, Hervé On the eigenvalues of second-order spectral differentiation operators. (English summary) (*see* **93d:65005**)
Wang, Jia Song (*with* Chang, Xiao Wen) The best approximation of symmetric positive semidefinite matrices with spectral constraints. (Chinese summary) **93g:41028**
Weidner, Peter *see* **Basermann, A.**
Yeung, Man-Chung *see* **Chan, Raymond H., 93c:65046**
Zampieri, Elena *see* **Quarteroni, Alfio, 93c:65146**
Zha, Hong Yuan A two-way chasing scheme for reducing a symmetric arrowhead matrix to tridiagonal form. **93c:65061**

65F20 Overdetermined systems, pseudoinverses

Arun, K. S. A unitarily constrained total least squares problem in signal processing. **93g:65055**
Bodon, Elena *see* **Spedicato, Emilio, 93m:65055**
Hansen, Per Christian Analysis of discrete ill-posed problems by means of the L-curve. (English summary) **93k:65035**
Liao, Jian Wen *see* **Yang, Shu Guang, 93b:65069**
Poluèktov, A. R. On a method for the choice of regularization parameter in the numerical solution of ill-posed problems. (Russian) **93b:65068**
Spedicato, Emilio (*with* Bodon, Elena) Solution of linear least squares via the ABS algorithm. (English summary) **93m:65055**
Wang, Zhi Zhong *see* **Zhu, Yang Ming**
Wei, Mu Sheng Algebraic relations between the total least squares and least squares problems with more than one solution. **93f:65038**
— The analysis for the total least squares problem with more than one solution. **93j:65057**
— Perturbation theory for the rank-deficient equality constrained least squares problem. (English summary) **93i:65046**
Yang, Shu Guang (*with* Liao, Jian Wen) Solution of an overdetermined system of linear equations in L_2, L_∞, L_p norm using L.S. techniques. **93b:65069**
Zhu, Yang Ming (*with* Wang, Zhi Zhong) A new method for identifying ill-conditioned matrices. (Chinese)

Items with secondary classifications in 65F20

Barlow, Jesse L. (*with* Vemulapati, Udaya B.) Rank detection methods for sparse matrices. (English summary) **93f:65041**
Bischof, Christian H. (*with* Hansen, Per Christian) A block algorithm for computing rank-revealing QR factorizations. (English summary) **93h:65054**
Chan, Tony F. C. (*with* Hansen, Per Christian) Some applications of the rank revealing QR factorization. **93a:65057**
Conn, Andrew R. (*with* Li, Yuying) A structure-exploiting algorithm for nonlinear minimax problems. **93d:90060**
Daglish, George The essential mathematics of remote sensing. (English summary) **93f:86007**
Hansen, Per Christian *see* **Chan, Tony F. C., 93a:65057** *and* **Bischof, Christian H., 93h:65054**
Li, Yuying *see* **Conn, Andrew R., 93d:90060**
Meijaard, J. P. Applications of the singular value decomposition in dynamics. (English summary) **93k:70002**
Vemulapati, Udaya B. *see* **Barlow, Jesse L., 93f:65041**

65F25 Orthogonalization

Bischof, Christian H. (*with* Hansen, Per Christian) A block algorithm for computing rank-revealing QR factorizations. (English summary) **93h:65054**
— *see also* **Shroff, Gautam M., 93e:65067**
Björck, Å. (*with* Paige, C. C.) Loss and recapture of orthogonality in the modified Gram-Schmidt algorithm. **93c:65056**
Chan, Tony F. C. (*with* Hansen, Per Christian) Some applications of the rank revealing QR factorization. **93a:65057**
Godunov, S. K. A survey of criteria for the convergence of orthogonal-power processes. (Russian) (*see* **93b:65007**)
Gulliksson, Mårten (*with* Wedin, Per-Åke) Modifying the QR-decomposition to constrained and weighted linear least squares. (English summary) **93e:65066**
Hansen, Per Christian *see* **Chan, Tony F. C., 93a:65057** *and* **Bischof, Christian H., 93h:65054**
Iguchi, Hiroko (*with* Natori, Makoto; Imai, Hitoshi) Reorthogonalization in the block Lanczos method. (Japanese. English summary) (*see* **93e:65040**)
Imai, Hitoshi *see* **Iguchi, Hiroko; et al., (93e:65040)**
Natori, Makoto *see* **Iguchi, Hiroko; et al., (93e:65040)**
Paige, C. C. *see* **Björck, Å., 93c:65056**
Sherif, Nagwa On transformations and perturbations of orthogonal r-frames. (Spanish summary) **93d:65044**
Shroff, Gautam M. (*with* Bischof, Christian H.) Adaptive condition estimation for rank-one updates of QR factorizations. (English summary) **93e:65067**
Thomas, S. J. (*with* Zahar, R. V. M.) An analysis of orthogonalization in elliptic norms. **93d:65045**
Wedin, Per-Åke *see* **Gulliksson, Mårten, 93e:65066**
Zahar, R. V. M. *see* **Thomas, S. J., 93d:65045**

Items with secondary classifications in 65F25

Brezinski, Claude (*with* Redivo Zaglia, Michela; Sadok, H.) A breakdown-free Lanczos type algorithm for solving linear systems. (English summary) **93f:65028**
De Meyer, H. (*with* Niyokindi, C.; Vanden Berghe, Guido) The implementation of parallel Gram-Schmidt orthogonalisation algorithms on a ring of transputers. (English summary)
Niyokindi, C. *see* **De Meyer, H.; et al.**
Puglisi, Chiara Modification of the Householder method based on the compact WY representation. **93b:65071**
Redivo Zaglia, Michela *see* **Brezinski, Claude; et al., 93f:65028**
Sadok, H. *see* **Brezinski, Claude; et al., 93f:65028**
Vanden Berghe, Guido *see* **De Meyer, H.; et al.**

65F30 Other matrix algorithms

Agekyan, G. V. *see* **Nersesyan, A. B., 93j:65062**
Bischof, Christian H. (*with* Tang, Ping Tak Peter) Generalizing incremental condition estimation. (English summary) **93e:65068**
Blatov, I. A. (*with* Terteryan, A. A.) Estimates for the elements of inverse matrices and incomplete block factorization methods based on matrix sweep. (Russian. Russian summary) **93m:65056**
Bulavskiĭ, V. A. (*with* Zvyagina, R. A.; Yakovleva, M. A.) Algorithms for choosing a nondegenerate block in matrices of a special type. (Russian) **93c:65057**
Cai, Xiao-Chuan *see* **Xu, Jinchao, 93a:65059**
Chen, Zhong Wen (*with* Wang, Jia Song) An algorithm for solving large l_1 norm minimization. (Chinese. English summary) **93b:65070**
De Pierro, Alvaro R. *see* **Iusem, Alfredo N., 93j:65059**
Diepold, Klaus (*with* Pauli, Rainer; Nossek, Josef A.) A Schur-type algorithm for the triangular factorization of positive semi-definite matrices. **93h:65055**

Elhay, Sylvan (*with* Golub, Gene H.; Kautský, Jaroslav) Jacobi matrices for sums of weight functions. (English summary) **93k:65036**
Elsner, L. (*with* Koltracht, I.; Neumann, Michael; Xiao, D.) On accurate computations of the Perron root. (English summary) **93m:65057**
Fedorenko, A. D. *see* **Karpinskaya, L. V., 93h:65059**
Freund, Roland W. A transpose-free quasi-minimal residual algorithm for non-Hermitian linear systems. (English summary) **93m:65058**
Glentis, George Othon (*with* Kalouptsidis, Nicholas) Efficient algorithms for the solution of block linear system with Toeplitz entries. (English summary) **93h:65056**
Golub, Gene H. *see* **Elhay, Sylvan; et al., 93k:65036**
Govaerts, W. (*with* Pryce, J. D.) Mixed block elimination for linear systems with wider borders. (English summary) **93m:65059**
Hadjidimos, Apostolos (*with* Saridakis, Yiannis G.) Modified successive overrelaxation (MSOR) and equivalent 2-step iterative methods for collocation matrices. (English summary) **93h:65057**
Il'in, V. P. (*with* Pinkina, N. A.) Investigation of rounding errors for some modifications of the sweep method. (Russian. Russian summary) **93j:65058**
Iusem, Alfredo N. (*with* De Pierro, Alvaro R.) A characterization of the set of fixed points of some smoothed operators. (English summary) **93j:65059**
Kågström, Bo (*with* Van Dooren, Paul) A generalized state-space approach for the additive decomposition of a transfer matrix. (English summary) **93h:65058**
Kaguei, S. (*with* Ohsato, A.) Algorithm for evaluating the margin rank of a fuzzy matrix. **93a:65058**
Kalouptsidis, Nicholas *see* **Glentis, George Othon, 93h:65056**
Karpinskaya, L. V. (*with* Fedorenko, A. D.) Ordering algorithms for symbolic calculations with matrices that reduce to block-triangular form. (Russian. Russian summary) **93h:65059**
Kautský, Jaroslav *see* **Elhay, Sylvan; et al., 93k:65036**
Koltracht, I. *see* **Elsner, L.; et al., 93m:65057**
Kublanovskaya, V. N. "Rank division" algorithms and their applications. (English summary) **93g:65056**
Kuznetsov, Yu. I. (*with* Pinkina, N. A.) On the solution of three-point systems of linear equations with constant and piecewise-constant coefficients. (Russian. Russian summary) **93j:65060**
Larin, V. B. Calculation of the square root of a positive-definite matrix. (Russian. Russian summary) **93j:65061**
Li, Lei A fast algorithm for polynomial matrices. (Chinese) **93c:65058**
Li, Xie Zhang An adaptive method for solving nonsymmetric linear systems involving applications of SCPACK. (English summary) **93h:65060**
Liaw, JerJiann *see* **Taha, Thiab R., (93k:65003)**
Lórencz, Róbert *see* **Morháč, Miroslav, 93g:65057**
Lu, Lin Zhang A sign function method for solving discrete time algebraic Riccati equations. (Chinese. English and Chinese summaries) **93i:65047**
Luo, Jenn-Ching A sparsity for decomposing a symmetric matrix. (English summary)
Magolu, Monga-Made Analytical bounds for block approximate factorization methods. (English summary) **93i:65048**
Mathias, Roy Evaluating the Fréchet derivative of the matrix exponential. (English summary) **93i:65049**
Morháč, Miroslav (*with* Lórencz, Róbert) A modular system for solving linear equations exactly. I. Architecture and numerical algorithms. (English summary) **93g:65057**
Nabben, Reinhard On a class of matrices which arise in the numerical solution of Euler equations. (English summary) **93k:65037**
Nersesyan, A. B. (*with* Agekyan, G. V.) Vectorized algorithms for solving systems with Toeplitz-type matrices. (Russian. Armenian summary) **93j:65062**
Neumann, Michael *see* **Elsner, L.; et al., 93m:65057**
Nossek, Josef A. *see* **Diepold, Klaus; et al., 93h:65055**
Notay, Yvan Conditioning of Stieltjes matrices by S/P consistently ordered approximate factorizations. (English summary) **93h:65061**
Ohsato, A. *see* **Kaguei, S., 93a:65058**
Ostylovskii, A. N. A direct multiparameter algorithm for the inversion of tridiagonal matrices over a ring. (Russian) (*see* **93i:65007**)
Parlett, Beresford N. Reduction to tridiagonal form and minimal realizations. **93c:65059**
Pauli, Rainer *see* **Diepold, Klaus; et al., 93h:65055**
Pellaumail, J. Décomposition de M-matrice et buffer d'un multiplexeur ATM. (English summary) [M-matrix decomposition and buffer of an ATM multiplexor] **93c:65060**
Pinkina, N. A. *see* **Il'in, V. P., 93j:65058** *and* **Kuznetsov, Yu. I., 93j:65060**
Pryce, J. D. *see* **Govaerts, W., 93m:65059**
Puglisi, Chiara Modification of the Householder method based on the compact WY representation. **93b:65071**
Rohn, Jiří An algorithm for finding a singular matrix in an interval matrix.
Rost, Karla Möbius transformations, matrix representations for generalized Bezoutians, and fast algorithms for displacement structured systems of equations. **93b:65072**
Sagitov, M. S. A finite splitting algorithm for a complex J-symmetric pencil. (Russian. Russian summary) **93f:65039**
Saridakis, Yiannis G. *see* **Hadjidimos, Apostolos, 93h:65057**
Shifman, È. R. Approximate solution of a system of three-point vector equations with constant coefficients. (Russian. Russian summary) **93f:65040**
Sit, William Y. An algorithm for solving parametric linear systems. **93h:65062**
Sun, Ji Guang Rounding-error and perturbation bounds for the Cholesky and LDL^T factorizations. **93g:65058**
Taha, Thiab R. (*with* Liaw, JerJiann) An algorithm for solving a 4-diagonal Toeplitz linear system of equations on vector computers. (English summary) (*see* **93k:65003**)
Tang, Ping Tak Peter *see* **Bischof, Christian H., 93e:65068**
Terteryan, A. A. *see* **Blatov, I. A., 93m:65056**
Tsui, Chia-Chi On the solution to matrix equation $TA - FT = LC$ and its applications. (English summary) **93i:65050**
Tyrtyshnikov, E. E. Addenda: "Cauchy-Toeplitz matrices and some applications" [Linear Algebra Appl. **149** (1991), 1–18; MR 92a:65134]. **93k:65038**
Van Dooren, Paul *see* **Kågström, Bo, 93h:65058**
Van Huffel, Sabine (*with* Zha, Hong Yuan) An efficient total least squares algorithm based on a rank-revealing two-sided orthogonal decomposition. (English summary) **93j:65063**
Varah, J. M. Errors and perturbations in Vandermonde systems. (English summary) **93i:65051**
Verlan, I. I. Positive solutions of systems of linear algebraic equations with symmetric five-diagonal matrices of coefficients. (Russian. Russian summary) **93m:65060**
Wang, Jia Song *see* **Chen, Zhong Wen, 93b:65070**
Watson, G. A. Computing the structured singular value. (English summary) **93e:65069**
Xiao, D. *see* **Elsner, L.; et al., 93m:65057**
Xu, Jinchao (*with* Cai, Xiao-Chuan) A preconditioned GMRES method for nonsymmetric or indefinite problems. **93a:65059**
Yakovleva, M. A. *see* **Bulavskii, V. A.; et al., 93c:65057**
Yin, Fu Liang A fast algorithm for singular value decomposition of a class of matrices and its application to time-varying filtering. (Chinese. English and Chinese summaries) **93e:65070**
Zha, Hong Yuan A two-way chasing scheme for reducing a symmetric arrowhead matrix to tridiagonal form. **93c:65061**
— *see also* **Van Huffel, Sabine, 93j:65063**
Zvyagina, R. A. *see* **Bulavskii, V. A.; et al., 93c:65057**

Items with secondary classifications in 65F30

Atallah, Mikhail J. (*with* Kosaraju, S. Rao) An efficient parallel algorithm for the row minima of a totally monotone matrix. (English summary) **93d:65119**
Averick, Brett M. (*with* Ortega, James M.) Fast solution of nonlinear Poisson-type equations. (English summary) **93i:65120**
Boley, Daniel L. (*with* Elhay, Sylvan; Golub, Gene H.; Gutknecht, Martin H.) Nonsymmetric Lanczos and finding orthogonal polynomials associated with indefinite weights. **93f:65033**
Brezinski, Claude (*with* Sadok, H.) Some vector sequence transformations with applications to systems of equations. (English summary) **93h:65003**
Bunch, James R. Matrix properties of the Levinson and Schur algorithms. (English summary) **93h:65040**
Buoni, John J. (*with* Farrell, Paul A.; Ruttan, Arden) Parallel LU decomposition of upper Hessenberg matrices on a shared memory multiprocessor. (English summary) (*see* **93j:00007**)
Chan, Raymond H. Numerical solutions for the inverse heat problems in $\mathbf{R}^N$. (English summary) **93m:65136**
Chan, Tony F. C. (*with* Hansen, Per Christian) A look-ahead Levinson algorithm for indefinite Toeplitz systems. **93a:65032**
Deng, Jian Xin The rank-k updating algorithm for the exact inversion of matrices with integer elements. (English summary) **93g:65039**
Elhay, Sylvan *see* **Boley, Daniel L.; et al., 93f:65033**
Farrell, Paul A. *see* **Buoni, John J.; et al., (93j:00007)**
Frommer, Andreas Verallgemeinerte Diagonaldominanz bei nichtlinearen Funktionen. I. (English, German and Russian summaries) [Generalized diagonal dominance in nonlinear functions. I] **93h:65074**
Golub, Gene H. *see* **Boley, Daniel L.; et al., 93f:65033**
Gutknecht, Martin H. *see* **Boley, Daniel L.; et al., 93f:65033**
Hansen, Per Christian Analysis of discrete ill-posed problems by means of the L-curve. (English summary) **93k:65035**
— *see also* **Chan, Tony F. C., 93a:65032**
Howland, James L. (*with* Vaillancourt, Rémi) Rational transformation from Schur to Jordan form. **93b:15012**
Hwang, Tsung Min (*with* Lin, Wen Wei; Yang, Eugene K.) Rank revealing LU factorizations. (English summary) **93i:15016**
Kautský, Jaroslav Gauss quadratures: an inverse problem. **93d:65027**
Kenney, Charles (*with* Laub, Alan J.) On scaling Newton's method for polar decomposition and the matrix sign function. **93a:65060**
Korytova, M. A. (*with* Rumyantsev, A. N.) Some algorithms for the constructive investigation of linear boundary value problems with inequalities. (Russian. Russian summary) (*see* **93m:00017**)
Kosaraju, S. Rao *see* **Atallah, Mikhail J., 93d:65119**
Kyurkchiev, Nikolai V. Über die Konvergenzordnungen einiger Klassen von Iterationsverfahren. [On the order of convergence of some classes of iteration methods] **93b:65075**
Laub, Alan J. *see* **Kenney, Charles, 93a:65060**
Lin, Wen Wei *see* **Hwang, Tsung Min; et al., 93i:15016**
Madych, Wally R. Solutions of underdetermined systems of linear equations. (English summary) (*see* **93g:62004**)
Mehrmann, Volker Divide and conquer methods for block tridiagonal systems. (English summary) **93j:65229**
Miel, George Dense linear iterations on systolic array processors. (English summary)
Ortega, James M. *see* **Averick, Brett M., 93i:65120**
Rohn, Jiří Erratum: "A short proof of finiteness of Murty's principal pivoting algorithm" [Math. Programming **46** (1990), no. 2, (Ser. A), 255–256; MR 91k:90208]. **93k:90097**
Rothblum, Uriel G. (*with* Zenios, Stavros A.) Scalings of matrices satisfying line-product constraints and generalizations. (English summary) **93k:15048**
Rumyantsev, A. N. *see* **Korytova, M. A., (93m:00017)**
Ruttan, Arden *see* **Buoni, John J.; et al., (93j:00007)**
Sadok, H. *see* **Brezinski, Claude, 93h:65003**
Sagae, Masahiko *see* **Tanabe, Kunio, 93a:65034**
Sagitov, M. S. A modification of the Schur method for solving the matrix algebraic Riccati equation. (Russian) **93m:65115**
Sherif, Nagwa On transformations and perturbations of orthogonal r-frames. (Spanish summary) **93d:65044**
Strakhov, V. N. The filtering method for systems of linear algebraic equations as a basis for solving linear problems in gravimetry and magnetometry. (Russian) **93g:86007a**
— Algebraic methods in linear problems of gravimetry and magnetometry. Basic ideas. (Russian) **93g:86007b**
— Algebraic methods in linear problems of gravimetry and magnetometry. Formulations of extremal problems. (Russian) **93g:86007c**

Sun, Ji Guang Componentwise perturbation bounds for some matrix decompositions. (English summary) **93k:15022**
Tanabe, Kunio (*with* Sagae, Masahiko) Pivoting strategy for rank-one modification of LDM^t-like factorization. **93a:65034**
Tsay, Jong Chuang (*with* Yuan, Shyan Ming) Some combinatorial aspects of parallel algorithm design for matrix multiplication. **93e:68093**
Tsurkis, I. Ya. Solution of a nonregular system of linear algebraic equations. (Russian. Russian summary) **93i:65122**
Vaillancourt, Rémi *see* **Howland, James L., 93b:15012**
Veselý, Vítězslav Algebraic theory of fast mixed-radix transforms. I. Generalized Kronecker product of matrices. (English summary) **93k:15024**
— Algebraic theory of fast mixed-radix transforms. II. Computational complexity and applications. (English summary) **93k:15025**
Yalamov, Plamen Y. Round-off error analysis of the bordering method. (English summary)
Yang, Eugene K. *see* **Hwang, Tsung Min; et al., 93i:15016**
Yuan, Shyan Ming *see* **Tsay, Jong Chuang, 93e:68093**
Zenios, Stavros A. *see* **Rothblum, Uriel G., 93k:15048**
Zhang, Zhi Nan Application of the Krylov method to computing integral matrices. (Chinese. English summary) **93k:15033**

65F35 Matrix norms, conditioning, scaling [see also 15A12, 15A60]

Almeida Benítez, Pedro *see* **Montero García, Gustavo; et al., (93j:00009)**
Bartels, Sven G. (*with* Higham, Desmond J.) The structured sensitivity of Vandermonde-like systems. **93e:65071**
Brugnano, L. Stability and spectral properties of some incomplete block factorizations. (English summary) **93j:65064**
Chan, Raymond H. *see* **Jin, Xiao-Qing, 93j:65066**
Cuesta Moreno, Pedro *see* **Montero García, Gustavo; et al., (93j:00009)**
Dahmen, Wolfgang (*with* Kunoth, Angela) Multilevel preconditioning. (English summary) **93j:65065**
Di Benedetto, Fabio (*with* Fiorentino, Giuseppe; Serra, Stefano) CG preconditioning for Toeplitz matrices. (English summary) **93h:65063**
Fiorentino, Giuseppe *see* **Di Benedetto, Fabio; et al., 93h:65063**
Hansen, Per Christian (*with* Sekii, Takashi; Shibahashi, Hiromoto) The modified truncated SVD method for regularization in general form. **93e:65072**
Higham, Desmond J. *see* **Bartels, Sven G., 93e:65071**
Higham, Nicholas J. Estimating the matrix p-norm. **93d:65046**
Huckle, Thomas Circulant and skewcirculant matrices for solving Toeplitz matrix problems. **93e:65073**
Jin, Xiao-Qing (*with* Chan, Raymond H.) Circulant preconditioners for second order hyperbolic equations. (English summary) **93j:65066**
Kenney, Charles (*with* Laub, Alan J.) On scaling Newton's method for polar decomposition and the matrix sign function. **93a:65060**
Kunoth, Angela *see* **Dahmen, Wolfgang, 93j:65065**
Kuznetsov, Yurii Alekseevich A new parallel algebraic preconditioner. (English summary) **93g:65059**
Laub, Alan J. *see* **Kenney, Charles, 93a:65060**
Luo, Jenn-Ching An incomplete inverse as a preconditioner for the conjugate gradient method. (English summary)
Montero García, Gustavo (*with* Winter, Gabriel; Almeida Benítez, Pedro; Cuesta Moreno, Pedro) Solution of nonsymmetric systems with preconditioned conjugate double gradient in adaptive processes. (Spanish. English summary) (*see* **93j:00009**)
Sekii, Takashi *see* **Hansen, Per Christian; et al., 93e:65072**
Serra, Stefano *see* **Di Benedetto, Fabio; et al., 93h:65063**
Shibahashi, Hiromoto *see* **Hansen, Per Christian; et al., 93e:65072**
Sun, Ji Guang Extensions of the Kantorovich inequality and the Bauer-Fike inequality. **93e:65074**
Tyrtyshnikov, E. E. On symmetrizing preconditioners with low rank updates. (English summary) **93g:65060**
Winter, Gabriel *see* **Montero García, Gustavo; et al., (93j:00009)**

Items with secondary classifications in 65F35

Abramchuk, V. S. Directed search methods for solving the systems $Ax = f$. (Russian. English summary) **93c:65038**
Barlow, Jesse L. (*with* Vemulapati, Udaya B.) Rank detection methods for sparse matrices. (English summary) **93f:65041**
Bischof, Christian H. *see* **Shroff, Gautam M., 93e:65067**
Brugnano, L. (*with* Trigiante, D.) Tridiagonal matrices: invertibility and conditioning. **93b:15007**
Cai, Xiao-Chuan *see* **Xu, Jinchao, 93a:65059**
Chan, Raymond H. (*with* Jin, Xiao-Qing) Skew-circulant preconditioners for skew-Hermitian type Toeplitz systems. (*see* **93b:00022**)
— (*with* Yeung, Man-Chung) Jackson's theorem and circulant preconditioned Toeplitz systems. **93c:65046**
— (*with* Chan, Tony F. C.) Circulant preconditioners for elliptic problems. **93c:65131**
— (*with* Jin, Xiao-Qing) A family of block preconditioners for block systems. (English summary) **93e:65050**
Chan, Tony F. C. (*with* Hansen, Per Christian) A look-ahead Levinson algorithm for indefinite Toeplitz systems. **93a:65032**
— *see also* **Chan, Raymond H., 93c:65131**
Chen, Guang Jun *see* **Xiu, Nai Hua, 93m:65041**
Erěmin, A. Yu. *see* **Kolotilina, L. Yu., 93m:65061**
Ewing, Richard E. (*with* Vassilevski, Panayot S.) Two-level iterative refinement preconditioners. (English summary) (*see* **93g:65009**)
Ferng, William R. An iterative Lanczos-based condition estimator. (English summary) (*see* **93g:65178**)
Greenbaum, Anne Diagonal scalings of the Laplacian as preconditioners for other elliptic differential operators. **93c:65047**
Gulliksson, Mårten (*with* Wedin, Per-Åke) Modifying the QR-decomposition to constrained and weighted linear least squares. (English summary) **93e:65066**
Guo, Y. H. *see* **Padovan, Joe; et al., 93e:65055**
Hansen, Per Christian *see* **Chan, Tony F. C., 93a:65032**
Higham, Desmond J. (*with* Higham, Nicholas J.) Componentwise perturbation theory for linear systems with multiple right-hand sides. (English summary) **93e:65041**
Higham, Nicholas J. *see* **Higham, Desmond J., 93e:65041**
Inglese, G. A relation between the Hilbert and Vandermonde matrices. **93b:15008**
Jaffard, Stéphane Wavelet methods for fast resolution of elliptic problems. **93i:35042**
Jiang, Hong[1] (*with* Wong, Yau Shu) A parallel alternating direction implicit preconditioning method. **93b:65056**
Jin, Xiao-Qing *see* **Chan, Raymond H., 93e:65050** *and* **(93b:00022)**
Kiss, Béla (*with* Molnárka, Győző) A preconditioned domain decomposition algorithm for the solution of the elliptic Neumann problem. **93a:65172**
Kolotilina, L. Yu. (*with* Erěmin, A. Yu.) Factorized sparse approximate inverse preconditionings. I. Theory. (English summary) **93m:65061**
Krishna, Lala *see* **Padovan, Joe; et al., 93e:65055**
Ku, Takang (*with* Kuo, C.-C. Jay) Spectral properties of preconditioned rational Toeplitz matrices. (English summary) **93m:65047**
Kuo, C.-C. Jay *see* **Ku, Takang, 93m:65047**
Lei, Guang Yao On the approximate computation of extreme eigenvalues and the condition number of nonsingular matrices. (Chinese. English summary) **93b:65066**
Li, Bing Kun *see* **Sun, Jia Chang, (93d:65004)**
Li, You Ming Estimates of $\|B^{-1}A\|$ and their applications. (Chinese. English summary) **93c:65049**
Linzer, Elliot On the stability of solution methods for band Toeplitz systems. **93g:65041**
Liu, Gao Lian (*with* Wang, Chung-Lie) Inverses and variants of inequalities of l_p norms for matrices. **93a:15024**
Magolu, Monga-Made Conditioning analysis of sparse block approximate factorizations. **93c:65063**
Mathias, Roy Evaluating the Fréchet derivative of the matrix exponential. (English summary) **93i:65049**
Mehrotra, Sanjay Implementations of affine scaling methods: approximate solutions of systems of linear equations using preconditioned conjugate gradient methods. (English summary)
Molnárka, Győző *see* **Kiss, Béla, 93a:65172**
Mu, Mo (*with* Rice, John R.) Preconditioner construction with rational approximation. (English summary) (*see* **93k:65003**)
Oswald, Peter On a hierarchical basis multilevel method with nonconforming P1 elements. **93b:65059**
Padovan, Joe (*with* Krishna, Lala; Guo, Y. H.) Partitioned multiply scaled pseudo conjugate gradient schemes. (English summary) **93e:65055**
Pan, Victor (*with* Schreiber, Robert) A fast, preconditioned conjugate gradient Toeplitz solver. (English summary) **93c:65051**
van der Ploeg, Auke Preconditioning techniques for nonsymmetric matrices with application to temperature calculations of cooled concrete. (English summary) **93i:80001**
Rice, John R. *see* **Mu, Mo, (93k:65003)**
Schreiber, Robert *see* **Pan, Victor, 93c:65051**
Sheng, Song Bai (*with* Zhu, Yi Ran) A collinear scaling symmetric rank-one updating algorithm. (Chinese. English summary) **93a:65089**
Shroff, Gautam M. (*with* Bischof, Christian H.) Adaptive condition estimation for rank-one updates of QR factorizations. (English summary) **93e:65067**
Slimani, Omar (*with* Vaillancourt, Rémi) Estimation du conditionnement spectral d'une matrice. (English summary) [Estimation of the spectral conditioning of a matrix] **93i:15005**
Sun, Ji Guang On condition numbers of a nondefective multiple eigenvalue. **93a:65056**
Sun, Jia Chang (*with* Li, Bing Kun) Parallel multilevel B-spline preconditioners for the biharmonic problem. (English summary) (*see* **93d:65004**)
Sun, Xingping Norm estimates for inverses of Euclidean distance matrices. (English summary) **93i:41026**
Trigiante, D. *see* **Brugnano, L., 93b:15007**
Vaillancourt, Rémi *see* **Slimani, Omar, 93i:15005**
Vassilevski, Panayot S. Preconditioning nonsymmetric and indefinite finite element matrices. **93c:65133**
— *see also* **Ewing, Richard E., (93g:65009)**
Vavasis, Stephen A. Preconditioning for boundary integral equations. **93b:65062**
Vemulapati, Udaya B. *see* **Barlow, Jesse L., 93f:65041**
Wang, Chung-Lie *see* **Liu, Gao Lian, 93a:15024**
Wang, Zhi Zhong *see* **Zhu, Yang Ming**
Wedin, Per-Åke *see* **Gulliksson, Mårten, 93e:65066**
Wei, Mu Sheng Perturbation theory for the rank-deficient equality constrained least squares problem. (English summary) **93i:65046**
Wong, Yau Shu *see* **Jiang, Hong[1], 93b:65056**
Xiu, Nai Hua (*with* Chen, Guang Jun) Optimality of updating matrices of Abaffy-Broyden-Spedicato algorithms. (Chinese. English and Chinese summaries) **93m:65041**
Xu, Jinchao (*with* Cai, Xiao-Chuan) A preconditioned GMRES method for nonsymmetric or indefinite problems. **93a:65059**
Yeung, Man-Chung *see* **Chan, Raymond H., 93c:65046**
Zhang, Sheng[2] Preconditioning domain decomposition for three-dimensional problems. (Chinese. English and Chinese summaries) **93i:65118**
Zhu, Yang Ming (*with* Wang, Zhi Zhong) A new method for identifying ill-conditioned matrices. (Chinese)
Zhu, Yi Ran *see* **Sheng, Song Bai, 93a:65089**

65F40 Determinants

Items with secondary classifications in 65F40

Gasca, Mariano (*with* Micchelli, Charles A.; Peña, Juan Manuel) Almost strictly totally positive matrices. **93b:65015**

Li, Tien-Yien (*with* Zeng, Zhong Gang) Homotopy-determinant algorithm for solving nonsymmetric eigenvalue problems. **93a:65054**
Micchelli, Charles A. *see* **Gasca, Mariano; et al., 93b:65015**
Peña, Juan Manuel *see* **Gasca, Mariano; et al., 93b:65015**
Zeng, Zhong Gang *see* **Li, Tien-Yien, 93a:65054**

65F50 Sparse matrices

Alaghband, Gita Solution of structurally identical sparse linear systems based on a parallel pivoting technique. (English summary) (*see* **93g:65178**)
Alvarado, Fernando L. (*with* Schreiber, Robert) Optimal parallel solution of sparse triangular systems. (English summary)
Baker, Allen Jerome *see* **Noronha, W. P.; et al., 93c:65064**
Barlow, Jesse L. (*with* Vemulapati, Udaya B.) Rank detection methods for sparse matrices. (English summary) **93f:65041**
— *see also* **Lu, Szu-Min, (93k:65003)**
Bhat, M. V. (*with* Habashi, W. G.; Liu, Joseph W. H.; Nguyen, V. N.; Peeters, M. F.) A note on nested dissection for rectangular grids. (English summary)
Carey, Graham *see* **Joubert, Wayne; et al., (93g:65178)**
Chang, S. Frank (*with* McCormick, S. Thomas) A hierarchical algorithm for making sparse matrices sparser. (English summary) **93d:65047**
Charrier, P. (*with* Roman, J.) Study of an adaptive blocking for a parallel nested dissection algorithm. (English summary) (*see* **93g:65178**)
Daoudi, E. M. (*with* Manneback, P.) Parallel ICCG algorithm on distributed memory architecture. (English summary) (*see* **93g:65178**)
Eisenstat, Stanley C. (*with* Liu, Joseph W. H.) Exploiting structural symmetry in a sparse partial pivoting code. (English summary)
Erëmin, A. Yu. *see* **Kolotilina, L. Yu., 93m:65061**
Gravvanis, George A. *see* **Lipitakis, Elias A., 93b:65073**
Habashi, W. G. *see* **Bhat, M. V.; et al.**
Heinreichsberger, O. (*with* Selberherr, S.; Stiftinger, M.) Three-dimensional MOS device simulation on a connection machine. (English summary) (*see* **93g:65178**)
Highnam, Peter *see* **Joubert, Wayne; et al., (93g:65178)**
Hsiao, Hsing T'ai *see* **Lin, Ts'ung Wu; et al.**
Huang, Chin T'ien *see* **Lin, Ts'ung Wu; et al.**
Huang, De Cai (*with* Yang, Wan Nian) Convergence of AOR methods for large sparse least-squares problems. (Chinese. English summary) **93j:65067**
Joubert, Wayne (*with* Highnam, Peter; Carey, Graham) PCG/CM: a package for the iterative solution of large sparse linear systems on the connection machine. (English summary) (*see* **93g:65178**)
Kamath, Chandrika (*with* Weeratunga, Sisira) Projection methods on a distributed memory MIMD multiprocessor. (English summary) (*see* **93g:65178**)
Kolotilina, L. Yu. (*with* Erëmin, A. Yu.) Factorized sparse approximate inverse preconditionings. I. Theory. (English summary) **93m:65061**
Koo, Bon Ung (*with* Lee, Byung Chai) An efficient profile reduction algorithm based on the frontal ordering scheme and the graph theory. (English summary)
Lee, Byung Chai *see* **Koo, Bon Ung**
Lin, Ts'ung Wu (*with* Hsiao, Hsing T'ai; Huang, Chin T'ien) Decomposition of singular large sparse matrix by adding dummy links and dummy degrees. (English and Chinese summaries)
Lipitakis, Elias A. (*with* Gravvanis, George A.) The numerical solution of large finite element systems by explicit preconditioning semi-direct methods. **93b:65073**
Liu, Joseph W. H. (*with* Ng, Esmond G.; Peyton, Barry W.) On finding supernodes for sparse matrix computations. (English summary) **93h:65064**
— *see also* **Bhat, M. V.; et al.** *and* **Eisenstat, Stanley C.**
Lu, Szu-Min (*with* Barlow, Jesse L.) Parallel computation of orthogonal factors of sparse matrices. (English summary) (*see* **93k:65003**)
Luo, Jenn-Ching Algorithms for reducing the bandwidth and profile of a sparse matrix. (English summary) **93c:65062**
— Extended concept of stair-shape sparsity for the inverse of an asymmetric matrix. (English summary) **93i:65052**
Magolu, Monga-Made Conditioning analysis of sparse block approximate factorizations. **93c:65063**
Mai, Tsun-Zee Modified Lanczos method for solving large sparse linear systems. (English summary) **93j:65068**
Manneback, P. *see* **Daoudi, E. M., (93g:65178)**
Maslyankin, V. I. (*with* Mukhina, M. I.; Reznik, A. A.) On the solution of systems of linear equations with a sparse matrix by iterative methods. (Russian. English and Russian summaries)
McCormick, S. Thomas *see* **Chang, S. Frank, 93d:65047**
Mukhina, M. I. *see* **Maslyankin, V. I.; et al.**
Ng, Esmond G. *see* **Liu, Joseph W. H.; et al., 93h:65064**
Nguyen, V. N. *see* **Bhat, M. V.; et al.**
Noronha, W. P. (*with* Wachspress, E. L.; Baker, Allen Jerome) Consistent sparse factorization. (English summary) **93c:65064**
Peeters, M. F. *see* **Bhat, M. V.; et al.**
Peyton, Barry W. *see* **Liu, Joseph W. H.; et al., 93h:65064**
Pomerance, Carl (*with* Smith, Jeffrey W.) Reduction of huge, sparse matrices over finite fields via created catastrophes. (English summary)
Pothen, Alex (*with* Sun, Chunguang) Distributed multifrontal factorization using clique trees. (English summary) (*see* **93g:65178**)
Reznik, A. A. *see* **Maslyankin, V. I.; et al.**
Roman, J. *see* **Charrier, P., (93g:65178)**
Saad, Youcef New trends in preconditioned Krylov subspace methods. (English summary) (*see* **93d:65004**)
Sadkane, Miloud A block Arnoldi-Chebyshev method for computing the leading eigenpairs of large sparse unsymmetric matrices. (English summary) **93i:65053**
— Block-Arnoldi and Davidson methods for unsymmetric large eigenvalue problems. (English summary) **93i:65054**
Schlick, Tamar Modified Cholesky factorizations for sparse preconditioners. (English summary) **93k:65039**
Schreiber, Robert *see* **Alvarado, Fernando L.**
Selberherr, S. *see* **Heinreichsberger, O.; et al., (93g:65178)**
Smith, Jeffrey W. *see* **Pomerance, Carl**
Stiftinger, M. *see* **Heinreichsberger, O.; et al., (93g:65178)**
Sun, Chunguang *see* **Pothen, Alex, (93g:65178)**
Vemulapati, Udaya B. *see* **Barlow, Jesse L., 93f:65041**
Wachspress, E. L. *see* **Noronha, W. P.; et al., 93c:65064**
Weeratunga, Sisira *see* **Kamath, Chandrika, (93g:65178)**
Yang, Chao W. A parallel multifrontal method for sparse symmetric definite linear systems on the Cray Y-MP. (English summary) (*see* **93g:65178**)
Yang, Guang-Chung A unified computational model for the parallel solution of general sparse nonsymmetric linear systems on shared-memory multiprocessors. (English summary) (*see* **93g:65178**)
Yang, Wan Nian *see* **Huang, De Cai, 93j:65067**
Zlatev, Zahari ★ Computational methods for general sparse matrices. **93b:65074**

Items with secondary classifications in 65F50

Aiello, William *see* **Ogielski, Andrew T.**
Alvarado, Fernando L. (*with* Schreiber, Robert) Fast parallel solution of sparse triangular systems. (English summary) (*see* **93j:00007**)
Arioli, Mario (*with* Duff, I. S.; Ruiz, Daniel; Sadkane, Miloud) Techniques for accelerating the block Cimmino method. (English summary) (*see* **93g:65178**)
Axelsson, Owe Bounds of eigenvalues of preconditioned matrices. **93e:65056**
Basu, Arup *see* **Kumar, P. Sreenivasa; et al., 93g:65177**
Berry, Michael W. (*with* Golub, Gene H.) Estimating the largest singular values of large sparse matrices via modified moments. **93a:65046**
Boley, Daniel L. (*with* Elhay, Sylvan; Golub, Gene H.; Gutknecht, Martin H.) Nonsymmetric Lanczos and finding orthogonal polynomials associated with indefinite weights. **93f:65033**
Chronopoulos, Anthony T. *see* **Kim, Sung Kwon, 93h:65050**
Dennis, John E., Jr. (*with* Martínez, José Mario; Zhang, Xiaodong[1]) Parallel block triangular decompositions for solving sparse nonlinear systems of equations. (English summary) (*see* **93g:65178**)
Duff, I. S. *see* **Arioli, Mario; et al., (93g:65178)**
Elhay, Sylvan *see* **Boley, Daniel L.; et al., 93f:65033**
Evangelou, S. N. A numerical study of sparse random matrices. (English summary) **93j:82034**
Gilbert, John R. (*with* Schreiber, Robert) Highly parallel sparse Cholesky factorization. **93g:65040**
Golub, Gene H. *see* **Berry, Michael W., 93a:65046** *and* **Boley, Daniel L.; et al., 93f:65033**
Gutknecht, Martin H. *see* **Boley, Daniel L.; et al., 93f:65033**
Hagelstein, Peter L. *see* **Kaushik, Sumanth, 93c:65042**
Kaushik, Sumanth (*with* Hagelstein, Peter L.) The application of the preconditioned biconjugate gradient algorithm to NLTE rate matrix equations. **93c:65042**
Kim, Sung Kwon (*with* Chronopoulos, Anthony T.) An efficient nonsymmetric Lanczos method on parallel vector computers. (English summary) **93h:65050**
Kumar, M. Kishore *see* **Kumar, P. Sreenivasa; et al., 93g:65177**
Kumar, P. Sreenivasa (*with* Kumar, M. Kishore; Basu, Arup) A parallel algorithm for elimination tree computation and symbolic factorization. (English summary) **93g:65177**
Luo, Jenn-Ching A sparsity for decomposing a symmetric matrix. (English summary)
Magolu, Monga-Made Analytical bounds for block approximate factorization methods. (English summary) **93i:65048**
Martínez, José Mario *see* **Dennis, John E., Jr.; et al., (93g:65178)**
Meurant, Gérard A. A review on the inverse of symmetric tridiagonal and block tridiagonal matrices. **93d:15007**
Molchanov, I. N. (*with* Reshetukha, I. V.; Rudich, O. V.; Semenchenko, S. P.) ★ Методы решения больших разреженных систем уравнений на многопроцессорном вычислительном комплексе (МВК). (Russian. Russian summary) [Methods for solving large sparse systems of equations on a multiprocessor computer system (MCS)] **93f:65100**
Mu, Mo (*with* Rice, John R.) An organization of sparse Gauss elimination for solving partial differential equations on distributed memory machines. (English summary)
Ogielski, Andrew T. (*with* Aiello, William) Sparse matrix computations on parallel processor arrays. (English summary)
Parlett, Beresford N. Reduction to tridiagonal form and minimal realizations. **93c:65059**
Pierce, D. J. Sparse matrix techniques for a sparse rank revealing QR factorization. (English summary) (*see* **93g:93006**)
Qin, Ning *see* **Xu, Xue Rong; et al., 93d:65040**
Reshetukha, I. V. *see* **Molchanov, I. N.; et al., 93f:65100**
Rice, John R. *see* **Mu, Mo**
Richards, Bryan E. *see* **Xu, Xue Rong; et al., 93d:65040**
Rudich, O. V. *see* **Molchanov, I. N.; et al., 93f:65100**
Ruiz, Daniel *see* **Arioli, Mario; et al., (93g:65178)**
Saad, Youcef ★ Numerical methods for large eigenvalue problems. **93h:65052**
Sadkane, Miloud *see* **Arioli, Mario; et al., (93g:65178)**
Schreiber, Robert *see* **Gilbert, John R., 93g:65040** *and* **Alvarado, Fernando L., (93j:00007)**
Semenchenko, S. P. *see* **Molchanov, I. N.; et al., 93f:65100**
Sheng, Qin *see* **Yap, V. B., 93h:65042**
Xu, Xue Rong (*with* Qin, Ning; Richards, Bryan E.) α-GMRES: a new parallelizable iterative solver for large sparse nonsymmetric linear systems arising from CFD. (English summary) **93d:65040**
Yap, V. B. (*with* Sheng, Qin) Numerical solutions of systems of linear equations. **93h:65042**
Zhang, Xiaodong[1] *see* **Dennis, John E., Jr.; et al., (93g:65178)**

65F99 None of the above, but in this section

Allen, Jeffery C. *see* **Whitehouse, Harper J., (93m:00045)**

Dong, Zheng Zhu *see* **Huang, Ping**
Filippovich, A. P. *see* **Kobozeva, A. A.**
Guo, Su Yun *see* **Li, Dong Lin; et al.**
Hari, Vjeran (*with* Rhee, Noah H.) On a pair of almost diagonal skew-symmetric and symmetric positive definite matrices. (*see* **93k:65003**)
Huang, Ping (*with* Dong, Zheng Zhu) Numerical residual elimination method of finite differential equations. (Chinese. English and Chinese summaries)
Il'in, V. P. (*with* Itskovich, E. A.) Experimental analysis of explicit incomplete factorization methods. (Russian) (*see* **93i:65007**)
Itskovich, E. A. *see* **Il'in, V. P.**, (**93i:65007**)
Kobozeva, A. A. (*with* Filippovich, A. P.) Frontal and profile methods for solving systems of linear algebraic equations in mixed finite-element methods. (Russian. Russian summary)
Li, Dong Lin (*with* Guo, Su Yun; Tian, Zi Yun) A new pseudodiagonalization algorithm with automatic weighting. (Chinese. English and Chinese summaries)
Linhares, Odelar Leite Some types of integral test matrices with explicit integral inverses. (Portuguese. English and Portuguese summaries)
Lo, Sai-Huen On bandsolver using skyline storage. (English summary)
Nedashkovskii, N. A. On the solution of systems of linear algebraic equations with symbolic elements. (Russian. Russian summary) **93f:65042**
Rhee, Noah H. *see* **Hari, Vjeran**, (**93k:65003**)
Rump, Siegfried M. Inclusion of the solution of large linear systems with positive definite symmetric M-matrix. (English summary) (*see* **93i:65006**)
Smith, Richard A. (*with* Weiser, Alan) Semicoarsening multigrid on a hypercube. (English summary)
Tian, Zi Yun *see* **Li, Dong Lin; et al.**
Weiser, Alan *see* **Smith, Richard A.**
Whitehouse, Harper J. (*with* Allen, Jeffery C.) Displacement rank and deconvolution: applications and open problems. (English summary) (*see* **93m:00045**)

Items with secondary classifications in 65F99

Atallah, Mikhail J. A faster parallel algorithm for a matrix searching problem. (English summary) **93m:68062**
Baxter, B. J. C. Norm estimates for inverses of distance matrices. (*see* **93d:65022**)
Beattie, Christopher (*with* Smith, S. W.) Optimal matrix approximants in structural identification. **93c:90074**
Bohlender, Gerd (*with* Wolff von Gudenberg, Jürgen) Accurate matrix multiplications on the array computer AMT/DAP. (English summary) (*see* **93e:00022**)
Brualdi, Richard A. (*with* Chavey, Keith L.; Shader, Bryan L.) Conditional sign-solvability. (English summary) **93m:15003**
Chan, Tony F. C. (*with* Olkin, Julia A.; Cooley, Donald W.) Solving quadratically constrained least squares using black box solvers. (English summary) **93e:65091**
Chavey, Keith L. *see* **Brualdi, Richard A.; et al.**, **93m:15003**
Chen, Shao Chun (*with* Shi, Zhong Ci) On the free formation of constructing stiffness matrices. (English summary) (*see* **93d:65004**)
Chu, Eleanor (*with* George, Alan) Parallel algorithms and subcube embedding on a hypercube. (English summary) **93i:65133**
Cooley, Donald W. *see* **Chan, Tony F. C.; et al.**, **93e:65091**
Desprez, F. (*with* Tourancheau, B.) Parallel BLAS and BLACS for numerical algorithms on a reconfigurable network. (English summary) (*see* **93m:65006**)
Evans, David J. Design of parallel numerical algorithms. (English summary) (*see* **93f:00016**)
Gasca, Mariano (*with* Martínez, José J.) Bivariate Hermite-Birkhoff interpolation and Vandermonde determinants. (English summary) **93h:65013**
George, Alan *see* **Chu, Eleanor**, **93i:65133**
Gibbard, M. J. *see* **Stefanidis, P.; et al.**, **93a:93004**
Heinig, Georg Inverse problems for Hankel and Toeplitz matrices. **93b:15016**
Higham, Nicholas J. Optimization by direct search in matrix computations. (English summary) **93m:65083**
Ilyushchenko, V. I. ★ Reversible mathematics—an artificial science or a scientific art?
— ★ The general structure of solutions of unstable inverse problems.
Jiang, Peiqing *see* **Taha, Thiab R.**, (**93k:65003**)
Júdice, Joaquím J. (*with* Pires, F. M.) Basic-set algorithm for a generalized linear complementarity problem. (English summary) **93h:90098**
Kimbrel, Tracy (*with* Sinha, Rakesh Kumar) A probabilistic algorithm for verifying matrix products using $O(n^2)$ time and $\log_2 n + O(1)$ random bits.
Kobozeva, A. A. (*with* Maslovskaya, L. V.) A generalized Cholesky algorithm in problems in the theory of plates and shells. (Russian. Russian summary) **93h:73039**
Kussul', N. N. Solution of a difference system of linear equations and inequalities using fuzzy ellipsoidal estimates. (Russian. Russian summary)
Loyens, Ludovicus Daniël Joseph Carolus ★ A design method for parallel programs. **93f:65099**
Martínez, José J. *see* **Gasca, Mariano**, **93h:65013**
Maslovskaya, L. V. *see* **Kobozeva, A. A.**, **93h:73039**
Moonen, Marc (*with* Van Dooren, Paul; Vandewalle, Joos) A systolic array for SVD updating. (English summary)
Mráz, F. Nonnegative solutions of interval linear systems. (English summary) **93j:65072**
Olkin, Julia A. *see* **Chan, Tony F. C.; et al.**, **93e:65091**
Oswald, Peter Hierarchical conforming finite element methods for the biharmonic equation. (English summary) **93k:65098**
Pan, Victor Decreasing the displacement rank of a matrix. (English summary) **93k:15039**
Papliński, A. P. *see* **Stefanidis, P.; et al.**, **93a:93004**
Pires, F. M. *see* **Júdice, Joaquím J.**, **93h:90098**
Rohn, Jiří Interval matrices: singularity and real eigenvalues. (English summary) **93j:65075**
Shader, Bryan L. *see* **Brualdi, Richard A.; et al.**, **93m:15003**
Shi, Zhong Ci *see* **Chen, Shao Chun**, (**93d:65004**)
Shulyak, S. G. *see* **Uteshev, A. Yu.**, **93k:65044**
Sinha, Rakesh Kumar *see* **Kimbrel, Tracy**
Slabospits'kii, A. S. Conditions for the convergence of the method of least squares. (Russian) **93h:65178**
Smith, S. W. *see* **Beattie, Christopher**, **93c:90074**
Song, Yong Zhong Lower bounds for the Perron root of a nonnegative matrix. **93d:15032**
Stefanidis, P. (*with* Papliński, A. P.; Gibbard, M. J.) ★ Numerical operations with polynomial matrices. **93a:93004**
Taha, Thiab R. (*with* Jiang, Peiqing) A parallel algorithm for solving periodic tridiagonal Toeplitz linear systems. (English summary) (*see* **93k:65003**)
Tourancheau, B. *see* **Desprez, F.**, (**93m:65006**)
Uteshev, A. Yu. (*with* Shulyak, S. G.) Hermite's method of separation of solutions of systems of algebraic equations and its applications. (English summary) **93k:65044**
Vandewalle, Joos *see* **Moonen, Marc; et al.**
Van Dooren, Paul *see* **Moonen, Marc; et al.**
Wang, Xin Min Sufficient conditions for generalized diagonally dominant matrices. (Chinese. English summary)
Wolff von Gudenberg, Jürgen *see* **Bohlender, Gerd**, (**93e:00022**)
Xiao, Cheng Shan A new method for solving canonical Lyapunov matrix equations. (Chinese. English and Chinese summaries) **93h:93027**

65Gxx Error analysis

Items with secondary classifications in 65Gxx

Linzer, Elliot On the stability of solution methods for band Toeplitz systems. **93g:65041**

65G05 Roundoff error

Alt, René On the actual convergence order of computed sequences. (English summary) (*see* **93j:00007**)
Calvetti, Daniela A stochastic roundoff error analysis for the convolution. **93a:65061**
O'Hara, H. *see* **Smith, F. J.**, (**93j:00007**)
Smith, F. J. (*with* O'Hara, H.) Failure probability for error estimates to quadrature formulae. (English summary) (*see* **93j:00007**)
Yalamov, Plamen Y. Round-off error analysis of the bordering method. (English summary)

Items with secondary classifications in 65G05

Björck, Å. (*with* Paige, C. C.) Loss and recapture of orthogonality in the modified Gram-Schmidt algorithm. **93c:65056**
Boley, Daniel L. (*with* Elhay, Sylvan; Golub, Gene H.; Gutknecht, Martin H.) Nonsymmetric Lanczos and finding orthogonal polynomials associated with indefinite weights. **93f:65033**
de Boor, Carl On the error in multivariate polynomial interpolation. (English summary) **93j:65013**
Cox, Christopher L. (*with* Moss, William F.) Backward error analysis for a pole assignment algorithm. II. The complex case. (English summary) **93i:93062**
Demmel, James (*with* Veselić, Krešimir) Jacobi's method is more accurate than QR. (English summary) **93e:65057**
Dobner, Hans-Jürgen (*with* Kaucher, Edgar) Inclusion methods for integral equations. (English summary) **93j:65219**
Elhay, Sylvan *see* **Boley, Daniel L.; et al.**, **93f:65033**
Favati, P. (*with* Lotti, Grazia; Romani, Francesco) Asymptotic expansion of error in interpolatory quadrature. (English summary) **93e:65016**
Filimonenkov, D. O. Error estimates for some piecewise-polynomial approximations in the plane. (Russian. Russian summary) **93i:65023**
Golub, Gene H. *see* **Boley, Daniel L.; et al.**, **93f:65033**
Gulliksson, Mårten (*with* Wedin, Per-Åke) Modifying the QR-decomposition to constrained and weighted linear least squares. (English summary) **93e:65066**
Gutknecht, Martin H. *see* **Boley, Daniel L.; et al.**, **93f:65033**
Higham, Nicholas J. Stability of a method for multiplying complex matrices with three real matrix multiplications. **93a:65033**
— Optimization by direct search in matrix computations. (English summary) **93m:65083**
Kaucher, Edgar *see* **Dobner, Hans-Jürgen**, **93j:65219**
Linzer, Elliot On the stability of transform-based circular deconvolution. (English summary) **93e:65044**
Lotti, Grazia *see* **Favati, P.; et al.**, **93e:65016**
Lozier, D. W. (*with* Turner, Peter R.) Robust parallel computation in floating-point and SLI arithmetic. (English and German summaries) **93e:65161**
Madych, Wally R. Miscellaneous error bounds for multiquadric and related interpolators. (English summary) **93i:65018**
Moss, William F. *see* **Cox, Christopher L.**, **93i:93062**
Namasivayam, S. (*with* Ortiz, E. L.) Error analysis of the tau method: dependence of the approximation error on the choice of perturbation term. (English summary) **93k:65061**
Novak, Erich (*with* Ritter, Klaus) Average errors for zero finding: lower bounds. **93j:65078**
Oelschlägel, Dieter Modelling uncertain data by means of interval mathematics—the interval Leontief model. (*see* **93i:00021**)
Ortiz, E. L. *see* **Namasivayam, S.**, **93k:65061**
Paige, C. C. *see* **Björck, Å.**, **93c:65056**
Pichat, Michèle Sets of floating-point results associated with an algebraic algorithm. (English summary) **93m:68010**
Popov, Wladimir On the axiomatizations of floating-point arithmetics. **93g:03024**
Redivo Zaglia, Michela Particular rules for the Θ-algorithm. (English summary) **93h:65005**
Ritter, Klaus *see* **Novak, Erich**, **93j:65078**
Romani, Francesco *see* **Favati, P.; et al.**, **93e:65016**
Shishkin, S. A. On the extension of the possibilities of matrix inversion procedures. (Russian) **93e:65047a**
— Letter to the editors: "On the extension of the possibilities of matrix inversion procedures". (Russian) **93e:65047b**
Sun, Ji Guang Rounding-error and perturbation bounds for the Cholesky and LDL^T factorizations. **93g:65058**
Turner, Peter R. *see* **Lozier, D. W.**, **93e:65161**
Veselić, Krešimir *see* **Demmel, James**, **93e:65057**
Wedin, Per-Åke *see* **Gulliksson, Mårten**, **93e:65066**
Yoshida, Toshio Error analysis of the recurrence technique for calculation of Bessel functions $I_\nu(x)$. (English summary) **93m:65027**

65G10 Interval and finite arithmetic

Andreev, Andrei St. *see* **Atanassova, Lidiya, 93h:65065**

Atanassova, Lidiya (*with* Andreev, Andrei St.) On some higher order interval methods. (English summary) **93h:65065**

Bauch, Hartmut Self-validating algorithms and imprecise data structures for ordinary initial value and boundary value problems. (*see* **93i:00021**)

Bethke, D. *see* **Herzberger, Jürgen, 93k:65040**

Dimitrova, Neli S. (*with* Markov, Svetoslav M.; Popova, E. D.) Extended interval arithmetics: new results and applications. (English summary) **93m:65062**

Dobner, Hans-Jürgen (*with* Kaucher, Edgar) Singular operator equations with functional constraints. (English summary) **93j:65069**

Dobronets, B. S. (*with* Senashov, V. I.) On interval extensions of some classes of functions. (Russian. English and Russian summaries)

Glazunov, N. M. (*with* Khodzhiev, Sh. Kh.) Interval extensions of direct methods for solving degenerate systems of linear algebraic equations. (Russian. Russian summary)

Gupta, D. K. (*with* Kaul, C. N.) A note on the computation of fixed points in interval analysis.

Hansen, Eldon Bounding the solution of interval linear equations. (English summary) **93e:65075**

Hertz, David On the extreme eigenvalues of Toeplitz and real Hankel interval matrices. (English summary) **93m:65063**

Herzberger, Jürgen (*with* Petković, Ljiljana D.) On the construction of efficient interval Schulz's methods for bounding the inverse matrix. **93c:65065**

— (*with* Bethke, D.) Interval Schulz's methods: on the case of an interval matrix. (English summary) **93k:65040**

Horiuchi, Kazuo *see* **Yamamura, Kiyotaka; et al.**

Jahn, K.-U. Finite sets of hyperrectangles and applications. (English summary) **93j:65070**

Jansson, C. Rigorous sensitivity analysis for real symmetric matrices with uncertain data. (English summary) **93h:65066**

Kaucher, Edgar *see* **Dobner, Hans-Jürgen, 93j:65069**

Kaul, C. N. *see* **Gupta, D. K.**

Khodzhiev, Sh. Kh. *see* **Glazunov, N. M.**

Kupriyanova, L. V. Finding algebraic interval solutions of quadratic interval equations. (Russian) (*see* **93b:00016**)

Lin, Qun (*with* Rokne, J. G.) A family of centered forms for rational functions. (English summary) **93h:65067**

Markov, Svetoslav M. Extended interval arithmetic involving infinite intervals. (English summary) **93h:65068**

— *see also* **Dimitrova, Neli S.; et al., 93m:65062**

Mayer, Günter Enclosures for eigenvalues and eigenvectors. (English summary) **93j:65071**

Mráz, F. Nonnegative solutions of interval linear systems. (English summary) **93j:65072**

Okuda, Akira Numerical oscillation in the procedure for obtaining a guaranteed interval solution. (English summary) (*see* **93i:65006**)

Petković, Ljiljana D. The analysis of the numerical stability of iterative methods using interval arithmetic. (English summary) **93j:65073**

— *see also* **Herzberger, Jürgen, 93c:65065**

Petković, M. S. Inclusion methods for the zeros of analytic functions. (English summary) **93j:65074**

Popova, E. D. *see* **Dimitrova, Neli S.; et al., 93m:65062**

Rex, G. Zu a posteriori Fehlerabschätzungen bei linearen Gleichungssystemen. [On a posteriori error estimates in systems of linear equations] **93h:65069**

Rohn, Jiří Interval matrices: singularity and real eigenvalues. (English summary) **93j:65075**

Rokne, J. G. *see* **Lin, Qun, 93h:65067**

Rump, Siegfried M. On the solution of interval linear systems. (German summary) **93a:65062**

Senashov, V. I. *see* **Dobronets, B. S.**

Ushida, Akio *see* **Yamamura, Kiyotaka; et al.**

Wang, Qing Yin A grey number matrix of interval type and its operation. (Chinese. English and Chinese summaries) **93m:65064**

Yamamura, Kiyotaka (*with* Ushida, Akio; Horiuchi, Kazuo) Improving the efficiency of interval analysis by Kevorkian's decomposition technique.

Zyuzin, V. S. An iterative method for solving a system of first-order algebraic interval equations. (Russian) (*see* **93b:00016**)

Items with secondary classifications in 65G10

Adams, Ernst Wilhelm Gear drive vibrations and verified periodic solutions. (English summary) (*see* **93e:00022**)

Alefeld, Götz E. (*with* Potra, Florian A.) Some efficient methods for enclosing simple zeros of nonlinear equations. **93d:65048**

Andreev, Andrei St. *see* **Kyurkchiev, Nikolai V., 93a:65064**

Atanassova, Lidiya (*with* Herzberger, Jürgen) A general approach to simultaneous inclusion methods for polynomial zeros. (English summary) **93j:65076**

— On the R-order of a single-step Nourein type method. (English summary) (*see* **93i:65006**)

Behnke, Henning Bounds for eigenvalues of parameter-dependent matrices. (English and German summaries)

Bernat, Andrew *see* **Kreinovich, V. Ya.; et al., 93e:65160**

Bethke, D. *see* **Herzberger, Jürgen, 93c:65040**

Buehler, David B. *see* **Sederberg, Thomas W., (93d:65022)**

Burgmeier, Peter Controllability and interval mathematics. **93c:93012**

Chen, Xiao Jun (*with* Yamamoto, Tetsuro) On the convergence of some quasi-Newton methods for nonlinear equations with nondifferentiable operators. (English and German summaries) **93f:65045**

Corliss, George F. (*with* Rall, Louis B.) Computing the range of derivatives. (English summary) **93g:65029**

Csendes, Tibor Test results of interval methods for global optimization. (English summary) (*see* **93e:00022**)

Deif, A. S. *see* **Seif, N. P.; et al., 93a:65055**

Deumlich, H. Interval enclosure of the solution set in vector optimization. (English summary) **93k:65058**

Dimitrova, Neli S. On an interval method for solving nonlinear systems. (English summary) **93m:65069**

Dobronets, B. S. On some two-sided methods for solving systems of ordinary differential equations. (English and Russian summaries) **93f:65054**

— *see also* **Gerasimov, V. A.; et al., 93b:65216**

Fischer, Hans Christoph Automatic differentiation and applications. **93j:65032**

Gerasimov, V. A. (*with* Dobronets, B. S.; Shustrov, M. Yu.) Numerical operations for histogram arithmetic and their applications. (Russian) **93b:65216**

Hashem, S. *see* **Seif, N. P.; et al., 93a:65055**

Heindl, G. Inclusions of the range of functions and their derivatives. (English summary) **93h:65019**

Herzberger, Jürgen (*with* Bethke, D.) On two algorithms for bounding the inverses of an interval matrix. (English and Russian summaries) **93c:65040**

— Iterative inclusion of the inverse matrix. **93d:65037**

— *see also* **Petković, M. S., 93h:65072** *and* **Atanassova, Lidiya, 93j:65076**

Hu, Chen-Yi *see* **Kearfott, Ralph Baker; et al., 93d:65051**

Iri, Masao *see* **Kubota, Koichi**

Jansson, C. A global optimization method using interval arithmetic. (English summary) (*see* **93i:65006**)

Jaulin, Luc (*with* Walter, Eric) Guaranteed nonlinear parameter estimation from bounded-error data via interval analysis. (English summary)

Kaguei, S. (*with* Ohsato, A.) Algorithm for evaluating the margin rank of a fuzzy matrix. **93a:65058**

(Kaucher, Edgar) *see* **Computer arithmetic, scientific computation and mathematical modelling, 93e:00022**

Kearfott, Ralph Baker (*with* Hu, Chen-Yi; Novoa, Manuel, III) A review of preconditioners for the interval Gauss-Seidel method. (English and Russian summaries) **93d:65051**

Kerbl, Monika Stepsize control strategies for inclusion algorithms for ODEs. (English summary) **93h:65091**

Klein, Wolfram Inclusion methods for linear and nonlinear systems of Fredholm integral equations of the second kind. (English summary) (*see* **93e:00022**)

— Enclosure methods for linear and nonlinear systems of Fredholm integral equations of the second kind. (English summary) **93i:65128**

Kolev, Lubomir V. (*with* Nenov, I.) Approximate interval solution of an initial value problem for linear ODEs. (*see* **93e:00022**)

— (*with* Mladenov, V. M.) An interval method for determining all T-periodical solutions of nonlinear ODE systems. (*see* **93e:00022**)

— On the stability of dynamic interval systems. **93f:39008**

— Approximate solution of a transient tolerance problem for linear circuits. (English summary) **93k:94013**

Krämer, Walter Stephan Evaluation of polynomials in several variables with high accuracy. (English summary) **93h:65020**

— Computation of interval bounds for elliptic integrals. (English summary) (*see* **93i:65006**)

Kreinovich, V. Ya. (*with* Bernat, Andrew; Villa, Elsa; Mariscal, Yvonne) Parallel computers. Estimate errors caused by imprecise data. (English and Russian summaries) **93e:65160**

Kubota, Koichi (*with* Iri, Masao) Estimates of rounding errors with fast automatic differentiation and interval analysis.

Kyurkchiev, Nikolai V. Über die Konvergenzordnungen einiger Klassen von Iterationsverfahren. [On the order of convergence of some classes of iteration methods] **93b:65075**

— (*with* Andreev, Andrei St.) On the generalization of the Alefeld-Herzberger's method. (German summary) **93a:65064**

Li, You Ming Estimates of $\|B^{-1}A\|$ and their applications. (Chinese. English summary) **93c:65049**

Lohner, Rudolf J. Interval arithmetic in staggered correction format. (English summary) **93j:68010**

Mariscal, Yvonne *see* **Kreinovich, V. Ya.; et al., 93e:65160**

(Markov, Svetoslav M.) *see* **Computer arithmetic, scientific computation and mathematical modelling, 93e:00022**

Mayer, Günter Old and new aspects for the interval Gaussian algorithm. (English summary) (*see* **93e:00022**)

— Some remarks on two interval-arithmetic modifications of the Newton method. (German summary) **93a:65073**

— *see also* **Computer arithmetic, scientific computation and mathematical modelling, 93e:00022**

Mitrović, Ž. *see* **Petković, M. S., 93j:65079**

Mladenov, V. M. *see* **Kolev, Lubomir V., (93e:00022)**

Munack, H. On global optimization using interval arithmetic. (English and German summaries) **93j:90100**

Neher, Markus Inclusion of eigenvalues and eigenfunctions of the Sturm-Liouville problem. (English summary) (*see* **93i:65006**)

Nenov, I. *see* **Kolev, Lubomir V., (93e:00022)**

Novoa, Manuel, III *see* **Kearfott, Ralph Baker; et al., 93d:65051**

Ohsato, A. *see* **Kaguei, S., 93a:65058**

Otten, Werner Verified inclusions of eigenvalues of linear difference and differential equations. (English summary) **93j:65213**

Petković, M. S. (*with* Herzberger, Jürgen) Inclusion of multiple polynomial roots in complex rectangular arithmetic. (English summary) **93h:65072**

— (*with* Mitrović, Ž.) A Halley-like hybrid method for solving polynomial equations. **93j:65079**

Plum, Michael Numerical existence proofs and explicit bounds for solutions of nonlinear elliptic boundary value problems. (English and German summaries) **93f:35079**

Potra, Florian A. *see* **Alefeld, Götz E., 93d:65048**

Rall, Louis B. *see* **Corliss, George F., 93g:65029**

Rihm, Robert Enclosing solutions with switching points in ordinary differential equations. (English summary) (*see* **93i:65006**)

Rohn, Jiří An algorithm for finding a singular matrix in an interval matrix.

Rump, Siegfried M. Inclusion of the solution for large linear systems with M-matrix. (English and Russian summaries) **93e:65045**

Sederberg, Thomas W. (*with* Buehler, David B.) Offsets of polynomial Bézier curves: Hermite approximation with error bounds. (*see* **93d:65022**)

Seif, N. P. (*with* Hashem, S.; Deif, A. S.) Bounding the eigenvectors for symmetric interval matrices. **93a:65055**
Sharyi, S. P. Solvability of the linear tolerance problem. (Russian. English and Russian summaries) **93e:65046**
— Optimal solution of interval linear algebraic systems. I. (English and Russian summaries) **93h:65041**
Shi, Xing Zhong *see* **Xu, Zong Ben, 93h:65085**
Shustrov, M. Yu. *see* **Gerasimov, V. A.; et al., 93b:65216**
Villa, Elsa *see* **Kreinovich, V. Ya.; et al., 93e:65160**
Walter, Eric *see* **Jaulin, Luc**
Xu, Zong Ben (*with* Shi, Xing Zhong) A comparison of point and ball iterations in the contractive mapping case. (English and German summaries) **93h:65085**
Yamamoto, Tetsuro *see* **Chen, Xiao Jun, 93f:65045**
Zakharov, Aleksandr Vasil'evich Linear discrete interval systems stability under small phase desynchronization. (*see* **93a:65004**)

Items listed otherwise than by author

Albena ★ Computer arithmetic, scientific computation and mathematical modelling. **93e:00022**
Computer arithmetic, scientific computation and mathematical modelling ★ Computer arithmetic, scientific computation and mathematical modelling. **93e:00022**
Conference:
Computer Arithmetic, Scientific Computation and Mathematical Modelling ★ Computer arithmetic, scientific computation and mathematical modelling. **93e:00022**

65G99 None of the above, but in this section

Chesneaux, Jean-Marie Stochastic arithmetic properties. (*see* **93j:00007**)
Tikhonov, A. N. Problems with inaccurate data. (Russian) (*see* **93b:65007**)

Items with secondary classifications in 65G99

Klein, Peter Paul Inclusion of eigenvalues for nonselfadjoint eigenvalue problems. (*see* **93b:65007**)
Magolu, Monga-Made Lower eigenvalue bounds for singular pencils of matrices. **93c:65050**
Rump, Siegfried M. Inclusion of the solution of large linear systems with positive definite symmetric M-matrix. (English summary) (*see* **93i:65006**)
Tsao, Nai Kuan On the accuracy of solving triangular systems in parallel. II. **93b:65219**

65Hxx Nonlinear algebraic or transcendental equations

65H05 Single equations

Alefeld, Götz E. (*with* Potra, Florian A.) Some efficient methods for enclosing simple zeros of nonlinear equations. **93d:65048**
Andreev, Andrei St. *see* **Kyurkchiev, Nikolai V., 93a:65064**
Asai, Nobuyoshi The numerical solution of $xJ'_m(x) + HJ_m(x) = 0$ where $m > -1$ and $m > -H$. (Japanese. English summary) (*see* **93e:65040**)
Atanassova, Lidiya (*with* Herzberger, Jürgen) A general approach to simultaneous inclusion methods for polynomial zeros. (English summary) **93j:65076**
— On the R-order of a single-step Nourein type method. (English summary) (*see* **93i:65006**)
Bellido, Anne-Mercedes Construction de fonctions d'itération pour le calcul simultané des racines d'une équation du type $f(s) = 0$. (English and French summaries) [Construction of iteration functions for the simultaneous computation of the roots of an equation $f(s) = 0$] **93h:65070**
Bini, Dario (*with* Gemignani, Luca) On the complexity of polynomial zeros. **93c:65066**
Carstensen, Carsten (*with* Reinders, Martin) On a class of higher-order methods for simultaneous root finding of generalized polynomials. (English summary) **93m:65065**
Chen, Dong Ostrowski-Traub nonlinear iterative methods are not optimal in the sense of S-order of convergence. **93a:65063**
Claudio, Dalcidio Moraes *see* **de Oliveira, Joao Batista S., (93e:00022)**
Fedorov, F. I. Approximate solution of cubic equations. (Russian. English and Russian summaries) **93g:65061**
Gao, Tang An (*with* Yi, Yan Chun; Wang, Ze Ke) Monotonicity of the KNA algorithm for polynomials with simple zeros. (Chinese. Chinese summary)
Gemignani, Luca *see* **Bini, Dario, 93c:65066**
Grant, J. A. (*with* Rahman, Ali bin Abdul) Determination of the zeros of a linear combination of generalised polynomials. (English summary)
Gupta, D. K. (*with* Kaul, C. N.) Two sided iteration with generalised bisection technique for real roots of $f(x) = 0$.
Harada, Minoru Solving $J_k(x) = \varepsilon$ and $J'_k(x) = 0$ for a given $\varepsilon > 0$ and $k > 1$. (Japanese. English summary) (*see* **93e:65040**)
Hart, W. E. (*with* Soesianto, F.) On the solution of highly structured nonlinear equations. **93c:65067**
Herzberger, Jürgen *see* **Petković, M. S., 93h:65072** *and* **Atanassova, Lidiya, 93j:65076**
Hoenders, B. J. (*with* Slump, C. H.) On the determination of the number and multiplicity of zeros of a function. (German summary) **93e:65076**
Huang, Nan Yang² A generalization of the Budan-Fourier theorem and its application in solving equations. (Chinese. English summary) **93c:65068**
Huang, Zheng Da A high-speed parallel disc iteration for determining all zeros of a polynomial. (Chinese. English summary)
Ježek, Jan *see* **Kučera, Vladimír; et al., 93e:65077**
Kanno, Sachio Convergence theorems for the method of tangent hyperbolas. (English summary) **93f:65043**
Kaul, C. N. *see* **Gupta, D. K.**
Kiyoi, Masahiro *see* **Yamamura, Kiyotaka, 93h:65073**
Krupička, Miloš *see* **Kučera, Vladimír; et al., 93e:65077**
Kučera, Vladimír (*with* Ježek, Jan; Krupička, Miloš) Numerical analysis of Diophantine equations. (English summary) **93e:65077**
Kyurkchiev, Nikolai V. A note on a method for localization of the roots of algebraic equations. **93e:65078**
— Über die Konvergenzordnungen einiger Klassen von Iterationsverfahren. [On the order of convergence of some classes of iteration methods] **93b:65075**
— Note on the estimation of the order of convergence of some iterative methods. (English summary) **93g:65062**
— (*with* Andreev, Andrei St.) On the generalization of the Alefeld-Herzberger's method. (German summary) **93a:65064**
Lynge, Walter C. A combined method for polynomial roots using modified Newton-Raphson with minimum searching. (English summary) **93g:65063**
Makrelov, I. On a modification of Chebyshev's method. (English summary)
— On a modification of Chebyshev's method. (Russian summary) **93j:65077**
Manning, Anthony How to be sure of finding a root of a complex polynomial using Newton's method. (English summary) **93h:65071**
Marjanović, Z. M. *see* **Petković, M. S.; et al., 93m:65066**
Mitrović, Ž. *see* **Petković, M. S., 93j:65079**
Miyakoda, Tsuyako Balanced convergence of iterative methods to a multiple zero of a complex polynomial. **93a:65065**
Novak, Erich (*with* Ritter, Klaus) Average errors for zero finding: lower bounds. **93j:65078**
de Oliveira, Joao Batista S. (*with* Claudio, Dalcidio Moraes) A user directed approach to finding roots of polynomials. (English summary) (*see* **93e:00022**)
Petković, M. S. (*with* Herzberger, Jürgen) Inclusion of multiple polynomial roots in complex rectangular arithmetic. (English summary) **93h:65072**
— (*with* Mitrović, Ž.) A Halley-like hybrid method for solving polynomial equations. **93j:65079**
— (*with* Stefanović, L. V.; Marjanović, Z. M.) On the R-order of some accelerated methods for the simultaneous finding of polynomial zeros. (English and German summaries) **93m:65066**
Pönisch, G. An indirect method for computing origins for Hopf bifurcation in two-parameter problems. (German summary) **93c:65069**
Potra, Florian A. *see* **Alefeld, Götz E., 93d:65048**
Puzynin, I. V. *see* **Zhanlav, T., 93g:65071** *and* **93m:65067**
Rahman, Ali bin Abdul On the numerical solution of generalised polynomial equations using an optimisation-based algorithm. (English summary) **93g:65064**
— *see also* **Grant, J. A.**
Reinders, Martin *see* **Carstensen, Carsten, 93m:65065**
Ritter, Klaus *see* **Novak, Erich, 93j:65078**
Sakovich, V. S. Generation of computational grids by means of implicit functions. (Russian. Russian summary) **93g:65065**
Schweikard, Achim Real zero isolation for trigonometric polynomials. (English summary) **93g:65066**
Simeunović, D. M. On a procedure for the simultaneous determination of all zeros of a polynomial. (Italian summary) **93a:65066**
— Note on the location of zeros of a polynomial. **93g:65067**
Slump, C. H. *see* **Hoenders, B. J., 93e:65076**
Soesianto, F. *see* **Hart, W. E., 93c:65067**
Stefanović, L. V. *see* **Petković, M. S.; et al., 93m:65066**
Sun, Fang Yu Some remarks on approximate zeros. (Chinese. English summary) **93f:65044**
Szabó, Zoltán István Newton-parabola combined method for solving equations. (English summary) (*see* **93j:00007**)
Szyszkowicz, M. Finding a zero of a function. (Polish)
Tewarson, R. P. *see* **Wang, Hong, 93i:65055**
Vander Straeten, M. (*with* Van de Vel, H.) Multiple root-finding methods. **93g:65068**
Van de Vel, H. *see* **Vander Straeten, M., 93g:65068**
Vianello, Marco (*with* Zanovello, Renato) On the superlinear convergence of the secant method. **93g:65069**
Vinogradova, A. M. An iteration method for finding the center of a not everywhere defined quasisymmetric function. (Russian. Russian summary) **93g:65070**
Wang, Hong (*with* Tewarson, R. P.) A quasi-Gauss-Newton method for solving nonlinear algebraic equations. (English summary) **93i:65055**
Wang, Ze Ke *see* **Gao, Tang An; et al.**
Yamamura, Kiyotaka (*with* Kiyoi, Masahiro) Algorithms for detecting separability of nonlinear mappings using computational graphs. (English summary) **93h:65073**
Yeyios, A. K. On two sequences of algorithms for approximating square roots. **93d:65049**
Yi, Yan Chun *see* **Gao, Tang An; et al.**
Yukalov, V. I. Stability conditions for method of self-similar approximations. (English summary) **93i:65056**
Zanovello, Renato *see* **Vianello, Marco, 93g:65069**
Zhang, Jian Guo A family of higher-order iteration methods with global convergence in a class of smooth functions. (Chinese. English summary) **93c:65070**
— An iterative method of global convergence without derivatives in the class of smooth functions. (English summary) **93k:65041**
Zhanlav, T. (*with* Puzynin, I. V.) ★ О модификации непрерывного аналога метода Ньютона. (Russian) [On a modification of a continuous analogue of Newton's method] **93g:65071**
— (*with* Puzynin, I. V.) An evolutionary Newtonian process for solving nonlinear equations. (Russian) **93m:65067**

Items with secondary classifications in 65H05

Andreev, Andrei St. *see* **Atanassova, Lidiya, 93h:65065**
Atanassova, Lidiya (*with* Andreev, Andrei St.) On some higher order interval methods. (English summary) **93h:65065**
Beckermann, Bernhard (*with* Wimp, Jet) Some dynamically trivial mappings with applications to the improvement of simple iteration. (English summary) **93h:65018**
Benzinger, Harold E. Julia sets and differential equations. **93e:58098**
Gao, Tang An (*with* Yi, Yan Chun) Computational complexity of the KNA algorithm for locating all zeros of polynomials with simple zeros. (Chinese. English and Chinese summaries)
Han, Bo (*with* Shao, Ji Qun) An existence result for the nonlinear equations in several variables. **93b:58017**

Iserles, Arieh (*with* Saff, E. B.; Liu, Xiao Yan) On zeros of Hankel determinants with iterated polynomial entries. (English summary) **93m:58093**
Kahn, Jeremy Newtonian graphs for families of complex polynomials. **93d:26014**
Kajiwara, Joji (*with* Watanabe, Hideharu) Real zeros of holomorphic functions with parameters. I. Complex numerical integration using Mathematica. **93h:32002**
Liu, Xiao Yan *see* **Iserles, Arieh; et al., 93m:58093**
Mignotte, Maurice On the product of the largest roots of a polynomial. (English summary) **93h:26023**
Osada, Naoki Extrapolation methods for some singular fixed point sequences. (English summary) **93h:65004**
Saff, E. B. *see* **Iserles, Arieh; et al., 93m:58093**
Sakurai, Tetsuya (*with* Sugiura, Hiroshi; Torii, Tatsuo) Numerical factorization of a polynomial by rational Hermite interpolation. (English summary) **93h:65015**
Schwetlick, H. Nonlinear parameter estimation: models, criteria and algorithms. **93f:65012**
Shao, Ji Qun *see* **Han, Bo, 93b:58017**
Sugiura, Hiroshi *see* **Sakurai, Tetsuya; et al., 93h:65015**
Torii, Tatsuo *see* **Sakurai, Tetsuya; et al., 93h:65015**
Watanabe, Hideharu *see* **Kajiwara, Joji, 93h:32002**
Wimp, Jet *see* **Beckermann, Bernhard, 93h:65018**
Yi, Yan Chun *see* **Gao, Tang An**

65H10 Systems of equations

Abaffy, J. Superlinear convergence theorems for Newton-type methods for nonlinear systems of equations. **93g:65072**
Abdel Masih, S. *see* **Milaszewicz, J. P., 93m:65072**
Allgower, Eugene L. (*with* Georg, Kurt; Miranda, Rick) The method of resultants for computing real solutions of polynomial systems. **93e:65079**
Bao, Paul G. (*with* Rokne, J. G.) Convergence of Newton-like methods for nonlinear systems. **93e:65080**
Bayoumi, M. *see* **Hu, Chen-Yi; et al., (93g:65178)**
Bilenko, V. I. Integro-approximational method for the modelling of certain class of nonlinear dynamic objects. (*see* **93a:65004**)
Byrd, Richard H. *see* **Zhang, Xiaodong[1]; et al., 93b:65076**
Carey, Graham *see* **Stagg, A. K., (93g:65178)**
Chaban, V. I. Newton's iterative formula for the 2-matrix argument. (Russian. Russian summary)
Chen, Guang Yi (*with* Xue, Yan Cai) A cubically convergent algorithm for solving the nonlinear eigenvalue problem for symmetric matrices. (Chinese. English summary) **93i:65057**
Chen, Xiao Jun (*with* Yamamoto, Tetsuro) On the convergence of some quasi-Newton methods for nonlinear equations with nondifferentiable operators. (English and German summaries) **93f:65045**
Chronopoulos, Anthony T. Nonlinear CG-like iterative methods. **93a:65067**
Coleman, Thomas F. (*with* Li, Yuying) A globally and quadratically convergent affine scaling method for linear l_1 problems. (English summary) **93g:65073**
— (*with* Li, Yuying) A global and quadratically convergent method for linear l_∞ problems. **93d:65050**
— (*with* Plassmann, Paul E.) A parallel nonlinear least-squares solver: theoretical analysis and numerical results. **93a:65068**
Cools, Ronald *see* **Verschelde, Jan, 93f:65046**
Demirdžić, I. *see* **Kaluderčić, P., 93a:65071**
Dennis, John E., Jr. (*with* Martínez, José Mario; Zhang, Xiaodong[1]) Parallel block triangular decompositions for solving sparse nonlinear systems of equations. (English summary) (*see* **93g:65178**)
Dey, S. K. A massively parallel algorithm for large-scale nonlinear computation with applications to nonlinear parabolic partial differential equations. (English summary) **93m:65068**
Dimitrova, Neli S. On an interval method for solving nonlinear systems. (English summary) **93m:65069**
Fisher, P. G. (*with* Hughes-Hallett, A. J.) Nonstationary model solution techniques and the USA algorithm. (English summary) (*see* **93b:90009**)
Frommer, Andreas Generalized nonlinear diagonal dominance and applications to asynchronous iterative methods. **93a:65069**
— Verallgemeinerte Diagonaldominanz bei nichtlinearen Funktionen. I. (English, German and Russian summaries) [Generalized diagonal dominance in nonlinear functions. I] **93h:65074**
— Verallgemeinerte Diagonaldominanz bei nichtlinearen Funktionen. II. Anwendung auf asynchrone Iterationsverfahren und Beispiele. (English, German and Russian summaries) [Generalized diagonal dominance in nonlinear functions. II. Applications to asynchronous iteration methods and examples] **93j:65080**
Georg, Kurt *see* **Allgower, Eugene L.; et al., 93e:65079**
Gomes, F. A. M. (*with* Martínez, José Mario) Parallel implementations of Broyden's method. (German summary) **93a:65070**
Grzegórski, S. M. Rescaled multilevel least-change almost secant methods. **93c:65071**
Han, Shih-Ping (*with* Pang, Jong-Shi; Rangaraj, Narayan) Globally convergent Newton methods for nonsmooth equations. (English summary) **93m:65070**
Hu, Chen-Yi (*with* Kearfott, Ralph Baker) A pivoting scheme for the interval Gauss-Seidel method: numerical experiments. (*see* **93a:41001**)
— (*with* Bayoumi, M.; Kearfott, Ralph Baker; Yang, Qing) A parallelized algorithm for the all-row preconditioned interval Newton/generalized bisection method. (English summary) (*see* **93g:65178**)
— *see also* **Kearfott, Ralph Baker; et al., 93d:65051**
Huang, Zhi Jian Convergence analysis of the nonlinear block scaled ABS methods. (English summary) **93k:65042**
— A family of discrete ABS type algorithms for nonlinear equations. (Chinese summary) **93m:65071**
Hughes-Hallett, A. J. *see* **Fisher, P. G., (93b:90009)**
Iliev, G. L. Monotone convergence of an iteration process of Newton's type. (English summary)
Ip, Chi Ming (*with* Kyparisis, Jerzy) Local convergence of quasi-Newton methods for B-differentiable equations. (English summary) **93c:65072**
Jeney, András Numerical investigation of ABS-methods for solving systems of nonlinear algebraic equations. (Hungarian. English and Hungarian summaries) **93i:65058**
— Discretization of a subclass of the ABS-methods for the solution of systems of nonlinear algebraic equations. (Hungarian. English and Hungarian summaries) **93i:65059**
Kabe, D. G. On numerical solutions of maximum likelihood equations. (English summary) **93g:65074**
Kálovics, F. A reliable method for solving nonlinear systems of equations of few variables. (English and German summaries) **93g:65075**
Kaluđerčić, P. (*with* Demirdžić, I.) A contribution to solving a system of two nonlinear equations. (Serbo-Croatian summary) **93a:65071**
— (*with* Demirdžić, I.) A contribution to solving a system of two nonlinear equations. (English, German and Serbo-Croatian summaries)
Kearfott, Ralph Baker (*with* Hu, Chen-Yi; Novoa, Manuel, III) A review of preconditioners for the interval Gauss-Seidel method. (English and Russian summaries) **93d:65051**
— *see also* **Hu, Chen-Yi, (93a:41001)** *and* **(93g:65178)**
Kim, S. (*with* Tewarson, R. P.) A quasi-Newton method for solving nonlinear algebraic equations. **93a:65072**
Kyparisis, Jerzy *see* **Ip, Chi Ming, 93c:65072**
Li, Yuying *see* **Coleman, Thomas F., 93d:65050** *and* **93g:65073**
Lötstedt, Per Grid independent convergence of the multigrid method for first-order equations. (English summary) **93g:65076**
Luo, Yuan Quan A square root iterative method for solving nonlinear systems of equations. (Chinese. English and Chinese summaries) **93k:65043**
Martínez, José Mario Fixed-point quasi-Newton methods. (English summary) **93j:65081**
— A theory of secant preconditioners. (English summary) **93h:65075**
— *see also* **Gomes, F. A. M., 93a:65070** *and* **Dennis, John E., Jr.; et al., (93g:65178)**
Mayer, Günter Some remarks on two interval-arithmetic modifications of the Newton method. (German summary) **93a:65073**
Milaszewicz, J. P. (*with* Abdel Masih, S.) Elimination and fixed point iterations. (English summary) **93m:65072**
Miranda, Rick *see* **Allgower, Eugene L.; et al., 93e:65079**
Morgan, Alexander P. (*with* Sommese, Andrew J.) Errata: "Computing all solutions to polynomial systems using homotopy continuation" [Appl. Math. Comput. **24** (1987), no. 2, 115–138; MR 89b:65126]. **93g:65077**
— (*with* Sommese, Andrew J.; Wampler, Charles W.) A power series method for computing singular solutions to nonlinear analytic systems. (English summary) **93g:65078**
Noda, Matu-Tarow *see* **Ochi, Masa-aki; et al., 93a:65074**
Novoa, Manuel, III *see* **Kearfott, Ralph Baker; et al., 93d:65051**
Ochi, Masa-aki (*with* Noda, Matu-Tarow; Sasaki, Tateaki) Approximate greatest common divisor of multivariate polynomials and its application to ill-conditioned systems of algebraic equations. **93a:65074**
Pang, Jong-Shi *see* **Han, Shih-Ping; et al., 93m:65070**
Pasechnik, T. V. (*with* Syavavko, M. S.) An operator continued fraction for the solution of an equation with a quadratic nonlinearity. (Russian. Russian summary) **93j:65082**
Plassmann, Paul E. *see* **Coleman, Thomas F., 93a:65068**
Rangaraj, Narayan *see* **Han, Shih-Ping; et al., 93m:65070**
Rokne, J. G. *see* **Bao, Paul G., 93e:65080**
Sasaki, Tateaki *see* **Ochi, Masa-aki; et al., 93a:65074**
Schnabel, Robert B. *see* **Zhang, Xiaodong[1]; et al., 93b:65076**
Sen′o, P. S. A new approach to the construction of interval methods for the solution of systems of nonlinear equations. (Ukrainian)
Shulyak, S. G. *see* **Uteshev, A. Yu., 93k:65044**
Sommese, Andrew J. *see* **Morgan, Alexander P., 93g:65077** *and* **93g:65078**
Stagg, A. K. (*with* Carey, Graham) Asynchronous nonlinear iteration and domain decomposition. (English summary) (*see* **93g:65178**)
Sun, Xiao Di A generalization of parallel multisplitting methods for a nonlinear problem. (Chinese. English summary) **93j:65083**
Syavavko, M. S. *see* **Pasechnik, T. V., 93j:65082**
Tewarson, R. P. *see* **Kim, S., 93a:65072**
Uteshev, A. Yu. (*with* Shulyak, S. G.) Hermite's method of separation of solutions of systems of algebraic equations and its applications. (English summary) **93k:65044**
Verschelde, Jan (*with* Cools, Ronald) Nonlinear reduction for solving deficient polynomial systems by continuation methods. (English summary) **93f:65046**
Veverka, Vladimír A method of reconciliation of measured data with nonlinear constraints. **93a:65075**
Wampler, Charles W. Bezout number calculations for multi-homogeneous polynomial systems. (English summary) **93f:65047**
— *see also* **Morgan, Alexander P.; et al., 93g:65078**
Wang, Yu[2] An extension of the efficiency index. (Chinese. English summary) **93i:65060**
Xue, Yan Cai *see* **Chen, Guang Yi, 93i:65057**
Yamamoto, Tetsuro *see* **Chen, Xiao Jun, 93f:65045**
Yang, Qing *see* **Hu, Chen-Yi; et al., (93g:65178)**
Zhang, Jian Guo *see* **Zuo, Yi Jun, 93i:65061**
Zhang, Xiaodong[1] (*with* Byrd, Richard H.; Schnabel, Robert B.) Parallel methods for solving nonlinear block bordered systems of equations. **93b:65076**
— *see also* **Dennis, John E., Jr.; et al., (93g:65178)**
Zuo, Yi Jun (*with* Zhang, Jian Guo) Existence and uniqueness of solutions to nonlinear algebraic equations in implicit Runge-Kutta methods. (Chinese. English summary) **93i:65061**

Items with secondary classifications in 65H10

(Amman, Hans M.) *see* **Computational economics and econometrics, 93b:90009**
(Belsley, David A.) *see* **Computational economics and econometrics, 93b:90009**
Bunse-Gerstner, Angelika (*with* Byers, Ralph; Mehrmann, Volker) A chart of numerical methods for structured eigenvalue problems. **93b:65063**
Byers, Ralph *see* **Bunse-Gerstner, Angelika; et al., 93b:65063**
Coleman, Thomas F. (*with* Fenyes, Peter A.) Partitioned quasi-Newton methods for nonlinear equality constrained optimization. **93a:90059**

Dreyer, Thomas Nonlinear ILU-decomposition as smoother in multigrid methods. **93a:65171**
(Feng, Guo Sheng) *see* **Gao, Tang An, 93g:90067**
Fenyes, Peter A. *see* **Coleman, Thomas F., 93a:90059**
Gao, Tang An A counterexample to a convergence theorem. Comment on: "A method for solving systems of nonlinear equations by a fixed-point algorithm" [Numer. Math. J. Chinese Univ. **6** (1984), no. 1, 8–16; MR 86d:90124] by G. S. Feng. (Chinese. English and Chinese summaries) **93g:90067**
Gomes-Ruggiero, M. A. (*with* Martínez, José Mario) The column-updating method for solving nonlinear equations in Hilbert space. (French summary) **93b:65083**
Higham, Desmond J. (*with* Higham, Nicholas J.) Componentwise perturbation theory for linear systems with multiple right-hand sides. (English summary) **93e:65041**
Higham, Nicholas J. *see* **Higham, Desmond J., 93e:65041**
Horiuchi, Kazuo *see* **Yamamura, Kiyotaka; et al.**
Hu, Hai Chang *see* **Ji, Hai Bo; et al., 93j:65084**
Ji, Hai Bo (*with* Wu, Ji Ke; Hu, Hai Chang) Geometric description and computational method for bifurcation. (English summary) **93j:65084**
Ji, Xing Zhi *see* **Liu, Xinzhi; et al., 93g:65135**
Lazard, D. A new method for solving algebraic systems of positive dimension. **93b:12019**
Li, Tien-Yien (*with* Wang, Xiao Shen) Nonlinear homotopies for solving deficient polynomial systems with parameters. **93h:65076**
Liu, Tie Niu (*with* Xu, Dao Lin) Large range analysis for nonlinear dynamic systems—element mapping method. (Chinese. English and Chinese summaries) **93g:65156**
Liu, Xinzhi (*with* Wong, Yau Shu; Ji, Xing Zhi) Monotone iterations for numerical solutions of nonlinear elliptic partial differential equations. **93g:65135**
Lorenz, Jens *see* **Van de Velde, Eric F., 93b:65052**
Martínez, José Mario On the relation between two local convergence theories of least-change secant update methods. **93a:65088**
— *see also* **Gomes-Ruggiero, M. A., 93b:65083**
Mehrmann, Volker *see* **Bunse-Gerstner, Angelika; et al., 93b:65063**
Mezentsev, A. V. (*with* Suchilina, A. A.) A time-optimality problem for linear composite control systems with a terminal set of complex structure. (Russian) **93c:49013**
Morgan, Alexander P. (*with* Sommese, Andrew J.) Errata: "Coefficient-parameter polynomial continuation" [Appl. Math. Comput. **29** (1989), no. 2, part II, 123–160; MR 90f:58018].
Osada, Naoki Extensions of Levin's transformations to vector sequences. **93c:65005**
(Pau, Louis-F.) *see* **Computational economics and econometrics, 93b:90009**
Sommese, Andrew J. *see* **Morgan, Alexander P.**
Strakhov, V. N. Processing of geophysical information under multiplicative-additive noise. (Russian) **93b:86002**
Suchilina, A. A. *see* **Mezentsev, A. V., 93c:49013**
Ushida, Akio *see* **Yamamura, Kiyotaka; et al.**
Van de Velde, Eric F. (*with* Lorenz, Jens) Adaptive data distribution for concurrent continuation. **93b:65052**
van Veldhuizen, M. Approximation of the invariant manifold in the Josephson equation. **93b:65122**
Wang, Xiao Shen *see* **Li, Tien-Yien, 93h:65076**
Wong, Yau Shu *see* **Liu, Xinzhi; et al., 93g:65135**
Wu, Ji Ke *see* **Ji, Hai Bo; et al., 93j:65084**
Xu, Dao Lin *see* **Liu, Tie Niu, 93g:65156**
Yamamoto, Norio Singular points of plane curves generated by period doubling bifurcation points and a method for computing them. **93d:58115**
Yamamura, Kiyotaka (*with* Ushida, Akio; Horiuchi, Kazuo) Improving the efficiency of interval analysis by Kevorkian's decomposition technique.

Items listed otherwise than by author

Computational economics and econometrics ★ Computational economics and econometrics. **93b:90009**
Meeting:
Society of Economic Dynamics and Control ★ Computational economics and econometrics. **93b:90009**
Minneapolis, MN ★ Computational economics and econometrics. **93b:90009**

65H17 Eigenvalues, eigenvectors and bifurcation problems [see also 58C40, 58E07, 58F14, 90C30]

Attili, Basem S. A direct method for the characterization and computation of bifurcation points with corank 2. (German summary) **93c:65073**
Gatermann, Karin (*with* Hohmann, Andreas) Symbolic exploitation of symmetry in numerical pathfollowing. **93d:65052**
Hohmann, Andreas *see* **Gatermann, Karin, 93d:65052**
Hu, Hai Chang *see* **Ji, Hai Bo; et al., 93j:65084**
Ji, Hai Bo (*with* Wu, Ji Ke; Hu, Hai Chang) Geometric description and computational method for bifurcation. (English summary) **93j:65084**
Solov'ëv, S. I. Error of the Bubnov-Galerkin method with perturbations for symmetric spectral problems with nonlinear appearance of the parameter. (Russian) **93b:65077**
Wu, Ji Ke *see* **Ji, Hai Bo; et al., 93j:65084**

Items with secondary classifications in 65H17

Attili, Basem S. Characterization and computation of bifurcation points with corank two. (English summary) **93k:58164**
Barragy, E. (*with* Carey, Graham) Bifurcation detection using the Lanczos method and imbedded subspaces. **93b:65082**
Carey, Graham *see* **Barragy, E., 93b:65082**
Chu, Moody T. Numerical methods for inverse singular value problems. **93a:65048**
Doedel, Eusebius (*with* Keller, Herbert B.; Kernévez, Jean-Pierre) Numerical analysis and control of bifurcation problems. I. Bifurcation in finite dimensions. **93c:34001a**
(Feng, Guo Sheng) *see* **Gao, Tang An, 93g:90067**
Frommer, Andreas Generalized nonlinear diagonal dominance and applications to asynchronous iterative methods. **93a:65069**
Gao, Tang An A counterexample to a convergence theorem. Comment on: "A method for solving systems of nonlinear equations by a fixed-point algorithm" [Numer. Math. J. Chinese Univ. **6** (1984), no. 1, 8–16; MR 86d:90124] by G. S. Feng. (Chinese. English and Chinese summaries) **93g:90067**
Keller, Herbert B. *see* **Doedel, Eusebius; et al., 93c:34001a**
Kernévez, Jean-Pierre *see* **Doedel, Eusebius; et al., 93c:34001a**
Li, Kai Tai (*with* Liu, Xiao Zhong) Bifurcation with symmetry breaking for the flow between two concentric rotating spheres. (English summary) **93h:65083**
Li, Ren Cang Compute multiply nonlinear eigenvalues. **93c:65054**
Li, Tien-Yien (*with* Zeng, Zhong Gang) Homotopy-determinant algorithm for solving nonsymmetric eigenvalue problems. **93a:65054**
Liu, Xiao Zhong *see* **Li, Kai Tai, 93h:65083**
Stork, Peter (*with* Werner, Bodo) Symmetry adapted block diagonalisation in equivariant steady state bifurcation problems and its numerical application. **93j:58099**
Werner, Bodo *see* **Stork, Peter, 93j:58099**
Zeng, Zhong Gang *see* **Li, Tien-Yien, 93a:65054**

65H20 Global methods, including homotopy approaches [see also 58C30, 90C30]

Chu, Moody T. Matrix differential equations: a continuous realization process for linear algebra problems. **93g:65079**
Chu, Zhong Wu (*with* Han, Bo) Existence of zeros of decomposable mappings and its applications. (Chinese. English summary) **93d:65053**
Feng, Guo Chen *see* **Zhang, Shu Gong, 93i:65063**
Han, Bo *see* **Chu, Zhong Wu, 93d:65053**
Horiuchi, Kazuo *see* **Makino, Mitsunori; et al., 93b:65078**
Kashiwagi, Masahide *see* **Makino, Mitsunori; et al., 93b:65078**
Li, Tien-Yien (*with* Wang, Xiao Shen) Nonlinear homotopies for solving deficient polynomial systems with parameters. **93h:65076**
— (*with* Wang, Xiao Shen) Solving real polynomial systems with real homotopies. **93h:65077**
Makino, Mitsunori (*with* Oishi, Shin'ichi; Kashiwagi, Masahide; Horiuchi, Kazuo) Computational complexity of the homotopy method for calculating solutions of strongly monotonic resistive circuit equations. **93b:65078**
Morgan, Alexander P. (*with* Sommese, Andrew J.; Wampler, Charles W.) Computing singular solutions to polynomial systems. (English summary) **93h:65078**
Oishi, Shin'ichi *see* **Makino, Mitsunori; et al., 93b:65078**
Shub, Michael (*with* Smale, Steve) Complexity of Bézout's theorem. I. Geometric aspects. **93k:65045**
Smale, Steve *see* **Shub, Michael, 93k:65045**
Sommese, Andrew J. *see* **Morgan, Alexander P.; et al., 93h:65078**
Todd, Michael J. (*with* Tunçel, Levent) A new triangulation for simplicial algorithms. (English summary) **93i:65062**
Tunçel, Levent *see* **Todd, Michael J., 93i:65062**
Wampler, Charles W. *see* **Morgan, Alexander P.; et al., 93h:65078**
Wang, De Ren *see* **Zhao, Feng Guang, 93d:65054**
Wang, Xiao Shen *see* **Li, Tien-Yien, 93h:65076** *and* **93h:65077**
Zhang, Shu Gong (*with* Feng, Guo Chen) A new type of reduced dimension path following methods. **93i:65063**
Zhao, Feng Guang (*with* Wang, De Ren) On the numerical method of following homotopy paths. **93d:65054**

Items with secondary classifications in 65H20

Allgower, Eugene L. (*with* Georg, Kurt; Miranda, Rick) The method of resultants for computing real solutions of polynomial systems. **93e:65079**
Arai, Kaori *see* **Yamamura, Kiyotaka; et al., 93h:90094**
Gao, Tang An (*with* Wang, Ze Ke) A perturbation free PL homotopy method for economic equilibria. (English summary) **93i:90019**
Gatermann, Karin (*with* Hohmann, Andreas) Symbolic exploitation of symmetry in numerical pathfollowing. **93d:65052**
Georg, Kurt *see* **Allgower, Eugene L.; et al., 93e:65079**
Hohmann, Andreas *see* **Gatermann, Karin, 93d:65052**
Kiyoi, Masahiro *see* **Yamamura, Kiyotaka; et al., 93h:90094**
Li, Tien-Yien (*with* Zeng, Zhong Gang) Homotopy-determinant algorithm for solving nonsymmetric eigenvalue problems. **93a:65054**
Makino, Mitsunori (*with* Oishi, Shin'ichi) Constructive analysis for infinite-dimensional nonlinear systems—infinite-dimensional version of homotopy method. **93d:47116**
Miranda, Rick *see* **Allgower, Eugene L.; et al., 93e:65079**
Oishi, Shin'ichi *see* **Makino, Mitsunori, 93d:47116**
Wang, Ze Ke *see* **Gao, Tang An, 93i:90019**
Yamamura, Kiyotaka (*with* Arai, Kaori; Kiyoi, Masahiro) A piecewise-linear homotopy method for nonlinear programming. **93h:90094**
Zeng, Zhong Gang *see* **Li, Tien-Yien, 93a:65054**

65H99 None of the above, but in this section

Adomian, George A. (*with* Rach, R.) Noise terms in decomposition solution series. (English summary)
Blyumin, S. L. (*with* Pogodaev, A. K.) Block recursion-iteration procedures for solving a nonlinear problem by the least squares method. (Russian. Russian summary) **93g:65080**
Pogodaev, A. K. *see* **Blyumin, S. L., 93g:65080**
Rach, R. *see* **Adomian, George A.**

Items with secondary classifications in 65H99

Heindl, G. Computable hypernorm bounds for the error of an approximate solution to a system of nonlinear equations. (English summary) **93j:65085**
Muskat, Joseph B. Generalized Fibonacci and Lucas sequences and rootfinding methods. (English summary) **93k:65004**

Wünch, Martin Hurwitz-Faktorisierung von Polynomen und ganzen Funktionen. [Hurwitz factorization of polynomials and entire functions] **93m:30008**

65Jxx Numerical analysis in abstract spaces

65J05 General theory

Argyros, Ioannis K. (*with* Szidarovszky, Ferenc) Convergence of general iteration schemes. **93d:65055**

Heindl, G. Computable hypernorm bounds for the error of an approximate solution to a system of nonlinear equations. (English summary) **93j:65085**

Karma, Otto On the concept of discrete convergence in the case of normed spaces. (Russian summary) **93h:65079**

Kon, M. A. (*with* Tempo, Roberto) On optimality properties of algorithms in L^p. (English summary) (*see* **93m:00043**)

Kunisch, K. (*with* Sachs, Ekkehard) Reduced SQP methods for parameter identification problems. (English summary) **93k:65046**

Öziş, Turgut The extension of Picard's successive approximation for constructing two-side bounds for the solutions of differential equations. **93d:65056**

Sachs, Ekkehard *see* **Kunisch, K., 93k:65046**

Szidarovszky, Ferenc *see* **Argyros, Ioannis K., 93d:65055**

Tempo, Roberto *see* **Kon, M. A., (93m:00043)**

Items with secondary classifications in 65J05

Bezhaev, A. Yu. Methods of the variational theory of splines. (Russian) (*see* **93i:65007**)

Collatz, Lothar Applications of functional analysis and approximation theory to elliptic boundary value problems. **93d:65094**

Dalzell, C. J. (*with* Ramsay, James O.) Computing reproducing kernels with arbitrary boundary constraints. (English summary) **93m:65188**

Deutsch, Frank The method of alternating orthogonal projections. **93a:41047**

Eicke, Bertolt Iteration methods for convexly constrained ill-posed problems in Hilbert space. (English summary) **93i:49038**

Levin, A. M. Regularization algorithms for solving ill-posed criterion problems. (English summary) (*see* **93m:00041**)

Noor, Muhammad Aslam Generalized Wiener-Hopf equations and nonlinear quasi variational inequalities. (English summary) **93m:47069**

— A general algorithm and sensitivity analysis for variational inequalities. (English summary) **93m:49006**

Ramsay, James O. *see* **Dalzell, C. J., 93m:65188**

65J10 Equations with linear operators (do not use 65Fxx)

Aliev, B. S. On the generalized residual principle and method in the case of approximate specification of data. (Russian. Tajiki summary) **93k:65047**

Alonso Mallo, I. (*with* Palencia de Lara, C.) One-step methods for initial and boundary value problems. (Spanish. English summary) (*see* **93j:00009**)

Bakaev, N. Yu. Estimates for the stability of difference schemes for a differential equation with a constant operator. II. (Russian) **93b:65080**

— Estimates for the stability of difference schemes for a differential equation with a constant operator. I. (Russian) **93b:65079**

Bektemesov, M. A. Stability of a three-layer difference scheme for ill-posed Cauchy problems. (Russian. Russian summary) **93j:65086**

Belyankov, A. Ya. ★ Метод исчерпывания в вычислительной линейной алгебре. (Russian. Russian summary) [The exhaustion method in numerical linear algebra] **93g:65081**

— Formulas for the recomputation of a partial resolvent operator. (Russian) **93c:65074**

Bukhnikashvili, I. A. Optimal iterations for the solution of a linear operator equation with a spectrum on two segments. (Russian. English and Georgian summaries)

— Chebyshev iterations for the solution of a linear operator equation with a spectrum on two segments. (Russian. English and Georgian summaries)

Dzhumaev, S. (*with* Mukhamadiev, È.) On the regularization of operator equations. (Russian) **93m:65073**

Gryn′, V. I. Two-step iterative regularization methods. (Russian. Russian summary) **93m:65074**

He, Guo Qiang On asymptotic convergence rates for the Tikhonov regularization method. (Chinese summary) **93a:65076**

— A-smooth regularization operators. (Chinese. English and Chinese summaries) **93j:65087**

Herrera, Ismael Localized adjoint method: topics for further research and some contributions. (English summary) (*see* **93g:76002**)

Hou, Zong Yi *see* **Li, He Nong, 93i:65064**

Il′in, V. P. (*with* Koval′, F. F.) Solution of boundary value problems by the method of operator continuation and decomposition for orthogonal functions. (Russian. English summary)

Islamov, G. G. On a method for averaging functional corrections. (Russian. Russian summary) (*see* **93k:00022**)

Kacewicz, B. Z. (*with* Plaskota, L.) Termination conditions for approximating linear problems with noisy information. **93a:65077**

Knyazev, Andrei Vladimirovich (*with* Skorokhodov, A. L.) Iterative methods of gradient type in a subspace for a partial symmetric generalized eigenvalue problem. (Russian) **93m:65075**

Kojecký, Tomáš An approximative solution of the generalized eigenvalue problem. (Russian and Czech summaries) **93a:65078**

Koval′, F. F. *see* **Il′in, V. P.**

Lassoued, Leïla (*with* Mathlouthi, Salem) A numerical method for finding homoclinic orbits of Hamiltonian systems. **93e:65081**

Li, He Nong (*with* Hou, Zong Yi) The general Arcangeli method for operator equations of the first kind. (Chinese. English and Chinese summaries) **93i:65064**

Linz, Peter (*with* Wang, Richard L. C.) Error bounds for the solution of Volterra and delay equations. **93a:65079**

Mathlouthi, Salem *see* **Lassoued, Leïla, 93e:65081**

Mizgailov, V. N. *see* **Mukhin, V. V., 93k:65048**

Mukhamadiev, È. *see* **Dzhumaev, S., 93m:65073**

Mukhin, V. V. (*with* Mizgailov, V. N.) An iterative algorithm for minimization of the functional $\||Ax| - F\|$. (Russian. English and Russian summaries) **93k:65048**

Nguyen Van Hung *see* **Phạm Kỳ Anh, 93c:65075**

Novak, Erich Optimal linear randomized methods for linear operators in Hilbert spaces. **93f:65048**

Palencia de Lara, C. *see* **Alonso Mallo, I., (93j:00009)**

Pereverzev, S. V. (*with* Sinenko, M. A.) On the optimal rate of convergence of the KP-method and some of its generalizations. (Russian) **93a:65080**

— (*with* Scharipov, C. C.) Information complexity of equations of the second kind with compact operators in Hilbert space. **93e:65082**

Phạm Kỳ Anh (*with* Nguyen Van Hung) A robust variant of the contracting compacta method. (Russian. Ukrainian summary) **93c:65075**

Plaskota, L. *see* **Kacewicz, B. Z., 93a:65077**

Scharipov, C. C. *see* **Pereverzev, S. V., 93e:65082**

Sinenko, M. A. *see* **Pereverzev, S. V., 93a:65080**

Skorokhodov, A. L. *see* **Knyazev, Andrei Vladimirovich, 93m:65075**

Vabishchevich, P. N. Nonlocal perturbation of an initial condition in ill-posed problems for first-order evolution equations. (Russian. Russian summary) **93f:65049**

Wang, Richard L. C. *see* **Linz, Peter, 93a:65079**

Xu, Jinchao Iterative methods by SPD and small subspace solvers for nonsymmetric or indefinite problems. (English summary) **93h:65080**

Items with secondary classifications in 65J10

Altomare, Francesco Positive projections, approximation processes and degenerate diffusion equations. (English summary) **93i:41015**

Bakhvalov, N. S. (*with* Knyazev, Andrei Vladimirovich) An effective iterative method for the solution of Lamé equations for almost incompressible media and of Stokes equations. (Russian) **93b:65194**

Bond, R. A. B. *see* **Mika, Janusz R., 93b:47016**

Bornemann, Folkmar A. An adaptive multilevel approach to parabolic equations. III. 2D error estimation and multilevel preconditioning. **93g:65126**

Carroll, Raymond J. (*with* van Rooij, Arnoud C. M.; Ruymgaart, Frits H.) Theoretical aspects of ill-posed problems in statistics. **93a:62049**

Dieci, Luca (*with* Lorenz, Jens) Block M-matrices and computation of invariant tori. **93h:65109**

Fedotov, A. M. Minimax regularization for operator equations with random errors in the data. (Russian) **93f:47009**

Fujii, Masatoshi (*with* Furuta, Takayuki; Seo, Yûki) An inequality for some nonnormal operators—extension to normal approximate eigenvalues. **93i:47023**

Furuta, Takayuki *see* **Fujii, Masatoshi; et al., 93i:47023**

Gibson, J. S. (*with* Rosen, I. G.; Tao, Gang) Approximation in control of thermoelastic systems. (English summary) **93f:65074**

Groetsch, C. W. Spectral methods for linear inverse problems with unbounded operators. **93g:47011**

Harley, P. J. *see* **Pickering, W. M., 93m:65153**

Hegland, Markus An optimal order regularization method which does not use additional smoothness assumptions. (English summary) **93j:65090**

Huang, Ka Ma (*with* Lin, Wei Gan) Using the method of operator expansions to solve Fredholm integral equations. (Chinese. English and Chinese summaries) **93j:65222**

Ivanov, Valentin Konstantinovich (*with* Tanana, V. P.) Well-posedness of conditionally well-posed problems in locally convex spaces. (Russian) **93m:47009**

Knyazev, Andrei Vladimirovich *see* **Bakhvalov, N. S., 93b:65194**

Kurkalova, L. A. An iterative method for solving a generalized eigenvalue problem. (Russian. Tajiki summary) **93c:47013**

Lin, Wei Gan *see* **Huang, Ka Ma, 93j:65222**

Lorenz, Jens *see* **Dieci, Luca, 93h:65109**

Miekkala, Ulla (*with* Nevanlinna, Olavi) Quasinilpotency of the operators in Picard-Lindelöf iteration. **93d:65039**

Mika, Janusz R. (*with* Bond, R. A. B.) Method of approximate inverse for solving equations in Hilbert spaces. **93b:47016**

Nair, M. Thamban On uniform convergence of approximation methods for operator equations of the second kind. **93d:47021**

Nakonechnyi, A. G. (*with* Zhirov, A. L.) Minimax estimation of solutions of linear operator equations with nonstationary observations. (Russian. Russian summary) **93d:47022**

Nemirovskii, A. S. Information-based complexity of linear operator equations. **93e:65163**

Nevanlinna, Olavi *see* **Miekkala, Ulla, 93d:65039**

Ostrovskii, M. I. Regularizability of inverse linear operators in Banach spaces with a basis. (Russian. Russian summary) **93i:47004**

Ovchinnikov, E. È. Formulae of perturbation theory for nonselfadjoint eigenvalue problems in the case of multiple eigenvalue perturbation. **93d:47039**

Palencia de Lara, C. A stability result for sectorial operators in Banach spaces. (English summary) **93j:47060**

Petryshyn, W. V. Nonlinear Friedrichs' extension of K-strongly stable operators and the error estimate for the Galerkin method. **93f:47085**

Pickering, W. M. (*with* Harley, P. J.) FFT solution of the Robbins problem. (English summary) **93m:65153**

Robinson, P. D. (*with* Wathen, A. J.) Variational bounds on the entries of the inverse of a matrix. (English summary) **93g:65044**

van Rooij, Arnoud C. M. *see* **Carroll, Raymond J.; et al., 93a:62049**

Rosen, I. G. *see* **Gibson, J. S.; et al., 93f:65074**

Rudakova, T. N. *see* **Tanana, V. P., 93f:47010** *and* **93f:47011**

Ruymgaart, Frits H. *see* **Carroll, Raymond J.; et al., 93a:62049**

Sebestyén, Zoltán Least norm solution of linear equations in Hilbert space. **93h:47010**

Seo, Yûki *see* **Fujii, Masatoshi; et al., 93i:47023**

Silbermann, Bernd Symbol construction and numerical analysis. **93b:65212**

Sinenko, M. A. On a connection between the projection-iterative method and the KR-method for equations of the second kind. (Russian) **93e:65153**

— On the optimal rate of convergence of V. I. Lebedev's method on some classes of operator equations. (Russian. Russian and Ukrainian summaries) **93i:47013**
Tanana, V. P. (*with* Rudakova, T. N.) Investigation of the optimality of the regularization method for problems with a noninjective operator. (Russian) **93f:47010**
— (*with* Rudakova, T. N.) On an error estimate for an optimal method of solving ill-posed problems in Hilbert spaces under additional constraints on operator error. (Russian) **93f:47011**
— *see also* **Ivanov, Valentin Konstantinovich**, **93m:47009**
Tao, Gang *see* **Gibson, J. S.; et al.**, **93f:65074**
Wathen, A. J. *see* **Robinson, P. D.**, **93g:65044**
Zhirov, A. L. *see* **Nakonechnyĭ, A. G.**, **93d:47022**

65J15 Equations with nonlinear operators (do not use 65Hxx)

Argyros, Ioannis K. Iterations converging faster than Newton's method to the solutions of nonlinear equations in Banach space. **93b:65081**
— Sharp error bounds for Newton-like methods under weak smoothness assumptions. **93c:65076**
— (*with* Szidarovszky, Ferenc) On the monotone convergence of general Newton-like methods. **93c:65077**
— On the convergence of generalized Newton methods and implicit functions. (English summary) **93m:65076**
— On an application of a Newton-like method to the approximation of implicit functions. (English summary) **93h:65081**
— (*with* Szidarovszky, Ferenc) On the convergence of Newton-like methods. (English summary) **93m:65077**
Bakushinskiĭ, A. B. Iterative method for the solution of nonlinear ill-posed problems and their applications. (English summary) (*see* **93m:00041**)
— On a convergence problem of the iterative-regularized Gauss-Newton method. (Russian. Russian summary) **93k:65049**
Balázs, Martin (*with* Goldner, Gavrilă) Monotone enclosure by Steffensen's method. (*see* **93m:26001**)
Barragy, E. (*with* Carey, Graham) Bifurcation detection using the Lanczos method and imbedded subspaces. **93b:65082**
Brown, Peter N. (*with* Saad, Youcef) Projection methods for solving nonlinear systems of equations. (English summary) **93g:65082**
Carey, Graham *see* **Barragy, E.**, **93b:65082**
Chidume, C. E. Iterative methods for nonlinear set-valued operators of the monotone type with applications to operator equations. **93e:65083**
Chronopoulos, Anthony T. (*with* Zlatev, Zahari) Iterative methods for nonlinear operator equations. **93g:65083**
— (*with* Zlatev, Zahari) Iterative methods for nonlinear operator equations. (English summary) **93f:65050**
Collatz, Lothar Applications of functional analysis and approximation theory to elliptic boundary value problems. (English summary) **93g:65084**
Diaconu, Adrian Sur l'approximation des solutions des problèmes polylocaux pour des équations différentielles non-linéaires. [On the approximation of solutions of polylocal problems for nonlinear differential equations] (*see* **93i:00015**)
Elsner, L. (*with* Koltracht, I.; Neumann, Michael) Convergence of sequential and asynchronous nonlinear paracontractions. **93d:65057**
Fix, George J. (*with* Kannan, Rangachary) A random direction algorithm for an intersection problem. (English and German summaries) **93g:65085**
Fonarëv, A. A. Solution of equations with potential operators. (Russian) (*see* **93m:00036**)
Geymayer, G. *see* **Kunisch, K.**, (**93d:93006**)
Goldner, Gavrilă *see* **Balázs, Martin**, (**93m:26001**)
Gomes-Ruggiero, M. A. (*with* Martínez, José Mario) The column-updating method for solving nonlinear equations in Hilbert space. (French summary) **93b:65083**
Groze, Sever On the convergence of a class of iterative methods in Fréchet spaces. **93b:65084**
Hoffmann, Karl-Heinz[1] (*with* Zou, Jun) Parallel algorithms of Schwarz variant for variational inequalities. (English summary) **93k:65050**
Hofmann, Wolf (*with* Zheng, Qinghua) Autonomous oscillations in connection with noncontinuous regulations. (*see* **93b:65007**)
Hwang, D. M. (*with* Kelley, C. T.) Convergence of Broyden's method in Banach spaces. **93g:65086**
Jankó, B. On a unified theory of iteration methods for solving nonlinear operator equations. III. **93m:65078**
Janovský, Vladimír (*with* Marek, Ivo) Generalised Ljapunov-Schmidt reduction and its numerical significance. (*see* **93b:65007**)
Jerome, Joseph W. Numerical approximation of PDE system fixed-point maps via Newton's method. **93b:65085**
Kannan, Rangachary *see* **Fix, George J.**, **93g:65085**
Karma, Otto On the concept of discrete convergence. **93b:65086**
Kelley, C. T. *see* **Hwang, D. M.**, **93g:65086**
Koltracht, I. *see* **Elsner, L.; et al.**, **93d:65057**
Kunisch, K. (*with* Geymayer, G.) Convergence rates for regularized nonlinear ill-posed problems. (English summary) (*see* **93d:93006**)
Kurchatov, V. A. Optimization with respect to accuracy of calculations of some sets of numerical methods based on linearization. (Russian. Russian summary) **93m:65079**
Kwapisz, Marian On the error estimate of approximate solutions of the discrete Volterra equations of kth order. **93c:65078**
Lei, Jin Gan (*with* Liu, Chun Lei; Ren, Yi Qiang) Finite-dimensional approximation and its computation for bifurcation problems for variational inequalities. (English summary) **93h:65082**
Li, Kai Tai (*with* Liu, Xiao Zhong) Bifurcation with symmetry breaking for the flow between two concentric rotating spheres. (English summary) **93h:65083**
Ling, Yong Xiang (*with* Xu, Zong Ben) A monotone iteration method of Steffensen type for nonlinear equations. (Chinese. English summary) **93d:65058**
Liu, Chun Lei *see* **Lei, Jin Gan; et al.**, **93h:65082**
Liu, Xiao Zhong *see* **Li, Kai Tai**, **93h:65083**
Marek, Ivo *see* **Janovský, Vladimír**, (**93b:65007**)
Martínez, José Mario *see* **Gomes-Ruggiero, M. A.**, **93b:65083**
Meyer, Peter W. A unifying theorem on Newton's method. (English summary) **93i:65065**
Moret, Igor A projection method for computing turning points of nonlinear equations. (German summary) **93j:65088**
— A method for the computation of nonsimple turning points corresponding to cusps. **93d:65059**
Neumann, Michael *see* **Elsner, L.; et al.**, **93d:65057**
Păvăloiu, Ion On the convergency of a Steffensen-type method. (*see* **93i:00015**)
— Remarks on the secant method for the solution of nonlinear operatorial equations. (*see* **93i:00015**)
Puzynin, I. V. *see* **Zhanlav, T.**, **93e:65086**
Ren, Yi Qiang *see* **Lei, Jin Gan; et al.**, **93h:65082**
Saad, Youcef *see* **Brown, Peter N.**, **93g:65082**
Shakhno, S. M. Convergence of an iterative method with sequential approximation of an inverse operator. (Ukrainian)
Shi, Xing Zhong *see* **Xu, Zong Ben**, **93h:65085**
Sun, Jing Xian An iterative technique for solving a class of nonlinear operator equations. II. (Chinese. English and Chinese summaries) **93k:65051**
Szidarovszky, Ferenc *see* **Argyros, Ioannis K.**, **93c:65077** *and* **93m:65077**
Titenskiĭ, M. N. On the stability of the Galerkin method for a nonlinear stationary problem. (Russian. Russian summary) (*see* **93m:00032**)
— On the stability of nonlinear nonstationary boundary value problems of general form. (Russian. Russian summary) (*see* **93m:00032**)
Trif, Damian Alternative method in a diffusion flame problem. (*see* **93i:00014**)
Uko, Livinus Ugochukwu The generalized Newton's method. **93d:65060**
Vaarmann, Otu A theorem for methods with high-order convergence. (Russian and Estonian summaries) **93a:65081**
Vabishchevich, P. N. Difference schemes for problems with a quadratic nonlinearity. (Russian. Russian summary) **93g:65087**
Verma, Ram U. On the external approximation-solvability of nonlinear equations. **93h:65084**
Voller, Rudolf L. Affine-invariant monotone iteration methods with application to systems of nonlinear two-point boundary value problems. (German summary) **93e:65084**
Wulkow, Michael Adaptive treatment of polyreactions in weighted sequence spaces. **93e:65085**
Xu, Zong Ben (*with* Shi, Xing Zhong) A comparison of point and ball iterations in the contractive mapping case. (English and German summaries) **93h:65085**
— *see also* **Ling, Yong Xiang**, **93d:65058**
Zhanlav, T. (*with* Puzynin, I. V.) Convergence of iterations on the basis of a continuous analogue of the Newton method. (Russian) **93e:65086**
Zheng, Qinghua *see* **Hofmann, Wolf**, (**93b:65007**)
Zlatev, Zahari *see* **Chronopoulos, Anthony T.**, **93f:65050** *and* **93g:65083**
Zou, Jun *see* **Hoffmann, Karl-Heinz[1]**, **93k:65050**

Items with secondary classifications in 65J15

Al-Shemas, Eman H. *see* **Noor, Muhammad Aslam**, **93g:90077**
Argyros, Ioannis K. On the improvement of the speed of convergence of some iterations converging to solutions of quadratic equations. **93d:47121**
— On an iterative algorithm for solving nonlinear operator equations. (German and Russian summaries) **93b:47132**
— On an application of a modification of the Zincenko method to the approximation of implicit functions. **93b:47133**
— On an application of the Zincenko method to the approximation of implicit functions. **93c:47076**
Badriev, I. B. (*with* Karchevskiĭ, M. M.) Convergence of an iterative process in a Banach space. (Russian) **93a:47067**
Böhm, Michael On the Galerkin-method in intermediate spaces for the initial-boundary value problem of the Navier-Stokes equations in two dimensions. **93a:65126**
Chen, Yu Qing *see* **Zhang, Shi Sheng**, **93a:47066**
Crombez, G. Image restoration by convex combinations of convex projections. (Serbo-Croatian summary) **93a:47068**
Cromme, Ludwig J. (*with* Diener, Immo) Fixed point theorems for discontinuous mapping. **93d:90013**
Diener, Immo *see* **Cromme, Ludwig J.**, **93d:90013**
Fiedler, Olga (*with* Römisch, Werner) Weak convergence of approximate solutions of random equations. (English summary) **93m:60139**
Gatica, Gabriel N. (*with* Hsiao, George C.) The coupling of boundary integral and finite element methods for nonmonotone nonlinear problems. (English summary) **93j:65194**
González, Roberto L. V. (*with* Tidball, Mabel M.) Fast solution of general nonlinear fixed point problems. (English summary) **93e:65092**
Guo, Ben Yu Generalized stability of discretization and its applications to numerical solutions of nonlinear partial differential equations. (Russian summary) **93e:65114**
Hale, Jack K. Dynamics and numerics. **93d:58091**
Hanson, James N. The computer generated symbolic approximations to systems of nonlinear ODEs by matrix annihilation and the Newton-Kantorovich method. **93b:65096**
Hsiao, George C. *see* **Gatica, Gabriel N.**, **93j:65194**
Judd, Kenneth L. Projection methods for solving aggregate growth models. (English summary) **93i:90020**
Karchevskiĭ, M. M. *see* **Badriev, I. B.**, **93a:47067**
Moret, Igor (*with* Omari, Pierpaolo) A Krylov subspace method for nonlinear operator equations. (English summary) **93j:47089**
Noor, Muhammad Aslam (*with* Al-Shemas, Eman H.) Iterative algorithms for general quasi complementarity problems. **93g:90077**
Omari, Pierpaolo *see* **Moret, Igor**, **93j:47089**
Petrovich, V. Yu. Numerical investigation of the spectrum of linearization of an operator describing circle homeomorphisms with a golden ratio rotation number. (Russian. English summary) **93b:58116**
Römisch, Werner *see* **Fiedler, Olga**, **93m:60139**
Song, Shu Ni *see* **Zhao, Yi Chun**, **93d:47120**

Štaras, Arūnas Justification of the averaging method for weakly nonlinear operator equations. (Russian. English and Lithuanian summaries) **93b:34077**
Strelkova, N. A. Solution of operator equations by the Vietoris iteration method. (Russian) **93b:47134**
Tidball, Mabel M. *see* **González, Roberto L. V., 93e:65092**
Torokhtii, A. P. Polynomial synthesis and numerical realisation of nonlinear systems. **93h:47085**
Verma, Ram U. Phi-stable operators and inner approximation-solvability. **93d:47122**
Weng, Xin Long The iterative solution of the equation $f \in x + Tx$ for an accretive operator T in uniformly smooth Banach spaces. (Chinese summary) **93c:47077**
Xu, Hong Kun A note on the Ishikawa iteration scheme. **93h:47069**
Xu, Zong Ben *see* **You, Zhao Yong, 93d:47123**
Yang, Zhong Hua[1] Approximation of catastrophe points of cusp form. (Chinese. English summary) **93d:58019**
Yao, Jen Chih Nonlinear inequalities in Banach spaces. **93d:47125**
You, Zhao Yong (*with* Xu, Zong Ben) Ball algorithms for constructing solutions of nonlinear operator equations. **93d:47123**
Zhang, Shi Sheng (*with* Chen, Yu Qing) Approximation solvability of coincidence problems. (Chinese. English summary) **93a:47066**
Zhao, Yi Chun (*with* Song, Shu Ni) Approximation solvability of an equation of Hammerstein type. **93d:47120**

65J20 Improperly posed problems

Chao, Hong Yang Error estimates of the finite-dimensional regularized method for solving ill-posed problems. (Chinese. English summary) **93b:65087**
Chen, Guan Rong Optimal recovery of certain nonlinear analytic mappings. (*see* **93m:00043**)
Hämarik, Uno Quasioptimal error estimate for the regularized Ritz-Galerkin method with a posteriori choice of the parameter. (Russian summary) **93e:65087**
Hanke, Martin Regularization with differential operators: an iterative approach. (English summary) **93j:65089**
Hegland, Markus An optimal order regularization method which does not use additional smoothness assumptions. (English summary) **93j:65090**
Ilyushchenko, V. I. ★ Reversible mathematics—an artificial science or a scientific art?
— ★ The general structure of solutions of unstable inverse problems.
Ito, Kazufumi (*with* Kunisch, K.) On the choice of the regularization parameter in nonlinear inverse problems. **93h:65086**
Kunisch, K. *see* **Ito, Kazufumi, 93h:65086**
Leonov, A. S. On the accuracy of Tikhonov regularizing algorithms and the quasi-optimal choice of regularization parameter. (Russian) **93d:65061**
Mel'nikova, I. V. Regularization of ill-posed differential problems. (Russian) **93c:65079**
Muhs, Jochen *see* **Tautenhahn, Ulrich, 93c:65080**
Nair, M. Thamban A generalization of Arcangeli's method for ill-posed problems leading to optimal rates. (English summary) **93j:65091**
Raus, Toomas About regularization parameter choice in case of approximately given error bounds of data. (Russian summary) **93e:65088**
Regińska, Teresa A class of regularization methods for ill-posed problems with nonexact data. (English summary) **93j:65092**
Scherzer, Otmar ★ Tikhonov regularization of nonlinear ill-posed problems with applications to parameter identification in partial differential equations. **93a:65082**
Seidman, Thomas I. "Optimal filtering" for some ill-posed problems. (English summary) **93e:65089**
Tautenhahn, Ulrich (*with* Muhs, Jochen) A new regularization method for nonlinear ill-posed inverse problems. **93c:65080**
Vainikko, Gennadi On the discretization and regularization of ill-posed problems with noncompact operators. (English summary) **93j:65093**

Items with secondary classifications in 65J20

Aliev, B. S. On the generalized residual principle and method in the case of approximate specification of data. (Russian. Tajiki summary) **93k:65047**
(Bukhgeim, A. L.) *see* **Lavrent'ev, M. M., 93m:47001**
Domanskii, E. N. Continuous regularizability in the sense of Maslov of ill-posed problems. (Russian) **93b:47015**
Dzhumaev, S. (*with* Mukhamadiev, È.) On the regularization of operator equations. (Russian) **93m:65073**
Lavrent'ev, M. M. (*with* Savel'ev, L. Ya.) ★ Линейные операторы и некорректные задачи. (Russian. English and Russian summaries) [Linear operators and ill-posed problems] **93m:47001**
Leonov, A. S. Variational algorithms with a posteriori choice of the regularization parameter for solving ill-posed extremal problems. (English summary) (*see* **93m:00041**)
Mukhamadiev, È. *see* **Dzhumaev, S., 93m:65073**
Sabatier, Pierre C. Remark on the informative content of few measurements. (English summary) **93e:65013**
Savel'ev, L. Ya. *see* **Lavrent'ev, M. M., 93m:47001**
Vainikko, Gennadi Parameter choice in Tikhonov regularization of ill-posed extremal problems. **93b:47139**

65J99 None of the above, but in this section

Bryzgalin, G. I. Mean values of a function on products of linearly ordered spaces. (Russian) **93k:65052**
Kiho, T. Optimality region of the m-step Lavrentiev method. (English summary) (*see* **93m:00041**)
Kudô, Akio *see* **Yanagi, Kikuo; et al., 93j:65094**
Park, Yong-Beom *see* **Yanagi, Kikuo; et al., 93j:65094**
Yanagi, Kikuo (*with* Kudô, Akio; Park, Yong-Beom) "Pool-the-maximum-violators" algorithm. (English summary) **93j:65094**

Items with secondary classifications in 65J99

Boyer, Robert Méthode F.A.C. pour un problème de type "obstacle". (English and French summaries) [An FAC method for an "obstacle" problem] **93g:90057**
Kelley, C. T. (*with* Sachs, Ekkehard) Mesh independence of Newton-like methods for infinite-dimensional problems. **93g:65166**
Knockaert, Luc Stability of linear predictors and numerical range of shift operators in normed spaces. (English summary) **93e:47100**
Labeev, V. (*with* Yanson, V. A.) Compact approximation of linear operators with small random perturbations. (Russian. English and Russian summaries) **93g:47049**
Madych, Wally R. Image reconstruction in Hilbert space. (English summary) **93g:44011**
Rejtő, Lidia (*with* Walter, Gilbert G.) Remarks on projection pursuit regression and density estimation. **93f:62086**
Sachs, Ekkehard *see* **Kelley, C. T., 93g:65166**
Walter, Gilbert G. *see* **Rejtő, Lidia, 93f:62086**
Wang, Hsiao Fan Numerical analysis on fuzzy relation equations with various operators. (English summary) **93m:04022**
Yanson, V. A. *see* **Labeev, V., 93g:47049**

65Kxx Mathematical programming, optimization and variational techniques

65K05 Mathematical programming [see also 90Cxx]

Ariyawansa, K. A. (*with* Lau, D. T. M.) On the updating scheme in a class of collinear scaling algorithms for sparse minimization. (English summary) **93j:65095**
Bartish, M. Ya. A class of Newton-type methods for solving extremum problems. (Ukrainian. Russian summary)
Berger, M. F. Hierarchical gradient methods for nonlinear LSQ problems. (English summary) **93m:65080**
Bierlaire, M. (*with* Toint, Ph. L.; Tuyttens, D.) Errata: "On iterative algorithms for linear least squares problems with bound constraints" [Linear Algebra Appl. **143** (1991), 111–143; MR 91j:65109]. **93k:65053**
Byrd, Richard H. *see* **Khalfan, H. Fayez; et al., 93h:65087**
Caron, R. J. (*with* Hlynka, M.; McDonald, James Frederick) On the best case performance of hit and run methods for detecting necessary constraints. **93d:65062**
Coope, I. D. Circle fitting by linear and nonlinear least squares. (English summary) **93k:65054**
Couvreur, J. M. (*with* Haddad, S.; Peyre, J. F.) Résolution paramétrée de familles de systèmes linéaires. (English summary) [Parametrized solution of a family of linear systems] **93d:65063**
Dantzig, George B. (*with* Infanger, Gerd) Large-scale stochastic linear programs—importance sampling and Benders decomposition. (English summary) (*see* **93j:00007**)
Dax, Achiya On regularized least norm problems. (English summary) **93k:65055**
Dennis, John E., Jr. *see* **Zhang, Yin[1]; et al., 93a:65084**
Fedotova, E. L. *see* **Kiselëv, Yu. N.; et al.**
Gao, Zi You *see* **He, Guo Ping**
Gay, David M. (*with* Kaufman, Linda) Tradeoffs in algorithms for separable nonlinear least squares. (English summary) (*see* **93j:00007**)
Golub, B. M. The linearization method for solving a system of equalities and inequalities on a simple set of "parallelepiped" type. (Ukrainian. Russian summary)
— A scheme for constructing quasi-Newtonian algorithms for unconditional minimization of functions. (Ukrainian)
— *see also* **Shcherbina, Yu. N.**
Gondzio, J. Applying Schur complements for handling large, sparse linear programming bases. (English summary) (*see* **93j:00007**)
Guan, Xiaojun (*with* Mural, Richard; Mann, Reinhold; Uberbacher, Edward) On parallel search of DNA sequence databases. (English summary) (*see* **93g:65178**)
Haddad, S. *see* **Couvreur, J. M.; et al., 93d:65063**
He, Guo Ping (*with* Gao, Zi You) A parallel algorithm for a class of quadratic programming problems. (Chinese. English and Chinese summaries)
Hlynka, M. *see* **Caron, R. J.; et al., 93d:65062**
Infanger, Gerd *see* **Dantzig, George B., (93j:00007)**
Kaufman, Linda *see* **Gay, David M., (93j:00007)**
Khalfan, H. Fayez (*with* Byrd, Richard H.; Schnabel, Robert B.) A theoretical and experimental study of the symmetric rank-one update. (English summary) **93h:65087**
Kiselëv, Yu. N. (*with* Orlov, M. V.; Fedotova, E. L.) Projection of a point on an ellipsoid. (Russian. Russian summary)
Korytova, M. A. (*with* Rumyantsev, A. N.) Some algorithms for the constructive investigation of linear boundary value problems with inequalities. (Russian. Russian summary) (*see* **93m:00017**)
Lau, D. T. M. *see* **Ariyawansa, K. A., 93j:65095**
Litvinchev, I. S. Iterative aggregation and decomposition in block-separable extremal problems. (Russian. Russian summary) **93f:65051**
Lods, Véronique Différentes formulations du modèle d'arche, permettant de comparer le gradient discret et le gradient continu discrétisé. (English summary) [Different formulations of the arch model allowing one to compare the discrete gradient and the discretized continuous gradient] **93c:65081**
Mann, Reinhold *see* **Guan, Xiaojun; et al., (93g:65178)**
McDonald, James Frederick *see* **Caron, R. J.; et al., 93d:65062**
Mural, Richard *see* **Guan, Xiaojun; et al., (93g:65178)**
Nagurney, Anna (*with* Robinson, Alan G.) Algorithms for quadratic constrained matrix problems. **93b:65088**
Niethammer, Wilhelm A note on the implementation of the successive overrelaxation method for linear complementarity problems. (English summary) **93k:65056**
Orlov, M. V. *see* **Kiselëv, Yu. N.; et al.**
Pervozvanskii, Anatoli A. *see* **Vigodner, A. M., (93m:00028)**
Peyre, J. F. *see* **Couvreur, J. M.; et al., 93d:65063**
Robinson, Alan G. *see* **Nagurney, Anna, 93b:65088**

Roman, L. L. Convergence of a recursive method with memory for the minimization of functions. (Ukrainian)
Rumyantsev, A. N. *see* **Korytova, M. A., (93m:00017)**
Schnabel, Robert B. *see* **Khalfan, H. Fayez; et al., 93h:65087**
Shcherbina, Yu. N. (*with* Golub, B. M.) Quasi-Newtonian modification of the linearization method using the Cholesky LDL^T-decomposition. (Ukrainian. Russian summary)
— (*with* Golub, B. M.) Conditions for the convergence of a quasi-Newtonian modification of the linearization method. (Ukrainian)
Tapia, Richard A. *see* **Zhang, Yin[1]; et al., 93a:65084**
Toint, Ph. L. *see* **Bierlaire, M.; et al., 93k:65053**
Tourin, Agnès A comparison theorem for a piecewise Lipschitz continuous Hamiltonian and application to shape-from-shading problems. **93d:65064**
Tuyttens, D. *see* **Bierlaire, M.; et al., 93k:65053**
Uberbacher, Edward *see* **Guan, Xiaojun; et al., (93g:65178)**
Ûbi, Eval'd Transformation of the simplex tableau by Givens rotations. (Russian. English and Estonian summaries) **93a:65083**
Vigodner, A. M. (*with* Pervozvanskiĭ, Anatoli A.) A modified conjugate gradient method for solving ill-conditioned problems by the least squares method. (Russian) (*see* **93m:00028**)
Wei, Zi Luan (*with* Wu, Li) A method for computing a feasible solution for systems of linear inequalities. (Chinese. English summary) **93c:65082**
Wu, Li *see* **Wei, Zi Luan, 93c:65082**
Yang, Zi Qiang (*with* Yuan, Ya Xiang) A short note on an L_1-norm minimization algorithm. (English summary) **93k:65057**
Yuan, Ya Xiang *see* **Yang, Zi Qiang, 93k:65057**
Zhang, Yin[1] (*with* Tapia, Richard A.; Dennis, John E., Jr.) On the superlinear and quadratic convergence of primal-dual interior point linear programming algorithms. **93a:65084**

Items with secondary classifications in 65K05

Al-Hassan, Qassem M. On the solution of nonlinear programming problems with equality constraints via continuation using special LU factorization. (English summary) **93m:90074**
Al-Sultan, K. S. (*with* Murty, Katta G.) Exterior point algorithms for nearest points and convex quadratic programs. (English summary) **93j:90073**
Andrus, J. F. An exterior point method for the convex programming problem. **93f:90126**
Astaf'ev, N. N. ★ Бесконечные системы линейных неравенств в математическом программировании. (Russian) [Infinite systems of linear inequalities in mathematical programming] **93b:90002**
Baessler, Felix A heuristic 0-1 integer programming method. (German summary) **93c:90044**
Berezněv, V. A. (*with* Karmanov, V. G.; Tret'yakov, A. A.) Stable methods for solving extremal problems with approximate information. (Russian) **93f:90146**
Bertocchi, Maria (*with* Brandolini, L.; Słominski, Leon; Sobczynska, J.) A Monte-Carlo approach for 0-1 programming problems. (English and German summaries) **93i:90066**
Bertsekas, Dimitri P. *see* **Eckstein, Jonathan, 93c:90057**
Birge, John R. (*with* Freund, Robert M.; Vanderbei, Robert J.) Prior reduced fill-in in solving equations in interior point algorithms. (English summary) **93e:90033**
Bodon, Elena *see* **Spedicato, Emilio, 93m:65055**
Boender, C. G. E. (*with* Caron, R. J.; Rinnooy Kan, A. H. G.; et al.) Shake-and-bake algorithms for generating uniform points on the boundary of bounded polyhedra. **93f:90106**
Bonnans, Joseph Frédéric A review of some recent results in the perturbation theory of nonlinear programs. (English summary) **93j:90109**
Borwein, Jonathan (*with* Lewis, Adrian S.) Partially finite convex programming. I. Quasi relative interiors and duality theory. **93e:90069a**
— (*with* Lewis, Adrian S.) Partially finite convex programming. II. Explicit lattice models. **93e:90069b**
Boyer, Robert Méthode F.A.C. pour un problème de type "obstacle". (English and French summaries) [An FAC method for an "obstacle" problem] **93g:90057**
Brandolini, L. *see* **Bertocchi, Maria; et al., 93i:90066**
Bunse-Gerstner, Angelika (*with* Mehrmann, Volker; Nichols, Nancy K.) Regularization of descriptor systems by derivative and proportional state feedback. **93a:93023**
Burke, James V. A robust trust region method for constrained nonlinear programming problems. **93c:90075**
Butnariu, Dan (*with* Mehrez, Abraham) On a class of generalized gradient methods for solving locally Lipschitz feasibility problems. (English summary) (*see* **93e:90003**)
Byrd, Richard H. (*with* Tapia, Richard A.; Zhang, Yin[1]) An SQP augmented Lagrangian BFGS algorithm for constrained optimization. **93d:90059**
— (*with* Liu, Dong C.; Nocedal, Jorge) On the behavior of Broyden's class of quasi-Newton methods. (English summary) **93m:90076**
Byrne, C. C. (*with* Vaserstein, L. N.) An improved algorithm for finding saddlepoints of two-person zero-sum games. **93b:90113**
Caron, R. J. *see* **Boender, C. G. E.; et al., 93f:90106**
Carter, Richard G. Numerical experience with a class of algorithms for nonlinear optimization using inexact function and gradient information. (English summary) **93j:90095**
Catoni, Olivier Exponential triangular cooling schedules for simulated annealing algorithms: a case study. (*see* **93a:93100**)
Cavallaro, Joseph R. *see* **Deo, Arati S.; et al., (93g:65178)**
Chakraborty, Tushar Kanti The determination of indifference quality level single sampling attribute plans with given relative slope. (English summary)
— Single sampling LTPD plans as a stochastic programming problem. (English summary)
Chen, Dao Qi A new algorithm for ball-constrained quadratic minimization problems. (English summary) **93i:90076**
Chen, Guo Qing (*with* Feng, En Min; Teng, Hong Fei) A study on optimal models of geometric layouts with behavioral constraints. (Chinese. English and Chinese summaries)
Chen, Ning *see* **Wang, Jia Song**
Chen, You Qin *see* **Xu, Shu Rong; et al., 93d:90038**
Chung, S. L. (*with* Hanson, F. B.; Xu, H. H.) Parallel stochastic dynamic programming: finite element methods. **93c:90049**
Coleman, Thomas F. (*with* Li, Yuying) A globally and quadratically convergent affine scaling method for linear l_1 problems. (English summary) **93g:65073**
— (*with* Li, Yuying) A global and quadratically convergent method for linear l_∞ problems. **93d:65050**
— (*with* Plassmann, Paul E.) A parallel nonlinear least-squares solver: theoretical analysis and numerical results. **93a:65068**
Conn, Andrew R. (*with* Li, Yuying) A structure-exploiting algorithm for nonlinear minimax problems. **93d:90060**
— (*with* Gould, N. I. M.; Sartenaer, A.; Toint, Ph. L.) Global convergence of a class of trust region algorithms for optimization using inexact projections on convex constraints. (English summary) **93k:90069**
Cottle, Richard W. (*with* Pang, Jong-Shi; Stone, Richard E.) ★ The linear complementarity problem. **93f:90001**
Dai, Yang (*with* Sekitani, K.; Yamamoto, Yoshitsugu) A variable dimension algorithm with the Dantzig-Wolfe decomposition for structured stationary point problems. **93a:90060**
Dax, Achiya On minimum norm solutions. (English summary) **93k:90066**
De Leone, R. Partially and totally asynchronous algorithms for linear complementarity problems. **93c:90089**
Deo, Arati S. (*with* Cavallaro, Joseph R.; Walker, Ian D.) New real-time robot motion algorithms using parallel VLSI architectures. (English summary) (*see* **93g:65178**)
Dietze, S. *see* **Schmidt, Jochen W., 93j:90078**
Ding, Guan Dong (*with* Lin, Ying Ju) A feasible descent algorithm for nonsmooth optimization with linear inequality constraints. (Chinese. English summary) **93f:90147**
Djuranović-Miličić, Nada I. A projection method for linearly constrained problems which only uses function values. **93f:90148**
Ebiefung, Aniekan A. (*with* Kostreva, Michael M.) Global solvability of generalized linear complementarity problems and a related class of polynomial complementarity problems. **93a:90070**
Eckstein, Jonathan (*with* Bertsekas, Dimitri P.) On the Douglas-Rachford splitting method and the proximal point algorithm for maximal monotone operators. **93c:90057**
Eggermont, P. P. B. On Volterra-Lotka differential equations and multiplicative algorithms for monotone complementarity problems. (English summary) **93j:90114**
Eicke, Bertolt Iteration methods for convexly constrained ill-posed problems in Hilbert space. (English summary) **93i:49038**
(Ermol'ev, Yu. M.) *see* **Uryas'ev, S. P., 93b:90007**
Eydeland, Alexander *see* **Nagurney, Anna, 93f:90112**
Fang, S. C. *see* **Sheu, R.-L., 93f:90109**
Feng, En Min *see* **Chen, Guo Qing; et al.**
Fernández Rodríguez, C. A. (*with* Schönefeld, K.; Kleinmichel, H.) Algorithm for the solution of nonlinear constrained optimization problems. (Spanish. English and Spanish summaries) **93k:90083**
Flåm, Sjur D. Solving convex programs by means of ordinary differential equations. **93j:90075**
Forsgren, A. L. (*with* Gill, P. E.; Murray, Walter) On the identification of local minimizers in inertia-controlling methods for quadratic programming. **93c:90055**
Freund, Robert M. *see* **Birge, John R.; et al., 93e:90033**
Friedlander, A. (*with* Martínez, José Mario) New algorithmns for maximization of concave functions with box constraints. (English and French summaries) **93i:90089**
Fukushima, Masao (*with* Takazawa, Keiichi; Ohsaki, Shuichi; Ibaraki, Toshihide) Successive linearization methods for large-scale nonlinear programming problems. **93a:90062**
Gabriel, Steven A. (*with* Pang, Jong-Shi) An inexact NE/SQP method for solving the nonlinear complementarity problem. (English summary) **93j:90117**
Galiev, Sh. I. Directions of descent for minimax problems. (Russian. Russian summary) **93j:90097**
Gill, P. E. *see* **Forsgren, A. L.; et al., 93c:90055**
Gould, N. I. M. *see* **Conn, Andrew R.; et al., 93k:90069**
Greiner, H. An algorithm for linearly constrained programs with a partly linear objective function. **93b:90082**
Güler, Osman New proximal point algorithms for convex minimization. (English summary) **93j:90076**
Hall, Leslie A. (*with* Magnanti, Thomas L.) A polyhedral intersection theorem for capacitated spanning trees. **93e:90064**
Han, Chi-Geun *see* **Li, Wu; et al., 93j:90074**
Hanson, F. B. *see* **Chung, S. L.; et al., 93c:90049**
He, Bing Sheng Some numerical experiments with a saddle point algorithm for linear programming. (Chinese. English summary) **93j:90051**
— (*with* Stoer, Josef) Solution of projection problems over polytopes. **93b:90059**
den Hertog, D. (*with* Roos, C.; Terlaky, Tamás) On the classical logarithmic barrier function method for a class of smooth convex programming problems. **93b:90063**
— (*with* Roos, C.; Vial, Jean-Philippe) A complexity reduction for the long-step path-following algorithm for linear programming. **93d:90032**
Hoffmann, Karl-Heinz[1] (*with* Zou, Jun) Parallel algorithms of Schwarz variant for variational inequalities. (English summary) **93k:65050**
Ibaraki, Toshihide *see* **Fukushima, Masao; et al., 93a:90062**
Jarre, Florian Interior-point methods for convex programming. (English summary) **93h:90071**
Júdice, Joaquím J. (*with* Pires, F. M.) Numerical treatment of unconstrained variables in quadratic programs with side constraints. (Portuguese. English summary) **93b:90061**
Kalashnikov, V. V. (*with* Kalashnikova, N. I.) Convergence of the Newton method for the nonlinear complementarity problem. (Russian) **93c:90091**
Kalashnikova, N. I. *see* **Kalashnikov, V. V., 93c:90091**
(Kall, P.) *see* **System modelling and optimization, 93e:90003**
Kaplan, A. A. (*with* Tichatschke, Rainer) Adaptive methods for solving ill-posed semi-infinite problems of convex optimization. (Russian) **93c:90094**
Karasëv, A. Yu. On a correction model in classification problems. (Russian) **93b:68085**
Karmanov, V. G. *see* **Berezněv, V. A.; et al., 93f:90146**
Karmarkar, Narendra (*with* Resende, Mauricio G. C.; Ramakrishnan, K. G.) An interior point algorithm to solve computationally difficult set covering problems. **93b:90050**
Kaveh, A. ★ Structural mechanics: graph and matrix methods. **93g:73074**

Kleinmichel, H. *see* **Fernández Rodríguez, C. A.; et al., 93k:90083**
Kojima, Masakazu (*with* Megiddo, Nimrod; Ye, Yinyu) An interior point potential reduction algorithm for the linear complementarity problem. **93d:90065**
Konno, Hiroshi *see* **Kuno, Takahito; et al., 93k:90072**
Kostreva, Michael M. *see* **Ebiefung, Aniekan A., 93a:90070**
Kunisch, K. (*with* Sachs, Ekkehard) Reduced SQP methods for parameter identification problems. (English summary) **93k:65046**
Kuno, Takahito (*with* Konno, Hiroshi; Yamamoto, Yoshitsugu) A parametric successive underestimation method for convex programming problems with an additional convex multiplicative constraint. (English summary) **93k:90072**
Lai, Yan Lian (*with* Wei, Zeng Xin) A unified approach to the method of gradient projection with arbitrary initial point. **93b:90086**
L'Ecuyer, Pierre Convergence rates for steady-state derivative estimators. (English summary) **93j:90040**
Levin, A. M. Regularization algorithms for solving ill-posed criterion problems. (English summary) (*see* **93m:00041**)
Lewis, Adrian S. *see* **Borwein, Jonathan, 93e:90069a** *and* **93e:90069b**
Li, Bao Xiu (*with* Shen, Yu; Yu, Zai Hua) Highly parallel algorithms for unconstrained optimization. (Chinese. English summary)
Li, Dong Hui On the global convergence of the DFP method. (Chinese. English and Chinese summaries) **93m:90078**
Li, Wu (*with* Pardalos, Panos M.; Han, Chi-Geun) Gauss-Seidel method for least-distance problems. (English summary) **93j:90074**
Li, Yuying *see* **Coleman, Thomas F., 93d:65050**; **Conn, Andrew R., 93d:90060** *and* **Coleman, Thomas F., 93g:65073**
Lin, Ying Ju *see* **Ding, Guan Dong, 93f:90147**
Lin-Kriz, Yu (*with* Pan, Victor) On parallel complexity of integer linear programming, GCD and the iterated mod function. **93f:90119**
Liu, Dong C. *see* **Byrd, Richard H.; et al., 93m:90076**
Lodwick, Weldon A. Preprocessing nonlinear functional constraints with applications to the pooling problem. (English summary) **93e:65093**
Lucidi, Stefano New results on a continuously differentiable exact penalty function. (English summary) **93j:90099**
Lukšan, Ladislav Computational experience with improved conjugate gradient methods for unconstrained minimization. (English summary) **93h:90088**
Lustig, Irvin J. (*with* Marsten, Roy E.; Shanno, David F.) On implementing Mehrotra's predictor-corrector interior-point method for linear programming. **93h:90059**
Magnanti, Thomas L. *see* **Hall, Leslie A., 93e:90064**
Marsten, Roy E. *see* **Lustig, Irvin J.; et al., 93h:90059**
Martínez, José Mario Fixed-point quasi-Newton methods. (English summary) **93j:65081**
— *see also* **Friedlander, A., 93i:90089**
Megiddo, Nimrod On finding primal- and dual-optimal bases. (English summary) **93d:90033**
— *see also* **Kojima, Masakazu; et al., 93d:90065**
Mehrez, Abraham *see* **Butnariu, Dan, (93e:90003)**
Mehrmann, Volker *see* **Bunse-Gerstner, Angelika; et al., 93a:93023**
Mizuno, Shinji A new polynomial time method for a linear complementarity problem. (English summary) **93f:90170**
Moiseenko, V. A. (*with* Saenko, O. A.) Using the Kalman smoother to analyse and process oceanographic data. **93d:86002**
Morgan, Alexander P. *see* **Watson, Layne T., 93h:90093**
Munack, H. On global optimization using interval arithmetic. (English and German summaries) **93j:90100**
Murray, Walter *see* **Forsgren, A. L.; et al., 93c:90055**
Murty, Katta G. *see* **Al-Sultan, K. S., 93j:90073**
Nagurney, Anna (*with* Eydeland, Alexander) A splitting equilibration algorithm for the computation of large-scale constrained matrix problems: theoretical analysis and applications. (English summary) **93f:90112**
Nagy, James G. (*with* Plemmons, Robert J.) An inverse factorization algorithm for linear prediction. **93g:65042**
Nashempa, K. V. *see* **Pshenichnyi, B. N., 93k:90084**
Nefëdov, V. N. Some problems for solving Lipschitz problems of global optimization using the branch and bound method. (Russian) **93h:90089**
Nemirovskii, A. S. *see* **Nesterov, Yu., 93b:90062**
Nesterov, Yu. (*with* Nemirovskii, A. S.) Acceleration and parallelization of the path-following interior point method for a linearly constrained convex quadratic problem. **93b:90062**
Nichols, Nancy K. *see* **Bunse-Gerstner, Angelika; et al., 93a:93023**
Nocedal, Jorge *see* **Byrd, Richard H.; et al., 93m:90076**
Noor, Muhammad Aslam Generalized Wiener-Hopf equations and nonlinear quasi variational inequalities. (English summary) **93m:47069**
Norkin, V. I. On Piyavskii's method for solving a general problem of global optimization. (Russian. Russian summary) **93m:90079**
Ohnishi, Masamitsu Policy iteration and Newton-Raphson methods for Markov decision processes under average cost criterion. **93f:90182**
Ohsaki, Shuichi *see* **Fukushima, Masao; et al., 93a:90062**
Pan, Victor *see* **Lin-Kriz, Yu, 93f:90119**
Pang, Jong-Shi *see* **Cottle, Richard W.; et al., 93f:90001** *and* **Gabriel, Steven A., 93j:90117**
Pardalos, Panos M. *see* **Li, Wu; et al., 93j:90074**
Pearl, Judea ★ Heuristique. (French) [Heuristics] **93c:68091**
Pires, F. M. *see* **Júdice, Joaquím J., 93b:90061**
Plassmann, Paul E. *see* **Coleman, Thomas F., 93a:65068**
Plemmons, Robert J. *see* **Nagy, James G., 93g:65042**
Podebedov, V. E. Finding the maximum of approximately computable Lipschitz functions with scarce resources. (Russian. Russian summary) **93m:90080**
Polak, Elijah *see* **Wiest, E. J., 93i:90092**
Powell, M. J. D. The complexity of Karmarkar's algorithm for linear programming. (English summary) **93i:90062**
Pshenichnyi, B. N. (*with* Nashempa, K. V.) A finite-step method for solving limit extremal problems. (Russian. English and Ukrainian summaries) **93k:90084**
Pu, Ding Guo A class of DFP algorithms without exact linear search. (English summary) **93k:90085**
Qi, Li Qun *see* **Sun, Jie, 93k:90074**
Ramakrishnan, K. G. *see* **Karmarkar, Narendra; et al., 93b:90050**
Reemtsen, Rembert Discretization methods for the solution of semi-infinite programming problems. **93a:90074**
Renegar, James Computational complexity of solving real algebraic formulae. **93a:65189**
— (*with* Shub, Michael) Unified complexity analysis for Newton LP methods. **93a:90038**
Resende, Mauricio G. C. *see* **Karmarkar, Narendra; et al., 93b:90050**
Rinnooy Kan, A. H. G. *see* **Boender, C. G. E.; et al., 93f:90106**
Rogatneva, E. A. Combined global search schemes for solving problems with singularities. (Russian) **93b:90088**
Rohn, Jiří Erratum: "A short proof of finiteness of Murty's principal pivoting algorithm" [Math. Programming **46** (1990), no. 2, (Ser. A), 255–256; MR 91k:90208]. **93k:90097**
Roos, C. *see* **den Hertog, D.; et al., 93b:90063** *and* **93d:90032**
Rouy, Elisabeth (*with* Tourin, Agnès) A viscosity solutions approach to shape-from-shading. **93d:65019**
Sachs, Ekkehard *see* **Kunisch, K., 93k:65046**
Saenko, O. A. *see* **Moiseenko, V. A., 93d:86002**
Šaltenis, Vydūnas ★ Анализ структуры задач оптимизации. (Russian) [Analysis of the structure of optimization problems] **93b:90006**
Sartenaer, A. *see* **Conn, Andrew R.; et al., 93k:90069**
Schmidt, Jochen W. (*with* Dietze, S.) Unconstrained duals to partially separable constrained programs. (English summary) **93j:90078**
Schönefeld, K. *see* **Fernández Rodríguez, C. A.; et al., 93k:90083**
Schramm, Helga (*with* Zowe, Jochem) A version of the bundle idea for minimizing a nonsmooth function: conceptual idea, convergence analysis, numerical results. **93b:90089**
Sekitani, K. *see* **Dai, Yang; et al., 93a:90060**
Shang, Weijia *see* **Xing, Zhaoyun; et al., (93k:65003)**
Shanno, David F. *see* **Lustig, Irvin J.; et al., 93h:90059**
Shen, Yu *see* **Li, Bao Xiu; et al.**
Sheu, R.-L. (*with* Fang, S. C.) Insights into the interior-point methods. **93f:90109**
Shub, Michael *see* **Renegar, James, 93a:90038**
Słomiński, Leon *see* **Bertocchi, Maria; et al., 93i:90066**
Sobczynska, J. *see* **Bertocchi, Maria; et al., 93i:90066**
Sonnevend, G. (*with* Stoer, Josef; Zhao, Gong Yun) On the complexity of following the central path of linear programs by linear extrapolation. II. **93b:90044**
Sorkin, Gregory B. Simulated annealing on fractals: theoretical analysis and relevance for combinatorial optimization. **93f:90137**
Spedicato, Emilio (*with* Bodon, Elena) Solution of linear least squares via the ABS algorithm. (English summary) **93m:65055**
Stancu-Minasian, I. M. (*with* Ţigan, Ştefan) On a procedure for some separable programming problems. **93f:90158**
Stoer, Josef *see* **Sonnevend, G.; et al., 93b:90044**; **He, Bing Sheng, 93b:90059** *and* **Zhao, Gong Yun, 93h:90064**
Stone, Richard E. *see* **Cottle, Richard W.; et al., 93f:90001**
Sun, Jie (*with* Qi, Li Qun) An interior point algorithm of $O(\sqrt{m}|\ln\varepsilon|)$ iterations for C^1-convex programming. (English summary) **93k:90074**
Takahashi, Satoru *see* **Yabe, Hiroshi; et al., 93j:90103**
Takazawa, Keiichi *see* **Fukushima, Masao; et al., 93a:90062**
Tapia, Richard A. *see* **Byrd, Richard H.; et al., 93d:90059**
Teng, Hong Fei *see* **Chen, Guo Qing; et al.**
Terlaky, Tamás *see* **den Hertog, D.; et al., 93b:90063**
Tichatschke, Rainer *see* **Kaplan, A. A., 93c:90094**
Ţigan, Ştefan *see* **Stancu-Minasian, I. M., 93f:90158**
Todd, Michael J. A low complexity interior-point algorithm for linear programming. **93c:90042**
— (*with* Wang, Yu Fei) On combined phase 1–phase 2 projective methods for linear programming. (English summary) **93j:90054**
Toint, Ph. L. *see* **Conn, Andrew R.; et al., 93k:90069**
Tourin, Agnès *see* **Rouy, Elisabeth, 93d:65019**
Tret'yakov, A. A. *see* **Bereznĕv, V. A.; et al., 93f:90146**
Tuniev, A. D. The directional vector method and its applications. (Russian. English and Ukrainian summaries) **93j:65046**
Uryas'ev, S. P. ★ Адаптивные алгоритмы стохастической оптимизации и теории игр. (Russian) [Adaptive algorithms in stochastic optimization and game theory] **93b:90007**
Vanderbei, Robert J. *see* **Birge, John R.; et al., 93e:90033**
Vaserstein, L. N. *see* **Byrne, C. C., 93b:90113**
Vavasis, Stephen A. On approximation algorithms for concave quadratic programming. **93f:90124**
— Local minima for indefinite quadratic knapsack problems. **93f:90125**
Veverka, Vladimír A method of reconciliation of measured data with nonlinear constraints. **93a:65075**
Vial, Jean-Philippe *see* **den Hertog, D.; et al., 93d:90032**
Walker, Ian D. *see* **Deo, Arati S.; et al., (93g:65178)**
Wang, Jia Song (*with* Chen, Ning) The l_∞ norm minimization solution to underdetermined systems of linear equations. (Chinese. English summary)
Wang, Yu Fei *see* **Todd, Michael J., 93j:90054**
Watson, G. A. The solution of matrix approximation problems in c_p norms. **93e:41057**
Watson, Layne T. (*with* Morgan, Alexander P.) Polynomial programming using multihomogeneous polynomial continuation. (English summary) **93h:90093**
Wei, Bin *see* **Xu, Cheng Xian, 93i:90093**
Wei, Zeng Xin *see* **Lai, Yan Lian, 93b:90086**
Wiest, E. J. (*with* Polak, Elijah) A generalized quadratic programming-based phase I–phase II method for inequality-constrained optimization. (English summary) **93i:90092**
Wood, G. R. The bisection method in higher dimensions. **93g:90069**
Xiao, Shihai *see* **Xing, Zhaoyun; et al., (93k:65003)**
Xiao, Y. (*with* Zhou, Fang Jun) Nonmonotone trust region methods with curvilinear path in unconstrained optimization. (English and German summaries) **93f:90164**

Xing, Zhaoyun (*with* Shang, Weijia; Xiao, Shihai) A piecewise linear programming approach to data dependence analysis. (English summary) (*see* **93k:65003**)
Xu, Cheng Xian (*with* Wei, Bin) A class of reduced gradient methods for handling optimization problems with linear inequality constraints. (English summary) **93i:90093**
Xu, H. H. *see* **Chung, S. L.; et al., 93c:90049**
Xu, Shu Rong (*with* Yao, Hong Bing; Chen, You Qin) An improved Karmarkar algorithm for linear programming and its numerical test. (Chinese. English summary) **93d:90038**
Xu, Xue Rong A subgradient algorithm for nondifferentiable programming with degenerate constraints. (Chinese. English summary) **93d:90063**
Yabe, Hiroshi (*with* Yamaki, Naokazu; Takahashi, Satoru) Global convergence of sequential inexact QP method for constrained optimization. (English summary) **93j:90103**
Yamaki, Naokazu *see* **Yabe, Hiroshi; et al., 93j:90103**
Yamamoto, Yoshitsugu *see* **Dai, Yang; et al., 93a:90060** *and* **Kuno, Takahito; et al., 93k:90072**
Yang, Bo Ting *see* **Zhang, Ke Cun, 93j:90105**
Yao, Hong Bing *see* **Xu, Shu Rong; et al., 93d:90038**
Ye, Yinyu *see* **Kojima, Masakazu; et al., 93d:90065**
Yu, Ji Ying An algorithm for solving a special kind of mathematical programming problem and its application in finance. (Chinese. English summary)
Yu, Zai Hua *see* **Li, Bao Xiu; et al.**
Zeng, Jin Ping Convergence and convergence rate of projection relaxation iterations. (English and Chinese summaries) **93i:90099**
Zhang, Ke Cun (*with* Yang, Bo Ting) An algorithm for constrained nonlinear programming and its convergence. (Chinese. English and Chinese summaries) **93j:90105**
Zhang, Yin[1] Computing a Celis-Dennis-Tapia trust-region step for equality constrained optimization. **93c:90086**
— *see also* **Byrd, Richard H.; et al., 93d:90059**
Zhao, Gong Yun (*with* Stoer, Josef) Estimating the complexity of a class of path-following methods for solving linear programs by curvature integrals. (English summary) **93h:90064**
— *see also* **Sonnevend, G.; et al., 93b:90044**
Zhiglyavskii, A. A. (*with* Žilinskas, Antanas) ★ Методы поиска глобального экстремума. (Russian) [Methods for searching for the global extremum] **93f:90004**
Zhou, Fang Jun *see* **Xiao, Y., 93f:90164**
Zhu, De Tong Convergence of a class of improved secant methods for nonlinear constrained optimization. (Chinese. English and Chinese summaries) **93j:90107**
Žilinskas, Antanas *see* **Zhiglyavskii, A. A., 93f:90004**
Zou, Jun *see* **Hoffmann, Karl-Heinz[1], 93k:65050**
Zowe, Jochem *see* **Schramm, Helga, 93b:90089**

Items listed otherwise than by author

IFIP Conference:
System Modelling and Optimization ★ System modelling and optimization. **93e:90003**
Lecture Notes in Control and Information Sciences ★ System modelling and optimization. **93e:90003**
System modelling and optimization ★ System modelling and optimization. **93e:90003**
Zurich ★ System modelling and optimization. **93e:90003**

65K10 Optimization and variational techniques [see also 49Mxx, 93B40]

Barbu, Viorel (*with* Korman, Philip) Approximating optimal controls for elliptic obstacle problem by monotone iteration schemes. **93e:65090**
Bellettini, Giovanni A numerical approach to a minimum problem with applications in image segmentation. (Italian summary) **93a:65085**
— (*with* Paolini, M.; Verdi, Claudio) Numerical minimization of functionals with curvature by convex approximations. (*see* **93f:35008**)
Caldwell, James Variational-iterative schemes as applied to the nonlinear Burgers' equation. (*see* **93b:00022**)
Chan, Tony F. C. (*with* Olkin, Julia A.; Cooley, Donald W.) Solving quadratically constrained least squares using black box solvers. (English summary) **93e:65091**
Chung, Ming Hui *see* **Lin, Ts'ung Wu; et al.**
Čiegis, Raimondas (*with* Čiupaila, Regimantas J.) The conditional minimization method for the numerical solution of a nonstationary problem with free boundaries. (Russian. English and Lithuanian summaries) **93b:65089**
Čiupaila, Regimantas J. *see* **Čiegis, Raimondas, 93b:65089**
Cooley, Donald W. *see* **Chan, Tony F. C.; et al., 93e:65091**
Csendes, Tibor Test results of interval methods for global optimization. (English summary) (*see* **93e:00022**)
Dax, Achiya On row relaxation methods for large constrained least squares problems. (English summary) **93m:65081**
Denisenko, A. Yu. *see* **Vabishchevich, P. N., 93a:65091**
Deumlich, H. Interval enclosure of the solution set in vector optimization. (English summary) **93k:65058**
Dixon, L. C. W. (*with* Jha, M.) The parallel truncated Newton method implemented on a multitransputer network. (English summary) (*see* **93f:00016**)
Fang, Kai Tai *see* **Wang, Yuan[1], 93g:65088**
Fedotov, A. M. Construction of optimal solutions of linear reconstruction problems. (Russian. Russian summary) (*see* **93b:32001**)
Fourer, Robert A simplex algorithm for piecewise-linear programming. III. Computational analysis and applications. **93a:65086**
Fox, Geoffrey C. Approaches to physical optimization. (English summary) (*see* **93g:65178**)
Goertzel, Ben Global optimization by multilevel search. (English summary)
González, Roberto L. V. (*with* Tidball, Mabel M.) Fast solution of general nonlinear fixed point problems. (English summary) **93e:65092**
Gopalsamy, S. (*with* Khandekar, Dilip; Mudur, S. P.) A new method of evaluating compact geometric bounds for use in subdivision algorithms. **93b:65090**
Gunzburger, Max D. (*with* Hou, LiSheng; Svobodny, Thomas P.) A numerical method for drag minimization via the suction and injection of mass through the boundary. (English summary) (*see* **93c:93006**)
Hamad, A. J. *see* **Makky, S. M., (93a:41001)**
Heinkenschloss, Matthias Mesh independence for nonlinear least squares problems with norm constraints. (English summary) **93m:65082**
Higham, Nicholas J. Optimization by direct search in matrix computations. (English summary) **93m:65083**
Hou, LiSheng *see* **Gunzburger, Max D.; et al., (93c:93006)**
Huang, Chin T'ien *see* **Lin, Ts'ung Wu; et al.**
Ingber, Lester (*with* Rosen, Bruce) Genetic algorithms and very fast simulated reannealing: a comparison. (English summary)
Jansson, C. A global optimization method using interval arithmetic. (English summary) (*see* **93i:65006**)
Jha, M. *see* **Dixon, L. C. W., (93f:00016)**
Khandekar, Dilip *see* **Gopalsamy, S.; et al., 93b:65090**
Khoda, K. M. (*with* Liu, Yu[3]; Storey, Colin) Generalized Polak-Ribière algorithm. (English summary)
Korman, Philip *see* **Barbu, Viorel, 93e:65090**
Kress, Rainer (*with* Zinn, Axel) On the numerical solution of the three-dimensional inverse obstacle scattering problem. (English summary) **93f:65052**
Li, Hua Xia *see* **Zhou, Shu Zi**
Li, Qing Yang (*with* Xie, Jin Xing) A continuous minimization method for solving nonlinear least-squares problems. (Chinese. English summary) **93a:65087**
Li, Zhi Ping Element removal method for singular minimizers in variational problems involving Lavrentiev phenomenon. (English summary) **93j:65096**
Lin, Ts'ung Wu (*with* Chung, Ming Hui; Huang, Chin T'ien) Solving optimization problems by searching along a curve. (English and Chinese summaries)
Liu, Yu[3] *see* **Khoda, K. M.; et al.**
Lodwick, Weldon A. Preprocessing nonlinear functional constraints with applications to the pooling problem. (English summary) **93e:65093**
Makky, S. M. (*with* Hamad, A. J.) Water coning in oil wells via a new variational technique for free boundary problems. (*see* **93a:41001**)
Martínez, José Mario On the relation between two local convergence theories of least-change secant update methods. **93a:65088**
Mudur, S. P. *see* **Gopalsamy, S.; et al., 93b:65090**
Noor, Muhammad Aslam Iterative algorithms for quasi variational inequalities. **93e:65094**
Olkin, Julia A. *see* **Chan, Tony F. C.; et al., 93e:65091**
Pak, N. V. An approximate method for computing rhythmic production flows taking into account delays in the system. (Russian) **93c:65083**
Paolini, M. *see* **Bellettini, Giovanni; et al., (93f:35008)**
Reemtsen, Rembert A cutting plane method for solving minimax problems in the complex plane. (English summary) **93j:65097**
Rosen, Bruce *see* **Ingber, Lester**
Schmidt, Jochen W. Unconstrained pendants to discretized constrained variational problems. (*see* **93b:65007**)
Sheng, Song Bai (*with* Zhu, Yi Ran) A collinear scaling symmetric rank-one updating algorithm. (Chinese. English summary) **93a:65089**
Steinbach, Jörg Evolutionary variational inequalities with a Volterra term. **93a:65090**
Stoer, Josef A dual algorithm for solving degenerate linearly constrained linear least squares problems. (English summary) **93i:65066**
Storey, Colin *see* **Khoda, K. M.; et al.**
Svobodny, Thomas P. *see* **Gunzburger, Max D.; et al., (93c:93006)**
Tan, Choon Peng On the extreme points of the intersection of the unit ball of the trimmed l_1 norm with a hyperplane. (English summary) **93e:65095**
Tidball, Mabel M. *see* **González, Roberto L. V., 93e:65092**
Vabishchevich, P. N. (*with* Denisenko, A. Yu.) Numerical methods for solving a coefficient inverse problem. (Russian) **93a:65091**
Verdi, Claudio *see* **Bellettini, Giovanni; et al., (93f:35008)**
Wang, Yuan[1] (*with* Fang, Kai Tai) A sequential number-theoretic method for optimization and its applications in statistics. **93g:65088**
Xie, Jin Xing *see* **Li, Qing Yang, 93a:65087**
Zeng, Jin Ping Convergence of the multigrid method for solving asymmetric elliptic variational inequalities. (Chinese. English and Chinese summaries) **93j:65098**
Zhou, Shu Zi (*with* Li, Hua Xia) Quasi-Newton methods for nonlinear variational inequalities. (Chinese. English summary)
Zhu, De Tong Local convergence of improved secant methods for minimizing nonsmooth composite functions. (Chinese. English and Chinese summaries) **93j:65099**
Zhu, Yi Ran *see* **Sheng, Song Bai, 93a:65089**
Zinn, Axel *see* **Kress, Rainer, 93f:65052**

Items with secondary classifications in 65K10

Adamov, A. A. Construction of an optimal density for simultaneous estimation of several functionals by the Monte Carlo method. (Russian) **93c:65008**
Ainsworth, Mark (*with* Oden, J. Tinsley; Lee, Chang-Yeong) Local a posteriori error estimators for variational inequalities. (English summary) **93m:49015**
Al-Khayyal, Faiz A. *see* **Hoàng Tụy, 93b:90084**
Amaya, K. *see* **Aoki, S., (93b:65008)**
Ambrosio, Luigi (*with* Tortorelli, V. M.) On the approximation of free discontinuity problems. (Italian summary) **93e:49010**
Aoki, S. (*with* Amaya, K.) Optimization of cathodic protection system (optimum location of electrode on wall). (*see* **93b:65008**)
Arai, Kaori *see* **Yamamura, Kiyotaka; et al., 93h:90094**
Armando Luis, K. (*with* Beiko, I. V.) An approximate method for solving a partially discrete optimization problem. (Russian. Russian summary)
Atamian, C. (*with* Dinh, G. V.; Glowinski, Roland; He, Jiwen; Périaux, Jacques) On some imbedding methods applied to fluid dynamics and electromagnetics. **93c:76066**
Bacopoulos, A. (*with* Botsaris, C. A.) A new conic method for unconstrained minimization. **93c:90073**
Baranov, V. V. Numerical methods of successive eliminations and optimization in a model of stochastic optimal control. (Russian) **93f:90179**
Bardi, Martino (*with* Soravia, Pierpaolo) Approximation of differential games of pursuit-evasion by discrete-time games. (English summary) **93h:90124**

Barnes, E. R. (*with* Hoffman, A. J.; Rothblum, Uriel G.) Optimal partitions having disjoint convex and conic hulls. **93d:05014**

Bartholomew-Biggs, M. C. (*with* Nguyen, T. T.) Orthogonal and conjugate basis methods for solving equality constrained minimization problems. (Spanish summary) **93b:90080**

Barvinok, A. I. Statistical sums in optimization and computational problems. (Russian) **93f:90131**

Baxter, Laurence A. (*with* Harche, Farid) Note: on the greedy algorithm for optimal assembly. (English summary) **93f:90132**

Bayarunas, Ėitvidas (*with* Čiegis, Raimondas) Adaptive difference schemes for nonstationary one-dimensional problems. (Russian. English and Lithuanian summaries) **93b:65123**

Beĭko, I. V. *see* **Armando Luis, K.**

Bekturov, A. Sh. *see* **Ospanov, S. S., 93c:90045**

Bel′skiĭ, V. G. A multigrid method for solving variational inequalities. (Russian) **93b:65187**

Björck, Å. Pivoting and stability in the augmented system method. (*see* **93b:65005**)

Bonnans, Joseph Frédéric (*with* Panier, Eliane R.; Tits, André L.; Zhou, Jian L.) Avoiding the Maratos effect by means of a nonmonotone line search. II. Inequality constrained problems—feasible iterates. **93i:90087**

Botsaris, C. A. *see* **Bacopoulos, A., 93c:90073**

Brighi, B. (*with* Chipot, Michel) Approximation in nonconvex problems. **93j:49011**

Brown, Peter N. (*with* Saad, Youcef) Projection methods for solving nonlinear systems of equations. (English summary) **93g:65082**

Burger, Jacques (*with* Le Brizaut, Jean-Sébastien; Pogu, Marc) Comparison of two methods for the calculation of the gradient and of the Hessian of cost functions associated with differential systems. (English summary) **93i:49036**

Čadek, Ondřej (*with* Martinec, Zdeněk; Matyska, Ctirad) Spectral variational approach to the non-Newtonian Stokes problem in a spherical shell. (English summary) **93f:76002**

Chen, Shu Ping Necessary and sufficient conditions for the existence of positive solutions to algebraic Riccati equations with indefinite quadratic term. **93c:93023**

Chen, Su Huan *see* **Liu, Han Bing, (93b:65008)**

Chen, Zhi Ming (*with* Hoffmann, Karl-Heinz[1]) Numerical solutions of the optimal control problem governed by a phase field model. **93e:49047**

Chen, Zhong Wen (*with* Wang, Jia Song) An algorithm for solving large l_1 norm minimization. (Chinese. English summary) **93b:65070**

Chipot, Michel (*with* Collins, Charles) Numerical approximations in variational problems with potential wells. **93j:65171**

— *see also* **Brighi, B., 93j:49011**

Chistyakova, E. V. *see* **Perevozchikov, A. G.**

Čiegis, Raimondas *see* **Bayarunas, Ėitvidas, 93b:65123**

Coleman, Thomas F. (*with* Fenyes, Peter A.) Partitioned quasi-Newton methods for nonlinear equality constrained optimization. **93a:90059**

— (*with* Li, Yuying) A global and quadratically convergent method for linear l_∞ problems. **93d:65050**

Collins, Charles *see* **Chipot, Michel, 93j:65171**

Conforti, D. (*with* De Luca, L.; Musmanno, R.) Unconstrained optimization on vector-parallel computers. (English summary) (*see* **93j:00007**)

Conn, Andrew R. (*with* Gould, N. I. M.; Toint, Ph. L.) ★ LANCELOT. (English. English summary)

— (*with* Gould, N. I. M.; Toint, Ph. L.) On the number of inner iterations per outer iteration of a globally convergent algorithm for optimization with general nonlinear constraints and simple bounds. (*see* **93b:65005**)

Cowsar, Lawrence C. (*with* Dean, E. J.; Glowinski, Roland; Le Tallec, Patrick; Li, Chin Hsien; Périaux, Jacques; Wheeler, Mary Fanett) Decomposition principles and their applications in scientific computing. (English summary) **93j:65200**

Craven, B. D. An algorithm for minimax. **93c:90076**

Danilin, Yu. M. (*with* Nurnazarov, D.) Modification of a gradient-type method for minimizing nonsmooth penalty functions. (Russian) **93c:90077**

Dapatadu, Rohan (*with* Gibson, Charles; Gregory, John[1]) Numerical methods for nonlinear optimal control problems: application to abnormal problems. **93e:49048**

Davis, Malcolm E. *see* **Luty, Brock A.; et al., 93g:65109**

Dean, E. J. *see* **Cowsar, Lawrence C.; et al., 93j:65200**

De Luca, L. *see* **Conforti, D.; et al., (93j:00007)**

Deng, Qing Ping Finite element method for a nonlinear gradient obstacle problem with monotone operator. (English summary) **93g:65145**

— *see also* **Shen, Shu Min, 93j:65186**

Ding, Hua[2] (*with* Xu, Shou Ze; Zheng, Zhe Min) A new approach to inverse problems of wave equations. II. The MCF method in time-domain. (English summary) (*see* **93d:73004**)

Dinh, G. V. *see* **Atamian, C.; et al., 93c:76066**

Dobrowolski, Manfred (*with* Staib, Tilo) On finite element approximation of a second order unilateral variational inequality. (English summary) **93j:65176**

Dobson, David C. Phase reconstruction via nonlinear least-squares. (English summary) **93e:65149**

Du, Qing Hua *see* **Huo, Tong Ru; et al., (93b:65008)**

Dyubko, A. G. *see* **Yakovlev, S. V., 93c:90043**

Edwards, John A. Exact equations of the nonlinear spline. **93c:41018**

Ekeland, Ivar (*with* Mathlouthi, Salem) Calcul numérique de la capacité symplectique. [Numerical computation of symplectic capacity] **93k:58090**

(Ermakov, S. M.) *see* **Zhiglyavskiĭ, A. A., 93i:90004**

Evtushenko, Yu. G. (*with* Zhadan, V. G.) Exact auxiliary functions. (Russian and Lithuanian summaries) **93a:90061**

Falk, James E. (*with* Palocsay, Susan W.) Optimizing the sum of linear fractional functions. **93a:90067**

Fang, Kai Tai (*with* Wang, Yuan[1]) A sequential algorithm for optimization and its applications to regression analysis. (English summary) **93e:90045**

Farin, Gerald (*with* Hagen, Hans) A local twist estimator. (*see* **93c:65026**)

Faustino, Ana M. *see* **Júdice, Joaquím J., 93b:90096**

Feng, Gang *see* **Zhou, Shu Zi, 93i:49017**

Fenyes, Peter A. *see* **Coleman, Thomas F., 93a:90059**

Ferris, Michael C. (*with* Mangasarian, O. L.) Minimum principle sufficiency. **93c:90058**

Fix, George J. (*with* Kannan, Rangachary) A random direction algorithm for an intersection problem. (English and German summaries) **93g:65085**

Flemmig, U. (*with* Poppe, Harry) On an algorithm for optimal control using an augmented Hamiltonian. **93e:49045**

Gao, Hang Shan *see* **Zhang, Ru Qing, 93f:73107**

Gavrilyako, V. M. Numerical solution of a time-optimality problem for an oscillatory system. (Russian)

Gavrilyuk, I. P. Estimates for the penalty method for variational inequalities under cone-type constraints. (Russian) **93d:49039**

Gergel′, V. P. (*with* Grishagin, V. A.; Kukhtin, V. V.; Rogatneva, E. A.; Strongin, R. G.; Vysotskaya, I. N.) ★ A software system for multiextremal optimization. (English. English and Russian summaries) **93i:90005**

Gewali, Laxmi P. (*with* Venkatasubramanian, R.) The external grazing problem. (English summary) **93k:90107**

Gibson, Charles *see* **Dapatadu, Rohan; et al., 93e:49048**

Glowinski, Roland *see* **Atamian, C.; et al., 93c:76066** *and* **Cowsar, Lawrence C.; et al., 93j:65200**

Gooi, Kee Mein *see* **Tan, Choon Peng, 93e:90059**

Gordon, V. S. Parallel algorithms for solving problems in scheduling theory. (Russian. Russian summary) **93f:90089**

Gould, N. I. M. *see* **Conn, Andrew R.; et al.** *and* **(93b:65005)**

Gregory, John[1] (*with* Gregory, Robert; Lin, Cantian; Zeman, Marvin) A global $O(h^4)$ pointwise error numerical algorithm for the extremal solution in the calculus of variations. **93b:49036**

— *see also* **Dapatadu, Rohan; et al., 93e:49048**

Gregory, Robert *see* **Gregory, John[1]; et al., 93b:49036**

Grishagin, V. A. *see* **Gergel′, V. P.; et al., 93i:90005**

Hagen, Hans (*with* Santarelli, Paolo) Variational design of smooth B-spline surfaces. (*see* **93c:65026**)

— *see also* **Farin, Gerald, (93c:65026)**

Han, Li Xing (*with* Xi, Shao Lin; Lin, You Lian) A trust region algorithm for equality constrained optimization. (Chinese. English and Chinese summaries) **93h:90084**

Han, Shih-Ping (*with* Pang, Jong-Shi; Rangaraj, Narayan) Globally convergent Newton methods for nonsmooth equations. (English summary) **93m:65070**

Hansen, Eldon ★ Global optimization using interval analysis. **93i:90002**

— *see also* **Moore, R. E.; et al., 93c:90080**

Hansen, Pierre (*with* Jaumard, Brigitte; Lu, Shi Hui) On using estimates of Lipschitz constants in global optimization. (English summary) **93j:90098**

Harche, Farid *see* **Baxter, Laurence A., 93f:90132**

Haslinger, Jaroslav *see* **Miettinen, M., 93i:49014**

He, Jiwen *see* **Atamian, C.; et al., 93c:76066**

Higle, Julia L. (*with* Sen, Suvrajeet) On the convergence of algorithms with implications for stochastic and nondifferentiable optimization. **93b:90054**

Hlaváček, Ivan Shape optimization of elastoplastic bodies by the finite element method. (*see* **93b:65007**)

— (*with* Křížek, Michal) Weight minimization of elastic bodies weakly supporting tension. I. Domains with one curved side. (Czech summary) **93c:73029**

Hoàng Tụy (*with* Al-Khayyal, Faiz A.) A class of global optimization problems solvable by sequential unconstrained convex minimization. **93b:90084**

Hoffman, A. J. *see* **Barnes, E. R.; et al., 93d:05014**

Hoffmann, Karl-Heinz[1] *see* **Chen, Zhi Ming, 93e:49047**

Horst, Reiner (*with* Nguyen Van Thoai) Conical algorithm for the global minimization of linearly constrained decomposable concave minimization problems. (English summary) **93h:90085**

Huang, Ch'i Jui (*with* Sheu, Shuenn Jyi) Singular perturbed Markov chains and exact behaviors of simulated annealing processes. **93f:60101**

Huang, Zhi Jian Convergence analysis of the nonlinear block scaled ABS methods. (English summary) **93k:65042**

Huo, Tong Ru (*with* Du, Qing Hua; Yao, Zhen Han) Shape optimal design by boundary element method and recursive quadratic programming. (*see* **93b:65008**)

Izmailov, A. F. Degenerate extremal problems with inequality-type constraints. (Russian. Russian summary) **93j:49022**

Jaumard, Brigitte *see* **Hansen, Pierre; et al., 93j:90098**

Javadian, A. D. Variational difference method for elliptic problems with highly quasisingular quadratic forms. **93d:65109**

Jennings, L. S. *see* **Rehbock, V.; et al., 93d:49040**

Jensen, Søren Tolver (*with* Johansen, Søren; Lauritzen, Steffen L.) Globally convergent algorithms for maximizing a likelihood function. **93c:62040**

Johansen, Søren *see* **Jensen, Søren Tolver; et al., 93c:62040**

Júdice, Joaquím J. (*with* Faustino, Ana M.) A sequential LCP method for bilevel linear programming. **93b:90096**

Kálovics, F. A reliable method for solving nonlinear systems of equations of few variables. (English and German summaries) **93g:65075**

Kamath, A. (*with* Karmarkar, Narendra) A continuous approach to compute upper bounds in quadratic maximization problems with integer constraints. **93b:90049**

Kannan, Rangachary *see* **Fix, George J., 93g:65085**

Karmarkar, Narendra Interior-point methods in optimization. (*see* **93b:00026**)

— *see also* **Kamath, A., 93b:90049**

Kiehl, M. (*with* von Stryk, O.) Real-time optimization of a hydroelectric power plant. (English and German summaries)

Kiselëv, Yu. N. (*with* Orlov, M. V.) Numerical algorithms for linear time-optimalities. (Russian) **93b:49035**

Kiwiel, Krzysztof A method of feasible directions for certain quasi-differentiable inequality constrained minimization problems. (Russian and Polish summaries) **93h:90086**

Kiyoi, Masahiro *see* **Yamamura, Kiyotaka; et al., 93h:90094**

Kleinmichel, H. (*with* Richter, Claus; Schönefeld, K.) On a class of hybrid methods for smooth constrained optimization. **93e:90058**

Kočvara, Michal An algebraic study of a local multigrid method for variational problems. (English summary) **93f:65083**

Konno, Hiroshi (*with* Yajima, Yasutoshi) Minimizing and maximizing the product of linear fractional functions. **93a:90068**

— (*with* Suzuki, Ken-ichi) A fast algorithm for solving large-scale mean-variance models by

compact factorization of covariance matrices. **93c:90014**
Křížek, Michal *see* **Hlaváček, Ivan, 93c:73029**
Kukhtin, V. V. *see* **Gergel', V. P.; et al., 93i:90005**
Kupfer, F.-S. (*with* Sachs, Ekkehard) Numerical solution of a nonlinear parabolic control problem by a reduced SQP method. (English summary) **93h:49052**
Lauritzen, Steffen L. *see* **Jensen, Søren Tolver; et al., 93c:62040**
Le Brizaut, Jean-Sébastien *see* **Burger, Jacques; et al., 93i:49036**
Leclerc, Anthony *see* **Moore, R. E.; et al., 93c:90080**
Lee, Chang-Yeong *see* **Ainsworth, Mark; et al., 93m:49015**
Lee, Cho Seng *see* **Rehbock, V.; et al., 93d:49040**
Lee, E. Stanley Iterative computation in dynamic optimization. (*see* **93a:41001**)
Lei, Jin Gan (*with* Liu, Chun Lei; Ren, Yi Qiang) Finite-dimensional approximation and its computation for bifurcation problems for variational inequalities. (English summary) **93h:65082**
Le Tallec, Patrick *see* **Cowsar, Lawrence C.; et al., 93j:65200**
Li, Chin Hsien *see* **Cowsar, Lawrence C.; et al., 93j:65200**
Li, Xing Si (*with* Templeman, A. B.) An informational entropy approach to optimization. **93c:90052**
Li, Yuying *see* **Coleman, Thomas F., 93d:65050**
Liem, Chin Bo *see* **Lü, Tao; et al., 93b:49010**
Lin, Cantian *see* **Gregory, John[1]; et al., 93b:49036**
Lin, You Lian *see* **Han, Li Xing; et al., 93h:90084**
Liu, Chun Lei *see* **Lei, Jin Gan; et al., 93h:65082**
Liu, Han Bing (*with* Chen, Su Huan) Shape design-sensitivity analysis for structural dynamic character using BEM. (*see* **93b:65008**)
Lu, Shi Hui *see* **Hansen, Pierre; et al., 93j:90098**
Lü, Tao (*with* Liem, Chin Bo; Shih, Tsi Min) Parallel algorithms for variational inequalities based on domain decomposition. **93b:49010**
Luo, Zhi-Quan (*with* Tseng, Paul) On the linear convergence of descent methods for convex essentially smooth minimization. **93a:90064**
Luty, Brock A. (*with* Davis, Malcolm E.; McCammon, J. Andrew) Solving the finite-difference nonlinear Poisson-Boltzmann equation. (English summary) **93g:65109**
Madsen, Kaj (*with* Nielsen, Hans Bruun) A finite smoothing algorithm for linear l_1 estimation. (English summary)
Mäkinen, R. A. E. (*with* Neittaanmäki, Pekka; Tiba, D.) On a fixed domain approach for a shape optimization problem. (English summary) (*see* **93j:00008**)
Mangasarian, O. L. Global error bounds for monotone affine variational inequality problems. (English summary) **93f:49013**
— *see also* **Ferris, Michael C., 93c:90058**
Martinec, Zdeněk *see* **Čadek, Ondřej; et al., 93f:76002**
Mathlouthi, Salem *see* **Ekeland, Ivar, 93k:58090**
Matyska, Ctirad *see* **Čadek, Ondřej; et al., 93f:76002**
McCammon, J. Andrew *see* **Luty, Brock A.; et al., 93g:65109**
McLean, William Variational properties of some simple boundary integral equations. **93a:45001**
Miettinen, M. (*with* Haslinger, Jaroslav) Approximation of optimal control problems of hemivariational inequalities. **93i:49014**
Moore, R. E. (*with* Hansen, Eldon; Leclerc, Anthony) Rigorous methods for global optimization. **93c:90080**
Mouallif, Khalil (*with* Nguyen, Van Hien; Strodiot, Jean-Jacques) A perturbed parallel decomposition method for a class of nonsmooth convex minimization problems. **93b:90066**
Muselli, Marco (*with* Ridella, Sandro) Global optimization of functions with the interval genetic algorithm. **93f:90155**
Musmanno, R. *see* **Conforti, D.; et al., (93j:00007)**
Neittaanmäki, Pekka *see* **Mäkinen, R. A. E.; et al., (93j:00008)**
Nguyen, T. T. *see* **Bartholomew-Biggs, M. C., 93b:90080**
Nguyen, Van Hien *see* **Mouallif, Khalil; et al., 93b:90066**
Nguyen Van Thoai *see* **Horst, Reiner, 93h:90085**
Nielsen, Hans Bruun *see* **Madsen, Kaj**
Nocedal, Jorge Theory of algorithms for unconstrained optimization. **93b:90087**
Noor, Muhammad Aslam General algorithm for variational inequalities. **93e:49017**
— Iterative methods and sensitivity analysis for general quasi variational inequalities. (English summary) **93i:49015**
Nurnazarov, D. *see* **Danilin, Yu. M., 93c:90077**
Oden, J. Tinsley *see* **Ainsworth, Mark; et al., 93m:49015**
Oliveira, P. R. *see* **Scheimberg, S., 93f:90156**
Orlov, M. V. *see* **Kiselëv, Yu. N., 93b:49035**
Ospanov, S. S. (*with* Bekturov, A. Sh.) An algorithm of the discrete step method for solving the optimization 0-1 knapsack problem. (Russian) **93c:90045**
Palocsay, Susan W. *see* **Falk, James E., 93a:90067**
Pan, Ping Qi New ODE methods for equality constrained optimization. I. Equations. **93c:90081**
— New ODE methods for equality constrained optimization. II. Algorithms. **93c:90082**
Pang, Jong-Shi Iterative descent algorithms for a row sufficient linear complementarity problem. **93a:90071**
— *see also* **Han, Shih-Ping; et al., 93m:65070**
Panier, Eliane R. *see* **Bonnans, Joseph Frédéric; et al., 93i:90087**
Parshin, O. V. *see* **Stoyan, Yu. G.; et al., 93b:90075**
Perevozchikov, A. G. Convergence of Clarke's generalized gradient method in problems of minimization of Lipschitz functions. (Russian) **93j:90101**
— (*with* Chistyakova, E. V.) Study of the practical convergence of a global optimization algorithm. (Russian. Russian summary)
— *see also* **Zavriev, S. K., 93j:90104**
Périaux, Jacques *see* **Atamian, C.; et al., 93c:76066** *and* **Cowsar, Lawrence C.; et al., 93j:65200**
Pintér, János Convergence qualification of adaptive partition algorithms in global optimization. (English summary) **93h:90091**
Pogu, Marc *see* **Burger, Jacques; et al., 93i:49036**
Poppe, Harry *see* **Flemmig, U., 93e:49045**
Qiu, Ji Bao Variation of square error functional and application of the discrete least square method with Gauss collocation. **93a:65162**
Raghu, Poornima *see* **Rosen, I. G., 93e:35117**
Rangaraj, Narayan *see* **Han, Shih-Ping; et al., 93m:65070**
Rapoport, É. Ya. Chebyshev approximations in problems of parametric optimization of control processes. I. Necessary conditions for optimality and computational algorithms. (Russian. Russian summary) **93f:49024**
— Chebyshev approximations in problems of parametric optimization of control processes. II. Alternance properties of optimal solutions. (Russian. Russian summary) **93f:49025**
— Chebyshev approximations in problems of parametric optimization of control processes. III. Optimal control problems. (Russian. Russian summary) **93f:49026**
Ratz, Dietmar An inclusion algorithm for global optimization in a portable PASCAL-XSC implementation. (English summary) (*see* **93i:65006**)
Rehbock, V. (*with* Teo, Kok Lay; Jennings, L. S.; Lee, Cho Seng) An exact penalty function approach to all-time-step constrained discrete-time optimal control problems. **93d:49040**
Ren, Yi Qiang *see* **Lei, Jin Gan; et al., 93h:65082**
Richter, Claus *see* **Kleinmichel, H.; et al., 93e:90058**
Ridella, Sandro *see* **Muselli, Marco, 93f:90155**
Rogatneva, E. A. *see* **Gergel', V. P.; et al., 93i:90005**
Rosen, I. G. (*with* Raghu, Poornima) Approximation in the identification of degenerate distributed parameter systems: generalized Galerkin schemes and nonconforming elements. **93e:35117**
Rothblum, Uriel G. (*with* Zenios, Stavros A.) Scalings of matrices satisfying line-product constraints and generalizations. (English summary) **93k:15048**
— *see also* **Barnes, E. R.; et al., 93d:05014**
Saad, Youcef *see* **Brown, Peter N., 93g:65082**
Sachs, Ekkehard *see* **Kupfer, F.-S., 93h:49052**
Sakalauskas, L. L. On the convergence of a centering procedure. (Russian. English and Lithuanian summaries) **93b:65010**
Santarelli, Paolo *see* **Hagen, Hans, (93c:65026)**
Scarpini, F. The alternating Schwarz method applied to some biharmonic variational inequalities. **93c:65144**
Scheiber, E. On the convergence of the Y. Sakawa and Y. Shindo algorithm for optimal control. (Romanian summary) **93e:49046**
— A numerical solution of optimal control problems based on the linearization method. (Romanian summary)
Scheimberg, S. (*with* Oliveira, P. R.) Descent algorithm for a class of convex nondifferentiable functions. **93f:90156**
Schlick, Tamar Modified Cholesky factorizations for sparse preconditioners. (English summary) **93k:65039**
Schönefeld, K. *see* **Kleinmichel, H.; et al., 93e:90058**
Seider, Warren D. *see* **Sun, Amy C., 93f:90159**
Sen, Suvrajeet *see* **Higle, Julia L., 93b:90054**
Sergeev, Ya. D. *see* **Strongin, R. G., 93i:65134**
Shen, Shu Min (*with* Deng, Qing Ping) Finite element method for the minimal surface problem with obstacle. (Chinese summary) **93j:65186**
Sheng, Song Bai *see* **Xu, Hui Fu, 93a:90065**
Sheu, Shuenn Jyi *see* **Huang, Ch'i Jui, 93f:60101**
Shi, Bao Chang (*with* Zhou, Xiao Yang) Two classes of supermemory feasible direction methods for solving nonlinear constrained problems. (Chinese. English summary) **93b:90090**
Shi, Guang Yan Minimizing a concave function with a reverse convex constraint. (Chinese. English summary) **93b:90067**
Shih, Tsi Min *see* **Lü, Tao; et al., 93b:49010**
Smith, Robert L. *see* **Zabinsky, Zelda B., 93b:90092**
Soldatenko, G. V. ★ Последовательный метод решения экстремальных комбинаторных задач. (Russian. Russian summary) [A sequential method for solving extremal combinatorial problems] **93g:90001**
Soravia, Pierpaolo *see* **Bardi, Martino, 93h:90124**
Staib, Tilo *see* **Dobrowolski, Manfred, 93j:65176**
Stark, Scott Stochastic global optimization applied to reaction network parameter estimation. (English summary) (*see* **93g:65178**)
Stewart, David E. A numerical algorithm for optimal control problems with switching costs. (English summary) **93h:49053**
Stoyan, Yu. G. (*with* Yakovlev, S. V.; Parshin, O. V.) Quadratic optimization on combinatorial sets in R^n. (Russian. English and Ukrainian summaries) **93b:90075**
Strodiot, Jean-Jacques *see* **Mouallif, Khalil; et al., 93b:90066**
Strongin, R. G. (*with* Sergeev, Ya. D.) Global multidimensional optimization on parallel computer. (English summary) **93i:65134**
— *see also* **Gergel', V. P.; et al., 93i:90005**
von Stryk, O. *see* **Kiehl, M.**
Sun, Amy C. (*with* Seider, Warren D.) Homotopy-continuation algorithm for global optimization. **93f:90159**
Sun, Jia Yang Some practical aspects of exploratory projection pursuit. (English summary) **93m:65009**
Suzuki, Ken-ichi *see* **Konno, Hiroshi, 93c:90014**
Takahashi, Toshihiko *see* **Yabe, Hiroshi, 93a:90051**
Tan, Choon Peng (*with* Gooi, Kee Mein) Minimization of the scaled tau-infinity coefficient over a convex cone in the positive orthant. (English summary) **93e:90059**
Templeman, A. B. *see* **Li, Xing Si, 93c:90052**
Teo, Kok Lay *see* **Rehbock, V.; et al., 93d:49040**
Tiba, D. *see* **Mäkinen, R. A. E.; et al., (93j:00008)**
Tits, André L. *see* **Bonnans, Joseph Frédéric; et al., 93i:90087**
Toint, Ph. L. *see* **Conn, Andrew R.; et al.** *and* **(93b:65005)**
Tortorelli, V. M. *see* **Ambrosio, Luigi, 93e:49010**
Tsai, Jyun-Hwei *see* **Wu, Chwan-Hwa, (93g:65178)**
Tseng, Paul *see* **Luo, Zhi-Quan, 93a:90064**
Tyatyushkin, A. I. ★ Численные методы и программные средства оптимизации управляемых систем. (Russian. Russian summary) [Numerical methods and program means for optimization of control systems] **93i:49003**

Vannelli, Anthony A parallel implementation of an interior point method for linear programming. (English summary) (*see* **93g:65178**)
Vasil'ev, F. P. An estimate for the rate of convergence of regularization methods for unstable minimization problems. (Russian. Russian summary) **93m:90082**
Vavasis, Stephen A. Black-box complexity of local minimization. (English summary) **93m:90103**
Venetsanopoulos, Anastasios N. *see* **Zervakis, M. E.**
Venkatasubramanian, R. *see* **Gewali, Laxmi P., 93k:90107**
Vysotskaya, I. N. *see* **Gergel', V. P.; et al., 93i:90005**
Wang, Jia Song *see* **Chen, Zhong Wen, 93b:65070**
Wang, Yuan[1] *see* **Fang, Kai Tai, 93e:90045**
Watson, G. A. Computing the structured singular value. (English summary) **93e:65069**
— Algorithms for minimum trace factor analysis. (English summary) **93h:90075**
Wei, Zeng Xin A new global convergence algorithm for nonlinear constrained optimization problems. (Chinese. English summary) **93e:90060**
Wheeler, Mary Fanett *see* **Cowsar, Lawrence C.; et al., 93j:65200**
Wright, Alden H. Genetic algorithms for real parameter optimization. **93g:90070**
Wright, Margaret H. Interior methods for constrained optimization. **93d:90037**
Wright, Stephen Joseph An interior-point algorithm for linearly constrained optimization. **93f:90163**
Wu, Chwan-Hwa (*with* Tsai, Jyun-Hwei) An asynchronous relaxation method for the parallel simulation of the learning of recurrent neural networks. (English summary) (*see* **93g:65178**)
Xi, Shao Lin *see* **Han, Li Xing; et al., 93h:90084**
Xie, Dong Xiu *see* **Zhang, Lei[1], 93c:65045**
Xiu, Nai Hua An optimal variable metric equation model and its solution. (Chinese)
Xu, Hui Fu (*with* Sheng, Song Bai) Broyden family of collinear scaling algorithm for unconstrained optimization. (Chinese summary) **93a:90065**
Xu, Shou Ze *see* **Ding, Hua[2]; et al., (93d:73004)**
Yabe, Hiroshi (*with* Takahashi, Toshihiko) Numerical comparison among structured quasi-Newton methods for nonlinear least squares problems. **93a:90051**
Yajima, Yasutoshi *see* **Konno, Hiroshi, 93a:90068**
Yakimenko, I. L. Difference approximation and regularization of an optimal control problem taking into account hysteresis. (Russian. Russian summary) (*see* **93g:00024**)
Yakovlev, S. V. (*with* Dyubko, A. G.) Approximate approach to the solution of minimax problems on vertices of a permutation polyhedron. (Russian) **93c:90043**
— *see also* **Stoyan, Yu. G.; et al., 93b:90075**
Yamamura, Kiyotaka (*with* Arai, Kaori; Kiyoi, Masahiro) A piecewise-linear homotopy method for nonlinear programming. **93h:90094**
Yao, Zhen Han *see* **Huo, Tong Ru; et al., (93b:65008)**
Ye, Xian Jian Subgradient projection algorithms for constrained nonsmooth optimization. III. Another algorithm for nonlinear constraints. (Chinese. English summary)
Zabinsky, Zelda B. (*with* Smith, Robert L.) Pure adaptive search in global optimization. **93b:90092**
Zavriev, S. K. (*with* Perevozchikov, A. G.) The combined method of stochastic quasigradients and penalty functions for solving minimax problems with connected variables. (Russian. English and Ukrainian summaries) **93j:90104**
Zeman, Marvin *see* **Gregory, John[1]; et al., 93b:49036**
Zeng, Jin Ping The convergence of multigrid methods for nonsymmetric elliptic variational inequalities. (English summary)
Zenios, Stavros A. *see* **Rothblum, Uriel G., 93k:15048**
Zervakis, M. E. (*with* Venetsanopoulos, Anastasios N.) Design of a new restoration algorithm based on the constrained mean-square-error criterion. (English summary)
Zhadan, V. G. *see* **Evtushenko, Yu. G., 93a:90061**
Zhang, Lei[1] (*with* Xie, Dong Xiu) The least-square problem for rotation of subspaces. (Chinese. English summary) **93c:65045**
Zhang, Ru Qing (*with* Gao, Hang Shan) The random variational principle and finite element method. (Chinese. English and Chinese summaries) **93f:73107**
Zheng, Zhe Min *see* **Ding, Hua[2]; et al., (93d:73004)**
Zhiglyavskii, A. A. ★ Theory of global random search. **93i:90004**
Zhong, Wan Xie (*with* Zhong, Xiang Xiang) Elliptic partial differential equation and optimal control. **93f:65078**
Zhong, Xiang Xiang *see* **Zhong, Wan Xie, 93f:65078**
Zhou, Jian L. *see* **Bonnans, Joseph Frédéric; et al., 93i:90087**
Zhou, Shu Zi (*with* Feng, Gang) The convergence of nonconforming elements for variational inequalities. (English and Chinese summaries) **93i:49017**
Zhou, Xiao Yang *see* **Shi, Bao Chang, 93b:90090**
Zhu, Ji Shan A path following algorithm for a class of convex programming problems. (English summary) **93h:90095**
Zhu, Ming Quan A new simplex method. (English summary) **93j:90058**
Zhuzhunashvili, A. Sh. A cyclic iterative Chebyshev method for unconstrained minimization of functions. **93c:90087**
Żochowski, A. Domain sensitivity for singular elliptic problems: harmonic transformation approach. **93c:49029**
Zuo, Zhao Qin Two new techniques for optimal control. **93d:49038**

65K99 None of the above, but in this section

Bunch, K. J. (*with* Grow, R. W.) A compact cubic spline algorithm for converging to function minimums. (English summary)
Doerschuk, Peter C. *see* **Gelfand, Saul B.; et al., (93m:00047)**
Gelfand, Saul B. (*with* Doerschuk, Peter C.; Nahhas-Mohandes, Mohamed) Simulated annealing algorithms for continuous optimization. (English summary) (*see* **93m:00047**)
Grow, R. W. *see* **Bunch, K. J.**
Kussul', N. N. Solution of a difference system of linear equations and inequalities using fuzzy ellipsoidal estimates. (Russian. Russian summary)
Medvedev, V. G. A numerical experiment on the solution of linear semi-infinite extremal problems. (Russian. Russian summary)
Nahhas-Mohandes, Mohamed *see* **Gelfand, Saul B.; et al., (93m:00047)**

Items with secondary classifications in 65K99

Akulinin, O. B. A priori estimation of the boundaries of a domain for the search for the minimum of a functional. (Russian) (*see* **93m:00033**)
Arun-Kumar, S. (*with* Chockalingam, T.) Genetic search algorithms and their randomized operators. (English summary) **93h:68034**
Baranov, V. L. Modeling differential games on computational structures. (Russian. Russian summary) **93m:90121**
Berryman, James G. Global extrema in traveltime tomography. (English summary) **93m:86004**
Chockalingam, T. *see* **Arun-Kumar, S., 93h:68034**
De Pierro, Alvaro R. *see* **Iusem, Alfredo N., 93j:65059**
Elsanousi, S. A. *see* **Noor, Muhammad Aslam, 93k:49008**
Fisher, Michael Ernest (*with* Jennings, L. S.) Discrete-time optimal control problems with general constraints. (English summary)
Gross, Beate Verification of asymptotic stability for interval matrices and applications in control theory. (English summary) **93k:93083**
Iusem, Alfredo N. (*with* De Pierro, Alvaro R.) A characterization of the set of fixed points of some smoothed operators. (English summary) **93j:65059**
Jacobson, C. A. (*with* Nett, C. N.; Partington, Jonathan R.) Worst case system identification in l_1: optimal algorithms and error bounds. (English summary) **93j:93037**
Jennings, L. S. *see* **Fisher, Michael Ernest**
Jiang, Zeng Rong *see* **Li, Xiao Mei, 93k:65116**
Kozlov, A. A. *see* **Zhokhov, N. L.; et al., 93e:47101**
Li, Xiao Mei (*with* Jiang, Zeng Rong) ★ Bingxing suanfa. (Chinese. English and Chinese summaries) [Parallel algorithms] **93k:65116**
Liu, Bao Yong *see* **Wu, Zhong Qi**
Nakonechnyi, A. N. Extremal problems with rare events. II. The method of successive random approximations. (Russian. English and Ukrainian summaries) **93g:49021**
Nett, C. N. *see* **Jacobson, C. A.; et al., 93j:93037**
Noor, Muhammad Aslam (*with* Elsanousi, S. A.) Iterative algorithms for random variational inequalities. (English summary) **93k:49008**
— Wiener-Hopf equations and complementarity problems. (English summary) **93k:49009**
Partington, Jonathan R. *see* **Jacobson, C. A.; et al., 93j:93037**
Poljak, Svatopluk (*with* Turzík, Daniel) Max-cut in circulant graphs. (English summary) **93k:05101**
Pyt'ev, Yu. P. On the theory of measuring-computing systems of minimax type. (Russian) **93e:47102**
— *see also* **Zhokhov, N. L.; et al., 93e:47101**
Song, X. Y. Channel routing in a diagonal overlap model. (English summary) **93m:68089**
Turzík, Daniel *see* **Poljak, Svatopluk, 93k:05101**
Wu, Zhong Qi (*with* Liu, Bao Yong) Using the optimization convex hull method to find intersections of B-spline curves. (Chinese. English summary)
Zhokhov, N. L. (*with* Kozlov, A. A.; Pyt'ev, Yu. P.) Limit capabilities of second-order parametric measurement transformers with lumped parameters. (Russian. English summary) **93e:47101**

65Lxx Ordinary differential equations

März, Roswitha Numerical methods for differential algebraic equations. **93e:65096**

Items with secondary classifications in 65Lxx

(Bellen, Alfredo) *see* **Parallel methods for ordinary differential equations, 93f:65008**
(Broomhead, D. S.) *see* **Dynamics of numerics and the numerics of dynamics, 93b:65004**
(Elliott, Charles M.) *see* **Conference: Dynamics of Numerics and Numerics of Dynamics, 93d:65002**
Fedorenko, R. P. Stiff systems of ordinary differential equations and their numerical integration. (Russian) **93c:65001**
Feng, Kang Formal power series and numerical algorithms for dynamical systems. (English summary) **93f:58207**
(Griepentrog, E.) *see* **Seminar: Differential-Algebraic Equations, 93i:34007**
(Hanke, Michael) *see* **Seminar: Differential-Algebraic Equations, 93i:34007**
(Iserles, Arieh) *see* **Dynamics of numerics and the numerics of dynamics, 93b:65004** *and* **Conference: Dynamics of Numerics and Numerics of Dynamics, 93d:65002**
Karchevskii, M. M. (*with* Lyashko, A. D.; Pavlova, M. F.) ★ Методы вычислений: численные методы решения дифференциальных уравнений. (Russian) [Computational methods: numerical methods for solving differential equations] **93a:65001**
Kreiss, Heinz-Otto Problems with different time scales. **93e:65111**
Lyashko, A. D. *see* **Karchevskii, M. M.; et al., 93a:65001**
MacKay, Robert S. Some aspects of the dynamics and numerics of Hamiltonian systems. **93d:58057**
(Marek, Ivo) *see* **Proceedings: Symposium on Numerical Analysis, 93b:65007**
(März, Roswitha) *see* **Seminar: Differential-Algebraic Equations, 93i:34007**
(Mitchell, Andrew Ronald) *see* **Conference: Dynamics of Numerics and Numerics of Dynamics, 93d:65002**
Pavlova, M. F. *see* **Karchevskii, M. M.; et al., 93a:65001**
Sanz-Serna, J. M. Numerical ordinary differential equations vs. dynamical systems. **93e:34067**
(Spence, A.) *see* **Conference: Dynamics of Numerics and Numerics of Dynamics, 93d:65002**
(Zennaro, Marino) *see* **Parallel methods for ordinary differential equations, 93f:65008**

Items listed otherwise than by author

Berlin ★ Berlin Seminar on Differential-Algebraic Equations. **93i:34007**
Bristol ★ The dynamics of numerics and the numerics of dynamics. **93b:65004**
— ★ IMA Conference on Dynamics of Numerics and Numerics of Dynamics. **93d:65002**
Conference:
Dynamics of Numerics and Numerics of Dynamics ★ The dynamics of numerics and the numerics of dynamics. **93b:65004**
— ★ IMA Conference on Dynamics of Numerics and Numerics of Dynamics. **93d:65002**

Conference: (*cont'd.*)
Parallel Methods for Ordinary Differential Equations: the State of the Art ★ Parallel methods for ordinary differential equations. **93f:65008**
Dynamics of numerics and the numerics of dynamics ★ The dynamics of numerics and the numerics of dynamics. **93b:65004**
Grado ★ Parallel methods for ordinary differential equations. **93f:65008**
Parallel methods for ordinary differential equations ★ Parallel methods for ordinary differential equations. **93f:65008**
Prague ★ Proceedings of the Second International Symposium on Numerical Analysis. **93b:65007**
Proceedings:
Symposium on Numerical Analysis ★ Proceedings of the Second International Symposium on Numerical Analysis. **93b:65007**
Seminar:
Differential-Algebraic Equations ★ Berlin Seminar on Differential-Algebraic Equations. **93i:34007**
Symposium:
Numerical Analysis ★ Proceedings of the Second International Symposium on Numerical Analysis. **93b:65007**

65L05 Initial value problems

Abou-Rabia, O. *see* **Birta, L. G.; et al., 93h:65088**
Adams, Ernst Wilhelm (*with* Ames, William F.; Kühn, W.; Rufeger, W.; Spreuer, H.) Computational chaos may be due to a single local error. (English summary) **93i:65067**
Addison, P. S. (*with* Chan, Andrew H. C.; Ervine, D. A.; Williams, K. J.) Observations on numerical method dependent solutions of a modified duffing oscillator. (English summary)
Aliabadi, M. Hosseini (*with* Ortiz, E. L.) On the numerical behaviour of different formulations of the tau method for the treatment of differential inclusions. (*see* **93b:65007**)
Ames, William F. *see* **Adams, Ernst Wilhelm; et al., 93i:65067**
Anistratov, D. Yu. (*with* Gol'din, V. Ya.) A two-stage scheme with complex coefficients for systems of first-order nonlinear ordinary differential equations. (Russian. English and Russian summaries) **93f:65053**
Ascher, Uri M. (*with* Petzold, Linda R.) Stability of computational methods for constrained dynamics systems. (English summary) **93i:65068**
Atanbaev, S. A. (*with* Baĭbatyrov, Zh. K.) A regularization method for an ill-posed Cauchy problem for an evolution equation. (Russian) **93b:65091**
Baĭbatyrov, Zh. K. *see* **Atanbaev, S. A., 93b:65091**
Birta, L. G. (*with* Yang, M.; Abou-Rabia, O.) An adaptive approach to stepsize control in ODE solvers. (English summary) **93h:65088**
Bobkov, V. V. (*with* Bobkova, N. A.) On the construction of methods for the numerical solution of stiff systems. (Russian. Russian summary) **93j:65100**
Bobkova, N. A. *see* **Bobkov, V. V., 93j:65100**
Bond, R. A. B. (*with* Mika, Janusz R.) The implicit Euler method and singular perturbation theory. (English summary) **93j:65101**
Booth, Andrew S. *see* **Coleman, John P., 93m:65087**
Burrage, Kevin Parallel methods for initial value problems. (English summary) **93i:65069**
— The search for the Holy Grail, or: Predictor-corrector methods for solving ODEIVPs. **93k:65059**
Butcher, J. C. (*with* Chan, R. P. K.) On symmetrizers for Gauss methods. **93c:65084**
— Diagonally-implicit multi-stage integration methods. (English summary) **93m:65084**
Calvo Pinilla, Manuel (*with* Montijano, J. I.; Rández, L.) On the change of step size in multistep codes. (English summary) **93m:65085**
Campbell, Stephen L. Least squares completions of nonlinear higher index Hessenberg DAEs. (English summary) **93m:65086**
Cao, Xue Nian *see* **Li, Shou Fo, 93e:65099**
Carroll, John Sufficient conditions for uniformly second-order convergent schemes for stiff initial value problems. (English summary) **93e:65097**
— A matricial exponentially fitted scheme for the numerical solution of stiff initial-value problems. (English summary)
Cash, J. R. (*with* Semnani, S.) A new approach to solving nonstiff initial value problems. (English summary)
Chan, Andrew H. C. *see* **Addison, P. S.; et al.**
Chan, R. P. K. *see* **Butcher, J. C., 93c:65084**
Chartier, P. (*with* Philippe, B.) *L*-stable parallel one-block methods for stiff ODEs. (*see* **93k:65003**)
Chen, Li Rong *see* **Li, Shou Fo, (93d:65004)**
Coleman, John P. (*with* Booth, Andrew S.) Analysis of a family of Chebyshev methods for $y'' = f(x, y)$. (English summary) **93m:65087**
Corless, Robert M. Defect-controlled numerical methods and shadowing for chaotic differential equations. (English summary) **93j:65102**
Corliss, George F. *see* **Kirlinger, G., (93i:65006)**
Costabile, C. (*with* Costabile, Francesco; Gualtieri, M. I.) Generalization of the methods of Nyström. (Italian. English summary) **93b:65092**
Costabile, Francesco *see* **Costabile, C.; et al., 93b:65092**
Delfour, Michel C. (*with* Ouansafi, A.) New noniterative approximations to the old Riccati differential equation. **93d:65065**
Dieci, Luca Numerical integration of the differential Riccati equation and some related issues. **93b:65093**
Dobronets, B. S. On some two-sided methods for solving systems of ordinary differential equations. (English and Russian summaries) **93f:65054**
Druskin, Vladimir (*with* Knizhnerman, L. A.) The Lanczos optimization of a splitting-up method to solve homogeneous evolutionary equations. (English summary) **93g:65089**
Dzyadyk, V. K. (*with* Vasilenko, Ya. F.) Application of the approximation-iterative method to the solution of stiff problems for ordinary differential equations. (Russian) **93b:65094**
El Tarazi, M. N. *see* **Karaballi, A. A., 93m:65091**
Ervine, D. A. *see* **Addison, P. S.; et al.**
Gasparo, M. G. (*with* Macconi, M.) Numerical solution of second-order nonlinear singularly perturbed boundary value problems by initial value methods. **93c:65085**
Gear, C. W. Massive parallelism across space in ODEs. (English summary) **93m:65088**
— (*with* Xu, Xu Hai) Parallelism across time in ODEs. (English summary) **93m:65089**
Gol'din, V. Ya. *see* **Anistratov, D. Yu., 93f:65053**
Grishchenko, A. Z. (*with* Khilenko, V. V.) Determination of the number of fast and slow motions in the decomposition of linear dynamical models of arbitrarily large dimension. (Russian. English and Ukrainian summaries) **93g:65090**
Gualtieri, M. I. *see* **Costabile, C.; et al., 93b:65092**
Győrvári, J. (*with* Mihálykó, Cs.) The numerical solution of nonlinear differential equations by spline functions. **93b:65095**
Hanson, James N. The computer generated symbolic approximations to systems of nonlinear ODEs by matrix annihilation and the Newton-Kantorovich method. **93b:65096**
He, Yi Liang *see* **Li, Lin Zhong, 93m:65093**
Higham, Desmond J. The tolerance proportionality of adaptive ODE solvers. (English summary) **93m:65090**
van der Houwen, P. J. Parallel step-by-step methods. (English summary) **93j:65103**
Iserles, Arieh (*with* Stuart, A. M.) Unified approach to spurious solutions introduced by time discretization. II. BDF-like methods. (English summary) **93i:65070**
Jankowski, Tadeusz A numerical solution of implicit ordinary differential equations. **93c:65086**
Jerofsky, Thomas (*with* Reitmann, Volker) Global convergence for solutions of pendulum-like differential equations. (English summary) **93h:65089**
Jódar, Lucas Rational approximate solutions and error bounds for the nonsymmetric Riccati matrix differential equation. **93b:65097**
Kalaĭda, A. F. Two-sided linear methods for the numerical solution of the Cauchy problem for normal equations. (Russian) **93b:65098**
Karaballi, A. A. (*with* El Tarazi, M. N.) Solving second order initial value problems by cubic splines. (English summary) **93m:65091**
Karasözen, Bülent *see* **Somalı, Şennur, 93m:65097**
Kastner-Maresch, Alois E. The implicit midpoint rule applied to discontinuous differential equations. (English and German summaries) **93h:65090**
Kerbl, Monika Stepsize control strategies for inclusion algorithms for ODEs. (English summary) **93h:65091**
Khapaev, Mikhail Mikhailovich *see* **Postnikova, N. V.; et al., 93j:65107**
Khilenko, V. V. *see* **Grishchenko, A. Z., 93g:65090**
Kirlinger, G. (*with* Corliss, George F.) On implicit Taylor series methods for stiff ODEs. (English summary) (*see* **93i:65006**)
Knizhnerman, L. A. *see* **Druskin, Vladimir, 93g:65089**
Kolev, Lubomir V. (*with* Nenov, I.) Approximate interval solution of an initial value problem for linear ODEs. (*see* **93e:00022**)
— (*with* Mladenov, V. M.) An interval method for determining all T-periodical solutions of nonlinear ODE systems. (*see* **93e:00022**)
Kounadis, A. N. An efficient and simple approximate technique for solving nonlinear initial and boundary value problems. (English summary) **93e:65098**
Kozakiewicz, Jan M. *see* **Mika, Janusz R., 93j:65106** *and* **93m:65095**
Kuang, Jiao Xun (*with* Lu, Lian Hua) On the conditions for the existence and uniqueness of solution to the nonlinear equations in multiderivative block methods. (Chinese summary) **93c:65087**
Kühn, W. *see* **Adams, Ernst Wilhelm; et al., 93i:65067**
Kulikov, G. Yu. A method for the numerical solution of the autonomous Cauchy problem with an algebraic restriction on the phase variables. (Russian. Russian summary) **93m:65092**
Kuznetsov, E. B. An algorithm for the integration of differential equations. (Russian) (*see* **93j:00004**)
Kwapisz, Marian On solving systems of differential algebraic equations. (English summary) **93j:65104**
Li, Ji Chun A class of uniformly convergent difference schemes for the problem of a turning point without resonance. (Chinese. English summary) **93j:65105**
Li, Lin Zhong (*with* He, Yi Liang) A_0-stability and $A(\alpha)$-stability of implicit linear 3-step methods of order 3. (Chinese. English summary) **93m:65093**
Li, Shou Fo (*with* Chen, Li Rong) Parallel algorithms of iterated defect correction methods. (English summary) (*see* **93d:65004**)
— (*with* Cao, Xue Nian) The BH-algebraic stability of general multivalue methods. (Chinese. English summary) **93e:65099**
Liu, Gang Block implicit mixed one-step methods with higher-order derivatives. (Chinese. Chinese summary) **93k:65060**
Lopez, Luciano (*with* Trigiante, D.) Boundary value methods and BV-stability in the solution of initial value problems. (English summary) **93i:65071**
Lu, Lian Hua *see* **Kuang, Jiao Xun, 93c:65087**
Lubich, Ch. Chebyshev acceleration of Picard-Lindelöf iteration. **93h:65092**
Macconi, M. *see* **Gasparo, M. G., 93c:65085**
Martinenko, Marīya D. (*with* Martynenko, Mikhaĭlo D.) On a modified method of equivalent linearization for first-order ordinary nonlinear differential equations. (Ukrainian. Russian summary)
— (*with* Martynenko, Mikhaĭlo D.) Equivalent linearization for the Liénard equations. (Ukrainian. Russian summary)
— (*with* Martynenko, Mikhaĭlo D.) An approximate method for solving the nonlinear Cauchy problem for a second-order equation. (Ukrainian)
Martynenko, Mikhaĭlo D. *see* **Martinenko, Marīya D.**
Mattsson, Sven Erik (*with* Söderlind, Gustaf) Index reduction in differential-algebraic equations using dummy derivatives. (English summary) **93m:65094**
Mickens, Ronald E. Finite-difference schemes having the correct linear stability properties for all finite step-sizes. II. (English summary)
Miesbach, S. (*with* Pesch, H. J.) Symplectic phase flow approximation for the numerical integration of canonical systems. **93f:65055**
Mihálykó, Cs. *see* **Győrvári, J., 93b:65095**
Mika, Janusz R. (*with* Kozakiewicz, Jan M.) Stiff systems of second-order ordinary differential equations. (English summary) **93j:65106**
— (*with* Kozakiewicz, Jan M.) First-order asymptotic expansion method for singularly

perturbed systems of second-order ordinary differential equations. (English summary) **93m:65095**

— *see also* **Bond, R. A. B., 93j:65101**

Mladenov, V. M. *see* **Kolev, Lubomir V., (93e:00022)**

Montijano, J. I. *see* **Calvo Pinilla, Manuel; et al., 93m:65085**

Muckbil, A. S. On constructing spline approximations for solving Cauchy problem. II. (English summary) (*see* **93j:00007**)

Namasivayam, S. (*with* Ortiz, E. L.) Error analysis of the tau method: dependence of the approximation error on the choice of perturbation term. (English summary) **93k:65061**

Nenov, I. *see* **Kolev, Lubomir V., (93e:00022)**

de Oliveira, Paula (*with* Patrício, Fernanda) On fitting stability regions of second-derivative multi-step methods. (English summary) **93i:65072**

Orel, Bojan Numerical solution of differential equations. I. Euler's method. (Slovenian. English and Slovenian summaries) **93g:65091**

Ortiz, E. L. *see* **Namasivayam, S., 93k:65061** *and* **Aliabadi, M. Hosseini, (93b:65007)**

Ouansafi, A. *see* **Delfour, Michel C., 93d:65065**

Ozawa, Kazufumi Backward differentiation formulae with nonnegative coefficients for solving initial value problems. (English summary) **93h:65093**

Patrício, Fernanda *see* **de Oliveira, Paula, 93i:65072**

Pelekh, Ya. N. An approach to the determination of approximate solutions of the Cauchy problem for nonlinear differential equations. (Ukrainian. Russian and Ukrainian summaries) **93m:65096**

Pesch, H. J. *see* **Miesbach, S., 93f:65055**

Petzold, Linda R. (*with* Potra, Florian A.) ODAE methods for the numerical solution of Euler-Lagrange equations. (English summary) **93h:65094**

— *see also* **Ascher, Uri M., 93i:65068**

Philippe, B. *see* **Chartier, P., (93k:65003)**

Postnikova, N. V. (*with* Razumovskiĭ, S. N.; Khapaev, Mikhail Mikhailovich) Problems of controlling the accuracy of processes of integrating differential equations while obtaining analytical results. (Russian. Russian summary) **93j:65107**

Potra, Florian A. *see* **Petzold, Linda R., 93h:65094**

Rández, L. *see* **Calvo Pinilla, Manuel; et al., 93m:65085**

Razumovskiĭ, S. N. *see* **Postnikova, N. V.; et al., 93j:65107**

Reitmann, Volker *see* **Jerofsky, Thomas, 93h:65089**

Rihm, Robert Enclosing solutions with switching points in ordinary differential equations. (English summary) (*see* **93i:65006**)

Rizk, M. M. Approximate solution of systems of ordinary differential equations by means of the approximation-iteration method in a complex domain. (Russian. Russian summary) **93h:65095**

Rufeger, W. *see* **Adams, Ernst Wilhelm; et al., 93i:65067**

Sand, Jørgen (*with* Skelboe, Stig) Stability of backward Euler multirate methods and convergence of waveform relaxation. **93c:65088**

Sarma, P. A. Families of third, fourth & fifth order extended Nyström methods for $Y''' = f(x, y)$.

Semnani, S. *see* **Cash, J. R.**

Shinkarenko, G. A. On a modification of Newmark's scheme. (Ukrainian)

Shintani, Hisayoshi Embedded singly diagonally implicit one-step methods with interpolants. (English summary) **93i:65073**

Shirkov, P. D. Optimally damping schemes with complex coefficients for stiff systems of ordinary differential equations. (Russian. English and Russian summaries) **93j:65108**

Sideridis, A. B. *see* **Simos, T. E.**

Simos, T. E. (*with* Sideridis, A. B.) Accurate numerical approximations to initial value problems with periodical solutions. (English and German summaries)

Skelboe, Stig *see* **Sand, Jørgen, 93c:65088**

Söderlind, Gustaf *see* **Mattsson, Sven Erik, 93m:65094**

Somalı, Şennur (*with* Karasözen, Bülent) Iterated defect correction methods for differential-algebraic equations. (English and Turkish summaries) **93m:65097**

Spreuer, H. *see* **Adams, Ernst Wilhelm; et al., 93i:65067**

Stoffer, Daniel General linear methods: connection to one step methods and invariant curves. (English summary) **93m:65098**

Stuart, A. M. *see* **Iserles, Arieh, 93i:65070**

Suleiman, Mohamed Bin Some necessary conditions for convergence of the GBDF methods. (English summary) **93h:65096**

Sun, Yong On a new approach of monotone iterative technique. **93b:65099**

Tam, H.-W. One-stage parallel methods for the numerical solution of ordinary differential equations. (English summary) **93e:65100**

— Two-stage parallel methods for the numerical solution of ordinary differential equations. (English summary) **93e:65101**

Tao, Qing Sheng Direct numerical integration of structural dynamic equations using higher order Padé approximations. (*see* **93a:41001**)

Torelli, L. (*with* Vermiglio, R.) On the stability of continuous quadrature rules for differential equations with several constant delays. (English summary) **93m:65099**

Trigiante, D. *see* **Lopez, Luciano, 93i:65071**

Vasilenko, Ya. F. *see* **Dzyadyk, V. K., 93b:65094**

Vermiglio, R. *see* **Torelli, L., 93m:65099**

Williams, K. J. *see* **Addison, P. S.; et al.**

Xu, Xu Hai *see* **Gear, C. W., 93m:65089**

Yang, M. *see* **Birta, L. G.; et al., 93h:65088**

Zhao, Shuang Suo On the highest orders of k-point block θ-methods. (Chinese. English summary)

Zin'ko, P. N. Modification of algorithms for solving the Cauchy problem. (Russian. Russian summary)

Items with secondary classifications in 65L05

Adams, Ernst Wilhelm *see* **Rufeger, W., 93h:65183**

Alonso Mallo, I. (*with* Palencia de Lara, C.) One-step methods for initial and boundary value problems. (Spanish. English summary) (*see* **93j:00009**)

Atela, Pau *see* **McLachlan, Robert I., 93d:70030**

Auzinger, W. (*with* Frank, Reinhard M.; Kirlinger, G.) Modern convergence theory for stiff initial value problems. (English summary) **93j:65124**

Bauch, Hartmut Self-validating algorithms and imprecise data structures for ordinary initial value and boundary value problems. (*see* **93i:00021**)

Chu, Moody T. Matrix differential equations: a continuous realization process for linear algebra problems. **93g:65079**

Corless, Robert M. (*with* Corliss, George F.) Rationale for guaranteed ODE defect control. (English summary) **93j:65127**

Corliss, George F. *see* **Corless, Robert M., 93j:65127**

Dontchev, Asen L. (*with* Lempio, Frank) Difference methods for differential inclusions: a survey. **93g:34024**

Frank, Reinhard M. *see* **Auzinger, W.; et al., 93j:65124**

Jódar, Lucas *see* **Rubio Navarro, Gregorio, 93a:34009**

Kampowsky, Wilfried (*with* Rentrop, Peter; Schmidt, Walter) Classification and numerical simulation of electric circuits. (English summary) **93h:94038**

Kirlinger, G. *see* **Auzinger, W.; et al., 93j:65124**

Knorrenschild, Michael Differential/algebraic equations as stiff ordinary differential equations. (English summary) **93k:65063**

Kobayashi, Yasuhiro[1] *see* **Ohkita, Masaaki; et al., (93j:00008)**

Korytova, M. A. (*with* Rumyantsev, A. N.) Some algorithms for the constructive investigation of linear boundary value problems with inequalities. (Russian. Russian summary) (*see* **93m:00017**)

Lempio, Frank *see* **Dontchev, Asen L., 93g:34024**

Li, Shou Fo Nonlinear stability of general linear methods. **93d:34021**

Linz, Peter (*with* Wang, Richard L. C.) Error bounds for the solution of Volterra and delay equations. **93a:65079**

Ma, Fu Ming On invariant closed curves of one-step methods and closed orbit for ordinary differential equations. **93b:34023**

McLachlan, Robert I. (*with* Atela, Pau) The accuracy of symplectic integrators. **93d:70030**

Miekkala, Ulla (*with* Nevanlinna, Olavi) Quasinilpotency of the operators in Picard-Lindelöf iteration. **93d:65039**

Milošević, Radivoje On the approximation values of an implicitly given function. (English and Serbo-Croatian summaries) **93i:65027**

Miyata, Hitoshi *see* **Ohkita, Masaaki; et al., (93j:00008)**

Nevanlinna, Olavi *see* **Miekkala, Ulla, 93d:65039**

Ohkita, Masaaki (*with* Miyata, Hitoshi; Kobayashi, Yasuhiro[1]) Piecewise-linear approximation of solutions of delay-differential systems by Walsh functions. (English summary) (*see* **93j:00008**)

Palencia de Lara, C. *see* **Alonso Mallo, I., (93j:00009)**

Pan, Ping Qi New ODE methods for equality constrained optimization. I. Equations. **93c:90081**

— New ODE methods for equality constrained optimization. II. Algorithms. **93c:90082**

Price, W. G. *see* **Wang, Yigong; et al., 93i:92017**

Rentrop, Peter *see* **Kampowsky, Wilfried; et al., 93h:94038**

Rubio Navarro, Gregorio (*with* Jódar, Lucas) Approximate solutions and error bounds for second order operator differential equations. **93a:34009**

Rufeger, W. (*with* Adams, Ernst Wilhelm) A step size control for Lohner's enclosure algorithm for ordinary differential equations with initial conditions. (English summary) **93h:65183**

Rumyantsev, A. N. *see* **Korytova, M. A., (93m:00017)**

Schmidt, Walter *see* **Kampowsky, Wilfried; et al., 93h:94038**

Schneider, Klaus R. Existence and approximation results to the Cauchy problem for a class of differential-algebraic equations. **93a:34018**

Twizell, E. H. *see* **Wang, Yigong; et al., 93i:92017**

Vabishchevich, P. N. Difference schemes for problems with a quadratic nonlinearity. (Russian. Russian summary) **93g:65087**

Walker, Philip W. Initial conditions for integrable-square solutions to singular differential equations. **93a:34034**

Wang, Richard L. C. *see* **Linz, Peter, 93a:65079**

Wang, Yigong (*with* Twizell, E. H.; Price, W. G.) Second-order, numerical methods for the solution of equations in population modelling. (English summary) **93i:92017**

Xu, Qing Finding periodic solution of Duffing equation by homotopy method. **93c:34097**

65L06 Multistep, Runge-Kutta and extrapolation methods

Abia, L. (*with* Sanz-Serna, J. M.) Partitioned Runge-Kutta methods for separable Hamiltonian problems. (English summary) **93i:65074**

Al-Juboury, Hussain Ali Estimation of the error of Runge-Kutta's method in multivariate case. (English and Russian summaries)

Arnold, M. *see* **Weiner, Rüdiger; et al., 93m:65107**

Bakaev, N. Yu. On a study of the stability of difference schemes of the Runge-Kutta method. (Russian. Russian summary) (*see* **93k:00022**)

Baok, Saiman *see* **Suleiman, Mohamed Bin, 93b:65100**

Bellen, Alfredo (*with* Jackiewicz, Z.; Zennaro, Marino) Local error estimation for singly-implicit formulas by two-step Runge-Kutta methods. (English summary) **93k:65062**

— (*with* Jackiewicz, Z.; Zennaro, Marino) Time-point relaxation Runge-Kutta methods for ordinary differential equations. (English summary) **93j:65109**

Brasey, V. A half-explicit Runge-Kutta method of order 5 for solving constrained mechanical systems. (German summary) **93c:65089**

Burrage, Kevin (*with* Chan, R. P. K.) On smoothing and order reduction effects for implicit Runge-Kutta formulae. (English summary) **93j:65110**

— Efficient block predictor-corrector methods with a small number of corrections. (English summary)

Butcher, J. C. (*with* Johnston, P. B.) Estimating local truncation errors for Runge-Kutta methods. (English summary)

Caira, R. *see* **Costabile, Francesco, 93g:65092**

Calvo Pinilla, Manuel Characterization of symplectic Runge-Kutta-Nyström methods. (Spanish) **93m:65100**

— (*with* Sanz-Serna, J. M.) Variable steps for symplectic integrators. (*see* **93b:65005**)

— (*with* Sanz-Serna, J. M.) Order conditions for canonical Runge-Kutta-Nyström methods. (English summary) **93m:65101**

Cartwright, Julyan H. E. (*with* Piro, Oreste) The dynamics of Runge-Kutta methods. (English summary) **93j:65111**

Chan, R. P. K. *see* **Burrage, Kevin, 93j:65110**

Cooper, G. J. (*with* Vignesvaran, R.) Some schemes for the implementation of implicit Runge-Kutta methods. (English summary) **93j:65112**

Costabile, Francesco (*with* Caira, R.) An explicit sixth-order three-stage method for the Cauchy problem. (Italian. English summary) **93g:65092**

Derr, L. (*with* Outlaw, C.; Sarafyan, D.) A new method for derivation of continuous Runge-Kutta formulas. (English summary) **93m:65102**

Enright, Wayne H. *see* **Suhartanto, Heru, 93a:65096** *and* **Mac Donald, Craig, 93m:65103**

Filippi, Siegfried Direkte, spezielle, verallgemeinerte k-Schrittverfahren der Ordnung $p = 2k - m + 1$ bzw. $p = 2k - m$ für Differentialgleichungen der Form $y^{(m)} = f(x, y)$, $m \geq 2$. [Direct, special, generalized k-step methods of the order $p = 2k - m + 1$, resp. $p = 2k - m$ for differential equations of the form $y^{(m)} = f(x, y)$, $m \geq 2$] **Fine, J. M.** *see* **Sharp, P. W., 93h:65097** *and* **93h:65098**

Fuchs, P. M. Algebraische Approximationen hoher Ordnung an die Exponentialfunktion. (English, German and Russian summaries) [Higher-order algebraic approximations to the exponential function] **93j:65113**

Goto, Akira (*with* Mitsui, Taketomo) Implicit RK formula for parallel computers. (English summary) (*see* **93f:65027**)

Griffiths, D. F. (*with* Sweby, P. K.; Yee, H. C.) On spurious asymptotic numerical solutions of explicit Runge-Kutta methods. (English summary) **93g:65093**

Hernández, Diego Bricio (*with* Spigler, Renato) A-stability of Runge-Kutta methods for systems with additive noise. (English summary) **93j:65114**

in 't Hout, K. J. A new interpolation procedure for adapting Runge-Kutta methods to delay differential equations. (English summary) **93j:65115**

van der Houwen, P. J. (*with* Sommeijer, B. P.) Analysis of parallel diagonally implicit iteration of Runge-Kutta methods. (English summary) **93i:65075**

Inamasu, Yutaka (*with* Yanagiwara, Hiroki) On a modified second order Runge-Kutta method. II. **93a:65092**

— (*with* Yanagiwara, Hiroki) On a modified second order Runge-Kutta method. III.

— *see also* **Obayashi, Noboru; et al.**

Iserles, Arieh Efficient Runge-Kutta methods for Hamiltonian equations. **93e:65102**

Jackiewicz, Z. (*with* Zennaro, Marino) Variable-stepsize explicit two-step Runge-Kutta methods. **93a:65093**

— *see also* **Bellen, Alfredo; et al., 93j:65109** *and* **93k:65062**

Johnston, P. B. *see* **Butcher, J. C.**

Knorrenschild, Michael Differential/algebraic equations as stiff ordinary differential equations. (English summary) **93k:65063**

Li, Qing Yang (*with* Xie, Jing Dong) A linear multistep method for solving stiff ordinary differential equations. (Chinese. English summary) **93c:65090**

Mac Donald, Craig (*with* Enright, Wayne H.) Implications of order reduction for implicit Runge-Kutta methods. (English summary) **93m:65103**

März, Roswitha Recent advances in the numerical treatment of differential-algebraic equations. (*see* **93b:65007**)

Mitsui, Taketomo *see* **Saito, Satoshi; et al., 93c:65092; 93e:65103** *and* **Goto, Akira, (93f:65027)**

Müller, Michael Wolfgang An inverse eigenvalue problem: computing B-stable Runge-Kutta methods having real poles. (English summary) **93i:65076**

Nguyen Huu Cong Note on the performance of direct and indirect Runge-Kutta-Nyström methods. (English summary)

— A-stable diagonally implicit Runge-Kutta-Nyström methods for parallel computers. (English summary) **93m:65104**

Nipp, K. *see* **Stoffer, Daniel, 93d:65068**

Obayashi, Noboru (*with* Yanagiwara, Hiroki) On the four-stage Runge-Kutta method.

— (*with* Inamasu, Yutaka; Yanagiwara, Hiroki) On a modified second order Runge-Kutta method. IV.

Okunbor, Daniel (*with* Skeel, Robert D.) An explicit Runge-Kutta-Nyström method is canonical if and only if its adjoint is explicit. **93c:65091**

Outlaw, C. *see* **Derr, L.; et al., 93m:65102**

Owren, Brynjulf (*with* Zennaro, Marino) Derivation of efficient, continuous, explicit Runge-Kutta methods. (English summary) **93g:65094**

Piro, Oreste *see* **Cartwright, Julyan H. E., 93j:65111**

Qin, Meng Zhao (*with* Zhu, Wen Jie) Construction of higher order symplectic schemes by composition. (German summary) **93a:65094**

Rentrop, Peter *see* **Weiner, Rüdiger; et al., 93m:65107**

Saito, Satoshi (*with* Sugiura, Hiroshi; Mitsui, Taketomo) Butcher's simplifying assumption for symplectic integrators. **93c:65092**

— (*with* Sugiura, Hiroshi; Mitsui, Taketomo) Family of symplectic implicit Runge-Kutta formulae. (English summary) **93e:65103**

Sanugi, Bahrom B. An iterative multistep formula for solving initial value problems. **93d:65066**

Sanz-Serna, J. M. Symplectic integrators for Hamiltonian problems: an overview. **93c:65093**

— *see also* **Abia, L., 93i:65074; Calvo Pinilla, Manuel, 93m:65101** *and* **(93b:65005)**

Sarafyan, D. *see* **Derr, L.; et al., 93m:65102**

Scherer, Rudolf (*with* Türke, Helmut) The Lyapunov matrix equation for Runge-Kutta methods. (*see* **93b:65007**)

Sharp, P. W. (*with* Fine, J. M.) Some Nyström pairs for the general second-order initial value problem. (English summary) **93h:65097**

— (*with* Fine, J. M.) A contrast of direct and transformed Nyström pairs. (English summary) **93h:65098**

— (*with* Smart, E.) Explicit Runge-Kutta pairs with one more derivative evaluation than the minimum. (English summary) **93k:65064**

Shirkov, P. D. L-stability of diagonal-implicit Runge-Kutta schemes and Rosenbrock methods. (Russian. Russian summary) **93f:65056**

Sideridis, A. B. (*with* Simos, T. E.) A low-order embedded Runge-Kutta method for periodic initial value problems. (English summary) **93h:65099**

Simos, T. E. An explicit almost P-stable two-step method with phase-lag of order infinity for the numerical integration of second-order periodic initial value problems. **93a:65095**

— Exponential fitted methods for the numerical integration of the Schrödinger equation. (English summary) **93d:65067**

— A Runge-Kutta Fehlberg method with phase-lag of order infinity for initial value problems with oscillating solution. (English summary)

— *see also* **Sideridis, A. B., 93h:65099**

Skeel, Robert D. *see* **Okunbor, Daniel, 93c:65091**

Skelboe, Stig Methods for parallel integration of stiff systems of ODEs. (English summary) **93j:65116**

Smart, E. *see* **Sharp, P. W., 93k:65064**

Sommeijer, B. P. Parallel-iterated Runge-Kutta methods for stiff ordinary differential equations. (English summary) **93m:65105**

— *see also* **van der Houwen, P. J., 93i:65075**

Spigler, Renato *see* **Hernández, Diego Bricio, 93j:65114**

Squire, William Numerical solution of second order differential equations. (English summary) (*see* **93f:00014**)

Stoffer, Daniel (*with* Nipp, K.) Erratum: "Invariant curves for variable step size integrators" [BIT **31** (1991), no. 1, 169–180; MR 91m:65204]. **93d:65068**

Strehmel, Karl (*with* Weiner, Rüdiger) Linearly implicit Runge-Kutta methods and their modification for stiff problems. (*see* **93b:65007**)

— (*with* Weiner, Rüdiger) ★ Linear-implizite Runge-Kutta-Methoden und ihre Anwendung. (German) [Linearly implicit Runge-Kutta methods and their application] **93g:65095**

— *see also* **Weiner, Rüdiger; et al., 93m:65107**

Sugiura, Hiroshi *see* **Saito, Satoshi; et al., 93c:65092** *and* **93e:65103**

Suhartanto, Heru (*with* Enright, Wayne H.) Detecting and locating a singular point in the numerical solution of IVPs for ODEs. (German summary) **93a:65096**

Suleiman, Mohamed Bin (*with* Baok, Saiman) Using nonconvergence of iteration to partition ODEs. **93b:65100**

Sweby, P. K. *see* **Griffiths, D. F.; et al., 93g:65093**

Türke, Helmut *see* **Scherer, Rudolf, (93b:65007)**

Vermiglio, R. Multistep high-order interpolants of Runge-Kutta methods. (English summary) **93m:65106**

Vignesvaran, R. *see* **Cooper, G. J., 93j:65112**

Weiner, Rüdiger (*with* Arnold, M.; Rentrop, Peter; Strehmel, Karl) Partitioning strategies in Runge-Kutta type methods. (English summary) **93m:65107**

— *see also* **Strehmel, Karl, 93g:65095** *and* **(93b:65007)**

Xiao, Ai Guo The B-convergence order of Runge-Kutta methods. (Chinese. English and Chinese summaries) **93g:65096**

— An algebraic condition for A-stability of general linear methods. (Chinese. English and Chinese summaries) **93h:65100**

Xie, Jing Dong *see* **Li, Qing Yang, 93c:65090**

Yanagiwara, Hiroki *see* **Inamasu, Yutaka, 93a:65092; Obayashi, Noboru; et al.; Inamasu, Yutaka** *and* **Obayashi, Noboru**

Yee, H. C. *see* **Griffiths, D. F.; et al., 93g:65093**

Yu, Dong Won Convergence of the generalized implicit Euler method. **93c:65094**

Zennaro, Marino *see* **Jackiewicz, Z., 93a:65093; Owren, Brynjulf, 93g:65094; Bellen, Alfredo; et al., 93j:65109** *and* **93k:65062**

Zhang, Mei Qing Diagonally implicit symplectic Runge-Kutta schemes for Hamiltonian systems. (English summary) (*see* **93d:65004**)

Zhu, Wen Jie *see* **Qin, Meng Zhao, 93a:65094**

Items with secondary classifications in 65L06

Addison, P. S. (*with* Chan, Andrew H. C.; Ervine, D. A.; Williams, K. J.) Observations on numerical method dependent solutions of a modified duffing oscillator. (English summary)

Andrus, J. F. Stability of a multi-rate method for numerical integration of ODEs. (English summary) **93j:65123**

Azizova, A. A. (*with* Kuznetsov, A. O.; Loginov, B. V.) The method of group transformations in computations of the bending forms of rods. (Russian) **93c:73057**

Bakaev, N. Yu. Estimates for the stability of difference schemes for a differential equation with a constant operator. II. (Russian) **93b:65080**

Burrage, Kevin The search for the Holy Grail, or: Predictor-corrector methods for solving ODEIVPs. **93k:65059**

Butcher, J. C. The role of orthogonal polynomials in numerical ordinary differential equations. (English summary) **93i:65081**

— (*with* Chan, R. P. K.) On symmetrizers for Gauss methods. **93c:65084**

Chan, Andrew H. C. *see* **Addison, P. S.; et al.**

Chan, R. P. K. *see* **Butcher, J. C., 93c:65084**

Chiu, Chichia (*with* Kopriva, David A.) An optimal Runge-Kutta method for steady-state solutions of hyperbolic systems. **93a:65139**

Delfour, Michel C. (*with* Ouansafi, A.) New noniterative approximations to the old Riccati differential equation. **93d:65065**

Ervine, D. A. *see* **Addison, P. S.; et al.**

van der Houwen, P. J. (*with* Sommeijer, B. P.) Fractional Runge-Kutta methods with application to convection-diffusion equations. (English summary) **93h:65118**

Kalvouridis, T. *see* **Tsitouras, Ch.; et al., 93f:70002**

Kloeden, P. E. (*with* Platen, Eckhard) Higher-order implicit strong numerical schemes for stochastic differential equations. **93e:60111**

Kopriva, David A. *see* **Chiu, Chichia, 93a:65139**

Kuznetsov, A. O. *see* **Azizova, A. A.; et al., 93c:73057**

Lebedev, V. I. How to solve stiff systems of differential equations by explicit methods. (Russian) **93b:65117**

Loginov, B. V. *see* **Azizova, A. A.; et al., 93c:73057**

Lubich, Ch. Extrapolation integrators for constrained multibody systems. **93d:70004**

Okunbor, Daniel (*with* Skeel, Robert D.) Explicit canonical methods for Hamiltonian systems. **93a:70002**

Ostermann, Alexander (*with* Roche, M.) Runge-Kutta methods for partial differential equations and fractional orders of convergence. **93a:65125**

Ouansafi, A. *see* **Delfour, Michel C., 93d:65065**

Papageorgiou, George *see* **Tsitouras, Ch.; et al., 93f:70002**

Platen, Eckhard *see* **Kloeden, P. E., 93e:60111**

Qin, Meng Zhao (*with* Wang, Dao Liu; Zhang, Mei Qing) Explicit symplectic difference schemes for separable Hamiltonian systems. **93b:65112**
Roche, M. *see* **Ostermann, Alexander, 93a:65125**
Skeel, Robert D. *see* **Okunbor, Daniel, 93a:70002**
Sommeijer, B. P. *see* **van der Houwen, P. J., 93h:65118**
Török, Csaba A note on the Runge-Kutta method for stochastic differential equations. **93c:60088**
Trompert, R. A. (*with* Verwer, J. G.) Runge-Kutta methods and local uniform grid refinement. (English summary) **93h:65119**
Tsitouras, Ch. (*with* Papageorgiou, George; Kalvouridis, T.) On the efficiency of Runge-Kutta-Nystrom methods with interpolants for solving equations of the form $Y'' = F(T, Y, Y')$ over short timespans. (English summary) **93f:70002**
Verwer, J. G. *see* **Trompert, R. A., 93h:65119**
Wang, Dao Liu *see* **Qin, Meng Zhao; et al., 93b:65112**
Williams, K. J. *see* **Addison, P. S.; et al.**
Zhang, Jian Guo *see* **Zuo, Yi Jun, 93i:65061**
Zhang, Mei Qing *see* **Qin, Meng Zhao; et al., 93b:65112**
Zuo, Yi Jun (*with* Zhang, Jian Guo) Existence and uniqueness of solutions to nonlinear algebraic equations in implicit Runge-Kutta methods. (Chinese. English summary) **93i:65061**

65L07 Numerical investigation of stability of solutions

Rand, O. Limit cycles and stability of highly nonlinear periodic systems by harmonic variables. (English summary) **93m:65108**
Söderlind, Gustaf Remarks on the stability of high-index DAEs with respect to parametric perturbations. (English and German summaries) **93i:65077**
Xia, Dao Zhi *see* **Yuan, Ben Tao**
Yuan, Ben Tao (*with* Xia, Dao Zhi) An eigenvalue analysis method for stability evaluation of linear differential-difference equations with constant coefficients. (Chinese. English summary)

Items with secondary classifications in 65L07

Iserles, Arieh (*with* Nørsett, S. P.) ★ Order stars. **93c:41026**
Lebedev, V. I. How to solve stiff systems of differential equations by explicit methods. (Russian) **93b:65117**
Muraskin, M. Oscillations within oscillations. (English summary) **93i:65083**
Nørsett, S. P. *see* **Iserles, Arieh, 93c:41026**

65L08 Improperly posed problems

Mühlig, Heiner Parameteridentifikation bei Differentialgleichungen mit Hilfe von *B*-Splines. (German summary) [Parameter identification in differential equations using *B*-splines] **93f:65057**

Items with secondary classifications in 65L08

Men'shikov, Yu. L. Identification of the least structurally stable operator in an inverse problem of the dynamics of systems. (Russian. Russian summary) (*see* **93g:00024**)
Sun, Yong Sheng Optimal recovery of linear differential operators. (Chinese. English and Chinese summaries)

65L10 Boundary value problems

Adžić, Nevenka Modified Hermite polynomials in the spectral approximation for boundary layer problems. **93a:65097**
Al'shanskii, M. A. (*with* Mel'nikova, I. V.; Freiberg, A. Yu.) Numerical realization of the method of boundary value problems. (Russian) **93c:65095**
Al-Zanaidi, Mansour (*with* Grossmann, Christian) Monotone discretization in boundary value problems using PASCAL-SC. (*see* **93b:65007**)
Bai, Y. A modified Lobatto collocation for linear boundary value problems of differential-algebraic equations. (English and German summaries) **93m:65109**
Bawa, R. K. *see* **Kadalbajoo, M. K., 93m:65111**
Böhmer, Klaus Difference solutions for linear least squares boundary value problems with asymptotic expansions. (*see* **93b:65007**)
Cash, J. R. (*with* Silva, H. H. M.) On the numerical solution of a class of singular two-point boundary value problems. (English summary)
Chernyshov, S. L. *see* **Zakharchuk, V. T.; et al., (93f:00006)**
Croft, Tony Sequence transformations for a class of two-point boundary value problems on a semi-infinite domain. (English and Arabic summaries)
— An application of convergence acceleration techniques to a class of two-point boundary value problems on a semi-infinite domain. (English summary) **93g:65097**
— *see also* **Quinney, Douglas, 93d:65070**
Dean, E. J. A model trust-region modification of Newton's method for nonlinear two-point boundary value problems. (English summary) **93j:65117**
— An inexact Newton method for nonlinear two-point boundary value problems. (English summary) **93j:65118**
De Meyer, H. *see* **Van Daele, M.; et al., 93e:65107**
Edakov, A. V. Numerical solution of nonlinear multipoint boundary value problems for systems of ordinary differential equations. (Russian. Russian summary)
El-Daou, M. K. (*with* Namasivayam, S.; Ortiz, E. L.) Differential equations with piecewise approximate coefficients: discrete and continuous estimation for initial and boundary value problems. **93b:65101**
— (*with* Ortiz, E. L.) Error analysis of the tau method: dependence of the error on the degree and on the length of the interval of approximation. (English summary) **93m:65110**
(Evans, David J.) *see* **Retraction: "The age Galerkin method for solving two-point boundary value problems", 93b:65111**
Fausett, D. W. *see* **Murty, K. N.; et al., 93e:65105**
Fausett, L. V. *see* **Murty, K. N.; et al., 93e:65105**
Fazio, Riccardo The iterative transformation method: free or moving boundary value problems. (English summary) (*see* **93j:00007**)
Fountain, D. W. (*with* Lewis, Frank L.) Walsh function analysis of bilinear implicit systems with split boundary conditions. (English summary) **93j:65119**
Freiberg, A. Yu. *see* **Al'shanskii, M. A.; et al., 93c:65095**
Gheri, G. Pointwise and nodal error estimation in linear boundary value problems solved by the standard parallel shooting. (*see* **93a:41001**)
Gladwell, Ian *see* **Zhang, Wen, 93f:65062** *and* **Paprzycki, Marcin, (93g:65178)**
Grossmann, Christian Semianalytic discretization of weakly nonlinear boundary value problems with variable coefficients. **93b:65102**
— *see also* **Al-Zanaidi, Mansour, (93b:65007)**
Heinrichs, Wilhelm Strong convergence estimates for pseudospectral methods. (English summary) **93h:65101**
Jayakumar, J. (*with* Ramanujam, N.) A computational method for solving singular perturbation problems. (English summary) **93k:65065**
Jin, Ji Cheng Numerical solutions to nonlinear two-point boundary value problems with multiple solutions. (Chinese. English and Chinese summaries) **93e:65104**
Kadalbajoo, M. K. (*with* Bawa, R. K.) Cubic spline method for a class of nonlinear singularly perturbed boundary value problems. (English summary) **93m:65111**
— (*with* Bawa, R. K.) Third-order variable-mesh cubic spline methods for nonlinear two-point singularly perturbed boundary value problems. (English summary)
Kadner, Horst Zur Lösung von Randwertaufgaben gewöhnlicher Differentialgleichungen mittels genähert konstruierter Greenscher Funktionen. [On the solution of boundary value problems of ordinary differential equations via approximate Green functions] **93f:65058**
Keller, Herbert B. ★ Numerical methods for two-point boundary value problems. (English. English summary) **93k:65066**
Khutortsev, V. V. *see* **Strotsev, A. A., 93b:65108**
Klunnik, A. A. (*with* Prikazchikov, V. G.) A projection method of increased accuracy for a fourth-order differential equation. (Russian) **93b:65103**
Korshiya, T. K. (*with* Lobzhanidze, G. B.) Decomposition approaches to the numerical solution of nonlocal boundary value problems. (Russian. English and Georgian summaries) **93b:65104**
Kramer, Martina Elijda ★ Aspects of solving nonlinear boundary value problems numerically. **93c:65096**
Kuznetsov, V. V. A method for the parametrization of boundary conditions in shooting algorithms for the numerical solution of nonlinear boundary value problems. (Russian) **93b:65105**
Lewis, Frank L. *see* **Fountain, D. W., 93j:65119**
Lin, Ping[1] A uniformly convergent difference scheme for a semilinear turning point problem. (Chinese summary) **93g:65098**
— *see also* **Vulanović, Relja, 93a:65098**
Lindsay, K. A. (*with* Ogden, R. R.) A practical implementation of spectral methods resistant to the generation of spurious eigenvalues. (English summary) **93f:65059**
Listopadova, V. V. *see* **Luchka, A. Yu., (93f:34003)**
Liu, Guang Xu Asymptotic solutions of the vector nonlinear boundary value problems. (*see* **93a:41001**)
Liu, Lixin (*with* Russell, Robert D.) Linear system solvers for boundary value ODEs. (English summary)
Lobzhanidze, G. B. *see* **Korshiya, T. K., 93b:65104**
Lopez, Luciano Stability of a three-point scheme for linear second order singularly perturbed BVPs with turning points. (English summary) **93i:65078**
Luchka, A. Yu. (*with* Listopadova, V. V.) Application of a nonstationary projection-iteration method to a multipoint problem for functional-differential equations with small nonlinearity that contain parameters. (Russian. Russian summary) (*see* **93f:34003**)
Marquina, A. (*with* Martínez, V. J.) Shooting methods for 1D steady-state free boundary problems. (English summary)
Martínez, V. J. *see* **Marquina, A.**
Martynyuk, O. M. On a numerical-analytic method for countable second-order periodic systems. (Russian. Russian summary) (*see* **93f:34006**)
Marzulli, P. Error estimation for the shooting method in nonlinear boundary value problems. (*see* **93a:41001**)
Mattheij, R. M. M. Decoupling of bidiagonal systems involving singular blocks. **93b:65106**
Mel'nikova, I. V. *see* **Al'shanskii, M. A.; et al., 93c:65095**
Mitrov, Tsvetan *see* **Smilyanov, Atanas**
Müllenheim, Gregor Solving two-point boundary value problems with spline functions. (English summary) **93h:65102**
Murty, K. N. (*with* Fausett, D. W.; Fausett, L. V.) Solution of two-point boundary value problems involving Kronecker products. **93e:65105**
— *see also* **Trigiante, D., 93f:65061**
Namasivayam, S. *see* **El-Daou, M. K.; et al., 93b:65101**
Natterer, F. A Lanczos type algorithm for inverse Sturm-Liouville problems. (English summary) (*see* **93i:00020**)
Ninomiya, Ichizo Approximation to the solution of the Thomas-Fermi equation. **93c:65097**
Ogden, R. R. *see* **Lindsay, K. A., 93f:65059**
Ortiz, E. L. *see* **El-Daou, M. K.; et al., 93b:65101** *and* **93m:65110**
Paprzycki, Marcin (*with* Gladwell, Ian) Using level 3 BLAS to solve almost block diagonal systems. (English summary) (*see* **93g:65178**)
Pekár, Ján An algorithm for solving the multi-point boundary value problems for ordinary differential equations. **93d:65069**
Prikazchikov, V. G. *see* **Klunnik, A. A., 93b:65103**
Putyatina, T. V. Convergence of the collocation method for systems of nonlinear equations with integral boundary conditions. (Russian. Russian summary) (*see* **93f:34006**)
— *see also* **Ronto, N. I., 93g:65099**
Quinney, Douglas (*with* Croft, Tony) The method of linear separation and approximate Green's functions. **93d:65070**
Ramachandran, P. A. A numerical solution method for boundary value problems containing an undetermined parameter. (English summary)
Ramanujam, N. *see* **Jayakumar, J., 93k:65065**
Rández, L. Improving the efficiency of the multiple shooting technique. (English summary)
Raptis, A. D. *see* **Simos, T. E., 93h:65104**
Roman, L. L. On the efficiency of the use of Newton-Kantorovich-type methods for the

solution of nonlinear boundary value problems. (Ukrainian)

Romano, Manfredi Étude numérique des solutions périodiques d'une équation du second ordre. (English summary) [Numerical study of the periodic solutions of a second-order equation] **93e:65106**

Ronto, N. I. (*with* Putyatina, T. V.) Finding solutions of multipoint boundary value problems for differential equations that are partially solved with respect to the derivative. (Russian. English and Russian summaries) **93g:65099**

— A numerical-analytic method in the case of singular matrices in the boundary conditions. (Russian. Russian and Ukrainian summaries) **93d:65071**

Roos, Hans-Görg (*with* Stynes, Martin) A uniformly convergent discretization method for a fourth order singular perturbation problem. (English summary) **93h:65103**

Russell, Robert D. *see* **Liu, Lixin**

Savenkova, N. P. *see* **Zakharchuk, V. T.; et al., (93f:00006)**

Semper, Bill A note on the computation of the outflow derivative for singular perturbation problems. (English summary) **93f:65060**

Seoane, María Luisa Numerical approximation of singularities of center type by orthogonal collocation methods. (Spanish. English summary) **93j:65120**

Silva, H. H. M. *see* **Cash, J. R.**

Simos, T. E. (*with* Raptis, A. D.) A fourth-order Bessel fitting method for the numerical solution of the Schrödinger equation. (English summary) **93h:65104**

Singh, Arindama A numerical method for singularly perturbed systems of linear two-point boundary value problems using partial decoupling. **93b:65107**

Smilyanov, Atanas (*with* Mitrov, Tsvetan) On the correctness of differential and difference methods for studying the stability of continuous railways. (Bulgarian. English and Russian summaries)

Stojanović, Mirjana Exponentially fitted mid point spline difference scheme on nonuniform mesh for a singular perturbation problem. (*see* **93b:65007**)

Strotsev, A. A. (*with* Khutortsev, V. V.) A modified method of invariant embedding and its application for solving linear two-point boundary value problems. (Russian) **93b:65108**

Stynes, Martin *see* **Roos, Hans-Görg, 93h:65103**

Sun, Xiao Di The Schwarz alternative procedure for solving singularly perturbed problems. (Chinese. English summary) **93b:65109**

— *see also* **Wu, Qi Guang, 93m:65112**

Trigiante, D. (*with* Murty, K. N.) On best least square solutions of two-point boundary value problems via modified Gram-Schmidt process. (English summary) **93f:65061**

Usmani, Riaz A. The use of quartic splines in the numerical solution of a fourth-order boundary value problem. (English summary) **93h:65105**

Van Daele, M. (*with* Vanden Berghe, Guido; De Meyer, H.) Five-diagonal finite difference methods based on mixed-type interpolation for a certain fourth-order two-point boundary-value problem. (English summary) **93e:65107**

Vanden Berghe, Guido *see* **Van Daele, M.; et al., 93e:65107**

Vulanović, Relja An L^1-stable scheme for linear turning point problems. (German and Russian summaries) **93b:65110**

— (*with* Lin, Ping[1]) Numerical solution of quasilinear attractive turning point problems. **93a:65098**

Wang, Guo Ying Application of the Liouville-Green transformation to numerical solutions to the first boundary value problem for second-order ordinary differential equations with two parameters. (Chinese. English summary) **93e:65108**

Ward, William A., Jr. Numerically generated basis functions for elliptic boundary value problems. (English summary) **93h:65106**

Wright, Stephen Joseph Stable parallel algorithms for two-point boundary value problems. **93a:65099**

Wu, Qi Guang (*with* Sun, Xiao Di) A uniform high-order method for a singular perturbation problem in conservative form. (Chinese. English and Chinese summaries) **93m:65112**

Zadorin, A. I. Numerical solution of an ordinary second-order equation with a weakly expressed boundary layer. (Russian. Russian summary) **93j:65121**

Zakharchuk, V. T. (*with* Savenkova, N. P.; Chernyshov, S. L.) On an approach to the solution of the Orr-Sommerfeld equation. (Russian. Russian summary) (*see* **93f:00006**)

Zhang, Wen (*with* Gladwell, Ian) Bifurcation phenomena in singular free boundary value problems of ordinary differential equations. **93f:65062**

Zhanlav, T. Spline approximation in the stabilization method for solving nonlinear boundary value problems. (*see* **93b:65007**)

Zhou, Qing Hua A mathematical representation of the condensation method. (Chinese. English and Chinese summaries) **93g:65100**

Items listed otherwise than by author

Retraction:

"The age Galerkin method for solving two-point boundary value problems" Retraction: "The age Galerkin method for solving two-point boundary value problems" [Comput. Math. Appl. **16** (1988), no. 12, 1045–1055; MR 90k:65152] by D. J. Evans. **93b:65111**

Items with secondary classifications in 65L10

Abramov, A. A. (*with* Alvarez, L. M.; Gonzales Felipe, R.; Rodriges, A. R.) Some possibilities of the operator splitting method. (Russian) **93e:34023a**

— (*with* Alvarez, L. M.; Gonzales Felipe, R.; Rodriges, A. R.) Erratum: "Some possibilities of the operator splitting method". (Russian) **93e:34023b**

Agarwal, Ravi Prakash Component-wise convergence of quasilinearization method for nonlinear boundary value problems. **93j:34019**

Alvarez, L. M. *see* **Abramov, A. A.; et al., 93e:34023a** *and* **93e:34023b**

Argyros, Ioannis K. (*with* Losta, Mansor M.) Integral equations for two-point boundary value problems. **93b:65205**

Arolska-Hekimova, Mariya At. *see* **Bainov, Drumi Dimitrov; et al., 93k:34029**

Azizova, A. A. (*with* Kuznetsov, A. O.; Loginov, B. V.) The method of group transformations in computations of the bending forms of rods. (Russian) **93c:73057**

Bainov, Drumi Dimitrov (*with* Arolska-Hekimova, Mariya At.; Vel'ov, V. M.) Asymptotic procedure for solving boundary value problems for singularly perturbed linear systems with impulses. (English summary) **93k:34029**

Bakirov, Zh. Zh. *see* **Sklyar, S. N., 93c:65098**

Bauch, Hartmut Self-validating algorithms and imprecise data structures for ordinary initial value and boundary value problems. (*see* **93i:00021**)

Bowers, Kenneth L. *see* **McArthur, Kelly M.; et al., 93g:65104**

Castro González, Nieves Analysis of the multilevel method with overcorrection by aggregation via an algebraic interpretation. (Spanish. English summary) **93a:65031**

Ch'ên, Yü I *see* **Wang, Ch'ing An, 93m:34034**

Choo, Joshua Y. (*with* Schultz, David H.) Stable high order methods for differential equations with small coefficients for the second order terms. (English summary) **93j:65209**

Dieci, Luca Numerical integration of the differential Riccati equation and some related issues. **93b:65093**

Dzhumabaev, D. S. Singular boundary value problems and their approximation for nonlinear ordinary differential equations. (Russian) **93c:34051**

El Bestawy, R. S. *see* **Sobeih, M. M.**

Fausett, D. W. *see* **Murty, K. N.; et al., 93f:34034**

Fausett, L. V. *see* **Murty, K. N.; et al., 93f:34034**

Gartland, E. C., Jr. (*with* Grossmann, Christian) Semianalytic solution of boundary value problems by using approximated operators. (English, German and Russian summaries) **93m:34016**

Gasparo, M. G. (*with* Macconi, M.) Parallel initial value algorithms for singularly perturbed boundary value problems. **93b:65217**

— (*with* Macconi, M.) Numerical solution of second-order nonlinear singularly perturbed boundary value problems by initial value methods. **93c:65085**

Gonzales Felipe, R. *see* **Abramov, A. A.; et al., 93e:34023a** *and* **93e:34023b**

Grossmann, Christian *see* **Gartland, E. C., Jr., 93m:34016**

Gur'yanov, A. V. ★ Пакет программ для решения двухточечных краевых задач (метод ортогонального переноса граничных условий). (Russian. Russian summary) [A program package for solving two-point boundary value problems (the method of orthogonal transfer of boundary conditions)]

Huang, Hong Ci *see* **Zou, Jun, 93c:65102**

Huang, Wei Zhang[2] The estimation of solution of the boundary value problem of the systems for quasi-linear ordinary differential equations. (Chinese. English and Chinese summaries) **93i:34097**

Huo, Lin Chun Extension and application of Newton's method in nonlinear oscillation theory. (Chinese. English and Chinese summaries) **93j:34057**

Il'in, V. P. (*with* Koval', F. F.) Solution of boundary value problems by the method of operator continuation and decomposition for orthogonal functions. (Russian. English summary)

Ji, Xing Zhi A two-dimensional bisection method for solving two-parameter eigenvalue problems. (English summary) **93f:65035**

Jódar, Lucas Closed-form solutions for boundary value coupled differential and difference systems. **93a:34025**

Kounadis, A. N. An efficient and simple approximate technique for solving nonlinear initial and boundary value problems. (English summary) **93e:65098**

Koval', F. F. *see* **Il'in, V. P.**

Kuznetsov, A. O. *see* **Azizova, A. A.; et al., 93c:73057**

Logan, J. David An inhomogeneous nonlinear boundary value problem in model reactive media. **93f:80008**

Loginov, B. V. *see* **Azizova, A. A.; et al., 93c:73057**

Losta, Mansor M. *see* **Argyros, Ioannis K., 93b:65205**

Lund, John *see* **McArthur, Kelly M.; et al., 93g:65104**

Macconi, M. *see* **Gasparo, M. G., 93b:65217** *and* **93c:65085**

Mackenzie, J. A. (*with* Morton, K. W.) Finite volume solutions of convection-diffusion test problems. **93d:76065**

März, Roswitha Recent advances in the numerical treatment of differential-algebraic equations. (*see* **93b:65007**)

McArthur, Kelly M. (*with* Smith, Ralph C.; Lund, John; Bowers, Kenneth L.) The sinc-Galerkin method for parameter-dependent selfadjoint problems. **93g:65104**

Morton, K. W. *see* **Mackenzie, J. A., 93d:76065**

Murty, K. N. (*with* Fausett, D. W.; Fausett, L. V.) On dichotomy and well conditioning in Kronecker product two-point boundary value problems. **93f:34034**

Peskin, Richard L. *see* **Russo, Mark F., 93a:65187**

Rodriges, A. R. *see* **Abramov, A. A.; et al., 93e:34023a** *and* **93e:34023b**

Rogina, Mladen Basis of splines associated with some singular differential operators. (English summary) **93i:41006**

Ronto, V. A. On the search for points through which the solutions of linear boundary value problems pass. (Russian. Russian summary) **93k:34041**

Rundell, William (*with* Sacks, Paul E.) The reconstruction of Sturm-Liouville operators. **93c:34038**

Russo, Mark F. (*with* Peskin, Richard L.) Automatically identifying the asymptotic behavior of nonlinear singularly perturbed boundary value problems. **93a:65187**

Sacks, Paul E. *see* **Rundell, William, 93c:34038**

Schultz, David H. *see* **Choo, Joshua Y., 93j:65209**

Sklyar, S. N. (*with* Bakirov, Zh. Zh.) A modification of a classical difference scheme for solving a selfadjoint singularly perturbed boundary value problem. (Russian. Russian summary) **93c:65098**

Smelov, V. V. Approximation of functions by eigenfunctions of the Sturm-Liouville problems. (*see* **93b:65007**)

Smith, Ralph C. *see* **McArthur, Kelly M.; et al., 93g:65104**

Sobeih, M. M. (*with* El Bestawy, R. S.) A study for finding the solution of a differential equation by using approximations. (English summary)

Titenskii, M. N. On the stability of nonlinear nonstationary boundary value problems of general form. (Russian. Russian summary) (*see* **93m:00032**)

Vasil'eva, A. B. Contrast structures with two transition layers of step type and their stability. (Russian. Russian summary) **93m:34067**

Vel'ov, V. M. *see* **Bainov, Drumi Dimitrov; et al., 93k:34029**

Voller, Rudolf L. Affine-invariant monotone iteration methods with application to systems of nonlinear two-point boundary value problems. (German summary) **93e:65084**

Wang, Ch'ing An (*with* Ch'ên, Yü I) On existence of similarity solutions for laminar flow in a channel with one porous wall. (English summary) **93m:34034**

Werschulz, Arthur G. ★ The computational complexity of differential and integral equations. **93a:68061**

Wright, Stephen Joseph A collection of problems for which Gaussian elimination with partial pivoting is unstable. (English summary) **93j:65047**

Zhang, Wei Jiang Exponential dichotomies of nonlinear discrete systems and their application to numerical analysis and computation. (Chinese. English summary) **93a:65101**

Zou, Jun (*with* Huang, Hong Ci) A posterior error estimates for the *h-p* version of the finite element method in one dimension. **93c:65102**

65L12 Finite difference methods

Bakirov, Zh. Zh. *see* **Sklyar, S. N., 93c:65098**

Feng, Kang (*with* Wang, Dao Liu) Symplectic difference schemes for Hamiltonian systems in general symplectic structure. **93a:65100**

— (*with* Wang, Dao Liu) A note on conservation laws of symplectic difference schemes for Hamiltonian systems. **93b:65113**

Ibragimov, V. R. On the maximal degree for a stable forward-difference formula. (Russian. English and Azerbaijani summaries) **93e:65109**

Qin, Meng Zhao (*with* Wang, Dao Liu; Zhang, Mei Qing) Explicit symplectic difference schemes for separable Hamiltonian systems. **93b:65112**

Sklyar, S. N. (*with* Bakirov, Zh. Zh.) A modification of a classical difference scheme for solving a selfadjoint singularly perturbed boundary value problem. (Russian. Russian summary) **93c:65098**

Sun, Xiao Di A second order uniform difference scheme for a singularly perturbed turning point problem. (Chinese. English summary) **93b:65114**

Wang, Dao Liu *see* **Feng, Kang, 93a:65100; Qin, Meng Zhao; et al., 93b:65112** *and* **Feng, Kang, 93b:65113**

Zhang, Mei Qing *see* **Qin, Meng Zhao; et al., 93b:65112**

Zhang, Wei Jiang Exponential dichotomies of nonlinear discrete systems and their application to numerical analysis and computation. (Chinese. English summary) **93a:65101**

Items with secondary classifications in 65L12

Böhmer, Klaus Difference solutions for linear least squares boundary value problems with asymptotic expansions. (*see* **93b:65007**)

Boyarintsev, Yu. E. ★ Methods of solving singular systems of ordinary differential equations. **93f:34008**

Hagelstein, Peter L. *see* **Kaushik, Sumanth, 93c:65042**

Han, Hou De (*with* Il'in, V. P.; Kellogg, R. B.; Yuan, Wei) Analysis of flow directed iterations. **93c:65048**

Il'in, V. P. *see* **Han, Hou De; et al., 93c:65048**

Kaushik, Sumanth (*with* Hagelstein, Peter L.) The application of the preconditioned biconjugate gradient algorithm to NLTE rate matrix equations. **93c:65042**

Kellogg, R. B. *see* **Han, Hou De; et al., 93c:65048**

(Michalkowski, Vassily) *see* **Boyarintsev, Yu. E., 93f:34008**

Rachok, V. M. Approximation of attainability sets of control systems with delay. (Russian. English summary) **93b:93013**

Vulanović, Relja An L^1-stable scheme for linear turning point problems. (German and Russian summaries) **93b:65110**

Wang, Dao Liu Poisson difference schemes for Hamiltonian systems on Poisson manifolds. **93d:58060**

Yuan, Wei *see* **Han, Hou De; et al., 93c:65048**

65L15 Eigenvalue problems

Bailey, P. B. (*with* Everitt, W. N.; Zettl, Anton) Computing eigenvalues of singular Sturm-Liouville problems. **93a:65102**

De Meyer, H. *see* **Vanden Berghe, Guido; et al., 93g:65101**

Everitt, W. N. *see* **Bailey, P. B.; et al., 93a:65102**

Gallawa, R. L. *see* **Goyal, I. C.; et al., 93m:65113**

Ghatak, A. K. *see* **Goyal, I. C.; et al., 93m:65113**

Goyal, I. C. (*with* Gallawa, R. L.; Ghatak, A. K.) Accuracy of eigenvalues: a comparison of two methods. (English summary) **93m:65113**

Ji, Xing Zhi *see* **Wong, Yau Shu, 93j:65122**

Lou, Meng Lin Approximate solutions to generalized eigenvalue problems with additional mass matrices. (Chinese. English summary) **93a:65103**

Lyashenko, B. N. Approximation of the eigenvalues of a singular Sturm-Liouville problem that is nonlinear with respect to the parameter. (Russian) **93b:65115**

Makarov, Vladimir Leonidovich A functional-difference method of arbitrary order of accuracy for solving the Sturm-Liouville problem with piecewise-smooth coefficients. (Russian) **93c:65099**

Matar, S. A. *see* **Twizell, E. H., 93b:65116**

Neher, Markus Inclusion of eigenvalues and eigenfunctions of the Sturm-Liouville problem. (English summary) (*see* **93i:65006**)

Twizell, E. H. (*with* Matar, S. A.) Numerical methods for computing the eigenvalues of linear fourth-order boundary value problems. **93b:65116**

Van Daele, M. *see* **Vanden Berghe, Guido; et al., 93g:65101**

Vanden Berghe, Guido (*with* Van Daele, M.; De Meyer, H.) A five-diagonal finite-difference method based on mixed-type interpolation for computing eigenvalues of fourth-order two-point boundary-value problems. (English summary) **93g:65101**

Wong, Yau Shu (*with* Ji, Xing Zhi) On shooting algorithm for Sturm-Liouville eigenvalue problems with periodic and semi-periodic boundary conditions. (English summary) **93j:65122**

Zettl, Anton *see* **Bailey, P. B.; et al., 93a:65102**

Items with secondary classifications in 65L15

Alekseev, G. V. (*with* Komarov, E. G.) A nonselfadjoint singular spectral problem for the Helmholtz operator with discontinuous coefficients. (Russian) **93c:35023**

Banerjee, Uday Approximation of the eigenvalues of a fourth order differential equation with nonsmooth coefficients. **93b:34021**

Buslov, V. A. (*with* Makarov, K. A.) Life spans and least eigenvalues of an operator of small diffusion. (Russian) **93c:34161**

Chivilikhin, S. A. Calculation of the spectrum of an ordinary differential operator with constant coefficients. (Russian) **93b:34105**

Komarov, E. G. *see* **Alekseev, G. V., 93c:35023**

Kregzhde, A. V. A numerical method for calculating the eigenvalues of a tridiagonal symmetric matrix. (Russian. Russian summary) **93f:65036**

Makarov, K. A. *see* **Buslov, V. A., 93c:34161**

Tang, Tao The Hermite spectral method for Gaussian-type functions. (English summary) **93m:65026**

65L20 Stability of numerical methods

Andrus, J. F. Stability of a multi-rate method for numerical integration of ODEs. (English summary) **93j:65123**

Auzinger, W. (*with* Frank, Reinhard M.; Kirlinger, G.) Modern convergence theory for stiff initial value problems. (English summary) **93j:65124**

Bellen, Alfredo (*with* Zennaro, Marino) Strong contractivity properties of numerical methods for ordinary and delay differential equations. **93a:65104**

Buhmann, Martin D. (*with* Iserles, Arieh) Stability of the discretized pantograph differential equation. (English summary) **93h:65107**

Calvo Pinilla, Manuel (*with* Montijano, J. I.; Rández, L.) A_0-stability of variable stepsize BDF methods. (English summary) **93j:65125**

Frank, Reinhard M. *see* **Auzinger, W.; et al., 93j:65124**

Iserles, Arieh *see* **Buhmann, Martin D., 93h:65107**

Kirlinger, G. *see* **Auzinger, W.; et al., 93j:65124**

Lebedev, V. I. How to solve stiff systems of differential equations by explicit methods. (Russian) **93b:65117**

Lu, Lian Hua The stability of the block θ-methods. (English summary) **93i:65079**

Montijano, J. I. *see* **Calvo Pinilla, Manuel; et al., 93j:65125**

Naab, Karl (*with* Weyh, Bernhardt) Generalised Hill-method for stability analysis of periodic parameter-excited systems. (*see* **93b:65007**)

Petzold, Linda R. Numerical solution of differential-algebraic equations in mechanical systems simulation. (English summary) **93j:65126**

Qin, Meng Zhao (*with* Zhu, Wen Jie) A note on stability of a three-stage difference scheme for ordinary differential equations. (English summary)

Rández, L. *see* **Calvo Pinilla, Manuel; et al., 93j:65125**

Weyh, Bernhardt *see* **Naab, Karl, (93b:65007)**

Wu, Xin Yuan Stiffly stable second-order derivative methods with higher precision and improved stability regions. (Chinese. English summary) **93d:65072**

Zennaro, Marino *see* **Bellen, Alfredo, 93a:65104**

Zhou, Qing Hua Asymptotic expansion of collocation solutions to equations of Hammerstein type. (Chinese. English and Chinese summaries) **93h:65108**

Zhu, Wen Jie *see* **Qin, Meng Zhao**

Items with secondary classifications in 65L20

Bakaev, N. Yu. On a study of the stability of difference schemes of the Runge-Kutta method. (Russian. Russian summary) (*see* **93k:00022**)

— Estimates for the stability of difference schemes for a differential equation with a constant operator. II. (Russian) **93b:65080**

— Estimates for the stability of difference schemes for a differential equation with a constant operator. I. (Russian) **93b:65079**

Buhmann, Martin D. (*with* Iserles, Arieh) Numerical analysis of functional equations with a variable delay. **93g:65162**

— (*with* Iserles, Arieh) On the dynamics of a discretized neutral equation. (English summary) **93h:34142**

Butcher, J. C. (*with* Chan, R. P. K.) On symmetrizers for Gauss methods. **93c:65084**

Castro González, Nieves Analysis of the multilevel method with overcorrection by aggregation via an algebraic interpretation. (Spanish. English summary) **93a:65031**

Chan, R. P. K. *see* **Butcher, J. C., 93c:65084**

Gear, C. W. Invariants and numerical methods for ODEs. (English summary) **93j:65128**

Guo, Ben Yu Generalized stability of discretization and its applications to numerical solutions of nonlinear partial differential equations. (Russian summary) **93e:65114**

Hernández, Diego Bricio (*with* Spigler, Renato) *A*-stability of Runge-Kutta methods for systems with additive noise. (English summary) **93j:65114**

Inamasu, Yutaka (*with* Yanagiwara, Hiroki) On a modified second order Runge-Kutta method. II. **93a:65092**

Iserles, Arieh *see* **Buhmann, Martin D., 93g:65162** *and* **93h:34142**

Klepp, Horst J. Approximate solutions, numerical errors and chaos of the logistic equation. **93f:58152**

Li, Shou Fo Nonlinear stability of general linear methods. **93d:34021**

Peskin, Charles S. Two examples of mathematics and computing in the biological sciences: blood flow in the heart and molecular dynamics. (*see* **93d:01002**)

Sand, Jørgen (*with* Skelboe, Stig) Stability of backward Euler multirate methods and convergence of waveform relaxation. **93c:65088**

Sauer, Tim (*with* Yorke, James A.) Rigorous verification of trajectories for the computer simulation of dynamical systems. **93a:58104**

Scherer, Rudolf (*with* Türke, Helmut) The Lyapunov matrix equation for Runge-Kutta methods. (*see* **93b:65007**)

Sinaiskii, E. S. Joint approximation of a solution and its derivatives in a boundary value problem for a linear differential equation with polynomial coefficients. (Russian) **93i:34030**

Skelboe, Stig *see* **Sand, Jørgen, 93c:65088**

Spigler, Renato *see* **Hernández, Diego Bricio, 93j:65114**

Strehmel, Karl (*with* Weiner, Rüdiger) ★ Linear-implizite Runge-Kutta-Methoden und ihre Anwendung. (German) [Linearly implicit Runge-Kutta methods and their application] **93g:65095**

Suleiman, Mohamed Bin Some necessary conditions for convergence of the GBDF methods. (English summary) **93h:65096**
Tam, H.-W. One-stage parallel methods for the numerical solution of ordinary differential equations. (English summary) **93e:65100**
— Two-stage parallel methods for the numerical solution of ordinary differential equations. (English summary) **93e:65101**
Türke, Helmut *see* **Scherer, Rudolf**, **(93b:65007)**
Weiner, Rüdiger *see* **Strehmel, Karl**, **93g:65095**
Xiao, Ai Guo An algebraic condition for A-stability of general linear methods. (Chinese. English and Chinese summaries) **93h:65100**
Yanagiwara, Hiroki *see* **Inamasu, Yutaka**, **93a:65092**
Yorke, James A. *see* **Sauer, Tim**, **93a:58104**
Zhou, Tian Xiao Stabilized finite element methods for a model parameter-dependent problem. (*see* **93b:65006**)

65L50 Mesh generation and refinement

Kan, Pui Tak (*with* Miranker, Willard L.) Entropy in multilevel algorithms. (English summary) **93g:65102**
Miranker, Willard L. *see* **Kan, Pui Tak**, **93g:65102**

65L60 Finite elements, Rayleigh-Ritz, Galerkin and collocation methods

Ascher, Uri M. (*with* Petzold, Linda R.) Projected collocation for higher-order higher-index differential-algebraic equations. (English summary) **93i:65080**
Bottcher, C. (*with* Strayer, M. R.; Werby, Michael F.) Solution of a class of Sturm-Liouville problems using the Galerkin method with global basis functions. (English summary) (*see* **93b:65002**)
Bowers, Kenneth L. *see* **McArthur, Kelly M.; et al.**, **93g:65104**
Cao, Li Qun *see* **Zhu, Qi Ding**, **93g:65105**
Chen, Yan Ping Asymptotic expansion and extrapolation of finite element solutions to singular two-point boundary value problems. (Chinese. English and Chinese summaries) **93e:65110**
Cheng, Xiao Liang *see* **Jiang, Jin Sheng**, **93a:65105**
Deineka, V. S. *see* **Sergienko, I. V.; et al.**, **93b:65119**
Deville, M. O. *see* **Francken, P.; et al.**, **(93d:65005)**
Francken, P. (*with* Deville, M. O.; Mund, E. H.) On the spectrum of the iteration operator associated to the finite element preconditioning of Chebyshev collocation calculations. (English summary) (*see* **93d:65005**)
Guo, Ben Yu (*with* Miller, John J. H.) Iterative and Petrov-Galerkin methods for a nonlinear two-point boundary value problem with application to semiconductor devices. (*see* **93b:65006**)
Hu, Qi Ya Extrapolation of finite element solutions to a class of integro-differential equations. (Chinese. English and Chinese summaries) **93g:65103**
Huang, Hong Ci *see* **Zou, Jun**, **93c:65102**
Jiang, Jin Sheng (*with* Cheng, Xiao Liang) An additional remark on L^2-norm error estimates for p-type finite element methods. (Chinese. English summary) **93a:65105**
Litvin, O. N. Optimal schemes of the finite element method that are exact on the class of problems $(-1)^n y^{(2n)}(x) = f(x)$ $(a < x < b,\ y^{(s)}(a) = y^{(s)}(b) = 0)$ $(s = 0, \cdots, n-1)$. (Russian) **93d:65073**
Lund, John *see* **McArthur, Kelly M.; et al.**, **93g:65104**
McArthur, Kelly M. (*with* Smith, Ralph C.; Lund, John; Bowers, Kenneth L.) The sinc-Galerkin method for parameter-dependent selfadjoint problems. **93g:65104**
Miidla, Peep Collocation method for finding periodic solutions of quadratic autonomous systems. (Russian summary) **93c:65100**
Miller, John J. H. *see* **Guo, Ben Yu**, **(93b:65006)**
Mund, E. H. *see* **Francken, P.; et al.**, **(93d:65005)**
Petzold, Linda R. *see* **Ascher, Uri M.**, **93i:65080**
Putyatina, T. V. The collocation method for differential equations that are partially solved with respect to the derivatives. (Russian) **93b:65118**
Sergienko, I. V. (*with* Deineka, V. S.; Skopetskii, V. V.) Approximate discontinuous solutions of the finite element method and their convergence in the norm $L_2(\Omega)$. (Russian. English summary) **93b:65119**
Skopetskii, V. V. *see* **Sergienko, I. V.; et al.**, **93b:65119**
Smith, Ralph C. *see* **McArthur, Kelly M.; et al.**, **93g:65104**
Stojanović, Mirjana Uniform finite elements method for singular perturbation problem. **93c:65101**
Strayer, M. R. *see* **Bottcher, C.; et al.**, **(93b:65002)**
Werby, Michael F. *see* **Bottcher, C.; et al.**, **(93b:65002)**
Zhang, Li Qing Spline collocation approximation to periodic solutions of ordinary differential equations. **93a:65106**
Zhou, Tian Xiao Stabilized finite element methods for a model parameter-dependent problem. (*see* **93b:65006**)
Zhu, Qi Ding (*with* Cao, Li Qun) Multilevel correction for the finite element method and the boundary element method. (Chinese. English and Chinese summaries) **93g:65105**
Zou, Jun (*with* Huang, Hong Ci) A posterior error estimates for the h-p version of the finite element method in one dimension. **93c:65102**

Items with secondary classifications in 65L60

Banerjee, Uday Approximation of the eigenvalues of a fourth order differential equation with nonsmooth coefficients. **93b:34021**
Beardah, C. C. (*with* Thomas, Ruth Margaret) Finite difference solution of a singular index one differential/algebraic boundary value problem arising in the modelling of unconfined detonations. **93f:80015**
Bowers, Kenneth L. *see* **Lund, John**, **93i:65004**
Dellnitz, Michael Computational bifurcation of periodic solutions in systems with symmetry. (English summary) **93g:58104**
E, Weinan Convergence of spectral methods for Burgers' equation. (English summary) **93j:65158**
Hazard, C. *see* **Lenoir, Marc André; et al.**, **93c:35120**
Korshiya, T. K. (*with* Lobzhanidze, G. B.) Decomposition approaches to the numerical solution of nonlocal boundary value problems. (Russian. English and Georgian summaries) **93b:65104**
Lenoir, Marc André (*with* Vullierme-Ledard, M.; Hazard, C.) Variational formulations for the determination of resonant states in scattering problems. **93c:35120**
Lindsay, K. A. (*with* Ogden, R. R.) A practical implementation of spectral methods resistant to the generation of spurious eigenvalues. (English summary) **93f:65059**
Lobzhanidze, G. B. *see* **Korshiya, T. K.**, **93b:65104**
Lund, John (*with* Bowers, Kenneth L.) ★ Sinc methods for quadrature and differential equations. **93i:65004**
Meleshko, A. N. (*with* Yanovich, L. A.) On the collocation method for a class of nonlinear singular integro-differential equations. (Russian. Russian summary) **93i:65129**
Ogden, R. R. *see* **Lindsay, K. A.**, **93f:65059**
Rodríguez, Jesús Galerkin's method for ordinary differential equations subject to generalized nonlinear boundary conditions. **93g:34036**
Roos, Hans-Görg (*with* Stynes, Martin) A uniformly convergent discretization method for a fourth order singular perturbation problem. (English summary) **93h:65103**
Song, Wei Ping *see* **Yu, Qing Yu**, **93d:73048**
Stynes, Martin *see* **Roos, Hans-Görg**, **93h:65103**
Thomas, Ruth Margaret *see* **Beardah, C. C.**, **93f:80015**
Vullierme-Ledard, M. *see* **Lenoir, Marc André; et al.**, **93c:35120**
Wang, Jin Ming (*with* Zhang, De Tong) An iterative method for solving mixed finite element equations. (Chinese. English summary)
Wulkow, Michael Adaptive treatment of polyreactions in weighted sequence spaces. **93e:65085**
Yanovich, L. A. *see* **Meleshko, A. N.**, **93i:65129**
Yserentant, Harry Hierarchical bases. (*see* **93b:00026**)
Yu, Qing Yu (*with* Song, Wei Ping) Solution of the von Kármán equations of circular plates. **93d:73048**
Zhang, De Tong *see* **Wang, Jin Ming**

Items listed otherwise than by author

Extrapolation and defect correction ★ Extrapolation and defect correction. **93d:65003**
Seminar:
Extrapolation and Defect Correction in Finite Element Methods ★ Extrapolation and defect correction. **93d:65003**

65L70 Error bounds

Adeniyi, R. B. (*with* Onumanyi, P.; Taiwo, O. A.) A computational error estimate of the tau method for nonlinear ordinary differential equations. **93a:65107**
Corless, Robert M. (*with* Corliss, George F.) Rationale for guaranteed ODE defect control. (English summary) **93j:65127**
Corliss, George F. *see* **Corless, Robert M.**, **93j:65127**
Gear, C. W. Invariants and numerical methods for ODEs. (English summary) **93j:65128**
Iserles, Arieh (*with* Söderlind, Gustaf) Global bounds on numerical error for ordinary differential equations. (English summary) **93m:65114**
Onumanyi, P. *see* **Adeniyi, R. B.; et al.**, **93a:65107**
Söderlind, Gustaf *see* **Iserles, Arieh**, **93m:65114**
Taiwo, O. A. *see* **Adeniyi, R. B.; et al.**, **93a:65107**

Items with secondary classifications in 65L70

Auzinger, W. (*with* Frank, Reinhard M.; Kirlinger, G.) Modern convergence theory for stiff initial value problems. (English summary) **93j:65124**
Butcher, J. C. (*with* Johnston, P. B.) Estimating local truncation errors for Runge-Kutta methods. (English summary)
El-Daou, M. K. (*with* Ortiz, E. L.) Error analysis of the tau method: dependence of the error on the degree and on the length of the interval of approximation. (English summary) **93m:65110**
Frank, Reinhard M. *see* **Auzinger, W.; et al.**, **93j:65124**
Huang, Hong Ci *see* **Zou, Jun**, **93c:65102**
Jódar, Lucas *see* **Rubio Navarro, Gregorio**, **93a:34009**
Johnston, P. B. *see* **Butcher, J. C.**
Khapaev, Mikhail Mikhailovich *see* **Postnikova, N. V.; et al.**, **93j:65107**
Kirlinger, G. *see* **Auzinger, W.; et al.**, **93j:65124**
Kolev, Lubomir V. (*with* Nenov, I.) Approximate interval solution of an initial value problem for linear ODEs. (*see* **93e:00022**)
Nenov, I. *see* **Kolev, Lubomir V.**, **(93e:00022)**
Ortiz, E. L. *see* **El-Daou, M. K.**, **93m:65110**
Özis, Turgut The extension of Picard's successive approximation for constructing two-side bounds for the solutions of differential equations. **93d:65056**
Postnikova, N. V. (*with* Razumovskiĭ, S. N.; Khapaev, Mikhail Mikhailovich) Problems of controlling the accuracy of processes of integrating differential equations while obtaining analytical results. (Russian. Russian summary) **93j:65107**
Razumovskiĭ, S. N. *see* **Postnikova, N. V.; et al.**, **93j:65107**
Rubio Navarro, Gregorio (*with* Jódar, Lucas) Approximate solutions and error bounds for second order operator differential equations. **93a:34009**
Yu, Dong Won Convergence of the generalized implicit Euler method. **93c:65094**
Zou, Jun (*with* Huang, Hong Ci) A posterior error estimates for the h-p version of the finite element method in one dimension. **93c:65102**

65L99 None of the above, but in this section

Adams, Ernst Wilhelm Gear drive vibrations and verified periodic solutions. (English summary) (*see* **93e:00022**)
Ashkenazi, Max (*with* Chow, Shui-Nee; Drachman, Byron) Symbolic computation of normal forms for nonlinear Hamiltonian systems (Algorithm 34). **93c:65103**
Baker, Christopher T. H. *see* **Willé, David R.**, **93a:65109**
Brown, Kevin S. A note on recurrence relations for simulating ODEs. (English summary)

Bulychev, Yu. G. Methods for the numerical-analytic integration of differential equations. (Russian) **93b:65120**

Butcher, J. C. The role of orthogonal polynomials in numerical ordinary differential equations. (English summary) **93i:65081**

Campbell, Stephen L. (*with* Leimkuhler, B.) Differentiation of constraints in differential-algebraic equations. **93b:65121**

Chin, Raymond C. Y. (*with* Liu, Wei Min) Domain decomposition method and slow passage through a Hopf bifurcation. (English summary) (*see* **93g:65009**)

Chow, Shui-Nee *see* **Ashkenazi, Max; et al., 93c:65103**

Civan, Faruk Finite analytic method for numerical solution of mathematical models. (English summary) (*see* **93f:00014**)

Dieci, Luca (*with* Lorenz, Jens) Block M-matrices and computation of invariant tori. **93h:65109**

Drachman, Byron *see* **Ashkenazi, Max; et al., 93c:65103**

Duncan, Dugald B. (*with* Walshaw, C. H.; Wattis, J. A. D.) A symplectic solver for lattice equations. (English summary) (*see* **93e:00025**)

Gear, C. W. *see* **Skeel, Robert D., 93j:65133**

Haug, Edward J. *see* **Yen, Jeng; et al., 93a:65110**

Hoffmann, Michael H. W. On the numerical computation of phase-space-trajectories. (English summary) **93g:65106**

Kishima, Akira *see* **Matsuo, Tetsuji, 93a:65108** *and* **93j:65130**

Kobayashi, Yasuhiro[1] *see* **Ohkita, Masaaki; et al., (93j:00008)**

Kolobov, B. P. (*with* Molorodov, Yu. I.) Application of schemes of a high order of accuracy to the solution of problems on graphs. (Russian. Russian summary) **93j:65129**

Leimkuhler, B. *see* **Campbell, Stephen L., 93b:65121**

Lempio, Frank The numerical treatment of differential inclusions. (*see* **93f:34004**)

Liu, Wei Min *see* **Chin, Raymond C. Y., (93g:65009)**

Lorenz, Jens Computation of invariant manifolds. **93g:65107**

— *see also* **Dieci, Luca, 93h:65109**

Matsuo, Tetsuji (*with* Kishima, Akira) A method for numerical analysis of bifurcation of periodic solutions in nonautonomous systems with hysteretic elements. **93a:65108**

— (*with* Kishima, Akira) Numerical analysis of bifurcations in Duffing's equation with hysteretic functions. (English summary) **93j:65130**

Meng, Qing Chang A scheme for numerical integration of ordinary differential equations and its applications. (Chinese. English summary) **93i:65082**

Men'shikov, Yu. L. Identification of the least structurally stable operator in an inverse problem of the dynamics of systems. (Russian. Russian summary) (*see* **93g:00024**)

Miyata, Hitoshi *see* **Ohkita, Masaaki; et al., (93j:00008)**

Molorodov, Yu. I. *see* **Kolobov, B. P., 93j:65129**

Muraskin, M. Oscillations within oscillations. (English summary) **93i:65083**

Ohkita, Masaaki (*with* Miyata, Hitoshi; Kobayashi, Yasuhiro[1]) Piecewise-linear approximation of solutions of delay-differential systems by Walsh functions. (English summary) (*see* **93j:00008**)

Okunbor, Daniel Canonical methods for Hamiltonian systems: numerical experiments. (English summary) **93j:65131**

Sagitov, M. S. A modification of the Schur method for solving the matrix algebraic Riccati equation. (Russian) **93m:65115**

Sanz-Serna, J. M. Symplectic Runge-Kutta and related methods: recent results. (English summary) **93j:65132**

Skeel, Robert D. (*with* Gear, C. W.) Does variable step size ruin a symplectic integrator? (English summary) **93j:65133**

Tak, T. O. *see* **Yen, Jeng; et al., 93a:65110**

Tang, Yi Fa The symplecticity of multi-step methods. (English summary) **93m:65116**

van Veldhuizen, M. Approximation of the invariant manifold in the Josephson equation. **93b:65122**

Walshaw, C. H. *see* **Duncan, Dugald B.; et al., (93e:00025)**

Wattis, J. A. D. *see* **Duncan, Dugald B.; et al., (93e:00025)**

Willé, David R. (*with* Baker, Christopher T. H.) The tracking of derivative discontinuities in systems of delay-differential equations. **93a:65109**

Yen, Jeng (*with* Haug, Edward J.; Tak, T. O.) Numerical methods for constrained equations of motion in mechanical system dynamics. **93a:65110**

Items with secondary classifications in 65L99

Ablowitz, Mark J. *see* **Herbst, Ben M., 93m:65120**

Adams, Ernst Wilhelm The reliability question for discretizations of evolution problems. **93k:65067**

Asaithambi, N. S. (*with* Garner, J. B.) Taylor series solution of a class of diffusion problems in physiology. (English summary) **93g:92009**

Aston, P. J. (*with* Spence, A.; Wu, Wei[1]) Bifurcation to rotating waves in equations with O(2)-symmetry. **93e:58025**

Burrows, B. L. (*with* Cohen, Maurice; Feldmann, Tova) Lower bounds for quartic anharmonic and double-well potentials. (English summary) **93k:81034**

Chen, Y. (*with* Rokhlin, Vladimir V.) On the inverse scattering problem for the Helmholtz equation in one dimension. **93c:34034**

Cohen, Maurice *see* **Burrows, B. L.; et al., 93k:81034**

ten Dam, A. A. Stable numerical integration of dynamical systems subject to equality state-space constraints. **93c:70002**

Dargeiko, M. M. *see* **Gorin, V. V., 93g:00020**

De Groote, M. *see* **Van Dooren, R.; et al.**

Dietrich, Volker ELISE, an algorithm to compute asymptotic representations for solutions of linear differential equations, realized with the computer algebra system MAPLE. (English summary) **93f:34002**

Feldmann, Tova *see* **Burrows, B. L.; et al., 93k:81034**

Feng, Jian Feng (*with* Lei, Gong Yan; Qian, Min Ping) Second-order methods for solving stochastic differential equations. (English summary) **93j:60074**

Ferrándiz Leal, José Manuel (*with* Vigo, Jesús) Precise numerical integration of long-term perturbed oscillators. (Spanish. Spanish summary) (*see* **93j:00009**)

de Frutos, Javier (*with* Sanz-Serna, J. M.) An easily implementable fourth-order method for the time integration of wave problems. (English summary) **93h:65117**

Fryska, Slawomir T. (*with* Zohdy, Mohamed A.) Computer dynamics and shadowing of chaotic orbits. **93d:58081**

Galiev, V. I. (*with* Polupanov, A. F.; Shparlinskiĭ, I. E.) On the construction of solutions of systems of linear ordinary differential equations in the neighbourhood of a regular singularity. **93a:34010**

Garner, J. B. *see* **Asaithambi, N. S., 93g:92009**

Golec, J. (*with* Ladde, G. S.) On an approximation method for a class of stochastic singularly perturbed systems. (English summary) **93j:60076**

Gorin, V. V. (*with* Dargeiko, M. M.) Investigation of the feasibility of calculating the motion of a dynamic system without loss of accuracy. (Russian. English summary) **93g:00020**

Gouesbet, G. Reconstruction of vector fields: the case of the Lorenz system. (English summary) **93f:34077**

Grebogi, Celso *see* **Shinbrot, Troy; et al., 93f:58158**

Gross, Beate Verification of asymptotic stability for interval matrices and applications in control theory. (English summary) **93k:93083**

Hale, Jack K. Dynamics and numerics. **93d:58091**

Hastings, Stuart P. (*with* Troy, William C.) A shooting approach to the Lorenz equations. **93f:58150**

Herbst, Ben M. (*with* Ablowitz, Mark J.) Numerical chaos, symplectic integrators, and exponentially small splitting distances. (English summary) **93m:65120**

Hockett, Kevin Numerical dynamics of ordinary differential equations with singularity. **93d:58099**

in 't Hout, K. J. A new interpolation procedure for adapting Runge-Kutta methods to delay differential equations. (English summary) **93j:65115**

Huseyin, K. *see* **Wang, S., 93g:65007**

Janssen, Hugo Leonard *see* **Van Dooren, R.; et al.**

Jolicard, Georges *see* **Killingbeck, John P., 93k:81005**

Jorba, Àngel Effective reducibility of quasiperiodic linear systems. (Spanish. Spanish summary) (*see* **93j:00009**)

Karandikar, Rajeeva L. On almost sure convergence of modified Euler-Peano approximation of solution to an S.D.E. driven by a semimartingale. **93j:60078**

Keller, Herbert B. A numerical approach to Hilbert's sixteenth problem. **93d:34052**

Khibnik, A. I. (*with* Kuznetsov, Yuriĭ Aleksandrovich; Levitin, V. V.; Nikolaev, Eugene V.) Continuation techniques and interactive software for bifurcation analysis of ODEs and iterated maps. (English summary) **93k:58169**

Killingbeck, John P. (*with* Jolicard, Georges) Two simple eigenvalue shooting algorithms. (English summary) **93k:81005**

Krapivina, A. A. A method for solving real linear homogeneous second-order differential equations on an infinite interval. (Russian) **93d:34020**

Kuznetsov, Yuriĭ Aleksandrovich *see* **Khibnik, A. I.; et al., 93k:58169**

Kwapisz, Marian Some remarks on an integral equation arising in applications of numerical-analytic method of solving of boundary value problems. (English, Russian and Ukrainian summaries) **93g:65167**

Ladde, G. S. *see* **Golec, J., 93j:60076**

Lassoued, Leïla (*with* Mathlouthi, Salem) A numerical method for finding homoclinic orbits of Hamiltonian systems. **93e:65081**

Lei, Gong Yan *see* **Feng, Jian Feng; et al., 93j:60074**

Levitin, V. V. *see* **Khibnik, A. I.; et al., 93k:58169**

Lewanowicz, S. A new approach to the problem of constructing recurrence relations for the Jacobi coefficients. **93d:33006**

Mathlouthi, Salem *see* **Lassoued, Leïla, 93e:65081**

Melek, Soad Z. On the successive approximate solutions of the differential equation $Y'' - (x + ax^5)y = 0$. (English and Arabic summaries)

Miari, Massimo Extended Lorenz system: a qualitative analysis. **93c:58194**

Midy, P. Computer-assisted reduction of second order linear differential equations. (English and German summaries) **93i:34004**

Nikolaev, Eugene V. *see* **Khibnik, A. I.; et al., 93k:58169**

Ott, Edward *see* **Shinbrot, Troy; et al., 93f:58158**

Pettersson, Roger Stratonovich-Taylor expansion and numerical methods. (English summary) **93k:60150**

Polupanov, A. F. *see* **Galiev, V. I.; et al., 93a:34010**

Qian, Min Ping *see* **Feng, Jian Feng; et al., 93j:60074**

Ran, André C. M. Unitary solutions of a class of algebraic Riccati equations and factorization. **93f:93057**

Rokhlin, Vladimir V. *see* **Chen, Y., 93c:34034**

Sanz-Serna, J. M. *see* **de Frutos, Javier, 93h:65117**

Shao, Xiu Min (*with* Yuan, Zhong Min) On the relation between an inverse problem for a system of ordinary differential equations and an initial-boundary value problem for a hyperbolic system. **93c:34039**

Shevchenko, A. V. *see* **Zadorozhnyi, V. F., 93f:34079**

Shinbrot, Troy (*with* Grebogi, Celso; Ott, Edward; Yorke, James A.) Using chaos to target stationary states of flows. (English summary) **93f:58158**

Shparlinskiĭ, I. E. *see* **Galiev, V. I.; et al., 93a:34010**

Spence, A. *see* **Aston, P. J.; et al., 93e:58025**

Spigler, Renato (*with* Vianello, Marco) WKBJ-type approximation for finite moments perturbations of the differential equation $y'' = 0$ and the analogous difference equation. (English summary) **93f:34089**

Troy, William C. *see* **Hastings, Stuart P., 93f:58150**

Van Dooren, R. (*with* De Groote, M.; Janssen, Hugo Leonard) Numerical evidence of Feigenbaum's number δ in nonlinear oscillations.

Vel'ov, V. M. Parametric and functional uncertainties in dynamic systems: local and global relationship. (English summary) **93m:93008**

Vianello, Marco *see* **Spigler, Renato, 93f:34089**

Vigo, Jesús *see* **Ferrándiz Leal, José Manuel, (93j:00009)**

Wang, S. (*with* Huseyin, K.) "Maple" analysis of nonlinear oscillations. (English summary) **93g:65007**

Wu, Wei[1] *see* **Aston, P. J.; et al., 93e:58025**

Yen, Jeng Constrained equations of motion in multibody dynamics as ODEs on manifolds. (English summary) **93m:70002**

Yorke, James A. *see* **Shinbrot, Troy; et al., 93f:58158**
Yuan, Zhong Min *see* **Shao, Xiu Min, 93c:34039**
Zadorozhnyi, V. F. (*with* Shevchenko, A. V.) Complex motions of mechanical systems and a computational process. (Russian. English summary) **93f:34079**
Zohdy, Mohamed A. *see* **Fryska, Slawomir T., 93d:58081**
Zubov, S. V. On a procedure for determining the kinetic parameters of multistage dynamic processes. (Russian) **93a:34045**

65Mxx Partial differential equations, initial value and time-dependent initial-boundary value problems

Kreiss, Heinz-Otto Problems with different time scales. **93e:65111**

Items with secondary classifications in 65Mxx

(Broomhead, D. S.) *see* **Dynamics of numerics and the numerics of dynamics, 93b:65004**
(Chan, Tony F. C.) *see* **Proceedings: Conference on Scientific Computation, 93d:65004**
(Guo, Ben Yu) *see* **Numerical methods for partial differential equations, 93b:65006**
(Iserles, Arieh) *see* **Dynamics of numerics and the numerics of dynamics, 93b:65004**
Karchevskii, M. M. (*with* Lyashko, A. D.; Pavlova, M. F.) ★ Методы вычислений: численные методы решения дифференциальных уравнений. (Russian) [Computational methods: numerical methods for solving differential equations] **93a:65001**
Korbicz, Józef (*with* Zajda, Zbigniew; Solnik, Włodzimierz; Uciński, Dariusz) ★ Wybrane metody numerycznego rozwiązywania równań różniczkowych cząstkowych. (Polish) [Selected methods for the numerical solution of partial differential equations] **93e:65001**
Lyashko, A. D. *see* **Karchevskii, M. M.; et al., 93a:65001**
Moore, D. R. (*with* Weiss, N. O.) Sensitivity of bifurcations to discretization. **93d:35014**
(Natori, Makoto) *see* **Parallel processing for scientific computing, 93f:65027**
(Nodera, T.) *see* **Parallel processing for scientific computing, 93f:65027**
Pavlova, M. F. *see* **Karchevskii, M. M.; et al., 93a:65001**
(Shi, Zhong Ci) *see* **Proceedings: Conference on Scientific Computation, 93d:65004**
Solnik, Włodzimierz *see* **Korbicz, Józef; et al., 93e:65001**
Temam, Roger General methods for approximating inertial manifolds. Applications to computing. **93d:58151**
Uciński, Dariusz *see* **Korbicz, Józef; et al., 93e:65001**
Weiss, N. O. *see* **Moore, D. R., 93c:35014**
(Ying, Long An) *see* **Numerical methods for partial differential equations, 93b:65006**
Zajda, Zbigniew *see* **Korbicz, Józef; et al., 93e:65001**

Items listed otherwise than by author

Bristol ★ The dynamics of numerics and the numerics of dynamics. **93b:65004**
Conference:
Dynamics of Numerics and Numerics of Dynamics ★ The dynamics of numerics and the numerics of dynamics. **93b:65004**
Numerical Methods for Partial Differential Equations ★ Numerical methods for partial differential equations. **93b:65006**
Scientific Computation ★ Proceedings of International Conference on Scientific Computation. **93d:65004**
Dynamics of numerics and the numerics of dynamics ★ The dynamics of numerics and the numerics of dynamics. **93b:65004**
Extrapolation and defect correction ★ Extrapolation and defect correction. **93d:65003**
Hangzhou ★ Proceedings of International Conference on Scientific Computation. **93d:65004**
Numerical methods for partial differential equations ★ Numerical methods for partial differential equations. **93b:65006**
Parallel processing for scientific computing ★ Parallel processing for scientific computing. (Japanese) **93f:65027**
Proceedings:
Conference on Scientific Computation ★ Proceedings of International Conference on Scientific Computation. **93d:65004**
Seminar:
Extrapolation and Defect Correction in Finite Element Methods ★ Extrapolation and defect correction. **93d:65003**
Symposium:
PCG (Preconditioned Conjugate Gradients) ★ Parallel processing for scientific computing. (Japanese) **93f:65027**
Tianjin ★ Numerical methods for partial differential equations. **93b:65006**
Yokohama ★ Parallel processing for scientific computing. (Japanese) **93f:65027**

65M06 Finite difference methods

Ablowitz, Mark J. *see* **Herbst, Ben M., 93m:65120**
Adams, Ernst Wilhelm The reliability question for discretizations of evolution problems. **93k:65067**
— *see also* **Ames, William F.; et al., 93h:65110**
Akrivis, Georgios D. (*with* Dougalis, Vassilios A.) Finite difference discretization with variable mesh of the Schrödinger equation in a variable domain. **93a:65111**
— Finite difference discretization of the Kuramoto-Sivashinsky equation. (English summary) **93g:65108**
Ames, William F. (*with* Postell, F. V.; Adams, Ernst Wilhelm) Optimal numerical algorithms. **93h:65110**
Amitai, Dganit (*with* Averbuch, Amir; Itzikowitz, Samuel; Israeli, Moshe) Parallel adaptive and time-stabilizing schemes for constant-coefficient parabolic PDEs. (English summary)
Averbuch, Amir *see* **Amitai, Dganit; et al.**
Bakaev, N. Yu. On a class of difference schemes for the heat equation. (Russian. Russian summary) (*see* **93m:00017**)
— A multistep difference method for parabolic equations. (Russian) **93d:65074**
Bayarunas, Eitvidas (*with* Čiegis, Raimondas) Adaptive difference schemes for nonstationary one-dimensional problems. (Russian. English and Lithuanian summaries) **93b:65123**
Beam, Richard M. *see* **Warming, Robert F., (93b:76002)**
Behravesh, A. (*with* Davaran, A.; Kaveh, A.) A finite difference scheme with variable rectilinear mesh for solving multi-harmonic partial differential equations. (English summary) **93f:65063**
Bileka, B. D. *see* **Dyban, E. P.; et al., (93e:00021)**
Boisson, H. C. *see* **Spiteri, P., 93m:65126**
Chen, Chuan Dan Stability criteria of multiple nesting grid difference methods for hyperbolic initial-boundary value problems. (English summary) (*see* **93d:65004**)
— (*with* Lin, Qun) The Lax equivalence theorem for nonlinear multilevel difference schemes. (Chinese. English summary) **93d:65075**
Chulik, I. I. *see* **Kuzik, A. M.**
Čiegis, Raimondas A study of difference schemes for a class of models of excitability. (Russian) **93d:65076**
— *see also* **Bayarunas, Eitvidas, 93b:65123**
Cohen, Gary (*with* Joly, Patrick) Fourth order schemes for the heterogeneous acoustics equation. (*see* **93d:65005**)
Dai, Wei Zhong An unconditionally stable three-level explicit difference scheme for the Schrödinger equation with a variable coefficient. **93a:65112**
Davaran, A. *see* **Behravesh, A.; et al., 93f:65063**
Davis, Malcolm E. *see* **Luty, Brock A.; et al., 93g:65109**
De Biase, L. *see* **Pennati, V.; et al., 93h:65113**
Dougalis, Vassilios A. *see* **Akrivis, Georgios D., 93a:65111**
Douglas, Jim, Jr. (*with* Paes-Leme, P. J.) Finite difference methods for a model for immiscible displacement in naturally fractured petroleum reservoirs. (English and Portuguese summaries) **93i:65084**
Drits, V. V. Methods for constructing conservative difference schemes for nonlinear quasi-optic problems. (Russian) **93b:65124**
— Conservative difference schemes in problems of nonlinear optics. II. (Russian. Russian summary) **93j:65134**
Du, Ming Sheng *see* **Zhou, Yu Lin, (93b:65006)**
Dyban, E. P. (*with* Bileka, B. D.; Kabkov, V. Ja.) Local one-dimensional method for solving parabolic equations in thermal conductivity process modeling and boundary condition identification problems. (English summary) (*see* **93e:00021**)
Dzyuba, I. A. On a class of difference schemes of the multicomponent method of variable directions of the second order of approximation with respect to time. (Russian. Russian summary) **93k:65068**
El-Deen Mohamedein, M. Sh. *see* **Iskandar, Labib, 93b:65126**
Ewing, Richard E. (*with* Lazarov, R. D.; Vassilevski, Panayot S.) Finite difference schemes on grids with local refinement in time and in space for parabolic problems. Optimal order two-grid iterative methods. **93a:65113**
— *see also* **Lin, Tao, 93k:65070**
Feraudi, F. *see* **Pennati, V.; et al., 93h:65113**
Glaister, P. Second order accurate upwind difference schemes for scalar conservation laws with source terms. (English summary) **93m:65117**
Glassey, Robert (*with* Horst, Ernst; Lenard, Andrew; Schaeffer, Jack W.) On the inverse of the discrete two-dimensional wave operator at CFL. **93k:65069**
Gottlieb, J. J. *see* **Hawken, D. F.; et al., 93m:65119**
Griffiths, D. F. (*with* Stuart, A. M.; Yee, H. C.) Numerical wave propagation in an advection equation with a nonlinear source term. (English summary) **93h:65111**
— *see also* **Yee, H. C.; et al., (93e:76002)**
Hansen, J. S. *see* **Hawken, D. F.; et al., 93m:65119**
Harabetian, Eduard (*with* Pego, Robert L.) Nonconservative hybrid shock capturing schemes. (English summary) **93m:65118**
Hawken, D. F. (*with* Hansen, J. S.; Gottlieb, J. J.) A new finite-difference solution-adaptive method. (English summary) **93m:65119**
Henley, Gregory J. (*with* Janus, J. Mark) Parallelization and convergence of a 3D implicit unsteady turbomachinery flow code. (English summary) (*see* **93g:65178**)
Herbst, Ben M. (*with* Ablowitz, Mark J.) Numerical chaos, symplectic integrators, and exponentially small splitting distances. (English summary) **93m:65120**
Herman, R. L. (*with* Knickerbocker, C. J.) Numerically induced phase shift in the KdV soliton. (English summary)
Horst, Ernst *see* **Glassey, Robert; et al., 93k:65069**
Hou, Thomas Y. (*with* Wetton, Brian T. R.) Convergence of a finite difference scheme for the Navier-Stokes equations using vorticity boundary conditions. **93b:65125**
Hua, Xue Jiao *see* **Li, Rong Hua, (93b:65006)**
Iskandar, Labib (*with* El-Deen Mohamedein, M. Sh.) Solitary waves interaction for the BBM equation. **93b:65126**
Israeli, Moshe *see* **Amitai, Dganit; et al.**
Itzikowitz, Samuel *see* **Amitai, Dganit; et al.**
Ivanauskas, Feliksas Convergence and stability of difference schemes for nonlinear equations of Schrödinger type. (Russian. English and Lithuanian summaries) **93b:65127**
Janus, J. Mark *see* **Henley, Gregory J., (93g:65178)**
Jeltsch, Rolf (*with* Smit, Jacobus Hendrik) ★ Barriers to the accuracy of explicit three-time-level difference schemes for hyperbolic equations. (English. English and Afrikaans summaries) **93m:65121**
Joly, Patrick *see* **Cohen, Gary, (93d:65005)**
Jones, Don A. *see* **Margolin, L. G., 93i:65085**
Kabkov, V. Ja. *see* **Dyban, E. P.; et al., (93e:00021)**
Kalis, Harijs Edmunds On a special difference approximation of a nonselfadjoint differential equation of heat conduction in curvilinear orthogonal coordinates. (Russian. English, Russian and Latvian summaries) (*see* **93d:00035**)
Kamel, Aladin H. *see* **Sguazzero, P.; et al., (93d:65005)**
Kaveh, A. *see* **Behravesh, A.; et al., 93f:65063**
Khaliq, A. Q. M. (*with* Twizell, E. H.; Voss, D. A.) On parallel algorithms for semidiscretized parabolic partial differential equations based on subdiagonal Padé approximations. (English summary) **93m:65122**
Kindelan, M. *see* **Sguazzero, P.; et al., (93d:65005)**
Knickerbocker, C. J. *see* **Herman, R. L.**
Korobitsyn, V. A. Completely conservative axisymmetric difference schemes in curvilinear orthogonal coordinate systems. (Russian) **93b:65128**
Kulikov, S. I. (*with* Nesterenko, A. I.; Nesterenko, N. G.) Solution of the two-dimensional

Stefan problem in a multiply connected domain. (Russian. Russian summary) **93m:65123**

Kuzik, A. M. (*with* Chulik, I. I.) Construction and investigation of locally one-dimensional difference schemes in a class of generalized functions. (Ukrainian. Russian summary)

Lazarov, R. D. *see* **Ewing, Richard E.; et al., 93a:65113**

Lenard, Andrew *see* **Glassey, Robert; et al., 93k:65069**

Li, Rong Hua (*with* Hua, Xue Jiao) Generalized upwind difference methods for convection-dominated diffusion problems. (*see* **93b:65006**)

Li, Yi[1] A class of three-level explicit difference schemes. (English summary) **93h:65112**

— (*with* Li, Yi[5]) Absolutely stable difference schemes for the evolution equation $u_t = au_p$. (Chinese. English summary) **93b:65129**

— (*with* Wang, Hong Chuan) Eight-point explicit difference schemes for the dispersive equation $u_t = au_{xxx}$. (Chinese. English and Chinese summaries)

Li, Yi[5] *see* **Li, Yi[1], 93b:65129**

Lin, Qun *see* **Chen, Chuan Dan, 93d:65075**

Lin, Tao (*with* Ewing, Richard E.) Direct numerical method for an inverse problem of hyperbolic equations. (English summary) **93k:65070**

— Physical and numerical interfaces in the numerical simulation of wave propagations. (English summary) **93m:65124**

López Marcos, J. C. A Crank-Nicolson scheme for Hodgkin-Huxley equations. (Spanish) **93j:65135**

Luo, Zhen Ou A more accurate algorithm of convection-diffusion equations. **93m:65125**

Luty, Brock A. (*with* Davis, Malcolm E.; McCammon, J. Andrew) Solving the finite-difference nonlinear Poisson-Boltzmann equation. (English summary) **93g:65109**

Mao, De Kang A treatment of discontinuities for finite difference methods. (English summary) **93j:65136**

Margolin, L. G. (*with* Jones, Don A.) An approximate inertial manifold for computing Burgers' equation. (English summary) **93i:65085**

Matus, P. P. (*with* Stanishevskaya, L. V.) Unconditional convergence of difference schemes for nonstationary quasilinear equations of mathematical physics. (Russian) **93a:65114**

— On the construction of difference schemes for multidimensional parabolic equations on adaptive-time grids. (Russian. Russian summary) **93k:65071**

McCammon, J. Andrew *see* **Luty, Brock A.; et al., 93g:65109**

Mel'nik, V. N. (*with* Moskal'kov, M. N.) Difference schemes and the analysis of approximate solutions for two-dimensional nonstationary problems of coupled electro-elasticity. (Russian) **93a:65115**

— On the exactness of a difference scheme for solving a nonstationary problem of coupled thermoelasticity in stresses. (Russian. Russian summary) **93f:65064**

Mickens, Ronald E. A new finite-difference scheme for Schrödinger type partial differential equations. (English summary) (*see* **93j:76002**)

Moskal'kov, M. N. *see* **Mel'nik, V. N., 93a:65115**

Nagoya, Seiichiro (*with* Ushijima, Teruo) L^2-stability analysis for the convection diffusion difference problems. (Japanese. English summary) (*see* **93f:65027**)

Nesterenko, A. I. *see* **Kulikov, S. I.; et al., 93m:65123**

Nesterenko, N. G. *see* **Kulikov, S. I.; et al., 93m:65123**

Ostapenko, V. V. Increasing the order of approximation of difference schemes on discontinuous solutions. (Russian. Russian summary) **93c:65104**

Paes-Leme, P. J. *see* **Douglas, Jim, Jr., 93i:65084**

Pego, Robert L. *see* **Harabetian, Eduard, 93m:65118**

Pennati, V. (*with* De Biase, L.; Feraudi, F.) A generalized finite-difference solution of parabolic 3-D problems of multi-connected regions. (English summary) **93h:65113**

Pershin, I. V. (*with* Titov, V. A.; Shishkin, G. I.) Approximation of solutions of parabolic equations with a rapidly moving source. (Russian. Russian summary) (*see* **93f:93004**)

Pliś, Andrzej Convex second order approximations for a quasi-linear partial differential equation of the first order. (English summary) **93g:65110**

Postell, F. V. *see* **Ames, William F.; et al., 93h:65110**

Radvogin, Yu. B. Quasimonotone multidimensional second-order difference schemes. (Russian) **93a:65116**

— A method for constructing difference schemes to solve stiff systems of hyperbolic equations. (Russian) **93c:65105**

Ragimova, T. A. *see* **Rasulov, M. A., 93i:65086**

Rasulov, M. A. (*with* Ragimova, T. A.) A numerical method for solving a nonlinear first-order equation of hyperbolic type. (Russian. Russian summary) **93i:65086**

Renaut, Rosemary A. (*with* Smit, Jacobus Hendrik) Order stars and the maximal accuracy of stable difference schemes for the wave equation. (English summary) **93i:65087**

Roe, Philip L. (*with* Sidilkover, David) Optimum positive linear schemes for advection in two and three dimensions. (English summary) **93j:65137**

Sadykov, M. K. An explicit difference scheme for solving a system of quasi-three-dimensional parabolic equations. (Russian. Russian summary)

Samarskiĭ, A. A. (*with* Vabishchevich, P. N.) Regularized difference schemes for equations with nonselfadjoint operators. (Russian. English and Russian summaries) **93f:65066**

— (*with* Vabishchevich, P. N.) Regularized difference schemes for evolutionary second order equations. (English summary) **93f:65065**

Schaeffer, Jack W. *see* **Glassey, Robert; et al., 93k:65069**

Schatzman, Michelle Retrieving information from oscillating approximations to the advection equation. (French summary) **93g:65111**

Schoombie, S. W. A discrete multiple scales analysis of a discrete version of the Korteweg-de Vries equation. **93a:65117**

Sguazzero, P. (*with* Kindelan, M.; Kamel, Aladin H.) Dispersion-bounded numerical integration of the elastodynamic equations with cost-effective staggered schemes. (English summary) (*see* **93d:65005**)

Sha, Zhen *see* **Wang, Xiang, 93a:65119**

Shishkin, G. I. *see* **Pershin, I. V.; et al., (93f:93004)**

Sidilkover, David *see* **Roe, Philip L., 93j:65137**

Skobelev, B. Yu. (*with* Vorozhtsov, E. V.) Stability analysis of difference schemes by catastrophe theory methods. (English summary) **93k:65072**

Smirnov, A. P. *see* **Zaĭtsev, F. S., (93f:00006)**

Smit, Jacobus Hendrik *see* **Renaut, Rosemary A., 93i:65087** *and* **Jeltsch, Rolf, 93m:65121**

Sonar, Th. Entropy production in second-order three-point schemes. **93f:65067**

— On the design of an upwind scheme for compressible flow on general triangulations. (English summary) **93k:65073**

Spiteri, P. (*with* Boisson, H. C.) Subdomain predictor-corrector algorithms for solving the incompressible Navier-Stokes equation. (English summary) **93m:65126**

Stanishevskaya, L. V. *see* **Matus, P. P., 93a:65114**

Stuart, A. M. *see* **Griffiths, D. F.; et al., 93h:65111**

Subba Rao, V. (*with* Zahran, Yousef H.) A finite difference method for hyperbolic equations. **93c:65106**

Sun, Che *see* **You, Tong Shun, 93a:65120**

Sweby, P. K. *see* **Yee, H. C.; et al., (93e:76002)**

Titov, V. A. *see* **Pershin, I. V.; et al., (93f:93004)**

Trombert, R. A. *see* **Verwer, J. G., (93b:65005)**

Tveito, Aslak (*with* Winther, Ragnar) An error estimate for a finite difference scheme approximating a hyperbolic system of conservation laws. (English summary) **93m:65127**

Twizell, E. H. *see* **Khaliq, A. Q. M.; et al., 93m:65122**

Uko, Livinus Ugochukwu The proximal correction method for discretization of parabolic variational inequalities. **93e:65112**

Ushijima, Teruo *see* **Nagoya, Seiichiro, (93f:65027)**

Vabishchevich, P. N. *see* **Samarskiĭ, A. A., 93f:65065** *and* **93f:65066**

Vabishchevich, S. I. Efficient difference methods for a reaction-diffusion type model. (Russian. Russian summary) **93m:65128**

Vanaja, V. Numerical solution of a simple Fokker-Planck equation. **93b:65130**

Varnhorn, Werner Time delay and finite differences for the nonstationary nonlinear Navier-Stokes equations. **93a:65118**

Vassilevski, Panayot S. *see* **Ewing, Richard E.; et al., 93a:65113**

Verwer, J. G. (*with* Trombert, R. A.) Analysis of an adaptive finite-difference method for time dependent PDEs. (*see* **93b:65005**)

Vorozhtsov, E. V. *see* **Skobelev, B. Yu., 93k:65072**

Voss, D. A. *see* **Khaliq, A. Q. M.; et al., 93m:65122**

Wang, Guo Ying (*with* Wu, Zhao Jin) A variational-difference method for solving singular perturbation problems for parabolic partial differential equations. (Chinese. English and Chinese summaries) **93j:65138**

Wang, Hong Chuan *see* **Li, Yi[1]**

Wang, Xiang (*with* Sha, Zhen) The bivariate spline approximate solution to the hyperbolic equations with variable coefficients. **93a:65119**

Warming, Robert F. (*with* Beam, Richard M.) An eigenvalue analysis of finite-difference approximations for hyperbolic IBVPs. (*see* **93b:76002**)

Wetton, Brian T. R. *see* **Hou, Thomas Y., 93b:65125**

Winther, Ragnar *see* **Tveito, Aslak, 93m:65127**

Worley, Patrick H. Parallelizing across time when solving time-dependent partial differential equations. (English summary) (*see* **93g:65178**)

Wu, Zhao Jin *see* **Wang, Guo Ying, 93j:65138**

Yee, H. C. (*with* Sweby, P. K.; Griffiths, D. F.) A study of spurious asymptotic numerical solutions of nonlinear differential equations by the nonlinear dynamics approach. (English summary) (*see* **93e:76002**)

— *see also* **Griffiths, D. F.; et al., 93h:65111**

You, Tong Shun (*with* Sun, Che) The characteristic-difference methods for some nonlinear convection-diffusion problem. **93a:65120**

Zahran, Yousef H. *see* **Subba Rao, V., 93c:65106**

Zaĭtsev, F. S. (*with* Smirnov, A. P.) Difference schemes for a two-dimensional kinetic equation with a Coulomb collision operator. (Russian. Russian summary) (*see* **93f:00006**)

Zhang, Bao Lin[1] An alternating segment explicit-implicit method for solving the diffusion equation. (Chinese. English summary) **93d:65077**

Zhou, Yu Lin (*with* Du, Ming Sheng) Difference method for fully nonlinear pseudo-parabolic systems. (*see* **93b:65006**)

Zlotnik, A. A. A two-layer projection-difference method with a splitting operator for the wave equation. (Russian) **93c:65107**

— Lower bounds for the error of three-layer difference methods for solving the wave equation with data in Hölder spaces. (Russian)

Items with secondary classifications in 65M06

Alouges, François An energy-decreasing algorithm for harmonic map. (English summary) **93f:58040**

Asaithambi, N. S. A numerical method for an inhomogeneous nonlinear diffusion problem. **93d:65087**

Auzinger, W. Error structures and extrapolation in time for parabolic problems. (English summary) **93g:65116**

Bermúdez de Castro, Alfredo (*with* Vázquez Cendón, Ma. Elena) Extension of some upwind schemes to generalized conservation laws. (Spanish. English summary) (*see* **93j:00009**)

Cao, Wei Ming *see* **Guo, Ben Yu; et al., 93d:76048**

Chalabi, Abdallah Stable upwind schemes for hyperbolic conservation laws with source terms. **93c:65108**

Chan, Raymond H. *see* **Jin, Xiao-Qing, 93j:65066**

Chen, Chuan Dan Stability of multiple nesting grid difference methods for hyperbolic partial differential equations. (Chinese. English and Chinese summaries) **93h:65115**

Chou, Mo Hong An efficient scheme for unsteady flow past an object with boundary conformal to a circle. **93b:65053**

Čiegis, Raimondas (*with* Čiegis, Rem.) A study of spectral stability for efficient difference schemes. (Russian. English and Lithuanian summaries) **93b:65132**

— Convergence in the C-norm of solutions of difference schemes for a nonlinear nonstationary problem of diffusion-reaction type. (Russian. Russian summary) **93m:65130**

Čiegis, Rem. *see* **Čiegis, Raimondas, 93b:65132**

Daoudi, E. M. (*with* Manneback, P.) Parallel ICCG algorithm on distributed memory architecture. (English summary) (*see* **93g:65178**)

Devdariani, M. T. *see* **Goncharov, A. L.; et al., 93b:76024**

Dey, S. K. A massively parallel algorithm for large-scale nonlinear computation with applications to nonlinear parabolic partial differential equations. (English summary) **93m:65068**

Doedel, Eusebius (*with* Keller, Herbert B.; Kernévez, Jean-Pierre) Numerical analysis and control of bifurcation problems. II. Bifurcation in infinite dimensions. **93c:34001b**

Dzhgamadze, N. O. (*with* Popov, A. V.) Convergence of a difference scheme for two-dimensional equations of gas dynamics. (Russian) **93i:76074**
Dzyuba, I. A. Difference schemes of the multicomponent method of variable directions for the solution of problems in elasticity theory. (Russian) **93b:73038**
Fedotova, Z. I. *see* **Shokin, Yu. I.; et al., 93j:65140**
Fryazinov, I. V. *see* **Goncharov, A. L.; et al., 93b:76024**
Fujino, Seiji (*with* Zhang, Shao Liang) Visualization of convergence behavior of Bi-CG STAB method. II. (Japanese. English summary) (*see* **93f:65027**)
— *see also* **Zhang, Shao Liang; et al., (93e:65040)**
Glaister, P. An efficient Riemann solver for unsteady flows with nonideal gases. **93e:76053**
Goncharov, A. L. (*with* Devdariani, M. T.; Prostomolotov, A. I.; Fryazinov, I. V.) Approximation and a numerical method for the solution of three-dimensional Navier-Stokes equations on orthogonal grids. (Russian. English summary) **93b:76024**
Guo, Ben Yu (*with* Ma, He Ping; Cao, Wei Ming; Huang, Hui) The Fourier-Chebyshev spectral method for solving two-dimensional unsteady vorticity equations. **93d:76048**
Hagmeijer, R. *see* **Spekreijse, S. P., (93b:76002)**
Han, Hou De (*with* Il'in, V. P.; Kellogg, R. B.; Yuan, Wei) Analysis of flow directed iterations. **93c:65048**
Hrgovčić, H. J. Discrete representations of the n-dimensional wave equation. **93e:39006**
Huang, Hui *see* **Guo, Ben Yu; et al., 93d:76048**
Il'in, V. P. *see* **Han, Hou De; et al., 93c:65048**
Ivanauskas, Feliksas A multiplicative estimate for the norm of a function in C in terms of the norms in L_2 and W_2^n, and the convergence of difference methods for nonlinear evolution equations. (Russian. English and Lithuanian summaries) **93b:46058**
Jin, Xiao-Qing (*with* Chan, Raymond H.) Circulant preconditioners for second order hyperbolic equations. (English summary) **93j:65066**
Joseph, K. T. (*with* Veerappa Gowda, G. D.) The Hamilton-Jacobi equation $V_t + |V_x| = 0$, in the quarter plane. **93f:35034**
Karamzin, Yu. N. (*with* Trofimov, V. A.; Zakharova, I. G.) Difference schemes for optical thermal blooming problems. (English summary) **93f:80002**
Keller, Herbert B. *see* **Doedel, Eusebius; et al., 93c:34001b**
Kellogg, R. B. *see* **Han, Hou De; et al., 93c:65048**
Kernévez, Jean-Pierre *see* **Doedel, Eusebius; et al., 93c:34001b**
Kozel, K. (*with* Vavřincová, M.) Finite volume solution of the Euler equations. (*see* **93b:65007**)
Kraaijevanger, J. F. B. M. Maximum norm contractivity of discretization schemes for the heat equation. **93a:65122**
Lele, Sanjiva K. Compact finite difference schemes with spectral-like resolution. (English summary) **93g:76086**
Lesaint, P. (*with* Pousin, J.) Error estimates for a nonlinear degenerate parabolic problem. **93a:35094**
LeVeque, Randall J. Cartesian grids and rotated difference methods for multi-dimensional flow. (English summary) **93g:65119**
Liska, R. Numerical code generation for finite difference schemes solving. (English summary) (*see* **93j:00007**)
Ma, He Ping *see* **Guo, Ben Yu; et al., 93d:76048**
Manneback, P. *see* **Daoudi, E. M., (93g:65178)**
Meurant, Gérard A. A domain decomposition method for parabolic problems. **93c:65113**
Ortega, Tomás (*with* Revilla Ramos, Miguel Ángel) Numerical solution of the Beck problem for a family of implicit methods. (Spanish. English summary) **93m:65133**
Ostapenko, V. V. Expansion of the difference solution on the front of a traveling shock wave. (Russian) **93h:76045**
Oyanagi, Yoshio *see* **Zhang, Shao Liang; et al., (93e:65040)**
Popov, A. V. *see* **Dzhgamadze, N. O., 93i:76074**
Pousin, J. *see* **Lesaint, P., 93a:35094**
Prostomolotov, A. I. *see* **Goncharov, A. L.; et al., 93b:76024**
Prządka, Katarzyna The finite difference method in partial differential-functional equations. **93h:65162**
Revilla Ramos, Miguel Ángel *see* **Ortega, Tomás, 93m:65133**
Roy Choudhury, S. Some results on the stability and dynamics of finite difference approximations to nonlinear partial differential equations. (English summary) **93m:65134**
Sanders, Richard (*with* Weiser, Alan) High resolution staggered mesh approach for nonlinear hyperbolic systems of conservation laws. **93f:65070**
Sanz-Serna, J. M. (*with* Stuart, A. M.) A note on uniform in time error estimates for approximations to reaction-diffusion equations. (English summary) **93g:65117**
Shao, Xiu Min (*with* Yuan, Zhong Min) On the relation between an inverse problem for a system of ordinary differential equations and an initial-boundary value problem for a hyperbolic system. **93c:34039**
Shokin, Yu. I. (*with* Urusov, A. I.; Fedotova, Z. I.) Differential representation and investigation of the stability of difference schemes. (Russian. Russian summary) **93j:65140**
Sofronov, I. L. Conditions for complete transparency on a sphere for a three-dimensional wave equation. (Russian) **93m:35121**
Spekreijse, S. P. (*with* Hagmeijer, R.) Derivation of a Roe scheme for an N-species chemically reacting gas in thermal equilibrium. (*see* **93b:76002**)
Stuart, A. M. *see* **Sanz-Serna, J. M., 93g:65117**
Tadmor, Eitan Total variation and error estimates for spectral viscosity approximations. **93d:35098**
Taha, Thiab R. A differential-difference equation for higher order nonlinear Schrödinger equation. (English summary) **93j:35165**
Trangenstein, John A. Analysis of a model and sequential numerical method for thermal reservoir simulation. (*see* **93b:76086**)
Trofimov, V. A. *see* **Karamzin, Yu. N.; et al., 93f:80002**
Tveito, Aslak (*with* Winther, Ragnar) Existence, uniqueness, and continuous dependence for a system of hyperbolic conservation laws modeling polymer flooding. **93a:35107**
Urusov, A. I. *see* **Shokin, Yu. I.; et al., 93j:65140**
Vavřincová, M. *see* **Kozel, K., (93b:65007)**
Vázquez Cendón, Ma. Elena *see* **Bermúdez de Castro, Alfredo, (93j:00009)**
Veerappa Gowda, G. D. *see* **Joseph, K. T., 93f:35034**
Voevodin, A. F. Stability and realization of Thom conditions for the Stokes difference boundary value problem. (Russian. Russian summary) **93j:76046**
Wang, Sheng (*with* Yang, Yi Song) Symmetric superconducting states in thin films. **93b:82088**
Weiser, Alan *see* **Sanders, Richard, 93f:65070**
Winther, Ragnar *see* **Tveito, Aslak, 93a:35107**
Wu, Xiong Hua Calculation of shocked one-dimensional flows by the bisection method. (English summary) (*see* **93d:65004**)
Yang, Yi Song *see* **Wang, Sheng, 93b:82088**
Yuan, Wei *see* **Han, Hou De; et al., 93c:65048**
Yuan, Zhong Min *see* **Shao, Xiu Min, 93c:34039**
Zakharova, I. G. *see* **Karamzin, Yu. N.; et al., 93f:80002**
Zhang, Shao Liang (*with* Fujino, Seiji; Oyanagi, Yoshio) Conjugate residual method for solving singular systems. (Japanese) (*see* **93e:65040**)
— *see also* **Fujino, Seiji, (93f:65027)**

65M12 Stability and convergence of numerical methods

Abrashin, V. N. (*with* Vabishchevich, S. I.) Efficient schemes for solving systems of evolution equations. (Russian) **93b:65131**
Altynnikova, L. A. *see* **Sklyar, S. N., 93i:65089**
Bellettini, Giovanni (*with* Paolini, M.; Verdi, Claudio) Convergence of discrete approximations to sets of prescribed mean curvature. (*see* **93k:00037**)
Belytschko, Ted (*with* Lu, Y. Y.) Convergence and stability analyses of multi-time step algorithm for parabolic systems. (English summary) **93h:65114**
Chalabi, Abdallah Stable upwind schemes for hyperbolic conservation laws with source terms. **93c:65108**
Champier, S. (*with* Gallouët, Thierry) Convergence d'un schéma décentré amont sur un maillage triangulaire pour un problème hyperbolique linéaire. (English and French summaries) [Convergence of an upwind uncentered scheme on a triangular mesh for a linear hyperbolic problem] **93m:65129**
Chan, Chiu Yeung (*with* Wong, Benedict M.) Computational error analysis of periodic solutions for singular semilinear parabolic problems. **93d:65078**
Chen, Chuan Dan Stability of multiple nesting grid difference methods for hyperbolic partial differential equations. (Chinese. English and Chinese summaries) **93h:65115**
Čiegis, Raimondas (*with* Čiegis, Rem.) A study of spectral stability for efficient difference schemes. (Russian. English and Lithuanian summaries) **93b:65132**
— Convergence in the C-norm of solutions of difference schemes for a nonlinear nonstationary problem of diffusion-reaction type. (Russian. Russian summary) **93m:65130**
Čiegis, Rem. *see* **Čiegis, Raimondas, 93b:65132**
Dement'ev, Aleksandr (*with* Ivanauskas, Feliksas) Convergence of a splitting scheme for a system of nonlinear nonstationary equations of Schrödinger type. (Russian. English and Lithuanian summaries) **93b:65133**
Désidéri, J.-A. *see* **Hemker, P. W.**
Devulder, Christophe (*with* Marion, Martine) A class of numerical algorithms for large time integration: the nonlinear Galerkin methods. **93d:65079**
Drobyshevich, V. I. (*with* Laevskiĭ, Yu. M.) An algorithm of solution of parabolic equations with different time-steps in subdomains. **93e:65113**
Fedotova, Z. I. *see* **Shokin, Yu. I.; et al., 93j:65140**
Flå, Tor A numerical energy conserving method for the DNLS equation. **93d:65080**
Furletov, D. G. *see* **Ionkin, N. I.; et al., 93m:65131**
Gallouët, Thierry *see* **Champier, S., 93m:65129**
García-Archilla, B. (*with* Mackenzie, J. A.) Supraconvergence analysis for a cell-vertex scheme for the convection-diffusion equation. (English summary) **93k:65074**
Griffiths, D. F. (*with* Mitchell, Andrew Ronald) Spurious behaviour and nonlinear instability in discretised partial differential equations. **93f:65068**
Guo, Ben Yu Generalized stability of discretization and its applications to numerical solutions of nonlinear partial differential equations. (Russian summary) **93e:65114**
Hemker, P. W. (*with* Désidéri, J.-A.) Convergence behaviour of defect correction for hyperbolic equations. (English summary)
Hoàng Văn Lai Splines and numerical solutions with an accuracy $O(h^3)$ for a hyperbolic differential-integral equation. **93b:65134**
Holden, Helge (*with* Risebro, Nils Henrik) A method of fractional steps for scalar conservation laws without the CFL condition. **93d:65081**
Hou, Thomas Y. (*with* Lowengrub, J.; Shelley, M. J.) The convergence of an exact desingularization for vortex methods. (English summary) **93k:65075**
Ionkin, N. I. (*with* Makarov, Vladimir Leonidovich; Furletov, D. G.) Stability and convergence in the C-norm of difference schemes for a parabolic equation with a nonlocal boundary condition. (Russian. Russian summary) **93m:65131**
Ivanauskas, Feliksas *see* **Dement'ev, Aleksandr, 93b:65133**
Jain, Padam Chand (*with* Shankar, Rama; Singh, T. V.) Cubic spline technique for solution of Burgers' equation with a semi-linear boundary condition. **93a:65121**
Kraaijevanger, J. F. B. M. Maximum norm contractivity of discretization schemes for the heat equation. **93a:65122**
Laevskiĭ, Yu. M. *see* **Drobyshevich, V. I., 93e:65113**
Lasiecka, Irena Convergence rates for the approximations of the solutions to algebraic Riccati equations with unbounded coefficients: case of analytic semigroups. (English summary) **93i:65088**
Lowengrub, J. *see* **Hou, Thomas Y.; et al., 93k:65075**
Lu, Jin Fu Upstream weighted schemes for unsteady convection-diffusion equations. (Chinese. English and Chinese summaries) **93m:65132**
Lu, Y. Y. *see* **Belytschko, Ted, 93h:65114**
Lubich, Ch. (*with* Ostermann, Alexander) Runge-Kutta methods for parabolic equations and convolution quadrature. **93d:65082**
Mackenzie, J. A. *see* **García-Archilla, B., 93k:65074**
Makarov, Vladimir Leonidovich *see* **Ionkin, N. I.; et al., 93m:65131**
Marion, Martine *see* **Devulder, Christophe, 93d:65079**
Mauceri Del Prete, Vincenza Convergence of vortex methods with pointwise evaluation. (Italian summary) **93g:65112**
Mitchell, Andrew Ronald *see* **Griffiths, D. F., 93f:65068**

Nessyahu, Haim (*with* Tadmor, Eitan) The convergence rate of approximate solutions for nonlinear scalar conservation laws. (English summary) **93j:65139**
Ortega, Tomás (*with* Revilla Ramos, Miguel Ángel) Numerical solution of the Beck problem for a family of implicit methods. (Spanish. English summary) **93m:65133**
Ostermann, Alexander *see* **Lubich, Ch., 93d:65082**
Paolini, M. *see* **Bellettini, Giovanni; et al., (93k:00037)**
Parvin, S. Numerical methods for the solution of mixed parabolic-hyperbolic system. **93b:65135**
Reddy, Satish C. (*with* Trefethen, Lloyd N.) Lax-stability of fully discrete spectral methods via stability regions and pseudo-eigenvalues. (English summary) **93e:65115**
Ren, Yuhe (*with* Russell, Robert D.) Moving mesh techniques based upon equidistribution, and their stability. (English summary) **93g:65113**
Revilla Ramos, Miguel Ángel *see* **Ortega, Tomás, 93m:65133**
Risebro, Nils Henrik *see* **Holden, Helge, 93d:65081**
Roy Choudhury, S. Some results on the stability and dynamics of finite difference approximations to nonlinear partial differential equations. (English summary) **93m:65134**
Russell, Robert D. *see* **Ren, Yuhe, 93g:65113**
Shankar, Rama *see* **Jain, Padam Chand; et al., 93a:65121**
Shelley, M. J. *see* **Hou, Thomas Y.; et al., 93k:65075**
Shokin, Yu. I. (*with* Urusov, A. I.; Fedotova, Z. I.) Differential representation and investigation of the stability of difference schemes. (Russian. Russian summary) **93j:65140**
Singh, T. V. *see* **Jain, Padam Chand; et al., 93a:65121**
Sklyar, S. N. (*with* Altynnikova, L. A.) Stability of approximations with respect to time in parabolic problems. (Russian. Russian summary) **93i:65089**
Tadmor, Eitan *see* **Nessyahu, Haim, 93j:65139**
Tarunin, E. L. Investigations on the stability of implicit schemes in variables using the Babenko-Gel'fand principle. (Russian. Russian summary)
Teng, Zhen Huan Particle method and its convergence for scalar conservation laws. **93g:65114**
Trefethen, Lloyd N. *see* **Reddy, Satish C., 93e:65115**
Turetaev, I. D. Investigation of finite-difference schemes for the Korteweg-de Vries equation. (Russian. Russian summary) **93g:65115**
Urusov, A. I. *see* **Shokin, Yu. I.; et al., 93j:65140**
Vabishchevich, S. I. *see* **Abrashin, V. N., 93b:65131**
Verdi, Claudio *see* **Bellettini, Giovanni; et al., (93k:00037)**
Voevodin, A. F. Stability and realization of implicit schemes for the Stokes equations. (Russian. Russian summary) **93j:65141**
Wang, Wen Qia A numerical method for parabolic equations with discontinuous coefficients and an analysis. (Chinese. English and Chinese summaries) **93h:65116**
Wong, Benedict M. *see* **Chan, Chiu Yeung, 93d:65078**
Zlotnik, A. A. Properties of the projection-difference method with a quasisplitting operator for second-order hyperbolic equations. (Russian) **93d:65083**

Items with secondary classifications in 65M12

Akrivis, Georgios D. (*with* Dougalis, Vassilios A.) Finite difference discretization with variable mesh of the Schrödinger equation in a variable domain. **93a:65111**
Álvarez León, Luis (*with* Lions, Pierre-Louis; Morel, Jean-Michel) Image selective smoothing and edge detection by nonlinear diffusion. II. **93a:35072**
Amitai, Dganit (*with* Averbuch, Amir; Itzikowitz, Samuel; Israeli, Moshe) Parallel adaptive and time-stabilizing schemes for constant-coefficient parabolic PDEs. (English summary)
Anderssen, Robert S. *see* **Scherzer, Otmar; et al., 93m:35185**
Averbuch, Amir *see* **Amitai, Dganit; et al.**
Bakaev, N. Yu. Estimates for the stability of difference schemes for a differential equation with a constant operator. II. (Russian) **93b:65080**
— A multistep difference method for parabolic equations. (Russian) **93d:65074**
Bialecki, Bernard (*with* Fernandes, Ryan I.) Orthogonal spline collocation Laplace-modified and alternating-direction methods for parabolic problems on rectangles. (English summary) **93h:65142**
Bowers, Kenneth L. *see* **Lund, John; et al., 93b:65144**
Carlson, Timothy S. *see* **Lund, John; et al., 93b:65144**
Chen, Chuan Dan Stability criteria of multiple nesting grid difference methods for hyperbolic initial-boundary value problems. (English summary) (*see* **93d:65004**)
Cloot, A. *see* **Weideman, J. A. C., (93d:65005)**
Dai, Wei Zhong An unconditionally stable three-level explicit difference scheme for the Schrödinger equation with a variable coefficient. **93a:65112**
Davis, Malcolm E. *see* **Luty, Brock A.; et al., 93g:65109**
Dimova-Borshukova, Stefka *see* **Koleva, M. G.; et al., 93a:65128**
Dougalis, Vassilios A. *see* **Akrivis, Georgios D., 93a:65111**
Dzyuba, I. A. On a class of difference schemes of the multicomponent method of variable directions of the second order of approximation with respect to time. (Russian. Russian summary) **93k:65068**
Engl, Heinz W. *see* **Scherzer, Otmar; et al., 93m:35185**
Ewing, Richard E. *see* **Lin, Tao, 93k:65070**
Fairweather, Graeme (*with* López Marcos, J. C.) A box method for a nonlinear equation of population dynamics. **93c:92006**
Fernandes, Ryan I. *see* **Bialecki, Bernard, 93h:65142**
Fishelov, Dalia Vortex schemes for viscous flow. **93a:76075**
Fortin, Michel (*with* Pierre, R.) Stability analysis of discrete generalized Stokes problems. **93b:65139**
Griffiths, D. F. *see* **Yee, H. C.; et al., (93e:76002)**
Henley, Gregory J. (*with* Janus, J. Mark) Parallelization and convergence of a 3D implicit unsteady turbomachinery flow code. (English summary) (*see* **93g:65178**)
Hou, Thomas Y. (*with* Wetton, Brian T. R.) Convergence of a finite difference scheme for the Navier-Stokes equations using vorticity boundary conditions. **93b:65125**
Isaacson, Eli L. (*with* Temple, Blake) Nonlinear resonance in systems of conservation laws. (English summary) **93f:35140**
Iserles, Arieh (*with* Nørsett, S. P.) ★ Order stars. **93c:41026**
Israeli, Moshe *see* **Amitai, Dganit; et al.**
Itzikowitz, Samuel *see* **Amitai, Dganit; et al.**
Ivanauskas, Feliksas A multiplicative estimate for the norm of a function in C in terms of the norms in L_2 and W_2^n, and the convergence of difference methods for nonlinear evolution equations. (Russian. English and Lithuanian summaries) **93b:46058**
— Convergence and stability of difference schemes for nonlinear equations of Schrödinger type. (Russian. English and Lithuanian summaries) **93b:65127**
Janus, J. Mark *see* **Henley, Gregory J., (93g:65178)**
Jeltsch, Rolf (*with* Smit, Jacobus Hendrik) ★ Barriers to the accuracy of explicit three-time-level difference schemes for hyperbolic equations. (English. English and Afrikaans summaries) **93m:65121**
Karam Filho, José (*with* Loula, Abimael F. D.) A nonstandard application of Babuška-Brezzi theory to finite element analysis of Stokes problem. (English and Portuguese summaries) **93c:65117**
Kaschiev, M. S. *see* **Koleva, M. G.; et al., 93a:65128**
Koleva, M. G. (*with* Dimova-Borshukova, Stefka; Kaschiev, M. S.) ★ Исследование собственных функций горения нелинейной среды в полярных координатах методом конечных элементов. (Russian) [Investigation of the eigenfunctions of the burning of a nonlinear medium in polar coordinates by the finite element method] **93a:65128**
Kreiss, Heinz-Otto (*with* Scherer, Godela) Method of lines for hyperbolic differential equations. **93a:65124**
Kröner, Dietmar About splitting and nonsplitting schemes for conservation laws in 2-D. (*see* **93b:76002**)
Lesaint, P. (*with* Pousin, J.) Error estimates for a nonlinear degenerate parabolic problem. **93a:35094**
Li, Qian Convergence of the predictor-corrector Galerkin method for nonlinear parabolic equations. (Chinese. English summary)
Li, Yi[1] (*with* Li, Yi[5]) Absolutely stable difference schemes for the evolution equation $u_t = au_\rho$. (Chinese. English summary) **93b:65129**
Li, Yi[5] *see* **Li, Yi[1], 93b:65129**
Liem, Chin Bo *see* **Lü, Tao; et al., 93e:65004**
Lin, Tao (*with* Ewing, Richard E.) Direct numerical method for an inverse problem of hyperbolic equations. (English summary) **93k:65070**
— Physical and numerical interfaces in the numerical simulation of wave propagations. (English summary) **93m:65124**
Lions, Pierre-Louis *see* **Álvarez León, Luis; et al., 93a:35072**
Liu, Jian Guo (*with* Xin, Zhou Ping) L^1-stability of stationary discrete shocks. **93d:35097**
López Marcos, J. C. *see* **Fairweather, Graeme, 93c:92006**
Loula, Abimael F. D. *see* **Karam Filho, José, 93c:65117**
Lü, Tao (*with* Shih, Tsi Min; Liem, Chin Bo) An analysis of splitting extrapolation for multidimensional problems. (English summary) **93e:65004**
Lund, John (*with* Bowers, Kenneth L.; Carlson, Timothy S.) Fully sinc-Galerkin computation for boundary feedback stabilization. **93b:65144**
Luty, Brock A. (*with* Davis, Malcolm E.; McCammon, J. Andrew) Solving the finite-difference nonlinear Poisson-Boltzmann equation. (English summary) **93g:65109**
Martin, Yves-Loïc (*with* Rogier, François; Schneider, Jacques) Une méthode déterministe pour la résolution de l'équation de Boltzmann inhomogène. (English summary) [A deterministic method for solving the nonhomogeneous Boltzmann equation] **93b:65198**
Matus, P. P. (*with* Stanishevskaya, L. V.) Unconditional convergence of difference schemes for nonstationary quasilinear equations of mathematical physics. (Russian) **93a:65114**
— On the construction of difference schemes for multidimensional parabolic equations on adaptive-time grids. (Russian. Russian summary) **93k:65071**
McCammon, J. Andrew *see* **Luty, Brock A.; et al., 93g:65109**
Mel'nik, V. N. (*with* Moskal'kov, M. N.) Difference schemes and the analysis of approximate solutions for two-dimensional nonstationary problems of coupled electro-elasticity. (Russian) **93a:65115**
Morel, Jean-Michel *see* **Álvarez León, Luis; et al., 93a:35072**
Moskal'kov, M. N. *see* **Mel'nik, V. N., 93a:65115**
Nagoya, Seiichiro (*with* Ushijima, Teruo) L^2-stability analysis for the convection diffusion difference problems. (Japanese. English summary) (*see* **93f:65027**)
Nørsett, S. P. *see* **Iserles, Arieh, 93c:41026**
Ostermann, Alexander (*with* Roche, M.) Runge-Kutta methods for partial differential equations and fractional orders of convergence. **93a:65125**
Peng, Yue Jun Solutions faibles globales pour l'équation d'Euler d'un fluide compressible avec de grandes données initiales. (English summary) [Global weak solutions for the Euler equation of a compressible fluid with large initial data] **93e:35083**
Peskin, Charles S. Two examples of mathematics and computing in the biological sciences: blood flow in the heart and molecular dynamics. (*see* **93d:01002**)
Pierre, R. *see* **Fortin, Michel, 93b:65139**
Pousin, J. *see* **Lesaint, P., 93a:35094**
Rannacher, Rolf L^∞-stability estimates and asymptotic error expansion for parabolic finite element equations. (English summary) **93i:65093**
Reddy, Satish C. (*with* Trefethen, Lloyd N.) Stability of the method of lines. **93d:65086**
Renaut, Rosemary A. (*with* Smit, Jacobus Hendrik) Order stars and the maximal accuracy of stable difference schemes for the wave equation. (English summary) **93i:65087**
Ringhofer, Christian On the convergence of spectral methods for the Wigner-Poisson problem. **93c:65120**
Roche, M. *see* **Ostermann, Alexander, 93a:65125**
Rogier, François *see* **Martin, Yves-Loïc; et al., 93b:65198**
Sanders, Richard (*with* Weiser, Alan) High resolution staggered mesh approach for nonlinear hyperbolic systems of conservation laws. **93f:65070**
Scherer, Godela *see* **Kreiss, Heinz-Otto, 93a:65124**
Scherzer, Otmar ★ Tikhonov regularization of nonlinear ill-posed problems with applications to parameter identification in partial differential equations. **93a:65082**
— (*with* Engl, Heinz W.; Anderssen, Robert S.) Parameter identification from boundary measurements in a parabolic equation arising from geophysics. **93m:35185**
Schneider, Jacques *see* **Martin, Yves-Loïc; et al., 93b:65198**
Shen, Jie Long time stability and convergence for fully discrete nonlinear Galerkin methods. **93a:65130**
— A remark on the projection-3 method. (English summary) **93k:76082**
Shih, Tsi Min *see* **Lü, Tao; et al., 93e:65004**
Skobelev, B. Yu. (*with* Vorozhtsov, E. V.) Stability analysis of difference schemes by

catastrophe theory methods. (English summary) **93k:65072**
Smit, Jacobus Hendrik *see* **Renaut, Rosemary A., 93i:65087** *and* **Jeltsch, Rolf, 93m:65121**
Sonar, Th. Entropy production in second-order three-point schemes. **93f:65067**
Stanishevskaya, L. V. *see* **Matus, P. P., 93a:65114**
Subba Rao, V. (*with* Zahran, Yousef H.) A finite difference method for hyperbolic equations. **93c:65106**
Sweby, P. K. *see* **Yee, H. C.; et al., (93e:76002)**
Tadmor, Eitan Total variation and error estimates for spectral viscosity approximations. **93d:35098**
Temple, Blake *see* **Isaacson, Eli L., 93f:35140**
Thomée, V. Numerical methods for hyperbolic integro-differential equations. (English summary) **93j:65226**
Trefethen, Lloyd N. *see* **Reddy, Satish C., 93d:65086**
Trompert, R. A. (*with* Verwer, J. G.) Analysis of the implicit Euler local uniform grid refinement method. (English summary) **93m:65139**
Tsertsvadze, G. Z. Convergence of a completely conservative difference scheme for equations of gas dynamics in Euler variables. (Russian. Russian summary) **93h:76052**
Uko, Livinus Ugochukwu The proximal correction method for discretization of parabolic variational inequalities. **93e:65112**
Ushijima, Teruo *see* **Nagoya, Seiichiro, (93f:65027)**
Vabishchevich, S. I. Efficient difference methods for a reaction-diffusion type model. (Russian. Russian summary) **93m:65128**
Vasil'eva, A. B. On the stability of contrast structures. (Russian. English summary) **93d:35070**
Verwer, J. G. *see* **Trompert, R. A., 93m:65139**
Vorozhtsov, E. V. *see* **Skobelev, B. Yu., 93k:65072**
Weideman, J. A. C. (*with* Cloot, A.) Spectral methods and mappings for evolution equations on the infinite line. (English summary) (*see* **93d:65005**)
Weiser, Alan *see* **Sanders, Richard, 93f:65070**
Wetton, Brian T. R. *see* **Hou, Thomas Y., 93b:65125**
Xin, Zhou Ping *see* **Liu, Jian Guo, 93d:35097**
Yee, H. C. (*with* Sweby, P. K.; Griffiths, D. F.) A study of spurious asymptotic numerical solutions of nonlinear differential equations by the nonlinear dynamics approach. (English summary) (*see* **93e:76002**)
Zahran, Yousef H. *see* **Subba Rao, V., 93c:65106**
Zlotnik, A. A. A two-layer projection-difference method with a splitting operator for the wave equation. (Russian) **93c:65107**

65M15 Error bounds

Auzinger, W. Error structures and extrapolation in time for parabolic problems. (English summary) **93g:65116**
Beyer, R. P. (*with* LeVeque, Randall J.) Analysis of a one-dimensional model for the immersed boundary method. **93a:65123**
Chiang, Yi-Ling An error approximation. **93d:65084**
LeVeque, Randall J. *see* **Beyer, R. P., 93a:65123**
Sanz-Serna, J. M. (*with* Stuart, A. M.) A note on uniform in time error estimates for approximations to reaction-diffusion equations. (English summary) **93g:65117**
Slodička, Marián Smoothing effect and discretization in time to semilinear parabolic equations with nonsmooth data. **93b:65136**
— Semigroup formulation of Rothe's method: application to parabolic problems. (English summary) **93j:65142**
Stuart, A. M. *see* **Sanz-Serna, J. M., 93g:65117**

Items with secondary classifications in 65M15

Akrivis, Georgios D. (*with* Dougalis, Vassilios A.) Finite difference discretization with variable mesh of the Schrödinger equation in a variable domain. **93a:65111**
— Finite difference discretization of the Kuramoto-Sivashinsky equation. (English summary) **93g:65108**
Cheng, Xiao Liang (*with* Jiang, Jin Sheng) The velocity-pressure Q_2-Q_1 finite element. (Chinese. English summary) **93d:76038**
Dougalis, Vassilios A. *see* **Akrivis, Georgios D., 93a:65111**
Falk, Richard S. (*with* Richter, Gerard R.) Local error estimates for a finite element method for hyperbolic and convection-diffusion equations. **93e:65137**
Jackson, Dennis Eugene Error estimates for the semidiscrete Galerkin approximations of the FitzHugh-Nagumo equations. **93f:65075**
Jiang, Jin Sheng *see* **Cheng, Xiao Liang, 93d:76038**
Lai, Choi Hong An acceleration technique for a nonoverlapped domain decomposition method. (English summary) (*see* **93j:00007**)
Lesaint, P. (*with* Pousin, J.) Error estimates for a nonlinear degenerate parabolic problem. **93a:35094**
Lubich, Ch. (*with* Ostermann, Alexander) Runge-Kutta methods for parabolic equations and convolution quadrature. **93d:65082**
Ostermann, Alexander *see* **Lubich, Ch., 93d:65082**
Pousin, J. *see* **Lesaint, P., 93a:35094**
Richter, Gerard R. *see* **Falk, Richard S., 93e:65137**
Rouy, Elisabeth (*with* Tourin, Agnès) A viscosity solutions approach to shape-from-shading. **93d:65019**
Sofronov, I. L. Conditions for complete transparency on a sphere for a three-dimensional wave equation. (Russian) **93m:35121**
Tadmor, Eitan Total variation and error estimates for spectral viscosity approximations. **93d:35098**
Teng, Zhen Huan Particle method and its convergence for scalar conservation laws. **93g:65114**
Tourin, Agnès *see* **Rouy, Elisabeth, 93d:65019**
Zhang, Nai Ying On fully discrete Galerkin approximations for partial integro-differential equations of parabolic type. **93d:65088**
Zlotnik, A. A. Lower bounds for the error of three-layer difference methods for solving the wave equation with data in Hölder spaces. (Russian)
— Properties of the projection-difference method with a quasisplitting operator for second-order hyperbolic equations. (Russian) **93d:65083**

65M20 Method of lines

Al-Rabeh, Ala Towards a general integration algorithm for time-dependent one-dimensional systems of parabolic partial differential equations using the method of lines. (English summary)
Atkins, H. L. *see* **Casper, Jay, 93m:65135**
Bolnăvescu, L. A nonconvergent line method for solving one-dimensional equations of heat propagation by conduction and convection. **93c:65109**
— A nonconvergent line method for solving two-dimensional equations of heat propagation by conduction and convection. **93c:65110**
Casper, Jay (*with* Atkins, H. L.) A finite-volume high-order ENO scheme for two-dimensional hyperbolic systems. (English summary) **93m:65135**
Chan, Raymond H. Numerical solutions for the inverse heat problems in $\mathbf{R}^N$. (English summary) **93m:65136**
de Frutos, Javier (*with* Sanz-Serna, J. M.) An easily implementable fourth-order method for the time integration of wave problems. (English summary) **93h:65117**
Gallopoulos, E. (*with* Saad, Youcef) Efficient solution of parabolic equations by Krylov approximation methods. (English summary) **93d:65085**
van der Houwen, P. J. (*with* Sommeijer, B. P.) Fractional Runge-Kutta methods with application to convection-diffusion equations. (English summary) **93h:65118**
Kamont, Zdzisław The method of lines for parabolic differential-functional equations with initial-boundary conditions of the Dirichlet type. **93e:65116**
Kreiss, Heinz-Otto (*with* Scherer, Godela) Method of lines for hyperbolic differential equations. **93a:65124**
Ostermann, Alexander (*with* Roche, M.) Runge-Kutta methods for partial differential equations and fractional orders of convergence. **93a:65125**
Reddy, Satish C. (*with* Trefethen, Lloyd N.) Stability of the method of lines. **93d:65086**
Roche, M. *see* **Ostermann, Alexander, 93a:65125**
Saad, Youcef *see* **Gallopoulos, E., 93d:65085**
Sanz-Serna, J. M. *see* **de Frutos, Javier, 93h:65117**
Scherer, Godela *see* **Kreiss, Heinz-Otto, 93a:65124**
Sommeijer, B. P. *see* **van der Houwen, P. J., 93h:65118**
Trefethen, Lloyd N. *see* **Reddy, Satish C., 93d:65086**

Items with secondary classifications in 65M20

Lang, Jens (*with* Walter, Artur) A finite element method adaptive in space and time for nonlinear reaction-diffusion systems. (English summary) **93j:65149**
Reddy, Satish C. (*with* Trefethen, Lloyd N.) Lax-stability of fully discrete spectral methods via stability regions and pseudo-eigenvalues. (English summary) **93e:65115**
Slodička, Marián Smoothing effect and discretization in time to semilinear parabolic equations with nonsmooth data. **93b:65136**
Sonar, Th. Entropy production in second-order three-point schemes. **93f:65067**
Strehmel, Karl (*with* Weiner, Rüdiger) ★ Linear-implizite Runge-Kutta-Methoden und ihre Anwendung. (German) [Linearly implicit Runge-Kutta methods and their application] **93g:65095**
Tagiev, R. K. An estimate for the rate of convergence of the method of lines, and regularization in a problem of the optimal control of the coefficients of a hyperbolic equation. (Russian. Russian summary) **93j:49034**
Trefethen, Lloyd N. *see* **Reddy, Satish C., 93e:65115**
Trompert, R. A. (*with* Verwer, J. G.) Runge-Kutta methods and local uniform grid refinement. (English summary) **93h:65119**
Verwer, J. G. *see* **Trompert, R. A., 93h:65119**
Walter, Artur *see* **Lang, Jens, 93j:65149**
Weiner, Rüdiger *see* **Strehmel, Karl, 93g:65095**

65M25 Method of characteristics

Levin, M. P. A quasicharacteristic difference scheme and its application for computing supersonic gas flows. (Russian. Russian summary) **93m:65137**
Liu, Ru Xun The design of characterizing-integral schemes and the application to the shallow water wave problems. (Chinese. English summary) **93c:65111**
Nicolaides, R. A. Analysis and convergence of the MAC scheme. I. The linear problem. (English summary) **93j:65143**

Items with secondary classifications in 65M25

Iannelli, Mimmo (*with* Milner, Fabio A.; Pugliese, Andrea) Analytical and numerical results for the age-structured S-I-S epidemic model with mixed inter-intracohort transmission. **93e:92017**
Mihăilescu-Suliciu, M. (*with* Suliciu, I.) On the method of characteristics in rate-type viscoelasticity with nonmonotone equilibrium curve. (English, German and Russian summaries) **93j:73036**
Milner, Fabio A. *see* **Iannelli, Mimmo; et al., 93e:92017**
Pugliese, Andrea *see* **Iannelli, Mimmo; et al., 93e:92017**
Suliciu, I. *see* **Mihăilescu-Suliciu, M., 93j:73036**
Yang, Dan Ping Coupled finite element and characteristics methods for displacement problems of two-phase flow in porous media, and error estimates for them. (Chinese. English and Chinese summaries) **93j:65189**

65M30 Improperly posed problems

Ayoubi, I. S. Numerical solution of the inverse scattering problem for hyperbolic systems of n-components in semi-infinite media. (English summary) **93m:65138**
Hinestroza G., Doris (*with* Murio, Diego A.) Recovery of the transient heat transfer coefficient in the nonlinear boundary value problem for the heat equation. (English summary) **93i:65090**
Korotkii, A. I. (*with* Osipov, Yu. S.) Dynamic modelling of parameters in hyperbolic systems. (Russian) **93g:65118**

Lin, Tao (*with* Wang, Hong) Solving a source term inverse problem of the diffusion equations by the interpolated quadratic finite element method. (*see* **93g:76002**)
Murio, Diego A. *see* **Hinestroza G., Doris, 93i:65090**
Osipov, Yu. S. *see* **Korotkii, A. I., 93g:65118**
Wang, Hong *see* **Lin, Tao, (93g:76002)**

Items with secondary classifications in 65M30

Anderssen, Robert S. *see* **Scherzer, Otmar; et al., 93m:35185**
Engl, Heinz W. *see* **Scherzer, Otmar; et al., 93m:35185**
Hinestroza G., Doris (*with* Murio, Diego A.) Identification of transmissivity coefficients by mollification techniques. I. One-dimensional elliptic and parabolic problems. (English summary) **93m:65174**
Kamynin, V. L. On passage to the limit in the inverse problems for nondivergence parabolic equations. (English summary) (*see* **93m:00041**)
Murio, Diego A. *see* **Hinestroza G., Doris, 93m:65174**
Scherzer, Otmar ★ Tikhonov regularization of nonlinear ill-posed problems with applications to parameter identification in partial differential equations. **93a:65082**
— (*with* Engl, Heinz W.; Anderssen, Robert S.) Parameter identification from boundary measurements in a parabolic equation arising from geophysics. **93m:35185**

65M50 Mesh generation and refinement

Arney, David C. *see* **Biswas, Rupak; et al.**
Biswas, Rupak (*with* Flaherty, Joseph E.; Arney, David C.) An adaptive mesh-moving and refinement procedure for one-dimensional conservation laws. (English summary)
Chan, William M. (*with* Steger, Joseph L.) Enhancements of a three-dimensional hyperbolic grid generation scheme. (English summary) **93f:65069**
Dow, John O. (*with* Stevenson, Ian) Adaptive refinement procedure for the finite difference method. (English summary)
Flaherty, Joseph E. *see* **Biswas, Rupak; et al.**
George, P. L. (*with* Hermeline, F.) Delaunay's mesh of a convex polyhedron in dimension d. Application to arbitrary polyhedra. **93e:65117**
Hermeline, F. *see* **George, P. L., 93e:65117**
Kanimetov, K. A. The choice of weight function in the construction of adaptive grids. (Russian. Russian summary)
Kröner, Dietmar About splitting and nonsplitting schemes for conservation laws in 2-D. (*see* **93b:76002**)
LeVeque, Randall J. Cartesian grids and rotated difference methods for multi-dimensional flow. (English summary) **93g:65119**
Liseikin, V. D. On the construction of adaptive grids. (Russian. Russian summary)
— On the construction of regular grids on n-dimensional surfaces. (Russian) **93c:65112**
Nochetto, R. H. (*with* Paolini, M.; Verdi, Claudio) Basic principles of mesh adaptation for parabolic FBPs. (*see* **93k:00037**)
Paolini, M. *see* **Nochetto, R. H.; et al., (93k:00037)**
Sanders, Richard (*with* Weiser, Alan) High resolution staggered mesh approach for nonlinear hyperbolic systems of conservation laws. **93f:65070**
Steger, Joseph L. *see* **Chan, William M., 93f:65069**
Stevenson, Ian *see* **Dow, John O.**
Trompert, R. A. (*with* Verwer, J. G.) Runge-Kutta methods and local uniform grid refinement. (English summary) **93h:65119**
— (*with* Verwer, J. G.) Analysis of the implicit Euler local uniform grid refinement method. (English summary) **93m:65139**
Verdi, Claudio *see* **Nochetto, R. H.; et al., (93k:00037)**
Verwer, J. G. *see* **Trompert, R. A., 93h:65119** *and* **93m:65139**
Weiser, Alan *see* **Sanders, Richard, 93f:65070**

Items with secondary classifications in 65M50

Bulychev, Yu. G. Methods for the numerical-analytic integration of differential equations. (Russian) **93b:65120**
Chen, Chuan Dan Stability criteria of multiple nesting grid difference methods for hyperbolic initial-boundary value problems. (English summary) (*see* **93d:65004**)
D'Azevedo, E. F. (*with* Forsyth, P. A.; Tang, Wei Pai) Ordering methods for preconditioned conjugate gradient methods applied to unstructured grid problems. **93b:65054**
Demkowicz, Leszek *see* **Edwards, Michael G.; et al., 93m:65142**
Edwards, Michael G. (*with* Oden, J. Tinsley; Demkowicz, Leszek) An h-r-adaptive approximate Riemann solver for the Euler equations in two dimensions. (English summary) **93m:65142**
Ewing, Richard E. (*with* Lazarov, R. D.; Vassilevski, Panayot S.) Finite difference schemes on grids with local refinement in time and in space for parabolic problems. Optimal order two-grid iterative methods. **93a:65113**
Forsyth, P. A. *see* **D'Azevedo, E. F.; et al., 93b:65054**
Fraga, Eric S. (*with* Morris, John Ll.) An adaptive mesh refinement method for nonlinear dispersive wave equations.
Gottlieb, J. J. *see* **Hawken, D. F.; et al., 93m:65119**
Hansen, J. S. *see* **Hawken, D. F.; et al., 93m:65119**
Hawken, D. F. (*with* Hansen, J. S.; Gottlieb, J. J.) A new finite-difference solution-adaptive method. (English summary) **93m:65119**
Lazarov, R. D. *see* **Ewing, Richard E.; et al., 93a:65113**
Morris, John Ll. *see* **Fraga, Eric S.**
Oden, J. Tinsley *see* **Edwards, Michael G.; et al., 93m:65142**
Paolini, M. (*with* Verdi, Claudio) Asymptotic and numerical analyses of the mean curvature flow with a space-dependent relaxation parameter. **93h:35101**
Ren, Yuhe (*with* Russell, Robert D.) Moving mesh techniques based upon equidistribution, and their stability. (English summary) **93g:65113**
Russell, Robert D. *see* **Ren, Yuhe, 93g:65113**
Tang, Wei Pai *see* **D'Azevedo, E. F.; et al., 93b:65054**
Vassilevski, Panayot S. *see* **Ewing, Richard E.; et al., 93a:65113**
Verdi, Claudio *see* **Paolini, M., 93h:35101**

65M55 Multigrid methods; domain decomposition

Asaithambi, N. S. A numerical method for an inhomogeneous nonlinear diffusion problem. **93d:65087**
Baysal, Oktay (*with* Yen, Guan-Wei) Kinematic domain decomposition for boundary-motion-induced flow simulations. (English summary) (*see* **93g:65009**)
— *see also* **Fouladi, Kamran; et al., (93g:65009)**
Black, Kelly Penalty method utilized for parabolic problems. (English summary) (*see* **93g:65009**)
— Polynomial collocation using a domain decomposition solution to parabolic PDEs via the penalty method and explicit/implicit time marching. (English summary) **93k:65076**
Blum, Heribert (*with* Lisky, S.; Rannacher, Rolf) A domain splitting algorithm for parabolic problems. (English and German summaries) **93f:65071**
Brandt, Achi *see* **Sidilkover, David, 93i:65091**
Dawson, Clint N. The performance of an explicit/implicit domain decomposition procedure for parabolic equations on an Intel Hypercube. (English summary) (*see* **93g:65009**)
Fouladi, Kamran (*with* Baysal, Oktay; Newman, James C.) Hybrid domain decomposition for configurations with multiple nonsimilar components. (*see* **93g:65009**)
Fujino, Seiji Modified incomplete decomposition method for time dependent problems. (Japanese. English summary) (*see* **93e:65040**)
Garbey, Marc Domain decomposition to solve layers and singular perturbation problems. (English summary) **93h:65120**
Gastaldi, Lucia A domain decomposition method associated with the streamline diffusion FEM for linear hyperbolic systems. (English summary) **93j:65144**
Henderson, Ron (*with* Karniadakis, George Em.) Hybrid spectral element methods for flows over rough walls. (English summary) (*see* **93g:65009**)
Horton, Graham The time-parallel multigrid method. (English summary)
Joppich, W. (*with* Lorentz, Rudolph Alexander) High-order positive, monotone and convex multigrid interpolations. (English summary)
Karniadakis, George Em. *see* **Henderson, Ron, (93g:65009)**
Kwong, Man Kam Domain decomposition: a blowup problem and the Ginzburg-Landau equations. (English summary) (*see* **93m:65006**)
Lisky, S. *see* **Blum, Heribert; et al., 93f:65071**
Lorentz, Rudolph Alexander *see* **Joppich, W.**
Marx, Yves P. Multigrid solution of the advection-diffusion equation with variable coefficients. (English summary)
McCormick, Stephen F. ★ Multilevel projection methods for partial differential equations. **93b:65137**
Meurant, Gérard A. A domain decomposition method for parabolic problems. **93c:65113**
Newman, James C. *see* **Fouladi, Kamran; et al., (93g:65009)**
Rannacher, Rolf *see* **Blum, Heribert; et al., 93f:65071**
Sidilkover, David (*with* Brandt, Achi) Multigrid solution to steady-state two-dimensional conservation laws. (English summary) **93i:65091**
Sun, Min Domain decomposition algorithms for solving Hamilton-Jacobi-Bellman equations. (English summary) **93m:65140**
Wu, Hua Mo (*with* Yang, Shu Li) MmB—a new class of accurate high resolution schemes for conservation laws in two dimensions. (*see* **93b:76002**)
Yang, Shu Li *see* **Wu, Hua Mo, (93b:76002)**
Yen, Guan-Wei *see* **Baysal, Oktay, (93g:65009)**

Items with secondary classifications in 65M55

Arina, Renzo (*with* Canuto, Claudio) A self-adaptive domain decomposition for the viscous/inviscid coupling. I. Burgers equation. (English summary) **93m:76061**
Brandt, Achi (*with* Yavneh, I.) On multigrid solution of high-Reynolds incompressible entering flows. **93d:76046**
Cai, Xiao-Chuan Additive Schwarz algorithms for parabolic convection-diffusion equations. **93a:65127**
Canuto, Claudio *see* **Arina, Renzo, 93m:76061**
Carlenzoli, Claudio (*with* Quarteroni, Alfio; Valli, Alberto) Spectral domain decomposition methods for compressible Navier-Stokes equations. (English summary) **93h:65123**
(Chan, Tony F. C.) *see* **Symposium: Domain Decomposition Methods for Partial Differential Equations, 93g:65009**
Gaspar, F. *see* **Meddahi, S., 93j:65204**
(Keyes, David E.) *see* **Symposium: Domain Decomposition Methods for Partial Differential Equations, 93g:65009**
Ku, Hwar-Ching A submerged body moving in a stratified medium via domain decomposition technique. (English summary) (*see* **93g:65009**)
Lie, Ivar Heterogeneous domain decomposition for acoustic bottom interaction problems. (English summary) **93i:76083**
McCormick, Stephen F. Multilevel projection methods for partial differential equations. (English summary) (*see* **93m:65006**)
Meddahi, S. (*with* Gaspar, F.) A domain-decomposition method for a linear parabolic problem. (Spanish. English summary) **93j:65204**
(Meurant, Gérard A.) *see* **Symposium: Domain Decomposition Methods for Partial Differential Equations, 93g:65009**
Peyret, Roger The Chebyshev multidomain approach to stiff problems in fluid mechanics. (English summary) (*see* **93d:65005**)
Phillips, Timothy N. Spectral domain decomposition techniques for viscous incompressible flows. (English summary) (*see* **93d:65005**)
Quarteroni, Alfio *see* **Carlenzoli, Claudio; et al., 93h:65123**
(Scroggs, Jeffrey S.) *see* **Symposium: Domain Decomposition Methods for Partial Differential Equations, 93g:65009**
Valli, Alberto *see* **Carlenzoli, Claudio; et al., 93h:65123**
(Voigt, Robert G.) *see* **Symposium: Domain Decomposition Methods for Partial Differential Equations, 93g:65009**
Wesseling, Pieter ★ An introduction to multigrid methods. **93g:65006**
Worley, Patrick H. Parallelizing across time when solving time-dependent partial differential equations. (English summary) (*see* **93g:65178**)
Xu, Jinchao Iterative methods by space decomposition and subspace correction. (English

summary) **93k:65029**
Yavneh, I. *see* **Brandt, Achi, 93d:76046**

Items listed otherwise than by author

Norfolk, VA ★ Fifth International Symposium on Domain Decomposition Methods for Partial Differential Equations. **93g:65009**
Symposium:
Domain Decomposition Methods for Partial Differential Equations ★ Fifth International Symposium on Domain Decomposition Methods for Partial Differential Equations. **93g:65009**

65M60 Finite elements, Rayleigh-Ritz and Galerkin methods, finite methods

Adjerid, S. (*with* Flaherty, Joseph E.; Moore, P. K.; Wang, Yun J.) High-order adaptive methods for parabolic systems. (English summary) **93i:65092**
Audounet, J. (*with* Moreux, V.) Petrov-Galerkin type finite element approximations of K-diagonalizable hyperbolic systems: applications to multidimensional Euler equations. (French. English and French summaries) **93j:65145**
Baaijens, Frank P. T. *see* **Kootwijk, Carolien M.**
(Babuška, Ivo M.) *see* **Cheng, Xiao Liang, 93c:65115**
Bank, Randolph E. (*with* Santos, Rafael F.) Analysis of some moving space-time finite element methods. (English summary) **93m:65141**
Bar-Yoseph, Pinchas (*with* Elata, David; Israeli, Moshe) On the generalized L_2 Galerkin finite element method for linear hyperbolic equations. (English summary) **93j:65146**
Baughman, Lisa A. (*with* Walkington, Noel J.) Co-volume methods for degenerate parabolic problems. (English summary) **93j:65147**
Berkooz, Gal (*with* Titi, Edriss S.) Galerkin projections and the proper orthogonal decomposition for equivariant equations. (English summary) **93k:65077**
Blom, J. G. *see* **Zegeling, P. A., 93j:65155**
Blum, Heribert Defect correction schemes for mixed and nonconforming finite elements. (English summary) **93f:65072**
Böhm, Michael On the Galerkin-method in intermediate spaces for the initial-boundary value problem of the Navier-Stokes equations in two dimensions. **93a:65126**
Bowers, Kenneth L. *see* **Lund, John; et al., 93b:65144** *and* **Smith, Ralph C., 93m:65146**
Cai, Xiao-Chuan Additive Schwarz algorithms for parabolic convection-diffusion equations. **93a:65127**
Cangellaris, Andreas (*with* Lee, Robert) Numerical solution of the two-dimensional scalar Helmholtz equation using the bymoment method. (*see* **93f:00014**)
Cao, Yan Zhao (*with* Huang, Ming You) On finite element approximation for the bifurcation solution of free convection problem. (*see* **93b:65006**)
Carlson, Timothy S. *see* **Lund, John; et al., 93b:65144**
Chen, Chuan Miao (*with* Xie, Zi Qing) Finite elements for nonlinear parabolic integro-differential equations. (Chinese. English summary) **93b:65138**
— (*with* Thomée, V.; Wahlbin, L. B.) Finite element approximation of a parabolic integro-differential equation with a weakly singular kernel. **93g:65120**
Chen, Tsu-Fen Semidiscrete least squares methods for linear convection-diffusion problem. (English summary) **93h:65121**
— Semidiscrete least squares methods for linear hyperbolic systems. (English summary) **93f:65073**
Chen, Zhang Xing A quasi-projection analysis for elastic wave propagation in fluid-saturated porous media. (English summary) **93g:65121**
Cheng, Bin Numerical simulation of the Korteweg-de Vries equation with the Petrov-Galerkin finite element method. (Chinese. English summary) **93c:65114**
Cheng, Xiao Liang An answer to the conjecture of I. Babuška and T. Janik: "The h-p version of the finite element method for parabolic equations. I. The p-version in time" [Numer. Methods Partial Differential Equations **5** (1989), no. 4, 363–399; MR 92d:65160]. **93c:65115**
— *see also* **Jiang, Jin Sheng, 93b:65141**
Demkowicz, Leszek *see* **Edwards, Michael G.; et al., 93m:65142**
Dimova-Borshukova, Stefka *see* **Koleva, M. G.; et al., 93a:65128**
Dupont, T. (*with* Glowinski, Roland; Kinton, W.; Wheeler, Mary Fanett) Mixed finite-element methods for time-dependent problems: application to control. **93h:65122**
Edwards, Michael G. (*with* Oden, J. Tinsley; Demkowicz, Leszek) An h-r-adaptive approximate Riemann solver for the Euler equations in two dimensions. (English summary) **93m:65142**
Elata, David *see* **Bar-Yoseph, Pinchas; et al., 93j:65146**
Feng, Min Fu Streamline diffusion finite element methods for nonlinear neutron transport equations. (Chinese)
Flaherty, Joseph E. *see* **Adjerid, S.; et al., 93i:65092**
Fortin, Michel (*with* Pierre, R.) Stability analysis of discrete generalized Stokes problems. **93b:65139**
French, Donald A. Long time behavior of a numerical approximation to a nonlinear evolution problem in viscoelasticity. (English summary) (*see* **93m:00047**)
Gardner, G. A. *see* **Gardner, L. R. T., 93c:65116**
Gardner, L. R. T. (*with* Gardner, G. A.) Solitary waves of the equal width wave equation. **93c:65116**
Gibson, J. S. (*with* Rosen, I. G.; Tao, Gang) Approximation in control of thermoelastic systems. (English summary) **93f:65074**
Glowinski, Roland Finite element methods for the numerical simulation of incompressible viscous flow. Introduction to the control of the Navier-Stokes equations. **93b:65140**
— *see also* **Dupont, T.; et al., 93h:65122**
Guo, Ben Yu *see* **Ma, He Ping, 93m:65144**
Harari, Isaac (*with* Hughes, Thomas J. R.) What are C and h?: inequalities for the analysis and design of finite element methods. **93g:65122**
He, Yin Nian *see* **Li, Kai Tai; et al., (93b:65006)**
Hou, LiSheng *see* **Manouzi, Hassan, 93m:65145**
Hu, Ning (*with* Zhang, Ru Qing) An iterative parallel algorithm of finite element method. (Chinese. English summary)
Huang, Ai Xiang *see* **Li, Kai Tai, 93b:65142** *and* **(93b:65006)**
Huang, Ming You *see* **Cao, Yan Zhao, (93b:65006)**
Hughes, Thomas J. R. *see* **Harari, Isaac, 93g:65122**
Israeli, Moshe *see* **Bar-Yoseph, Pinchas; et al., 93j:65146**
Jackson, Dennis Eugene Error estimates for the semidiscrete Galerkin approximations of the FitzHugh-Nagumo equations. **93f:65075**
(Janik, Tadeusz) *see* **Cheng, Xiao Liang, 93c:65115**
Jiang, Jin Sheng (*with* Cheng, Xiao Liang) On the stability of biquadratic-bilinear velocity-pressure finite elements. **93b:65141**
Jimack, P. K. On steady and large time solutions of the semi-discrete moving finite element equations for one-dimensional diffusion problems. (English summary) **93g:65123**
Johnson, Claes A new approach to algorithms for convection problems which are based on exact transport + projection. (English summary) **93g:65124**
Jolly, M. S. Bifurcation computations on an approximate inertial manifold for the 2D Navier-Stokes equations. (English summary) **93m:65143**
Karam Filho, José (*with* Loula, Abimael F. D.) A nonstandard application of Babuška-Brezzi theory to finite element analysis of Stokes problem. (English and Portuguese summaries) **93c:65117**
Kaschiev, M. S. *see* **Koleva, M. G.; et al., 93a:65128** *and* **Zikatanov, L. T., 93a:65131**
Kato, Yasumasa (*with* Tanahashi, Takahiko) Finite element analysis of natural convection in concentric horizontal annuli using simultaneous relaxation of velocity and Bernoulli function. (Japanese. English summary) (*see* **93f:65027**)
Kinton, W. *see* **Dupont, T.; et al., 93h:65122**
Koleva, M. G. (*with* Dimova-Borshukova, Stefka; Kaschiev, M. S.) ★ Исследование собственных функций горения нелинейной среды в полярных координатах методом конечных элементов. (Russian) [Investigation of the eigenfunctions of the burning of a nonlinear medium in polar coordinates by the finite element method] **93a:65128**
Kootwijk, Carolien M. (*with* Baaijens, Frank P. T.) Application of the satisfying Babuška-Brezzi method to a two-dimensional diffusion problem. (English summary)
Kwak, Minkyu (*with* Rim, Joong Kyu) Inertial manifold for finite element approximation of reaction diffusion equation. **93j:65148**
Laevskiĭ, Yu. M. ★ Концентрирующие операторы в методе конечных элементов. Часть 1. (Russian) [Lumping operators in the finite element method. Part 1] **93e:65118a**
— ★ Концентрирующие операторы в методе конечных элементов. Часть 2. (Russian) [Lumping operators in the finite element method. Part 2] **93e:65118b**
Lang, Jens (*with* Walter, Artur) A finite element method adaptive in space and time for nonlinear reaction-diffusion systems. (English summary) **93j:65149**
Lee, Robert *see* **Cangellaris, Andreas, (93f:00014)**
Li, De Mao *see* **Wang, Gang[1], 93j:65152**
Li, Kai Tai (*with* Huang, Ai Xiang; He, Yin Nian) Full discrete nonlinear Galerkin method. (*see* **93b:65006**)
— (*with* Huang, Ai Xiang) A method for approximating inertial manifolds and approximation of multilevel finite elements. (Chinese. English summary) **93b:65142**
Li, Qian Convergence of the predictor-corrector Galerkin method for nonlinear parabolic equations. (Chinese. English summary)
Liou, Jianntyng *see* **Pironneau, Olivier; et al., 93j:65150**
Liu, Ke-shun *see* **Sun, Che, (93b:65006)**
Loula, Abimael F. D. *see* **Karam Filho, José, 93c:65117**
Lube, G. An asymptotically fitted finite element method for convection dominated convection-diffusion-reaction problems. (German and Russian summaries) **93b:65143**
Lund, John (*with* Bowers, Kenneth L.; Carlson, Timothy S.) Fully sinc-Galerkin computation for boundary feedback stabilization. **93b:65144**
Ma, He Ping (*with* Guo, Ben Yu) Combined finite element and pseudospectral method for the three-dimensional Navier-Stokes equations. (English summary) **93m:65144**
Manouzi, Hassan (*with* Hou, LiSheng) Resolution of the Navier-Stokes equations in vorticity-velocity formulation via control techniques. (English summary) **93m:65145**
Moore, P. K. *see* **Adjerid, S.; et al., 93i:65092**
Morandi-Cecchi, M. (*with* Redivo Zaglia, Michela; Scenna, G.) Approximation of the numerical solution of parabolic problems. (English summary) **93k:65078**
Moreux, V. *see* **Audounet, J., 93j:65145**
Oden, J. Tinsley *see* **Edwards, Michael G.; et al., 93m:65142**
Pierre, R. *see* **Fortin, Michel, 93b:65139**
Pironneau, Olivier (*with* Liou, Jianntyng; Tezduyar, T. E.) Characteristic-Galerkin and Galerkin/least-squares space-time formulations for the advection-diffusion equations with time-dependent domains. (English summary) **93j:65150**
Prössdorf, Siegfried (*with* Schneider, Reinhold) Spline approximation methods for multidimensional periodic pseudodifferential equations. **93g:65125**
Rank, E. Adaptivity and accuracy estimation for FEM and BIEM. (*see* **93m:65005**)
Rannacher, Rolf L^∞-stability estimates and asymptotic error expansion for parabolic finite element equations. (English summary) **93i:65093**
Redivo Zaglia, Michela *see* **Morandi-Cecchi, M.; et al., 93k:65078**
Rim, Joong Kyu *see* **Kwak, Minkyu, 93j:65148**
Roache, Patrick *see* **Steinberg, Stanly, 93b:65147**
Robey, Thomas H. The primal mixed finite element method and the LBB condition. **93a:65129**
Rosen, I. G. *see* **Gibson, J. S.; et al., 93f:65074**
Rui, Hong Xing The characteristic finite element method for semilinear pseudoparabolic partial differential equations. (Chinese. English summary) **93j:65151**
— Superconvergence of finite element solutions to a class of Sobolev equations. (Chinese. English and Chinese summaries) **93i:65094**
Santos, Rafael F. *see* **Bank, Randolph E., 93m:65141**
Scenna, G. *see* **Morandi-Cecchi, M.; et al., 93k:65078**
Schneider, Reinhold *see* **Prössdorf, Siegfried, 93g:65125**
Sheen, Dongwoo Finite element methods for an acoustic well-logging problem associated with a porous medium saturated by a two-phase immiscible fluid. (English summary)
Shen, Jie Long time stability and convergence for fully discrete nonlinear Galerkin methods. **93a:65130**
Slodička, Marián On the Rothe-Galerkin method for a class of parabolic integro-differential problems. **93b:65145**
Smith, Ralph C. (*with* Bowers, Kenneth L.) Sinc-Galerkin estimation of diffusivity in parabolic problems. (English summary) **93m:65146**

Solov'ëv, S. I. Fast direct methods for solving difference schemes of the finite element method with bicubic elements for the Poisson equation. (Russian) **93b:65146**

Steinberg, Stanly (*with* Roache, Patrick) Variational curve and surface grid generation. **93b:65147**

Sun, Che (*with* Liu, Ke-shun) The characteristic-finite element analysis for nonlinear convection-diffusion problems. (*see* **93b:65006**)

Szepessy, Anders On the stability of finite element methods for shock waves. **93f:65076**

Szymkiewicz, R. Solution of the advection-diffusion equation using the spline function and finite elements. (English summary)

Tai, Xue Cheng Global extrapolation with a parallel splitting method. (English summary) **93i:65095**

Tanahashi, Takahiko *see* **Kato, Yasumasa**, (**93f:65027**)

Tao, Gang *see* **Gibson, J. S.; et al.**, **93f:65074**

Tezduyar, T. E. *see* **Pironneau, Olivier; et al.**, **93j:65150**

Thomée, V. *see* **Chen, Chuan Miao; et al.**, **93g:65120**

Titi, Edriss S. *see* **Berkooz, Gal**, **93k:65077**

Wahlbin, L. B. *see* **Chen, Chuan Miao; et al.**, **93g:65120**

Walkington, Noel J. *see* **Banghman, Lisa A.**, **93j:65147**

Walter, Artur *see* **Lang, Jens**, **93j:65149**

Wang, Gang[1] (*with* Li, De Mao) Finite element methods for singular boundary value problems in one space dimension. (Chinese. English and Chinese summaries) **93j:65152**

Wang, Yun J. *see* **Adjerid, S.; et al.**, **93i:65092**

Wheeler, Mary Fanett *see* **Dupont, T.; et al.**, **93h:65122**

Xie, Zi Qing *see* **Chen, Chuan Miao**, **93b:65138**

Yan, Qing Yin A mixed finite element method for coupled nonlinear problems. (Chinese. English and Chinese summaries) **93j:65153**

Yang, Dan Ping Boundary integro-differential equations and a boundary element method for parabolic initial-boundary value problems. (Chinese. Chinese summary) **93j:65154**

Yang, Dao Qi A characteristic mixed method with dynamic finite-element space for convection-dominated diffusion problems. (English summary) **93k:65079**

Yuan, Yi Rang A mixed finite element method for the transient behavior of a semiconductor device. (English summary) **93i:65096**

Zegeling, P. A. (*with* Blom, J. G.) An evaluation of the gradient-weighted moving-finite-element method in one space dimension. (English summary) **93j:65155**

Zhang, Nai Ying On fully discrete Galerkin approximations for partial integro-differential equations of parabolic type. **93d:65088**

Zhang, Ru Qing *see* **Hu, Ning**

Zhang, Tie A numerical method for solving the inverse problem for a class of parabolic equations. (Chinese. English and Chinese summaries) **93e:65119**

— Mixed mesh finite elements for solving the stationary Stokes problem. (Chinese. English summary) **93e:65120**

Zikatanov, L. T. (*with* Kaschiev, M. S.) ★ Метод конечных элементов для моделирования полупроводниковых приборов. (Russian) [The finite-element method for modeling semiconductor devices] **93a:65131**

Zolésio, Jean-Paul Galerkin approximation for wave equation in moving domain. (*see* **93c:93006**)

Items with secondary classifications in 65M60

Behr, M. *see* **Tezduyar, T. E.; et al.**, **93h:76050**

Benim, A. C. Finite-element analysis of enclosed turbulent diffusion flames. (*see* **93e:76050**)

Bless Ranero, Ibrahím (*with* Chacón Rebollo, Tomás) Numerical solution of two-dimensional Euler equations via a Lagrangian finite-element method using an adaptive mesh. (Spanish. Spanish summary) (*see* **93j:00009**)

Blowey, J. F. (*with* Elliott, Charles M.) The Cahn-Hilliard gradient theory for phase separation with nonsmooth free energy. II. Numerical analysis. **93g:80007**

Blum, Heribert (*with* Lisky, S.; Rannacher, Rolf) A domain splitting algorithm for parabolic problems. (English and German summaries) **93f:65071**

Bowers, Kenneth L. *see* **Lund, John**, **93i:65004**

Bożek, Bogusław (*with* Holly, Konstanty; Olajossy, Andrzej) Stationary Navier-Stokes equations: on qualitative and numerical aspects of the Galerkin method. (Polish summary) **93a:76074**

Bykov, A. A. (*with* Sveshnikov, A. G.; Trubetskov, M. K.) Application of the incomplete Galerkin method for calculating eigenwaves in open wave guides. (Russian) **93a:78001**

Cao, Wei Ming *see* **Guo, Ben Yu**, **93b:76072**

Cervera, Miguel *see* **Codina, Ramon; et al.**, (**93j:00009**)

Chacón Rebollo, Tomás *see* **Bless Ranero, Ibrahím**, (**93j:00009**)

Chalot, Frédéric L. (*with* Hughes, Thomas J. R.) Analysis of hypersonic flows in thermo-chemical equilibrium by application of the Galerkin/least-squares formulation. (*see* **93b:00026**)

Cheng, Xiao Liang (*with* Jiang, Jin Sheng) The velocity-pressure Q_2-Q_1 finite element. (Chinese. English summary) **93d:76038**

Choo, Yung K. *see* **Eiseman, Peter R.; et al.**, (**93e:76050**)

Cialkowski, M. J. (*with* Grysa, K.; Jankowski, J.) Inverse problems of the linear nonstationary heat transfer equation. **93f:80014**

Codina, Ramon (*with* Cervera, Miguel; Oñate, Eugenio) A finite-element formulation for the analysis of incompressible viscous flow. (Spanish. Spanish summary) (*see* **93j:00009**)

Eiseman, Peter R. (*with* Choo, Yung K.; Smith, Robert E.) Algebraic grid generation with control points. (*see* **93e:76050**)

Eljendy, A. Numerical approach to the exact controllability of hyperbolic systems. (*see* **93b:49001**)

Elliott, Charles M. *see* **Blowey, J. F.**, **93g:80007**

Feodoritova, O. B. *see* **Zhukov, V. T.; et al.**, **93c:76070**

Ganjoo, D. K. *see* **Tezduyar, T. E.; et al.**, **93h:76050**

Glowinski, Roland (*with* Pironneau, Olivier) Finite element methods for Navier-Stokes equations. **93c:76059**

— *see also* **Tezduyar, T. E.; et al.**, **93h:76050**

Gottlieb, J. J. *see* **Hawken, D. F.; et al.**, **93m:65119**

Grysa, K. *see* **Cialkowski, M. J.; et al.**, **93f:80014**

Guo, Ben Yu (*with* Cao, Wei Ming) Spectral-finite element method for compressible fluid flows. (French summary) **93b:76072**

— *see also* **Ma, He Ping**, **93f:76077**

Hansen, J. S. *see* **Hawken, D. F.; et al.**, **93m:65119**

Hassan, O. (*with* Morgan, Kenneth; Peraire, J.) Finite-element solution scheme for compressible viscous flow. (*see* **93e:76050**)

Hawken, D. F. (*with* Hansen, J. S.; Gottlieb, J. J.) A new finite-difference solution-adaptive method. (English summary) **93m:65119**

Heinrich, Juan C. *see* **Pepper, Darrell W.**, **93f:65001**

Holly, Konstanty *see* **Bożek, Bogusław; et al.**, **93a:76074**

Hugger, Jens Adaptive recovery of near optimal meshes in the finite element method for parameter dependent problems. (English summary) **93h:65138**

Hughes, Thomas J. R. *see* **Chalot, Frédéric L.**, (**93b:00026**)

Jaffard, Stéphane (*with* Laurençot, Ph.) Orthonormal wavelets, analysis of operators, and applications to numerical analysis. **93h:42024**

Jankowski, J. *see* **Cialkowski, M. J.; et al.**, **93f:80014**

Jiang, Jin Sheng *see* **Cheng, Xiao Liang**, **93d:76038**

Kirby, Michael Minimal dynamical systems from PDEs using Sobolev eigenfunctions. (English summary) **93f:58217**

Lamm, Patricia K. (*with* Rosen, I. G.) An approximation theory for the estimation of parameters in degenerate Cauchy problems. **93c:47084**

Laurençot, Ph. *see* **Jaffard, Stéphane**, **93h:42024**

Lin, Qun *see* **Zhu, Qi Ding**, **93j:65191**

Liou, Jiannteng *see* **Tezduyar, T. E.; et al.**, **93h:76050**

Lisky, S. *see* **Blum, Heribert; et al.**, **93f:65071**

Löhner, Rainald Adaptive remeshing for transient problems with moving bodies. (*see* **93e:76050**)

Lü, Tao (*with* Neittaanmäki, Pekka; Tai, Xue Cheng) A parallel splitting-up method for partial differential equations and its applications to Navier-Stokes equations. (English and French summaries) **93i:65111**

Lund, John (*with* Bowers, Kenneth L.) ★ Sinc methods for quadrature and differential equations. **93i:65004**

Ma, He Ping (*with* Guo, Ben Yu) Combined finite element and pseudospectral method for three-dimensional vorticity equations. **93f:76077**

Mackey, Michael C. *see* **Rey, Alejandro D.**, **93b:92017**

Marmorat, Jean-Paul (*with* Payre, G.; Zolésio, Jean-Paul) A convergent finite element scheme for a wave equation with a moving boundary. **93d:65100**

Mel'nik, V. N. (*with* Moskal'kov, M. N.) Difference schemes and the analysis of approximate solutions for two-dimensional nonstationary problems of coupled electro-elasticity. (Russian) **93a:65115**

Migórski, Stanisław (*with* Schaefer, Robert) The existence aspects of Dupuit and Boussinesq filtration models using finite element method. (*see* **93e:76002**)

Monk, Peter A comparison of three mixed methods for the time-dependent Maxwell's equations. (English summary) **93j:65184**

Morgan, Kenneth *see* **Hassan, O.; et al.**, (**93e:76050**)

Moskal'kov, M. N. *see* **Mel'nik, V. N.**, **93a:65115**

Nakao, Mitsuhiro T. Numerical verification methods for the solutions of nonlinear elliptic and evolution problems. (English summary) **93j:65185**

Neittaanmäki, Pekka *see* **Lü, Tao; et al.**, **93i:65111**

Neta, B. Analysis of finite elements and finite differences for shallow water equations: a review. (English summary) **93g:76081**

Olajossy, Andrzej *see* **Bożek, Bogusław; et al.**, **93a:76074**

Oñate, Eugenio *see* **Codina, Ramon; et al.**, (**93j:00009**)

Ortiz, P. A Taylor-Galerkin implicit-explicit generalisation for convective diffusion equations. (English summary) (*see* **93g:76002**)

Paolini, M. (*with* Verdi, Claudio) Asymptotic and numerical analyses of the mean curvature flow with a space-dependent relaxation parameter. **93h:35101**

Payre, G. *see* **Marmorat, Jean-Paul; et al.**, **93d:65100**

Pepper, Darrell W. (*with* Heinrich, Juan C.) ★ The finite element method. **93f:65001**

Peraire, J. *see* **Hassan, O.; et al.**, (**93e:76050**)

Petryshyn, W. V. Nonlinear Friedrichs' extension of K-strongly stable operators and the error estimate for the Galerkin method. **93f:47085**

Pironneau, Olivier *see* **Glowinski, Roland**, **93c:76059**

Rannacher, Rolf *see* **Blum, Heribert; et al.**, **93f:65071**

Rey, Alejandro D. (*with* Mackey, Michael C.) Bifurcations and traveling waves in a delayed partial differential equation. **93b:92017**

Rosen, I. G. *see* **Lamm, Patricia K.**, **93c:47084**

Ruas, V. Finite-element methods for three-dimensional incompressible viscous flow. **93h:76049**

Schaefer, Robert *see* **Migórski, Stanisław**, (**93e:76002**)

Schwarz, Hans-Rudolf ★ Methode der finiten Elemente. (German) [The finite element method] **93e:65002**

Smith, Robert E. *see* **Eiseman, Peter R.; et al.**, (**93e:76050**)

Sonar, Th. On the design of an upwind scheme for compressible flow on general triangulations. (English summary) **93k:65073**

Stroucken, A. C. J. (*with* Verhulst, F.) The Galerkin-averaging method for nonlinear, undamped continuous systems. (English summary) **93g:35095**

Sveshnikov, A. G. *see* **Bykov, A. A.; et al.**, **93a:78001**

Tai, Xue Cheng *see* **Lü, Tao; et al.**, **93i:65111**

Tenion, D. Approximation dans un problème de viscoélasticité périodique. (English summary) [Approximation in a periodic viscoelasticity problem] **93j:73038**

Tezduyar, T. E. Stabilized finite element formulations for incompressible flow computations. **93f:76069**

— (*with* Liou, Jiannteng; Ganjoo, D. K.; Behr, M.; Głowinski, Roland) Unsteady incompressible flow computations with the finite-element method. **93h:76050**

Trubetskov, M. K. *see* **Bykov, A. A.; et al.**, **93a:78001**

Verdi, Claudio *see* **Paolini, M.**, **93h:35101**

Verhulst, F. *see* **Stroucken, A. C. J.**, **93g:35095**

Wang, Guo Ying (*with* Wu, Zhao Jin) A variational-difference method for solving singular perturbation problems for parabolic partial differential equations. (Chinese. English and Chinese summaries) **93j:65138**

Wu, Zhao Jin *see* **Wang, Guo Ying**, **93j:65138**

Xu, Jinchao Iterative methods by space decomposition and subspace correction. (English summary) **93k:65029**

Yang, Dan Ping Coupled finite element and characteristics methods for displacement problems of two-phase flow in porous media, and error estimates for them. (Chinese. English and Chinese summaries) **93j:65189**

Yserentant, Harry Hierarchical bases. (*see* **93b:00026**)

Zabrodin, A. V. *see* **Zhukov, V. T.; et al., 93c:76070**

Zhou, Ai Hui An extrapolation method for finite element approximation of integro-differential equations with parameters. (English summary) **93h:65173**

Zhu, Qi Ding (*with* Lin, Qun) ★ Youxianyuan chaoshoulian lilun. (Chinese) [The hyperconvergence theory of finite elements] **93j:65191**

Zhukov, V. T. (*with* Zabrodin, A. V.; Feodoritova, O. B.) A scheme for solving nonstationary two-dimensional equations of gas dynamics with heat conduction on moving curvilinear grids. (Russian) **93c:76070**

Zolésio, Jean-Paul *see* **Marmorat, Jean-Paul; et al., 93d:65100**

65M70 Spectral, collocation and related methods

Ali, A. H. A. (*with* Gardner, G. A.; Gardner, L. R. T.) A collocation solution for Burgers' equation using cubic B-spline finite elements. (English summary) **93j:65156**

Bayliss, Alvin (*with* Belytschko, Ted; Hansen, David; Turkel, Eli) Adaptive multi-domain spectral methods. (English summary) (*see* **93g:65009**)

Belytschko, Ted *see* **Bayliss, Alvin; et al., (93g:65009)**

Blyth, W. F. *see* **Sloss, B. G., 93e:65123**

Bottcher, C. (*with* Strayer, M. R.) Spline methods for conservation equations. (English summary) **93m:65147**

Bressan, Nicoletta (*with* Pavoni, Donatella) Truncation versus mapping in the spectral approximation to the Korteweg-de Vries equation. (English summary) (*see* **93d:65005**)

Cai, Wei (*with* Gottlieb, David; Harten, Ami) Cell averaging Chebyshev methods for hyperbolic problems. **93c:65118**

Cao, Wei Ming (*with* Guo, Ben Yu) A pseudospectral method for solving Navier-Stokes equations. **93c:65119**

— (*with* Guo, Ben Yu) A Fourier-Chebyshev spectral method for three-dimensional vorticity equations with unilateral periodic boundary conditions. (English summary) **93j:65157**

— *see also* **Guo, Ben Yu, 93b:65148** *and* **93j:65159**

Carlenzoli, Claudio (*with* Quarteroni, Alfio; Valli, Alberto) Spectral domain decomposition methods for compressible Navier-Stokes equations. (English summary) **93h:65123**

Cloot, A. (*with* Weideman, J. A. C.) An adaptive algorithm for spectral computations on unbounded domains. (English summary) **93h:65124**

— *see also* **Weideman, J. A. C., (93d:65005)**

Dahlburg, R. B. (*with* Picone, J. M.) Pseudospectral simulation of compressible magneto-hydrodynamic turbulence. (English summary) (*see* **93d:65005**)

E, Weinan Convergence of spectral methods for Burgers' equation. (English summary) **93j:65158**

Eldred, L. B. *see* **Kapania, R. K., 93e:65122**

Foster, Ian (*with* Gropp, William D.; Stevens, Rick L.) Parallel scalability of the spectral transform method. (English summary) (*see* **93g:65178**)

Fröhlich, J. (*with* Peyret, Roger) Calculations of non-Boussinesq convection by a pseudospectral method. (English summary) (*see* **93d:65005**)

de Frutos, Javier (*with* Ortega, Tomás; Sanz-Serna, J. M.) A Hamiltonian, explicit algorithm with spectral accuracy for the "good" Boussinesq system. (English summary) (*see* **93d:65005**)

Gardner, G. A. *see* **Ali, A. H. A.; et al., 93j:65156**

Gardner, L. R. T. *see* **Ali, A. H. A.; et al., 93j:65156**

Gottlieb, David *see* **Cai, Wei; et al., 93c:65118**

Gropp, William D. *see* **Foster, Ian; et al., (93g:65178)**

Guo, Ben Yu (*with* Cao, Wei Ming) Spectral-finite element method for solving three-dimensional vorticity equations. **93b:65148**

— (*with* Xiong, Yue Shan) A spectral-difference method for solving the three-dimensional vorticity equation. I. (Chinese summary) **93b:65149**

— (*with* Xiong, Yue Shan) A spectral-difference method for solving the three-dimensional vorticity equation. II. (Chinese summary) **93b:65150**

— (*with* Cao, Wei Ming) Spectral-finite element method for compressible fluid flow. (Chinese. English and Chinese summaries) **93j:65159**

— *see also* **Cao, Wei Ming, 93c:65119** *and* **93j:65157**

Hansen, David *see* **Bayliss, Alvin; et al., (93g:65009)**

Harten, Ami *see* **Cai, Wei; et al., 93c:65118**

Heinrichs, Wilhelm Splitting techniques for the pseudospectral approximation of the unsteady Stokes equations. (English summary) **93i:65097**

Ierley, Glenn (*with* Spencer, Brian; Worthing, Rodney) Spectral methods in time for a class of parabolic partial differential equations. (English summary) **93e:65121**

Kapania, R. K. (*with* Eldred, L. B.) Solution of nonlinear partial differential equations using the Chebyshev spectral method. (English summary) **93e:65122**

Karniadakis, George Em. *see* **Sidilkover, David, (93g:65009)**

Kosloff, Dan (*with* Tal-Ezer, Hillel) A modified Chebyshev pseudospectral method with an $O(N^{-1})$ time step restriction. (English summary) **93k:65080**

Koterov, V. N. (*with* Krasnovskii, A. G.) A spectral-difference method for computing acoustic perturbations induced by a local heat source in a moving medium. (Russian) **93d:65089**

Krasnovskii, A. G. *see* **Koterov, V. N., 93d:65089**

Li, Guang Ye² (*with* Wang, Zhuo Jin) A pseudospectral method for the nonlinear Schrödinger equation. (Chinese. English and Chinese summaries) **93i:65098**

Maday, Yvon (*with* Ould Kaber, Sidi M.; Tadmor, Eitan) Legendre pseudospectral viscosity method for nonlinear conservation laws. (English summary) **93m:65148**

Majda, George *see* **Wei, Mu Sheng, 93k:65081**

Merryfield, William J. (*with* Shizgal, Bernie) Properties of collocation third-derivative operators.

Mulholland, L. S. (*with* Sloan, David M.) The role of preconditioning in the solution of evolutionary partial differential equations by implicit Fourier pseudospectral methods. (English summary) **93j:65160**

Ortega, Tomás *see* **de Frutos, Javier; et al., (93d:65005)**

Ould Kaber, Sidi M. *see* **Maday, Yvon; et al., 93m:65148**

Pavoni, Donatella *see* **Bressan, Nicoletta, (93d:65005)**

Pelz, Richard B. Pseudospectral methods on massively parallel computers. (English summary) (*see* **93d:65005**)

Peyret, Roger The Chebyshev multidomain approach to stiff problems in fluid mechanics. (English summary) (*see* **93d:65005**)

— *see also* **Fröhlich, J., (93d:65005)**

Phillips, Timothy N. Spectral domain decomposition techniques for viscous incompressible flows. (English summary) (*see* **93d:65005**)

Picone, J. M. *see* **Dahlburg, R. B., (93d:65005)**

Priimak, V. G. A family of pseudospectral algorithms for integration of Navier-Stokes equations in a cylindrical coordinate system. (Russian. Russian summary) **93j:65161**

Quarteroni, Alfio *see* **Carlenzoli, Claudio; et al., 93h:65123**

Renaut, Rosemary A. (*with* Woo, M. L.) Parallel pseudospectral methods for the solution of the wave equation. (English summary) (*see* **93d:73004**)

Ringhofer, Christian On the convergence of spectral methods for the Wigner-Poisson problem. **93c:65120**

Sanz-Serna, J. M. *see* **de Frutos, Javier; et al., (93d:65005)**

Shizgal, Bernie *see* **Merryfield, William J.**

Sidilkover, David (*with* Karniadakis, George Em.) Nonoscillatory spectral element Chebyshev method for shock wave calculations. (English summary) (*see* **93g:65009**)

Sloan, David M. *see* **Mulholland, L. S., 93j:65160**

Sloss, B. G. (*with* Blyth, W. F.) A pseudospectral Walsh function method. **93e:65123**

Spencer, Brian *see* **Ierley, Glenn; et al., 93e:65121**

Stevens, Rick L. *see* **Foster, Ian; et al., (93g:65178)**

Strayer, M. R. *see* **Bottcher, C., 93m:65147**

Tadmor, Eitan Shock capturing by the spectral viscosity method. (English summary) (*see* **93d:65005**)

— *see also* **Maday, Yvon; et al., 93m:65148**

Tal-Ezer, Hillel *see* **Kosloff, Dan, 93k:65080**

Turkel, Eli *see* **Bayliss, Alvin; et al., (93g:65009)**

Valli, Alberto *see* **Carlenzoli, Claudio; et al., 93h:65123**

Wang, Dao Liu Semi-discrete Fourier spectral approximations of infinite-dimensional Hamiltonian systems and conservation laws. **93b:65151**

Wang, Zhuo Jin *see* **Li, Guang Ye², 93i:65098**

Wei, Mu Sheng (*with* Majda, George) Numerical computation of the scattering frequencies for a cylindrically symmetric potential. (English summary) **93k:65081**

Weideman, J. A. C. (*with* Cloot, A.) Spectral methods and mappings for evolution equations on the infinite line. (English summary) (*see* **93d:65005**)

— *see also* **Cloot, A., 93h:65124**

Woo, M. L. *see* **Renaut, Rosemary A., (93d:73004)**

Worthing, Rodney *see* **Ierley, Glenn; et al., 93e:65121**

Xiong, Yue Shan *see* **Guo, Ben Yu, 93b:65149** *and* **93b:65150**

Items with secondary classifications in 65M70

Bialecki, Bernard (*with* Fernandes, Ryan I.) Orthogonal spline collocation Laplace-modified and alternating-direction methods for parabolic problems on rectangles. (English summary) **93h:65142**

(Canuto, Claudio) *see* **Spectral and high order methods for partial differential equations, 93d:65005**

Cao, Wei Ming *see* **Guo, Ben Yu, 93b:76072** *and* **93d:76048**

Deville, M. O. *see* **Schneidesch, C. R.**

Fernandes, Ryan I. *see* **Bialecki, Bernard, 93h:65142**

Givi, Peyman *see* **McMurtry, Patrick A., (93e:76050)**

Guillard, H. (*with* Malé, J. M.; Peyret, Roger) Adaptive spectral methods with application to mixing layer computations. (English summary) **93e:76057**

Guo, Ben Yu (*with* Ma, He Ping; Cao, Wei Ming; Huang, Hui) The Fourier-Chebyshev spectral method for solving two-dimensional unsteady vorticity equations. **93d:76048**

— (*with* Cao, Wei Ming) Spectral-finite element method for compressible fluid flows. (French summary) **93b:76072**

— *see also* **Ma, He Ping, 93f:76077**

Hadjidimos, Apostolos (*with* Saridakis, Yiannis G.) Modified successive overrelaxation (MSOR) and equivalent 2-step iterative methods for collocation matrices. (English summary) **93h:65057**

Huang, Hui *see* **Guo, Ben Yu; et al., 93d:76048**

Ma, He Ping (*with* Guo, Ben Yu) Combined finite element and pseudospectral method for three-dimensional vorticity equations. **93f:76077**

— *see also* **Guo, Ben Yu; et al., 93d:76048**

Malé, J. M. *see* **Guillard, H.; et al., 93e:76057**

McMurtry, Patrick A. (*with* Givi, Peyman) Direct numerical simulations of a reacting turbulent mixing layer by a pseudospectral-spectral element method. (*see* **93e:76050**)

Peyret, Roger *see* **Guillard, H.; et al., 93e:76057**

Prössdorf, Siegfried (*with* Schneider, Reinhold) Spline approximation methods for multidimensional periodic pseudodifferential equations. **93g:65125**

(Quarteroni, Alfio) *see* **Spectral and high order methods for partial differential equations, 93d:65005**

Rank, E. Adaptivity and accuracy estimation for FEM and BIEM. (*see* **93m:65005**)

Reddy, Satish C. (*with* Trefethen, Lloyd N.) Lax-stability of fully discrete spectral methods via stability regions and pseudo-eigenvalues. (English summary) **93e:65115**

Sabatier, Pierre C. Spectral transform for nonlinear evolution equations with N discrete space dimensions. (English summary) **93j:35191**

Saridakis, Yiannis G. *see* **Hadjidimos, Apostolos, 93h:65057**

Schneider, Reinhold *see* **Prössdorf, Siegfried, 93g:65125**

Schneidesch, C. R. (*with* Deville, M. O.) Chebyshev collocation method and multi-domain decomposition for Navier-Stokes equations in complex curved geometries. (English summary)

Trefethen, Lloyd N. *see* **Reddy, Satish C., 93e:65115**

Yang, Dan Ping Boundary integro-differential equations and a boundary element method for parabolic initial-boundary value problems. (Chinese. Chinese summary) **93j:65154**

Items listed otherwise than by author

Como ★ Spectral and high order methods for partial differential equations. **93d:65005**

Conference:

Spectral and High Order Methods for Partial Differnetial Equations ★ Spectral and high order methods for partial differential equations. **93d:65005**

Spectral and high order methods for partial differential equations ★ Spectral and high order methods for partial differential equations. **93d:65005**

65M99 None of the above, but in this section

Abrashin, V. N. (*with* Zhadaeva, N. G.) An efficient method for solving multidimensional problems in mathematical physics. (Russian) (*see* **93f:34004**)

Alonso Rodríguez, Ana Numerical solution of the semilinear heat equation with strong absorption. (Spanish) (*see* **93j:00009**)

Aubry, Nadine (*with* Lian, Wen Yu; Titi, Edriss S.) Preserving symmetries in the proper orthogonal decomposition. (English summary) **93m:65149**

Averin, A. V. (*with* Voloshchenko, A. M.) A consistent P_1 synthetic acceleration method for outer iterations. (Russian. English summary) **93c:65121**

Black, Kelly Decoupled smooth interfaces for spectral-element approximations of parabolic or elliptic type. (English summary)

Bornemann, Folkmar A. An adaptive multilevel approach to parabolic equations. III. 2D error estimation and multilevel preconditioning. **93g:65126**

Brewster, M. E. Numerical bifurcation analysis of free-boundary problems. (*see* **93k:00035**)

Bun′, R. A. (*with* Vasil′ev, E. D.) A numerical method for solving differential equations with an arbitrary order of derivatives. (Russian) **93b:65152**

Calzada Canalejo, M. C. (*with* Song, Yu) A numerical algorithm for flame advection and propagation. (English summary) **93h:65125**

— *see also* **Cruz Soto, J. L.; et al.**

Cannon, John R. (*with* Matheson, Alec L.) A numerical procedure for diffusion subject to the specification of mass. (English summary) **93k:65082**

Chulik, I. I. *see* **Korkuna, M. D.; et al.**

Cruz Soto, J. L. (*with* Calzada Canalejo, M. C.; Marín Beltrán, M.; Fernández Cara, Enrique) A parallel algorithm for solving the incompressible Navier-Stokes problem. (English summary)

Dahleh, Marie Dillon Fast numerical method for the solution of the quasigeostrophic vorticity equation. (English summary)

Davis, Stephen F. An interface tracking method for hyperbolic systems of conservation laws. (English summary)

De Vuyst, Florian Un nouveau schéma numérique pour la résolution des équations d'Euler compressibles. (English summary) [A new numerical scheme for solving the compressible Euler equations] **93d:65090**

Donat, Rosa (*with* Osher, Stanley) Propagation of error into regions of smoothness for nonlinear approximations to hyperbolic equations. (*see* **93d:65005**)

Esimova, S. T. A procedure for smoothing the nonsmooth terms of the asymptotic expansion of the solution of a system of parabolic-type singularly perturbed equations. (Russian. Russian summary) **93f:65077**

Ewing, Richard E. (*with* Lazarov, R. D.; Vassilev, A. T.) Adaptive techniques for time-dependent problems. (English summary) **93i:65099**

Feng, Chao Kang The local and far field approximate solutions of the heat conduction equation with cylindrical symmetry. (*see* **93a:41001**)

Fernández Cara, Enrique *see* **Cruz Soto, J. L.; et al.**

Fitzsimons, Conor J. (*with* Liu, Fa Wang; Miller, John J. H.) A second-order L-stable time discretisation of the semiconductor device equations. (English summary) **93i:65100**

Freistühler, Heinrich (*with* Pitman, E. Bruce) A numerical study of a rotationally degenerate hyperbolic system. I. The Riemann problem. **93a:65132**

Glasner, Moses (*with* Yevick, David; Hermansson, Björn) Generalized propagation techniques for longitudinally varying refractive index distributions. (English summary) **93e:65124**

Gubal′, L. O. *see* **Kostenko, V. G.**

Harten, Ami Recent developments in shock-capturing schemes. **93c:65122**

Hermansson, Björn *see* **Glasner, Moses; et al., 93e:65124**

Hills, Norman L. (*with* Irwin, John M.; Mulla, Fuad) Numerical solution of the heat equation by infinite-order ordinary differential equations. (English summary) **93m:65150**

Hinestroza G., Doris *see* **Murio, Diego A., 93i:65103**

Holden, Helge (*with* Holden, Lars) On scalar conservation laws in one dimension. (English summary) **93i:65101**

Holden, Lars *see* **Holden, Helge, 93i:65101**

Hsu, C. A. *see* **Yang, J. Y.; et al., 93h:65127**

Hui, W. H. *see* **Yang, J. Y.; et al., 93h:65127**

Irwin, John M. *see* **Hills, Norman L.; et al., 93m:65150**

Iserles, Arieh Rational approximants and numerical methods for initial value problems. (English summary) **93j:65162**

Jódar, Lucas A method for solving coupled initial-boundary value systems of second order partial differential equations: exact and accurate approximate solutions. (English summary) **93g:65127**

Karni, Smadar Viscous shock profiles and primitive formulations. (English summary) **93j:65163**

Khapko, R. S. The first boundary value problem for the telegraph equation on nonclosed contours. (Ukrainian. Russian summary)

— Three approaches to the numerical solution of nonstationary problems on nonclosed surfaces by means of the method of integral equations. (Russian. English and Russian summaries) **93d:65091**

Korkuna, M. D. (*with* Kuzik, A. M.; Chulik, I. I.) Application of the method of summary approximation for the solution of a nonlinear problem of heat conduction. (Ukrainian)

— (*with* Kuzik, A. M.; Chulik, I. I.) Investigation of the convergence rate of the summary approximation method in the class $W_2^{1,0}(Q_T)$. (Ukrainian)

Korzeniowski, Andrzej Probabilistic viscosity algorithm for the scalar conservation law. **93b:65153**

Kostenko, V. G. (*with* Gubal′, L. O.) Approximate solution of a mixed problem for a two-dimensional parabolic system of equations. (Ukrainian. Russian summary)

Kostin, I. N. Numerical construction of an attractor of the Navier-Stokes systems. (Russian. English and Russian summaries) **93g:65128**

Kuzik, A. M. *see* **Korkuna, M. D.; et al.**

Lazarov, R. D. *see* **Ewing, Richard E.; et al., 93i:65099**

Lian, Wen Yu *see* **Aubry, Nadine; et al., 93m:65149**

Liandrat, J. (*with* Perrier, V.; Tchamitchian, Ph.) Numerical resolution of nonlinear partial differential equations using the wavelet approach. (*see* **93e:00031**)

Liu, Fa Wang *see* **Fitzsimons, Conor J.; et al., 93i:65100**

Lyudkevich, I. V. (*with* Skaskīv, R. B.) Numerical solution of the Dirichlet boundary value problem for the heat equation by the methods of integral transformations and integral equations in the case of nonclosed axisymmetric surfaces. (Ukrainian)

Marín Beltrán, M. *see* **Cruz Soto, J. L.; et al.**

Marquina, A. *see* **Martínez, V. J., (93j:00009)**

Martínez, V. J. (*with* Marquina, A.) Shooting methods for diffusion-absorption processes. (Spanish. English summary) (*see* **93j:00009**)

Matheson, Alec L. *see* **Cannon, John R., 93k:65082**

Miller, John J. H. *see* **Fitzsimons, Conor J.; et al., 93i:65100**

Moll, V. Polygonal approximation to the flow on the critical surface for the bistable equation. (English summary) **93i:65102**

Mulla, Fuad *see* **Hills, Norman L.; et al., 93m:65150**

Murio, Diego A. (*with* Hinestroza G., Doris) The space marching solution of the inverse heat conduction problem and the identification of the initial temperature distribution. (English summary) **93i:65103**

Nataf, Frédéric (*with* Rogier, François) Factorization of the advection-diffusion operator and domain decomposition method. (English summary) (*see* **93m:65006**)

Neittaanmäki, Pekka *see* **Tai, Xue Cheng, (93a:41001)**

Nesenenko, G. A. Generalization of the method of reflections in the approximate solution of boundary value problems for the heat equation with a small parameter. (Russian) (*see* **93k:00024**)

Osher, Stanley *see* **Donat, Rosa, (93d:65005)**

Pavlush, M. The Schwarz algorithm for solving a quasiparabolic equation. (Russian. Russian summary) **93m:65151**

Perrier, V. *see* **Liandrat, J.; et al., (93e:00031)**

Piessens, Robert *see* **Vandewalle, Stefan, 93g:65129**

Pitman, E. Bruce *see* **Freistühler, Heinrich, 93a:65132**

Pustovoit, S. P. An integral-iterative method for solving a boundary value problem for an oscillation equation on a segment of variable length. (Russian. Russian summary) (*see* **93k:00022**)

Rogier, François *see* **Nataf, Frédéric, (93m:65006)**

Roy Choudhury, S. Waveform relaxation techniques for linear and nonlinear diffusion equations. (English summary)

Skaskīv, R. B. *see* **Lyudkevich, I. V.**

Song, Yu *see* **Calzada Canalejo, M. C., 93h:65125**

Tai, Xue Cheng (*with* Neittaanmäki, Pekka) An FE-splitting-up method and its application to distributed parameter in parabolic equations. (*see* **93a:41001**)

Tchamitchian, Ph. *see* **Liandrat, J.; et al., (93e:00031)**

Temam, Roger New emerging methods in numerical analysis: the nonlinear Galerkin method, the incremental unknown method. (English summary) (*see* **93j:00009**)

Titi, Edriss S. *see* **Aubry, Nadine; et al., 93m:65149**

Toumi, I. A weak formulation of Roe's approximate Riemann solver. (English summary) **93h:65126**

Vandewalle, Stefan (*with* Piessens, Robert) Efficient parallel algorithms for solving initial-boundary value and time-periodic parabolic partial differential equations. (English summary) **93g:65129**

Vasil′ev, E. D. *see* **Bun′, R. A., 93b:65152**

Vassilev, A. T. *see* **Ewing, Richard E.; et al., 93i:65099**

Voloshchenko, A. M. *see* **Averin, A. V., 93c:65121**

Voloshin, S. A. A stable method for calculating weak solutions of a quasilinear equation. (Russian) (*see* **93m:35001**)

Wall, David J. N. On the numerical solution of a functional-differential equation pertaining to a wave equation. (English summary) **93j:65164**

Yang, J. Y. (*with* Hsu, C. A.; Hui, W. H.) A generalized Lagrangian method for solving the steady shallow water equations. (English summary) **93h:65127**

Yevick, David *see* **Glasner, Moses; et al., 93e:65124**

Yukhno, L. F. A variant of a numerical method for solving non-one-dimensional hyperbolic systems. (Russian) **93c:65123**

Zhadaeva, N. G. *see* **Abrashin, V. N., (93f:34004)**

Items with secondary classifications in 65M99

Alpert, Bradley K. Wavelets and other bases for fast numerical linear algebra. **93f:65094**

Bekakos, M. P. (*with* Evans, David J.) The double alternating group explicit method for nonlinear parabolic equations on MIMD parallel computers. (English summary)

Bensoussan, Alain Splitting up method in the context of stochastic PDE. (*see* **93b:60006**)

Bilenko, V. I. Integro-approximational method for the modelling of certain class of nonlinear dynamic objects. (*see* **93a:65004**)

Bloor, M. I. G. (*with* Wilson, Michael John) Free-form surfaces from partial differential equations. (*see* **93g:65027**)

Bourgat, Jean-François (*with* Le Tallec, Patrick; Tidriri, Driss; Qiu, Youchim) Numerical coupling of nonconservative or kinetic models with the conservative compressible Navier-Stokes equations. (English summary) (*see* **93g:65009**)

Cao, Wei Ming *see* **Guo, Ben Yu, 93g:76079**

Cardy, John L. Random initial conditions and nonlinear relaxation. **93h:82066**

Causon, D. M. *see* **Clarke, N.; et al., (93b:76002)**

Chévrier, P. (*with* Galley, H.) A van Leer finite volume scheme for the Euler equations on unstructured meshes. (English and French summaries) **93k:76080**

Clarke, N. (*with* Saunders, Robert; Causon, D. M.) A convenient entropy satisfying T.V.D. scheme for computational aerodynamics. (*see* **93b:76002**)
Croisille, Jean-Pierre (*with* Delorme, Philippe) Kinetic symmetrizations and pressure laws for the Euler equations. (English and French summaries) **93g:76098**
Deconinck, H. *see* **Roe, Philip L.; et al.,** (**93e:76002**)
Deineka, V. S. *see* **Skopetskii, V. V.; et al., 93d:73068**
Delorme, Philippe *see* **Croisille, Jean-Pierre, 93g:76098**
Drennan, W. M. (*with* Hui, W. H.; Tenti, G.) Accurate calculations of Stokes water waves of large amplitude. (French summary) **93b:76010**
E, Weinan Homogenization of scalar conservation laws with oscillatory forcing terms. **93d:35096**
Evans, David J. *see* **Bekakos, M. P.**
Foias, Ciprian (*with* Manley, Oscar P.; Temam, Roger) Approximate inertial manifolds and effective viscosity in turbulent flows. (English summary) **93m:76052**
Galley, H. *see* **Chévrier, P., 93k:76080**
Garaizar, Xabier Solution of a Riemann problem for elasticity. **93g:73048**
Giordana, Claudia (*with* Mochi, Marina; Zirilli, Francesco) The numerical solution of an inverse problem for a class of one-dimensional diffusion equations with piecewise constant coefficients. **93a:35154**
Guo, Ben Yu (*with* Cao, Wei Ming) A combined spectral-finite element method for solving two-dimensional unsteady Navier-Stokes equations. **93g:76079**
Gustafson, Karl E. (*with* Halasi, K.) The flow semigroup approximation problem. **93m:47073**
Halasi, K. *see* **Gustafson, Karl E., 93m:47073**
Harabetian, Eduard A subcell resolution method for viscous systems of conservation laws. (English summary) **93i:76068**
Hui, W. H. *see* **Drennan, W. M.; et al., 93b:76010**
Jones, Don A. (*with* Titi, Edriss S.) Determining finite volume elements for the 2D Navier-Stokes equations. (English summary) **93j:35133**
Klibanov, M. V. (*with* Rakesh) Numerical solution of a time-like Cauchy problem for the wave equation. (English summary) **93h:35117**
Kunik, Matthias A numerical method for some initial value problems of one scalar hyperbolic conservation law. (English summary) **93h:35125**
Le Tallec, Patrick *see* **Bourgat, Jean-François; et al., (93g:65009)**
Lubich, Ch. (*with* Schneider, Reinhold) Time discretization of parabolic boundary integral equations. (English summary) **93j:65224**
Manley, Oscar P. *see* **Foias, Ciprian; et al., 93m:76052**
Marchenko, O. A. *see* **Skopetskii, V. V.; et al., 93d:73068**
Mayo, Anita A. (*with* Peskin, Charles S.) An implicit numerical method for fluid dynamics problems with immersed elastic boundaries. (English summary) **93k:76132**
Merriman, Barry Particle approximation. **93e:76059**
Militzer, Julio *see* **Sun, Yu Ping, 93h:65157**
Mitchell, Andrew Ronald Attractors in long time solutions of discretised nonlinear systems. (English summary) (*see* **93g:76002**)
Mochi, Marina *see* **Giordana, Claudia; et al., 93a:35154**
Palencia de Lara, C. A stability result for sectorial operators in Banach spaces. (English summary) **93j:47060**
Pershin, I. V. (*with* Titov, V. A.; Shishkin, G. I.) Approximation of solutions of heat equations for rapid processes in moving media. (Russian. Russian summary) **93k:35119**
Peskin, Charles S. *see* **Mayo, Anita A., 93k:76132**
Qiu, Youchim *see* **Bourgat, Jean-François; et al., (93g:65009)**
Rakesh *see* **Klibanov, M. V., 93h:35117**
Razgulin, A. V. (*with* Tikhomirov, O. Yu.) Investigation of an initial-boundary value problem for the Maxwell-Bloch equation. (Russian) **93f:65090**
Renaut, Rosemary A. Absorbing boundary conditions, difference operators, and stability. (English summary) **93g:65158**
Risebro, Nils Henrik (*with* Tveito, Aslak) A front tracking method for conservation laws in one dimension. **93c:76069**
Roe, Philip L. (*with* Deconinck, H.; Struijs, R. J.) Recent progress in multidimensional upwinding. (*see* **93e:76002**)
Russell, Robert D. (*with* Sloan, David M.; Trummer, Manfred R.) Some numerical aspects of computing inertial manifolds. (English summary) **93h:65160**
Saunders, Robert *see* **Clarke, N.; et al., (93b:76002)**
Schneider, Reinhold *see* **Lubich, Ch., 93j:65224**
Shcheglov, A. Yu. A method for the approximate solution of an inverse problem for the heat equation. (Russian) **93d:35180**
Shishkin, G. I. *see* **Pershin, I. V.; et al., 93k:35119**
Skopetskii, V. V. (*with* Deineka, V. S.; Marchenko, O. A.) Discretization of a dynamic problem in the theory of elasticity that admits a discontinuity in the solution. (Russian) **93d:73068**
Sloan, David M. *see* **Russell, Robert D.; et al., 93h:65160**
Struijs, R. J. *see* **Roe, Philip L.; et al., (93e:76002)**
Sun, Yu Ping (*with* Militzer, Julio) The piecewise parabolic finite analytic method. I. Theory. (English summary) **93h:65157**
Tang, Tao A finite difference scheme for partial integro-differential equations with a weakly singular kernel. (English summary) **93h:65169**
Temam, Roger *see* **Foias, Ciprian; et al., 93m:76052**
Tenti, G. *see* **Drennan, W. M.; et al., 93b:76010**
Tidriri, Driss *see* **Bourgat, Jean-François; et al., (93g:65009)**
Tikhomirov, O. Yu. *see* **Razgulin, A. V., 93f:65090**
Titi, Edriss S. *see* **Jones, Don A., 93j:35133**
Titov, V. A. *see* **Pershin, I. V.; et al., 93k:35119**
Toro, E. F. Riemann problems and the WAF method for solving the two-dimensional shallow water equations. **93a:76079**
Trummer, Manfred R. *see* **Russell, Robert D.; et al., 93h:65160**
Tsachev, Tsvetomir J. Optimal control of linear parabolic equation: the constrained right-hand side as control function. (English summary) **93i:49029**
Tveito, Aslak *see* **Risebro, Nils Henrik, 93c:76069**
Tyson, John J. *see* **Weimar, Jörg R.; et al., 93b:65199** *and* **(93g:65178)**
Urmancheva, L. B. A numerical-analytical method for solving two-point problems for systems of hyperbolic equations. (Russian) **93c:35157**
Watson, Layne T. *see* **Weimar, Jörg R.; et al., 93b:65199** *and* **(93g:65178)**
Weimar, Jörg R. (*with* Tyson, John J.; Watson, Layne T.) Third generation cellular automaton for modeling excitable media. (English summary) (*see* **93g:65178**)
— (*with* Tyson, John J.; Watson, Layne T.) Diffusion and wave propagation in cellular automaton models of excitable media. **93b:65199**
Wilson, Michael John *see* **Bloor, M. I. G., (93g:65027)**
Zarnowski, Roger E. Existence, uniqueness, and computation of solutions for mixed problems in compressible fluid flow. (English summary) **93i:35108**
Zirilli, Francesco *see* **Giordana, Claudia; et al., 93a:35154**

65Nxx Partial differential equations, boundary value problems

Items with secondary classifications in 65Nxx

(Chan, Tony F. C.) *see* **Proceedings: Conference on Scientific Computation, 93d:65004**
Farin, Gerald ★ Curves and surfaces for computer aided geometric design. (English. English summary) **93k:65016**
(Guo, Ben Yu) *see* **Numerical methods for partial differential equations, 93b:65006**
Karchevskii, M. M. (*with* Lyashko, A. D.; Pavlova, M. F.) ★ Методы вычислений: численные методы решения дифференциальных уравнений. (Russian) [Computational methods: numerical methods for solving differential equations] **93a:65001**
Korbicz, Józef (*with* Zajda, Zbigniew; Solnik, Włodzimierz; Uciński, Dariusz) ★ Wybrane metody numerycznego rozwiązywania równań różniczkowych cząstkowych. (Polish) [Selected methods for the numerical solution of partial differential equations] **93e:65001**
Lyashko, A. D. *see* **Karchevskii, M. M.; et al., 93a:65001**
(Marek, Ivo) *see* **Proceedings: Symposium on Numerical Analysis, 93b:65007**
Pavlova, M. F. *see* **Karchevskii, M. M.; et al., 93a:65001**
(Shi, Zhong Ci) *see* **Proceedings: Conference on Scientific Computation, 93d:65004**
Solnik, Włodzimierz *see* **Korbicz, Józef; et al., 93e:65001**
Uciński, Dariusz *see* **Korbicz, Józef; et al., 93e:65001**
Werschulz, Arthur G. ★ The computational complexity of differential and integral equations. **93a:68061**
(Ying, Long An) *see* **Numerical methods for partial differential equations, 93b:65006**
Zajda, Zbigniew *see* **Korbicz, Józef; et al., 93e:65001**

Items listed otherwise than by author

Conference:
Numerical Methods for Partial Differential Equations ★ Numerical methods for partial differential equations. **93b:65006**
Scientific Computation ★ Proceedings of International Conference on Scientific Computation. **93d:65004**
Hangzhou ★ Proceedings of International Conference on Scientific Computation. **93d:65004**
Numerical methods for partial differential equations ★ Numerical methods for partial differential equations. **93b:65006**
Prague ★ Proceedings of the Second International Symposium on Numerical Analysis. **93b:65007**
Proceedings:
Conference on Scientific Computation ★ Proceedings of International Conference on Scientific Computation. **93d:65004**
Symposium on Numerical Analysis ★ Proceedings of the Second International Symposium on Numerical Analysis. **93b:65007**
Symposium:
Numerical Analysis ★ Proceedings of the Second International Symposium on Numerical Analysis. **93b:65007**
Tianjin ★ Numerical methods for partial differential equations. **93b:65006**

65N06 Finite difference methods

Baldybekov, D. A. Iterative schemes of the method of fictitious domains for a difference biharmonic problem. (Russian) (*see* **93m:35006**)
Bayada, Guy *see* **Jai, M.; et al., 93g:65130**
Beckers, J. M. Analytical linear numerical stability conditions for an anisotropic three-dimensional advection-diffusion equation. **93a:65133**
Büttgenbach, B. (*with* Esser, Henning; Lüttgens, G.; Nessel, R. J.) A sharp error estimate for the numerical solution of a Dirichlet problem for the Poisson equation. (English summary) **93m:65152**
Chambat, Michèle *see* **Jai, M.; et al., 93g:65130**
Chanov, A. V. (*with* Lomonosova, I. V.) Numerical solution of problems in two-component sorption dynamics. (Russian. English and Russian summaries) **93j:65165**
Chen, Zhong Ying The error estimate of generalized difference method of 3rd-order Hermite type for elliptic partial differential equations. (English summary) **93e:65125**
Choudury, Gilbert (*with* Korman, Philip) On computation of solutions of fully nonlinear elliptic problems. (English summary) **93j:65166**
Čiegis, Raimondas On the difference schemes for problems with nonlocal boundary conditions. (Russian and Lithuanian summaries) **93a:65134**
— (*with* Čiegis, Rem.) Asymptotic stability of efficient difference schemes. (Russian. English and Lithuanian summaries) **93b:65154**
Čiegis, Rem. *see* **Čiegis, Raimondas, 93b:65154**
Clavero Gracia, Carmelo (*with* Jorge, J. C.; Lisbona, F.) Exponential-fitting and alternating-directions schemes for multidimensional stationary convection-diffusion problems. (Spanish. English summary) (*see* **93j:00009**)
Dosiev, A. A. A block-grid method of increased accuracy for the solution of the Laplace equation on polygons. (Russian) **93k:65083**
Drëmov, O. A. (*with* Koldoba, A. V.; Poveshchenko, Yu. A.) Study of difference schemes of the supporting operator method. (Russian. Russian summary) **93k:65084**

Esser, Henning *see* **Büttgenbach, B.; et al., 93m:65152**
Evans, David J. *see* **Yousif, W. S.**
Ewing, Richard E. (*with* Lazarov, R. D.; Vassilevski, Panayot S.) Local refinement techniques for elliptic problems on cell-centered grids. III. Algebraic multilevel BEPS preconditioners. **93e:65126**
Faille, I. A control volume method to solve an elliptic equation on a two-dimensional irregular mesh. (English summary) **93j:65167**
Fornberg, Bengt (*with* Meyer-Spasche, Rita) A finite difference procedure for a class of free boundary problems. (English summary) **93e:65127**
Gavrilyuk, I. P. (*with* Grekov, L. D.) A difference scheme for the biharmonic equation with a nonlinear boundary condition. (Russian) **93b:65155**
Grekov, L. D. *see* **Gavrilyuk, I. P., 93b:65155**
Gu, Cheng Lin (*with* Li, Lang Ru; Zhou, Ke Ding) A network analysis and the graph theory of three-dimensional difference schemes. (Chinese. English summary) **93c:65124**
Haftmann, Rolf Variational inequalities for discrete exterior boundary value problems. **93b:65156**
Hara, Veikko *see* **Liniger, Werner; et al., 93k:65085**
Harley, P. J. *see* **Pickering, W. M., 93m:65153**
Henkel, C. S. *see* **Sarsour, H. N.; et al., (93g:65178)**
Ho, Lee-Wing (*with* Maday, Yvon; Patera, Anthony T.; Rønquist, Einar M.) A high-order Lagrangian-decoupling method for the incompressible Navier-Stokes equations. (English summary) (*see* **93d:65005**)
Jai, M. (*with* Bayada, Guy; Chambat, Michèle) The L.P.D.E.M., a mixed finite difference method for elliptic problems. (English summary) **93g:65130**
Jain, Mahinder Kumar (*with* Jain, Rajinder Kumar; Mohanty, R. K.) Fourth-order finite difference method for three-dimensional elliptic equations with nonlinear first-derivative terms. (English summary) **93h:65128**
Jain, Rajinder Kumar *see* **Jain, Mahinder Kumar; et al., 93h:65128**
Jorge, J. C. *see* **Clavero Gracia, Carmelo; et al., (93j:00009)**
Koldoba, A. V. *see* **Drěmov, O. A.; et al., 93k:65084**
Korman, Philip *see* **Choudury, Gilbert, 93j:65166**
Kucherov, A. B. (*with* Makarov, M. M.) An approximate factorization method for solving discrete elliptic problems on stretched domains. **93d:65092**
Lazarov, R. D. *see* **Ewing, Richard E.; et al., 93e:65126** *and* **Vassilevski, Panayot S.; et al., 93m:65156**
Li, Lang Ru *see* **Gu, Cheng Lin; et al., 93c:65124**
Liang, Dong Generalized difference scheme methods for second-order elliptic equations. (Chinese. English summary) **93c:65125**
Lindae, Andreas On shooting methods for the discrete Helmholtz equation with constant coefficients. (English summary) **93i:65104**
Liniger, Werner (*with* Odeh, Farouk; Hara, Veikko) A second-order sparse factorization method for Poisson's equation with mixed boundary conditions. (English summary) **93k:65085**
Lisbona, F. *see* **Clavero Gracia, Carmelo; et al., (93j:00009)**
Lohéac, J.-P. (*with* Nataf, Frédéric; Schatzman, Michelle) Parabolic approximations of the convection-diffusion equation. **93h:65129**
Lomonosova, I. V. *see* **Chanov, A. V., 93j:65165**
Lüttgens, G. *see* **Büttgenbach, B.; et al., 93m:65152**
Maday, Yvon *see* **Ho, Lee-Wing; et al., (93d:65005)**
Makarov, M. M. *see* **Kucherov, A. B., 93d:65092**
Makarov, Vladimir Leonidovich *see* **Voitsekhovskii, S. A.; et al., 93b:65159**
Meyer-Spasche, Rita *see* **Fornberg, Bengt, 93e:65127**
Mohanty, R. K. *see* **Jain, Mahinder Kumar; et al., 93h:65128**
Murio, Diego A. Numerical identification of interface source functions in heat transfer problems under nonlinear boundary conditions. **93a:65135**
— Solution of inverse heat conduction problems with phase changes by the mollification method. **93c:65126**
Nataf, Frédéric *see* **Lohéac, J.-P.; et al., 93h:65129**
Nessel, R. J. *see* **Büttgenbach, B.; et al., 93m:65152**
Novichenko, V. N. *see* **Voitsekhovskii, S. A., 93j:65169**
Odeh, Farouk *see* **Liniger, Werner; et al., 93k:65085**
Patera, Anthony T. *see* **Ho, Lee-Wing; et al., (93d:65005)**
Petrova, S. I. *see* **Vassilevski, Panayot S.; et al., 93m:65156**
Pickering, W. M. (*with* Harley, P. J.) FFT solution of the Robbins problem. (English summary) **93m:65153**
Poveshchenko, Yu. A. *see* **Drěmov, O. A.; et al., 93k:65084**
Radunović, Desanka Some modifications of finite-difference schemes for the elliptic singular problem. (English and Serbo-Croatian summaries) **93h:65130**
Rønquist, Einar M. *see* **Ho, Lee-Wing; et al., (93d:65005)**
Rybak, Yu. I. *see* **Voitsekhovskii, S. A.; et al., 93b:65159**
Sander, S. A. Localization of a boundary condition in variational-difference approximation in a polar coordinate system. (Russian) (*see* **93i:65007**)
Sarsour, H. N. (*with* Turinsky, P. J.; Henkel, C. S.) Parallel solution of the few-group neutron diffusion equations. (English summary) (*see* **93g:65178**)
Schatzman, Michelle *see* **Lohéac, J.-P.; et al., 93h:65129**
Sha, Zhen (*with* Zhang, Nan Song; Zhao, De Ping; Wang, Xiang) Approximate solution to the parabolic equations and their picture display on the computer. **93a:65136**
Shen, Quan *see* **Su, Yu Cheng, 93e:65128**
Shishkin, G. I. Methods of constructing grid approximations for singularly perturbed boundary-value problems. Condensing-grid methods. (English summary) **93m:65154**
— A difference scheme for a singularly perturbed parabolic equation that is degenerate on the boundary. (Russian) **93b:65157**
Sleptsov, A. G. Collocation-difference solution of elliptic boundary value problems. (Russian. Russian summary) **93j:65168**
Sorokin, S. B. ★ Об одном экономичном итерационном методе реализации метода фиктивных областей. (Russian. English and Russian summaries) [An efficient iterative method for realizing the method of fictitious domains] **93d:65093**
Stys, Tadeusz A finite-difference scheme overconvergent at certain mesh points. (English summary) **93g:65131**
Su, Yu Cheng (*with* Zhang, You Yu) Difference scheme for an initial-boundary value problem for linear coefficient-varied parabolic differential equation with a nonsmooth boundary layer function. (Chinese. English summary) **93c:65127**
— (*with* Shen, Quan) The numerical solution of a singularly perturbed problem for quasilinear parabolic differential equation. (Chinese. English and Chinese summaries) **93e:65128**
Tagiev, F. A. An approximate solution of the Tricomi problem for equations of mixed type by the finite difference method. (Russian. Russian summary) **93m:65155**
Turinsky, P. J. *see* **Sarsour, H. N.; et al., (93g:65178)**
Vassilevski, Panayot S. (*with* Petrova, S. I.; Lazarov, R. D.) Finite difference schemes on triangular cell-centered grids with local refinement. (English summary) **93m:65156**
— *see also* **Ewing, Richard E.; et al., 93e:65126**
Voitsekhovskaya, T. G. An estimate for the rate of convergence of difference schemes for quasilinear elliptic equations with solutions in the class W_2^1. (Russian) **93b:65158**
Voitsekhovskii, S. A. (*with* Makarov, Vladimir Leonidovich; Rybak, Yu. I.) Estimates for the rate of convergence of a difference approximation of the Dirichlet problem for the Helmholtz equation with a coefficient from a "negative" space. (Russian) **93b:65159**
— (*with* Novichenko, V. N.) An estimate for the convergence of difference schemes for second-order elliptic equations in domains of arbitrary form. (Russian) **93j:65169**
— An estimate for the rate of convergence of difference schemes for fourth-order elliptic equations in domains of arbitrary form. (Russian) **93b:65160**
Wang, Jin Xian[1] The parallel block preconditioned conjugate gradient algorithm. (English summary) **93h:65131**
Wang, Wen Qia *see* **Yuan, Yi Rang; et al., 93h:65132**
Wang, Xiang *see* **Sha, Zhen; et al., 93a:65136**
Wood, A. S. A note on the use of the isotherm migration method. **93b:65161**
Yang, Dan Ping A coupling method of difference with high order accuracy and boundary integral equation for evolutionary equation and its error estimates. (Chinese. English summary) **93a:65137**
— *see also* **Yuan, Yi Rang; et al., 93h:65132**
Yousif, W. S. (*with* Evans, David J.) Explicit block iterative method for the solution of the biharmonic equation. (English summary)
Yuan, Yi Rang (*with* Wang, Wen Qia; Yang, Dan Ping) Difference methods for a system of partial differential equations arising in the numerical simulation of petroleum origin and accumulation in basin evolution and a numerical analysis. (Chinese. English and Chinese summaries) **93h:65132**
Zhang, Nan Song *see* **Sha, Zhen; et al., 93a:65136**
Zhang, You Yu *see* **Su, Yu Cheng, 93c:65127**
Zhao, De Ping *see* **Sha, Zhen; et al., 93a:65136**
Zhou, Ke Ding *see* **Gu, Cheng Lin; et al., 93c:65124**

Items with secondary classifications in 65N06

Al'shanskii, M. A. (*with* Mel'nikova, I. V.; Freiberg, A. Yu.) Numerical realization of the method of boundary value problems. (Russian) **93c:65095**
Amiez, G. (*with* Gremaud, P.-A.) Error estimates for Euler forward scheme related to two-phase Stefan problems. (French summary) **93a:65144**
Bernard, Robert S. A MacCormack scheme for incompressible flow. **93d:76045**
Blatov, I. A. Estimates for elements of inverse matrices and modifications of the matrix sweep method. (Russian) **93j:65044**
Embergenov, A. *see* **Lyashenko, I. N.; et al., 93b:65164**
Favorskii, A. P. *see* **Samarskii, A. A.; et al., (93e:76002)**
Freiberg, A. Yu. *see* **Al'shanskii, M. A.; et al., 93c:65095**
Glaister, P. A finite difference scheme for steady, supersonic, two-dimensional, compressible flow of real gases. **93b:76060**
Greenbaum, Anne Diagonal scalings of the Laplacian as preconditioners for other elliptic differential operators. **93c:65047**
Gremaud, P.-A. *see* **Amiez, G., 93a:65144**
Hall, Charles A. (*with* Ye, Xiu) Construction of null bases for the divergence operator associated with incompressible Navier-Stokes equations. **93c:65142**
Huckle, Thomas A note on skewcirculant preconditioners for elliptic problems. (English summary) **93g:65048**
Lu, Jin Fu *see* **Wang, Guang De, 93d:76044**
Lu, Tong Chao *see* **Yang, Dan Ping, (93b:65008)**
Lyashenko, I. N. (*with* Embergenov, A.; Meredov, Kh.) A combined difference scheme for the eigenvalue problem of the Laplace operator. (Russian) **93b:65164**
Mel'nik, S. I. Investigation of an explicit difference scheme for the nonstationary Stokes problem. (Russian) **93b:76061**
Mel'nikova, I. V. *see* **Al'shanskii, M. A.; et al., 93c:65095**
Meredov, Kh. *see* **Lyashenko, I. N.; et al., 93b:65164**
Mickens, Ronald E. A new finite-difference scheme for Schrödinger type partial differential equations. (English summary) (*see* **93j:76002**)
Militzer, Julio *see* **Sun, Yu Ping, 93h:65157**
Renaut, Rosemary A. Stability of one-way wave equations as absorbing boundary conditions for the wave equation. (English summary) (*see* **93d:73004**)
Samarskii, A. A. (*with* Favorskii, A. P.; Tishkin, V. F.; Vasilevskii, V. F.; Vyaznikov, K. V.) Construction high order monotonous difference schemes on nonregular grids. (*see* **93e:76002**)
Schechter, Ervin Numerical approximation and existence of the solution of a nonlinear parabolic equation. **93i:35085**
Shishkin, G. I. Difference approximation of a singularly perturbed boundary value problem for quasilinear elliptic equations that degenerate into a first-order equation. (Russian) **93b:35050**
Sun, Yu Ping (*with* Militzer, Julio) The piecewise parabolic finite analytic method. I. Theory. (English summary) **93h:65157**
Tishkin, V. F. *see* **Samarskii, A. A.; et al., (93e:76002)**
Vasilevskii, V. F. *see* **Samarskii, A. A.; et al., (93e:76002)**
Vyaznikov, K. V. *see* **Samarskii, A. A.; et al., (93e:76002)**
Wang, Guang De (*with* Lu, Jin Fu) A characteristic-difference method for solving vorticity equations for stream functions. (Chinese. English summary) **93d:76044**
Ward, William A., Jr. Numerically generated basis functions for elliptic boundary value problems. (English summary) **93h:65106**

Yang, Dan Ping (*with* Lu, Tong Chao) High order difference-boundary integral differential equation method for 2-D parabolic equation and error analysis. (*see* **93b:65008**)
Ye, Xiu *see* **Hall, Charles A., 93c:65142**

65N12 Stability and convergence of numerical methods

Douglas, Craig C. (*with* Mandel, Jan) An abstract theory for the domain reduction method. (German summary) **93b:65162**
Gladkii, A. V. *see* **Sergienko, I. V.; et al., 93g:65132**
Huang, Ming You *see* **Zheng, Quan[1], 93c:65128**
Kuo, Hung Ju (*with* Trudinger, Neil S.) Discrete methods for fully nonlinear elliptic equations. **93e:65129**
Lei, Jin Gan (*with* Xu, Jia Mo) On the convergence of projective approximate solutions for nonlinear differential equation with discontinuous right-hand side. (*see* **93b:65006**)
Liang, Dong A viscosity splitting numerical simulation method for two-phase miscible displacement problem. (*see* **93d:65004**)
Mandel, Jan *see* **Douglas, Craig C., 93b:65162**
Odeh, Farouk *see* **Reichelt, M.; et al., (93k:65003)**
Reichelt, M. (*with* Odeh, Farouk; White, J.) *A*-stability of multirate integration methods, with application to parallel semiconductor device simulation. (English summary) (*see* **93k:65003**)
Sergienko, I. V. (*with* Gladkii, A. V.; Skopetskii, V. V.) Stability of difference schemes for linear-fractional approximations of the Helmholtz equation. (Russian. English and Russian summaries) **93g:65132**
Skopetskii, V. V. *see* **Sergienko, I. V.; et al., 93g:65132**
Trudinger, Neil S. *see* **Kuo, Hung Ju, 93e:65129**
Voevodin, A. F. Stability of Thom conditions for the Stokes difference boundary value problem. (Russian. Russian summary)
White, J. *see* **Reichelt, M.; et al., (93k:65003)**
Xu, Jia Mo *see* **Lei, Jin Gan, (93b:65006)**
Zheng, Quan[1] (*with* Huang, Ming You) A simplified viscosity splitting method for solving the initial boundary value problems of Navier-Stokes equation. **93c:65128**
Zhuk, M. V. Investigation of the rate of convergence of the Kantorovich method for the Neumann problem. (Ukrainian. Russian summary)

Items with secondary classifications in 65N12

Banks, H. T. (*with* Ito, Kazufumi; Wang, Chunming) Exponentially stable approximations of weakly damped wave equations. **93f:35132**
Barbieri, R. *see* **Filippin, C. G.; et al., (93b:65002)**
de Barcellos, C. S. *see* **Filippin, C. G.; et al., (93b:65002)**
Bayada, Guy *see* **Jai, M.; et al., 93g:65130**
Bialecki, Bernard (*with* Fernandes, Ryan I.) Orthogonal spline collocation Laplace-modified and alternating-direction methods for parabolic problems on rectangles. (English summary) **93h:65142**
Bogachev, K. Yu. Iterative methods of solving main boundary value problems for second-order quasilinear elliptic equations in complexly shaped domains. (English summary) **93j:65199**
Braess, Dietrich *see* **Peisker, P., 93j:73070**
Brenner, Susanne C. (*with* Sung, Li-Yeng) Linear finite element methods for planar linear elasticity. **93a:73078**
Büttgenbach, B. (*with* Esser, Henning; Lüttgens, G.; Nessel, R. J.) A sharp error estimate for the numerical solution of a Dirichlet problem for the Poisson equation. (English summary) **93m:65152**
Casas Rentería, Eduardo Analysis of convergence in the numerical approximation of control problems with state constraints. (Spanish) (*see* **93j:00009**)
Chambat, Michèle *see* **Jai, M.; et al., 93g:65130**
Chen, Shao Chun *see* **Shi, Zhong Ci, 93b:65179**
Chondury, Gilbert (*with* Lasiecka, Irena) Optimal convergence rates for semidiscrete approximations of parabolic problems with nonsmooth boundary data. **93e:65134**
Čiegis, Raimondas On the difference schemes for problems with nonlocal boundary conditions. (Russian and Lithuanian summaries) **93a:65134**
— (*with* Čiegis, Rem.) Asymptotic stability of efficient difference schemes. (Russian. English and Lithuanian summaries) **93b:65154**
Čiegis, Rem. *see* **Čiegis, Raimondas, 93b:65154**
Cockburn, Bernardo (*with* Triandaf, Ioana) Convergence of a finite element method for the drift-diffusion semiconductor device equations: the zero diffusion case. **93f:65080**
Devulder, Christophe (*with* Marion, Martine; Titi, Edriss S.) On the rate of convergence of the nonlinear Galerkin methods. **93h:76017**
Dobson, David C. Convergence of a reconstruction method for the inverse conductivity problem. **93c:35159**
Doi, Shun *see* **Watanabe, Hiroshi, (93e:65040)**
Dolzmann, G. (*with* Frehse, J.) Optimale asymptotische Konvergenz linearer finiter Elemente bei elliptischen Problemen mit Hilfe von Campanato-Abschätzungen. [Optimal asymptotic convergence of linear finite elements in elliptical problems with the aid of Campanato estimates] **93j:65177**
Esser, Henning *see* **Büttgenbach, B.; et al., 93m:65152**
Evans, David J. *see* **Yousif, W. S.**
Faille, I. A control volume method to solve an elliptic equation on a two-dimensional irregular mesh. (English summary) **93j:65167**
Fernandes, Ryan I. *see* **Bialecki, Bernard, 93h:65142**
Filippin, C. G. (*with* Barbieri, R.; de Barcellos, C. S.) Numerical results for *h*- and *p*-convergences for the modified local Green's function method. (English summary) (*see* **93b:65002**)
Frehse, J. *see* **Dolzmann, G., 93j:65177**
García-Archilla, B. (*with* Mackenzie, J. A.) Supraconvergence analysis for a cell-vertex scheme for the convection-diffusion equation. (English summary) **93k:65074**
Griffiths, D. F. (*with* Mitchell, Andrew Ronald) Spurious behaviour and nonlinear instability in discretised partial differential equations. **93f:65068**
Haftmann, Rolf Variational inequalities for discrete exterior boundary value problems. **93b:65156**
Ito, Kazufumi *see* **Banks, H. T.; et al., 93f:35132**
Jai, M. (*with* Bayada, Guy; Chambat, Michèle) The L.P.D.E.M., a mixed finite difference method for elliptic problems. (English summary) **93g:65130**
Kantchev, Vesselin Superconvergence of the gradient for linear finite elements for nonlinear elliptic problems. (*see* **93b:65007**)
Korshiya, T. K. (*with* Lobzhanidze, G. B.) Decomposition approaches to the numerical solution of nonlocal boundary value problems. (Russian. English and Georgian summaries) **93b:65104**
Křížek, Michal *see* **Neittaanmäki, Pekka, (93b:65007)**
Lasiecka, Irena *see* **Choudury, Gilbert, 93e:65134**
Li, Zi-Cai Optimal convergence rates for the combined methods of different finite element methods. **93b:65170**
Liang, Dong Generalized difference scheme methods for second-order elliptic equations. (Chinese. English summary) **93c:65125**
Lin, Qun Interpolated finite elements and global superconvergence. (*see* **93b:65006**)
Lobzhanidze, G. B. *see* **Korshiya, T. K., 93b:65104**
Lüttgens, G. *see* **Büttgenbach, B.; et al., 93m:65152**
Mackenzie, J. A. *see* **García-Archilla, B., 93k:65074**
Makarov, Vladimir Leonidovich *see* **Voitsekhovskii, S. A.; et al., 93b:65159**
Marion, Martine *see* **Devulder, Christophe; et al., 93h:76017**
Mel'nik, S. I. Investigation of an explicit difference scheme for the nonstationary Stokes problem. (Russian) **93b:76061**
Miersemann, Erich (*with* Mittelmann, H. D.) Stability in obstacle problems for the von Kármán plate. (English summary) **93h:35081**
Mitchell, Andrew Ronald *see* **Griffiths, D. F., 93f:65068**
Mittelmann, H. D. *see* **Miersemann, Erich, 93h:35081**
Murio, Diego A. Numerical identification of interface source functions in heat transfer problems under nonlinear boundary conditions. **93a:65135**
Neittaanmäki, Pekka (*with* Křížek, Michal) On $O(h^4)$-superconvergence of piecewise bilinear FE-approximations. (*see* **93b:65007**)
Nessel, R. J. *see* **Büttgenbach, B.; et al., 93m:65152**
Novichenko, V. N. *see* **Voitsekhovskii, S. A., 93j:65169**
Papini, Alessandra One-dimensional collocation at Gaussian points and superconvergence at interior nodal points. (Italian summary) **93a:65161**
Peisker, P. (*with* Braess, Dietrich) Uniform convergence of mixed interpolated elements for Reissner-Mindlin plates. (English and French summaries) **93j:73070**
Rizza, A. Numerical analysis of a self-adaptive formulation for the viscous/inviscid coupling. **93b:76058**
Rybak, Yu. I. *see* **Voitsekhovskii, S. A.; et al., 93b:65159**
Serdyukova, S. I. Stability in C of difference boundary value problems. (Russian) **93a:39009**
Shi, Zhong Ci (*with* Chen, Shao Chun) Convergence of a nine-parameter generalized conforming element. **93b:65179**
Sorokin, S. B. ★ Об одном экономичном итерационном методе реализации метода фиктивных областей. (Russian. English and Russian summaries) [An efficient iterative method for realizing the method of fictitious domains] **93d:65093**
Still, G. On density and approximation properties of special solutions of the Helmholtz equation. (English, German and Russian summaries) **93g:35029**
Su, Yu Cheng (*with* Zhang, You Yu) Difference scheme for an initial-boundary value problem for linear coefficient-varied parabolic differential equation with a nonsmooth boundary layer function. (Chinese. English summary) **93c:65127**
Sung, Li-Yeng *see* **Brenner, Susanne C., 93a:73078**
Tagiev, F. A. An approximate solution of the Tricomi problem for equations of mixed type by the finite difference method. (Russian. Russian summary) **93m:65155**
Titi, Edriss S. *see* **Devulder, Christophe; et al., 93h:76017**
Triandaf, Ioana *see* **Cockburn, Bernardo, 93f:65080**
Voevodin, A. F. Stability and realization of implicit schemes for the Stokes equations. (Russian. Russian summary) **93j:65141**
Voitsekhovskaya, T. G. An estimate for the rate of convergence of difference schemes for quasilinear elliptic equations with solutions in the class W_2^1. (Russian) **93b:65158**
Voitsekhovskii, S. A. (*with* Makarov, Vladimir Leonidovich; Rybak, Yu. I.) Estimates for the rate of convergence of a difference approximation of the Dirichlet problem for the Helmholtz equation with a coefficient from a "negative" space. (Russian) **93b:65159**
— (*with* Novichenko, V. N.) An estimate for the convergence of difference schemes for second-order elliptic equations in domains of arbitrary form. (Russian) **93j:65169**
— An estimate for the rate of convergence of difference schemes for fourth-order elliptic equations in domains of arbitrary form. (Russian) **93b:65160**
Wang, Chunming *see* **Banks, H. T.; et al., 93f:35132**
Watanabe, Hiroshi (*with* Doi, Shun) A comparison of Bi-CGSTAB and CGS methods for convection-diffusion equations. (English summary) (*see* **93e:65040**)
White, Luther W. Estimation of elastic parameters in a von Kármán model. **93h:35068**
Yakubenya, A. N. A method for constructing efficient algorithms for the numerical solution of Stefan problems on grids adapted to a free boundary. I. (Russian. English summary) **93a:65169**
Yousif, W. S. (*with* Evans, David J.) Explicit block iterative method for the solution of the biharmonic equation. (English summary)
Zhang, You Yu *see* **Su, Yu Cheng, 93c:65127**
Zlotnik, A. A. Properties of the projection-difference method with a quasisplitting operator for second-order hyperbolic equations. (Russian) **93d:65083**

65N15 Error bounds

Ainsworth, Mark (*with* Oden, J. Tinsley) A posteriori error estimators for second order elliptic systems. I. Theoretical foundations and a posteriori error analysis. (English summary) **93j:65170**
Axelsson, Owe A priori bounds and discretization error estimates for parabolic problems. (*see* **93b:65007**)
Ben Dhia, Hachmi Numerical analysis of a bidimensional Hencky problem approximated by a discontinuous finite element method. **93c:65129**

Chipot, Michel (*with* Collins, Charles) Numerical approximations in variational problems with potential wells. **93j:65171**
Collatz, Lothar Applications of functional analysis and approximation theory to elliptic boundary value problems. **93d:65094**
Collins, Charles *see* **Chipot, Michel, 93j:65171**
Eriksson, Kenneth (*with* Johnson, Claes) Adaptive streamline diffusion finite element methods for stationary convection-diffusion problems. **93d:65095**
Fairweather, Graeme *see* **Yan, Yi, 93c:65130**
Haque, K. A. *see* **Strouboulis, T., 93a:65138** *and* **93j:65172**
Johnson, Claes *see* **Eriksson, Kenneth, 93d:65095**
Mao, K. M. (*with* Sun, C. T.) Error estimators using global-local methods. (English summary) **93e:65130**
Oden, J. Tinsley *see* **Ainsworth, Mark, 93j:65170**
Prikazchikov, V. G. The principal term of the expansion of eigenvalue error in a discrete analogue of a fourth-order elliptic operator. (Russian. Russian summary) **93g:65133**
Strouboulis, T. (*with* Haque, K. A.) Recent experiences with error estimation and adaptivity. I. Review of error estimators for scalar elliptic problems. **93a:65138**
— (*with* Haque, K. A.) Recent experiences with error estimation and adaptivity. II. Error estimation for *h*-adaptive approximations on grids of triangles and quadrilaterals. (English summary) **93j:65172**
Sun, C. T. *see* **Mao, K. M., 93e:65130**
Yan, Yi (*with* Fairweather, Graeme) Orthogonal spline collocation methods for some partial integrodifferential equations. **93c:65130**

Items with secondary classifications in 65N15

Angermann, Lutz An a posteriori estimation for the solution of elliptic boundary value problems by means of upwind FEM. **93g:65139**
Babuška, Ivo M. (*with* Plank, Lothar; Rodríguez, Rodolfo) Quality assessment of the a posteriori error estimation in finite elements. **93c:65137**
— (*with* Durán, Ricardo; Rodríguez, Rodolfo) Analysis of the efficiency of an a posteriori error estimator for linear triangular finite elements. **93d:65096**
— (*with* Rodríguez, Rodolfo) The problem of the selection of an a posteriori error indicator based on smoothening techniques. (English summary) **93k:65089**
Baranger, Jacques (*with* El Amri, Hassan) A posteriori error estimators for mixed finite element approximation of some quasi-Newtonian flows. (Portuguese summary) **93f:76065**
Brilla, Jozef Error analysis for Laplace transform–boundary element solution of parabolic equations. (*see* **93b:65007**)
Chen, Zhong Ying The error estimate of generalized difference method of 3rd-order Hermite type for elliptic partial differential equations. (English summary) **93e:65125**
Chou, So-Hsiang (*with* Li, Qian) Error estimates for mixed finite element methods for nonlinear parabolic problems. **93e:65133**
Chow, S.-S. Finite element error estimates for a blast furnace gas flow problem. **93a:65147**
Dong, Chun Ying *see* **Yao, Zhen Han, (93b:65008)**
Durán, Ricardo (*with* Muschietti, María Amelia; Rodríguez, Rodolfo) Asymptotically exact error estimators for rectangular finite elements. **93a:65148**
— *see also* **Babuška, Ivo M.; et al., 93d:65096**
El Amri, Hassan *see* **Baranger, Jacques, 93f:76065**
Ewing, Richard E. (*with* Lazarov, R. D.; Vassilevski, Panayot S.) Local refinement techniques for elliptic problems on cell-centered grids. III. Algebraic multilevel BEPS preconditioners. **93e:65126**
Hsiao, George C. (*with* Kleinman, Ralph E.) Feasible error estimates in boundary element methods. (English summary) (*see* **93b:65002**)
Kleinman, Ralph E. *see* **Hsiao, George C., (93b:65002)**
Lazarov, R. D. *see* **Ewing, Richard E.; et al., 93e:65126** *and* **Vassilevski, Panayot S.; et al., 93m:65156**
Li, Qian *see* **Chou, So-Hsiang, 93e:65133**
Li, Zi-Cai Optimal convergence rates for the combined methods of different finite element methods. **93b:65170**
Lohéac, J.-P. (*with* Nataf, Frédéric; Schatzman, Michelle) Parabolic approximations of the convection-diffusion equation. **93h:65129**
Lu, Tong Chao A characteristic-collocation method for convection-diffusion problems. (Chinese. English summary) **93c:65145**
— *see also* **Yang, Dan Ping, (93b:65008)**
Maday, Yvon (*with* Rønquist, Einar M.) Optimal error analysis of spectral methods with emphasis on nonconstant coefficients and deformed geometries. (English summary) **93e:65142**
Mons, P. (*with* Rogé, G.) L'élément Q_1-bulle/Q_1. (English summary) [The Q_1-bubble/Q_1 element] **93b:65174**
Morton, K. W. (*with* Murdoch, T.; Süli, Endre) Optimal error estimation for Petrov-Galerkin methods in two dimensions. **93e:65138**
Murdoch, T. *see* **Morton, K. W.; et al., 93e:65138**
Muschietti, María Amelia *see* **Durán, Ricardo; et al., 93a:65148**
Nakao, Mitsuhiro T. (*with* Yamamoto, Nobito) Numerical verifications of solutions for elliptic equations with strong nonlinearity. **93b:65175**
— Computable error estimates for FEM and numerical verification of solutions for nonlinear PDEs. (English summary) **93k:65097**
Nataf, Frédéric *see* **Lohéac, J.-P.; et al., 93h:65129**
Petrova, S. I. *see* **Vassilevski, Panayot S.; et al., 93m:65156**
Plank, Lothar *see* **Babuška, Ivo M.; et al., 93c:65137**
Plum, Michael Numerical existence proofs and explicit bounds for solutions of nonlinear elliptic boundary value problems. (English and German summaries) **93f:35079**
Prikazchikov, V. G. The principal term of the expansion of eigenvalue error in a discrete analogue of an elliptic operator. (Russian. Russian summary) **93i:65106**
Rodríguez, Rodolfo *see* **Durán, Ricardo; et al., 93a:65148**; **Babuška, Ivo M.; et al., 93c:65137**; **93d:65096** *and* **93k:65089**
Rogé, G. *see* **Mons, P., 93b:65174**
Rønquist, Einar M. *see* **Maday, Yvon, 93e:65142**
Schatzman, Michelle *see* **Lohéac, J.-P.; et al., 93h:65129**
Süli, Endre The accuracy of cell vertex finite volume methods on quadrilateral meshes. **93a:65158**
— *see also* **Morton, K. W.; et al., 93e:65138**
Swann, Howard On the use of Lagrange multipliers in domain decomposition for solving elliptic problems. **93d:65101**
Vassilevski, Panayot S. (*with* Petrova, S. I.; Lazarov, R. D.) Finite difference schemes on triangular cell-centered grids with local refinement. (English summary) **93m:65156**
— *see also* **Ewing, Richard E.; et al., 93e:65126**
Wendland, Wolfgang L. (*with* Yu, De Hao) A posteriori local error estimates of boundary element methods with some pseudo-differential equations on closed curves. **93d:65105**
Yamamoto, Nobito *see* **Nakao, Mitsuhiro T., 93b:65175**
Yang, Dan Ping (*with* Lu, Tong Chao) High order difference-boundary integral differential equation method for 2-D parabolic equation and error analysis. (*see* **93b:65008**)
Yao, Zhen Han (*with* Dong, Chun Ying) A direct error estimator and adaptive scheme of boundary element method. (*see* **93b:65008**)
Yu, De Hao The *p*-adaptive boundary element method and its a posteriori error estimator. (*see* **93b:65008**)
— *see also* **Wendland, Wolfgang L., 93d:65105**

65N22 Solution of discretized equations [see also 65Fxx, 65Hxx]

Chan, Raymond H. (*with* Chan, Tony F. C.) Circulant preconditioners for elliptic problems. **93c:65131**
Chan, Tony F. C. *see* **Chan, Raymond H., 93c:65131**
Chen, Yung Ming *see* **Zhu, Jian-Ping[2], (93g:65178)**
Chern, I-Liang (*with* Foster, Ian) Parallel implementation of a control volume method for solving PDEs on the sphere. (English summary) (*see* **93g:65178**)
Chiu, Chichia (*with* Kopriva, David A.) An optimal Runge-Kutta method for steady-state solutions of hyperbolic systems. **93a:65139**
Chronopoulos, Anthony T. (*with* Pernice, Michael) Vector preconditioned *s*-step methods on the IBM 3090/600S/6VF. (English summary) (*see* **93g:65178**)
Deineka, V. S. Discretization of a system of nonlinear equations of parabolic type that admit a discontinuity in the solution. (Russian) **93e:65131**
Doi, Shun *see* **Watanabe, Hiroshi, (93e:65040)**
Foster, Ian *see* **Chern, I-Liang, (93g:65178)**
Guarnaccia, J. F. (*with* Pinder, G. F.) A collocation based parallel algorithm to solve two phase flow and transport problems in porous media. (English summary) (*see* **93g:65178**)
Ji, Xing Zhi *see* **Liu, Xinzhi; et al., 93g:65135**
Kaucher, Edgar Area-preserving mappings, their application for parallel and partially validated computations of Navier-Stokes-problems. (English summary) **93g:65134**
Kopriva, David A. *see* **Chiu, Chichia, 93a:65139**
Li, Zhi Liang *see* **Yang, Zhong Hua[1], (93b:65006)**
Liu, Xinzhi (*with* Wong, Yau Shu; Ji, Xing Zhi) Monotone iterations for numerical solutions of nonlinear elliptic partial differential equations. **93g:65135**
Pernice, Michael *see* **Chronopoulos, Anthony T., (93g:65178)**
Pinder, G. F. *see* **Guarnaccia, J. F., (93g:65178)**
Vainikko, Eero (*with* Vainikko, Gennadi) Some numerical schemes for the identification of the filtration coefficient. (Russian summary) **93c:65132**
Vainikko, Gennadi *see* **Vainikko, Eero, 93c:65132**
Vassilevski, Panayot S. Preconditioning nonsymmetric and indefinite finite element matrices. **93c:65133**
Watanabe, Hiroshi (*with* Doi, Shun) A comparison of Bi-CGSTAB and CGS methods for convection-diffusion equations. (English summary) (*see* **93e:65040**)
Wong, Sze-Ping Preconditioning nonconforming finite element methods for treating Dirichlet boundary conditions. I, II. **93g:65136**
Wong, Yau Shu *see* **Liu, Xinzhi; et al., 93g:65135**
Xu, Chang Fa (*with* Ye, Cui Hua) An explicit corrective iterative method at successive levels for solving nonlinear elliptic boundary value problems. (Chinese. English summary) **93c:65134**
Yang, Zhong Hua[1] (*with* Li, Zhi Liang) Bifurcation study on the laminar flow in the coiled tube with the triangular cross section. (*see* **93b:65006**)
Ye, Cui Hua *see* **Xu, Chang Fa, 93c:65134**
Ying, Long An Optimal error estimates for a viscosity splitting formula. (*see* **93b:65006**)
Zhong, Wan Xie (*with* Zhong, Xiang Xiang) Elliptic partial differential equation and optimal control. **93f:65078**
Zhong, Xiang Xiang *see* **Zhong, Wan Xie, 93f:65078**
Zhu, Jian-Ping[2] (*with* Chen, Yung Ming) On the application of supercomputers for history matching multiphase oil reservoir models. (English summary) (*see* **93g:65178**)

Items with secondary classifications in 65N22

Axelsson, Owe On algebraic multilevel iteration methods for selfadjoint elliptic problems with anisotropy. **93d:65033**
Baker, Allen Jerome *see* **Noronha, W. P.; et al., 93c:65064**
Barragy, E. (*with* Carey, Graham) Bifurcation detection using the Lanczos method and imbedded subspaces. **93b:65082**
Bramble, James H. (*with* Leyk, Zbigniew; Pasciak, Joseph E.) Iterative schemes for nonsymmetric and indefinite elliptic boundary value problems. **93d:65034**
Carey, Graham *see* **Barragy, E., 93b:65082**
Chin, P. (*with* D'Azevedo, E. F.; Forsyth, P. A.; Tang, Wei Pai) Preconditioned conjugate gradient methods for the incompressible Navier-Stokes equations.
Choudury, Gilbert (*with* Korman, Philip) On computation of solutions of fully nonlinear elliptic problems. (English summary) **93j:65166**
Cowsar, Lawrence C. (*with* Dean, E. J.; Glowinski, Roland; Le Tallec, Patrick; Li, Chin Hsien; Périaux, Jacques; Wheeler, Mary Fanett) Decomposition principles and their applications in scientific computing. (English summary) **93j:65200**
D'Azevedo, E. F. *see* **Chin, P.; et al.**
Dean, E. J. *see* **Cowsar, Lawrence C.; et al., 93j:65200**
Dieci, Luca (*with* Lorenz, Jens) Block *M*-matrices and computation of invariant tori. **93h:65109**

Doi, Shun A Gustafsson-type modification for parallel ordered incomplete *LU* factorizations. (English summary) (*see* **93e:65040**)
Douglas, Craig C. (*with* Mandel, Jan) An abstract theory for the domain reduction method. (German summary) **93b:65162**
Forsyth, P. A. *see* **Chin, P.; et al.**
Frommer, Andreas (*with* Mayer, Günter) On the theory and practice of multisplitting methods in parallel computation. (English and German summaries) **93e:65158**
Georgiev, Krassimir (*with* Margenov, Svetozar) On domain decomposition methods for problems with discontinuous coefficients. (English summary) (*see* **93e:00022**)
Giraud, L. (*with* Spiteri, P.) Implementations of parallel solutions for nonlinear boundary value problems. (English summary) (*see* **93f:00016**)
Glowinski, Roland Finite element methods for the numerical simulation of incompressible viscous flow. Introduction to the control of the Navier-Stokes equations. **93b:65140**
— (*with* Pironneau, Olivier) Finite element methods for Navier-Stokes equations. **93c:76059**
— *see also* **Cowsar, Lawrence C.; et al., 93j:65200**
Griffiths, D. F. (*with* Mitchell, Andrew Ronald) Spurious behaviour and nonlinear instability in discretised partial differential equations. **93f:65068**
Haase, Gundolf (*with* Langer, Ulrich[1]; Meyer, Arnd) The approximate Dirichlet domain decomposition method. I. An algebraic approach. (German summary) **93e:65146a**
— (*with* Langer, Ulrich[1]; Meyer, Arnd) The approximate Dirichlet domain decomposition method. II. Applications to 2nd-order elliptic BVPs. (German summary) **93e:65146b**
Holmgren, S. (*with* Otto, Kurt) Iterative solution methods and preconditioners for block-tridiagonal systems of equations. **93a:65037**
Jiang, Hong[1] (*with* Wong, Yau Shu) A parallel alternating direction implicit preconditioning method. **93b:65056**
Kamath, Chandrika (*with* Weeratunga, Sisira) Projection methods on a distributed memory MIMD multiprocessor. (English summary) (*see* **93g:65178**)
Kincaid, David R. (*with* Young, David M.) Stationary second-degree iterative methods and recurrences. **93d:65038**
Kobel'kov, G. M. Numerical methods for solving Navier-Stokes equations in velocity-pressure variables. (Russian) **93b:76025**
Korman, Philip *see* **Choudury, Gilbert, 93j:65166**
Kuo, Hung Ju (*with* Trudinger, Neil S.) Discrete methods for fully nonlinear elliptic equations. **93e:65129**
Langer, Ulrich[1] *see* **Haase, Gundolf; et al., 93e:65146a** *and* **93e:65146b**
Le Tallec, Patrick *see* **Cowsar, Lawrence C.; et al., 93j:65200**
Leyk, Zbigniew *see* **Bramble, James H.; et al., 93d:65034**
Li, Chin Hsien *see* **Cowsar, Lawrence C.; et al., 93j:65200**
Lindsay, K. A. The application of compound matrices to convection problems in multi-layered continua. **93h:65051**
Lorenz, Jens *see* **Dieci, Luca, 93h:65109**
Lötstedt, Per Grid independent convergence of the multigrid method for first-order equations. (English summary) **93g:65076**
Magolu, Monga-Made Conditioning analysis of sparse block approximate factorizations. **93c:65063**
Mandel, Jan *see* **Douglas, Craig C., 93b:65162**
Margenov, Svetozar *see* **Georgiev, Krassimir, (93e:00022)**
Mayer, Günter *see* **Frommer, Andreas, 93e:65158**
Meyer, Arnd *see* **Haase, Gundolf; et al., 93e:65146a** *and* **93e:65146b**
Mitchell, Andrew Ronald *see* **Griffiths, D. F., 93f:65068**
Morandi, R. A blending function method with interior constraints. (English and German summaries) **93e:65017**
Noronha, W. P. (*with* Wachspress, E. L.; Baker, Allen Jerome) Consistent sparse factorization. (English summary) **93c:65064**
Oswald, Peter On a hierarchical basis multilevel method with nonconforming P1 elements. **93b:65059**
Otto, Kurt *see* **Holmgren, S., 93a:65037**
Pal'tsev, B. V. Rapidly converging iterative methods with splitting of the boundary conditions for a Stokes-type multidimensional system. Periodic "flows" between parallel walls. (Russian) **93k:76089**
Pasciak, Joseph E. *see* **Bramble, James H.; et al., 93d:65034**
Périaux, Jacques *see* **Cowsar, Lawrence C.; et al., 93j:65200**
de Pillis, John A parallel iteration method and the convection-diffusion equation. **93a:65042**
Pironneau, Olivier *see* **Glowinski, Roland, 93c:76059**
Rouff, Marc On the control of partial differential equations: a C^K discretization method. **93d:49037**
Rusten, Torgeir (*with* Winther, Ragnar) A preconditioned iterative method for saddlepoint problems. **93a:65043**
Shishkina, O. V. A parallel zonal partitioning method. (Russian) **93e:65048**
Spiteri, P. *see* **Giraud, L., (93f:00016)**
Sun, Feng Ting *see* **Wei, Shu Zhi; et al., 93b:65165**
Tang, Wei Pai *see* **Chin, P.; et al.**
Trudinger, Neil S. *see* **Kuo, Hung Ju, 93e:65129**
Wachspress, E. L. *see* **Noronha, W. P.; et al., 93c:65064**
Wang, Mian Sen *see* **Wei, Shu Zhi; et al., 93b:65165**
Weeratunga, Sisira *see* **Kamath, Chandrika, (93g:65178)**
Wei, Shu Zhi (*with* Wang, Mian Sen; Sun, Feng Ting; Zhu, Guang Tian) On the discrete-ordinates method for the monoenergetic neutron transport equation in a slab with generalized boundary conditions. **93b:65165**
Wheeler, Mary Fanett *see* **Cowsar, Lawrence C.; et al., 93j:65200**
Winther, Ragnar *see* **Rusten, Torgeir, 93a:65043**
Wong, Yau Shu *see* **Jiang, Hong[1], 93b:65056**
Yamaguchi, Kayoko Stiff equations derived from diffusion-convection equations. (Japanese. English summary) (*see* **93f:65027**)
Yan, Yin Dimensions of attractors for discretizations for Navier-Stokes equations. **93f:35181**
Young, David M. *see* **Kincaid, David R., 93d:65038**
Zhu, Guang Tian *see* **Wei, Shu Zhi; et al., 93b:65165**

65N25 Eigenvalue problems

Allanazarov, Zh. P. *see* **Prikazchikov, V. G., 93h:65134**
Andoh, E. *see* **Kamiya, Norio**
Banerjee, Uday (*with* Suri, Manil) Analysis of numerical integration in *p*-version finite element eigenvalue approximation. **93g:65137**
Bourquin, Frédéric (*with* d'Hennezel, Frédéric) Application of domain decomposition techniques to modal synthesis for eigenvalue problems. (English summary) (*see* **93g:65009**)
— Component mode synthesis and eigenvalues of second order operators: discretization and algorithm. (French summary) **93a:65140**
Ding, Yan Heng (*with* Lin, Qun) Quadrature and extrapolation for the variable coefficient elliptic eigenvalue problem. (English summary) **93g:65138**
El Sheikh, M. G. The finite mixed Sturm-Liouville problems of the Dirichlet-Newton type. (English summary) **93i:65105**
Embergenov, A. *see* **Lyashenko, I. N.; et al., 93b:65164**
d'Hennezel, Frédéric *see* **Bourquin, Frédéric, (93g:65009)**
Huang, Mao Guang *see* **Qian, Jiang; et al., (93b:65008)**
Huntebrinker, Wolfgang ★ Numerische Bestimmung von Eigenwerten des Laplace-Operators auf hyperbolischen Räumen mit adaptiven Finite-Element-Methoden. (German) [Numerical determination of eigenvalues of the Laplace operator on hyperbolic spaces with adaptive finite element methods] **93f:65079**
Hwang, T. (*with* Parsons, I. D.) A multigrid method for the generalized symmetric eigenvalue problem. I. Algorithm and implementation. (English summary) **93j:65173**
— (*with* Parsons, I. D.) A multigrid method for the generalized symmetric eigenvalue problem. II. Performance evaluation. (English summary) **93j:65174**
Kamiya, Norio (*with* Andoh, E.) Standard eigenvalue analysis by boundary-element method. (English summary)
Khomami, B. *see* **Su, Y. Y., 93a:65142**
Kurdyumov, S. P. (*with* Tel'kovskaya, O. V.) The structure of a linearized approximation for eigenfunctions of an LS-regime in multicomponent media. (Russian) **93b:65163**
Lin, Qun *see* **Ding, Yan Heng, 93g:65138**
Lin, Wei Gan *see* **Zeng, Xue Gang; et al.**
Luo, Jenn-Ching A domain decomposition method for eigenvalue problems. (English summary) **93h:65133**
Lyashenko, I. N. (*with* Embergenov, A.; Meredov, Kh.) A combined difference scheme for the eigenvalue problem of the Laplace operator. (Russian) **93b:65164**
Meredov, Kh. *see* **Lyashenko, I. N.; et al., 93b:65164**
Mertins, Ulrich Asymptotische Fehlerschranken für Rayleigh-Ritz-Approximationen selbstadjungierter Eigenwertaufgaben. (English and German summaries) [Asymptotic error estimates for Rayleigh-Ritz approximations of selfadjoint eigenvalue problems] **93k:65086**
Ovchinnikov, E. È. Multi-level projection method for solving the eigenvalue problem for the convection-diffusion equation. **93c:65135**
Parsons, I. D. *see* **Hwang, T., 93j:65173** *and* **93j:65174**
Poznyak, L. T. On the partial truncation procedure in the method of partial domains for calculating the eigenvalues of the two-dimensional Laplace operator. (Russian) **93a:65141**
Prikazchikov, V. G. (*with* Allanazarov, Zh. P.) The accuracy of a discrete spectral problem with a mixed derivative. (Russian) **93h:65134**
— The principal term of the expansion of eigenvalue error in a discrete analogue of an elliptic operator. (Russian. Russian summary) **93i:65106**
Qian, Jiang (*with* Wang, Xiu Xi; Huang, Mao Guang) An exact approach to eigenfrequencies by BIE method. (*see* **93b:65008**)
Ruan, Cheng Li *see* **Zeng, Xue Gang; et al.**
Su, Y. Y. (*with* Khomami, B.) Numerical solution of eigenvalue problems using spectral techniques. **93a:65142**
Sun, Feng Ting *see* **Wei, Shu Zhi; et al., 93b:65165**
Suri, Manil *see* **Banerjee, Uday, 93g:65137**
Tang, Wei Pai Numerical solution of a turning point problem. (English summary) **93h:65135**
Tel'kovskaya, O. V. *see* **Kurdyumov, S. P., 93b:65163**
Wang, Mian Sen *see* **Wei, Shu Zhi; et al., 93b:65165**
Wang, Xiu Xi *see* **Qian, Jiang; et al., (93b:65008)**
Wei, Dongming Finite element approximation of the first eigenpair of a nonlinear problem. **93a:65143**
Wei, Shu Zhi (*with* Wang, Mian Sen; Sun, Feng Ting; Zhu, Guang Tian) On the discrete-ordinates method for the monoenergetic neutron transport equation in a slab with generalized boundary conditions. **93b:65165**
Zeng, Xue Gang (*with* Ruan, Cheng Li; Lin, Wei Gan) Accurate computations of eigenvalues of prolate spheroidal wave functions. (Chinese. English and Chinese summaries)
Zhong, Wan Xie (*with* Zhong, Xiang Xiang) A method for finding transverse eigenfunctions of elliptic partial differential equations in a prismatic domain. (Chinese. English summary) **93k:65087**
Zhong, Xiang Xiang *see* **Zhong, Wan Xie, 93k:65087**
Zhu, Guang Tian *see* **Wei, Shu Zhi; et al., 93b:65165**

Items with secondary classifications in 65N25

Andreev, A. B. (*with* Kascieva, V. A.; Vanmaele, M.) Some results in lumped mass finite-element approximation of eigenvalue problems using numerical quadrature formulas. (English summary) **93k:65088**
Barrett, J. W. Finite element approximation of a non-Lipschitz nonlinear eigenvalue problem. (English and French summaries) **93g:65142**
Cheng, Qing Ming (*with* Wang, Xi Xun) Estimates of eigenvalues of elliptic operators. (Chinese. English and Chinese summaries) **93m:35134**
Guan, Zhi *see* **Han, Hou De; et al., (93b:65008)**
Han, Hou De (*with* Guan, Zhi; He, Bin) Boundary element approximation of Steklov eigenvalue problem. (*see* **93b:65008**)
He, Bin *see* **Han, Hou De; et al., (93b:65008)**

Ji, Xing Zhi A two-dimensional bisection method for solving two-parameter eigenvalue problems. (English summary) **93f:65035**
Kascieva, V. A. *see* **Andreev, A. B.; et al., 93k:65088**
Lin, Qun (*with* Yang, Yi Du) Interpolation and correction of finite element methods. (Chinese) **93a:65155**
Lu, Ya Yan *see* **Yau, Shing-Tung, 93m:65053**
Mertins, Ulrich Zur Konvergenz des Rayleigh-Ritz-Verfahrens bei Eigenwertaufgaben. (English summary) [On the convergence of the Rayleigh-Ritz method for eigenvalue problems] **93d:49048**
Prikazchikov, V. G. The principal term of the expansion of eigenvalue error in a discrete analogue of a fourth-order elliptic operator. (Russian. Russian summary) **93g:65133**
Sauter, Stefan (*with* Wittum, Gabriel) A multigrid method for the computation of eigenmodes of closed water basins. **93c:76062**
Vanmaele, M. *see* **Andreev, A. B.; et al., 93k:65088**
Wang, Xi Xun *see* **Cheng, Qing Ming, 93m:35134**
Wittum, Gabriel *see* **Sauter, Stefan, 93c:76062**
Yang, Yi Du *see* **Lin, Qun, 93a:65155**
Yau, Shing-Tung (*with* Lu, Ya Yan) Reducing the symmetric matrix eigenvalue problem to matrix multiplications. (English summary) **93m:65053**

65N30 Finite elements, Rayleigh-Ritz and Galerkin methods, finite methods

Amiez, G. (*with* Gremaud, P.-A.) Error estimates for Euler forward scheme related to two-phase Stefan problems. (French summary) **93a:65144**
Andreev, A. B. (*with* Kascieva, V. A.; Vanmaele, M.) Some results in lumped mass finite-element approximation of eigenvalue problems using numerical quadrature formulas. (English summary) **93k:65088**
Angermann, Lutz An a posteriori estimation for the solution of elliptic boundary value problems by means of upwind FEM. **93g:65139**
Apel, T. (*with* Dobrowolski, Manfred) Anisotropic interpolation with applications to the finite element method. (German summary) **93b:65166**
Arnold, Douglas N. Innovative finite element methods for plates. (Portuguese summary) **93c:65136**
Asaithambi, N. S. A Galerkin method for Stefan problems. (English summary) **93i:65107**
Avaldi, L. (*with* Quarteroni, Alfio; Saleri, F.) Finite element simulation of electron optical systems. (English summary) **93g:65140**
Axelsson, Owe (*with* Gustafsson, Ivar) An efficient finite element method for nonlinear diffusion problems. **93a:65145**
Babuška, Ivo M. (*with* Suri, Manil) The *p*- and *h*-*p* versions of the finite element method, an overview. (English summary) (*see* **93d:65005**)
— (*with* Guo, Ben Qi; Stephan, E. P.) The *h*-*p* version of the boundary element method with geometric mesh on polygonal domains. (English summary) (*see* **93d:65005**)
— (*with* Plank, Lothar; Rodríguez, Rodolfo) Quality assessment of the a posteriori error estimation in finite elements. **93c:65137**
— (*with* Suri, Manil) Locking effects in the finite element approximation of elasticity problems. **93i:65108**
— (*with* Durán, Ricardo; Rodríguez, Rodolfo) Analysis of the efficiency of an a posteriori error estimator for linear triangular finite elements. **93d:65096**
— (*with* Rodríguez, Rodolfo) The problem of the selection of an a posteriori error indicator based on smoothening techniques. (English summary) **93k:65089**
— *see also* **Oh, Hae Soo, 93a:65157**
Baranger, Jacques (*with* Sandri, D.) Finite element approximation of viscoelastic fluid flow: existence of approximate solutions and error bounds. I. Discontinuous constraints. (English summary) **93k:65090**
Barbosa, Helio J. C. (*with* Hughes, Thomas J. R.) Circumventing the Babuška-Brezzi condition in mixed finite element approximations of elliptic variational inequalities. **93c:65138**
— (*with* Hughes, Thomas J. R.) Boundary Lagrange multipliers in finite element methods: error analysis in natural norms. **93g:65141**
Barrett, J. W. Finite element approximation of a non-Lipschitz nonlinear eigenvalue problem. (English and French summaries) **93g:65142**
Beatovic, D. (*with* Levin, P. L.; Gan, H.; Kokernak, J. M.; Hansen, A. J.) Numerical analysis of open boundary problems using finite element substructuring and Galerkin boundary elements. **93c:65139**
Bermejo, Rodolfo Analysis of an algorithm for the Galerkin-characteristic method. **93e:65132**
Bermúdez de Castro, Alfredo (*with* Muñiz, M. C.; Quintela Estévez, Peregrina) Mathematical and numerical analysis for a Stefan problem with source at the free boundary. (Spanish. Spanish summary) (*see* **93j:00009**)
Bernadou, M. (*with* Mato Eiroa, P.; Trouvé, Pascal) On the approximation of general linear thin shell problems by D.K.T. methods. (Portuguese summary) **93c:65140**
Bernardi, Christine (*with* Laval, Frédéric; Métivet, Brigitte; Pernaud-Thomas, Bernadette) Finite element approximation of viscous flows with varying density. (English and French summaries) **93g:65143**
Bourlard, Maryse (*with* Dauge, Monique; Lubuma, Mbaro-Saman; Nicaise, Serge) Coefficients of the singularities for elliptic boundary value problems on domains with conical points. III. Finite element methods on polygonal domains. **93a:65146**
Brenner, Susanne C. A multigrid algorithm for the lowest-order Raviart-Thomas mixed triangular finite element method. **93j:65175**
Budd, C. J. *see* **Murdoch, T., 93g:65147**
Bui, Tien Dai *see* **Li, Zi-Cai, 93a:65154**
Cai, Zhi Qiang (*with* E, Weinan) Hierarchical method for elliptic problems using wavelet. (English summary) **93g:65144**
Cao, Li Qun (*with* Zhu, Qi Ding) A note on interpolating correction of biquadratic elements in a rectangular domain. (Chinese. English and Chinese summaries) **93i:65109**
Carey, Graham (*with* Dinh, Hung T.) A grid anomaly in quadrilateral elements. (English summary)
Chen, Hong Sen (*with* Lin, Qun) A high accuracy analysis of the mixed finite element method for biharmonic equations. (English summary) **93k:65091**
Chen, Shao Chun (*with* Shi, Zhong Ci) On the free formation of constructing stiffness matrices. (English summary) (*see* **93d:65004**)
— *see also* **Shi, Zhong Ci, 93b:65179**
Chen, Zhang Xing (*with* Douglas, Jim, Jr.) Approximation of coefficients in hybrid and mixed methods for nonlinear parabolic problems. (Portuguese summary) **93d:65097**
— Projection finite element methods for semiconductor device equations. (English summary) **93k:65092**
Chibi, Ahmed-Salah (*with* Moore, Gerald) Defect correction and Galerkin's method for second-order boundary value problems. (English summary) **93c:65141**
Chou, So-Hsiang (*with* Li, Qian) Error estimates for mixed finite element methods for nonlinear parabolic problems. **93e:65133**
Choudury, Gilbert (*with* Lasiecka, Irena) Optimal convergence rates for semidiscrete approximations of parabolic problems with nonsmooth boundary data. **93e:65134**
Chow, S.-S. Finite element error estimates for a blast furnace gas flow problem. **93a:65147**
Cockburn, Bernardo (*with* Triandaf, Ioana) Convergence of a finite element method for the drift-diffusion semiconductor device equations: the zero diffusion case. **93f:65080**
Dauge, Monique *see* **Bourlard, Maryse; et al., 93a:65146**
Deng, Qing Ping Finite element method for a nonlinear gradient obstacle problem with monotone operator. (English summary) **93g:65145**
— *see also* **Shen, Shu Min, 93j:65186**
Dinh, Hung T. *see* **Carey, Graham**
Dinh, Q. V. (*with* Glowinski, Roland; He, Jiwen; Kwock, V.; Pan, T. W.; Périaux, Jacques) Lagrange multiplier approach to fictitious domain methods: application to fluid dynamics and electromagnetics. (English summary) **93h:65136**
Dobrowolski, Manfred (*with* Staib, Tilo) On finite element approximation of a second order unilateral variational inequality. (English summary) **93j:65176**
— A mixed finite element method for approximating incompressible materials. **93b:65167**
— *see also* **Apel, T., 93b:65166**
Dolzmann, G. (*with* Frehse, J.) Optimale asymptotische Konvergenz linearer finiter Elemente bei elliptischen Problemen mit Hilfe von Campanato-Abschätzungen. [Optimal asymptotic convergence of linear finite elements in elliptical problems with the aid of Campanato estimates] **93j:65177**
Douglas, Jim, Jr. *see* **Chen, Zhang Xing, 93d:65097**
Du, Qiang (*with* Gunzburger, Max D.; Peterson, Janet S.) Finite element approximation of a periodic Ginzburg-Landau model for type-II superconductors. (English summary) **93j:65178**
Durán, Ricardo (*with* Rodríguez, Rodolfo) On the asymptotic exactness of Bank-Weiser's estimator. **93e:65135**
— (*with* Muschietti, María Amelia; Rodríguez, Rodolfo) Asymptotically exact error estimators for rectangular finite elements. **93a:65148**
— *see also* **Babuška, Ivo M.; et al., 93d:65096**
D'yakonov, E. G. ★ Минимизация вычислительной работы. Асимптотически оптимальные алгоритмы для эллиптических задач. (Russian) [Minimization of computational work. Asymptotically optimal algorithms for elliptic problems] **93e:65136**
E, Weinan *see* **Cai, Zhi Qiang, 93g:65144**
Eijkhout, Victor (*with* Margenov, Svetozar) Preconditioned iterative solution of spline finite element systems. **93a:65149**
El-Namoury, A. R. M. On the finite element method for a singular problem. **93a:65150**
Ewing, Richard E. (*with* Wang, Jun Ping) The Schwarz algorithm and multilevel decomposition iterative techniques for mixed finite element methods. (English summary) **93j:65188**
— (*with* Vassilevski, Panayot S.) Two-level iterative refinement preconditioners. (English summary) (*see* **93g:65009**)
— (*with* Wang, Jun Ping) Analysis of mixed finite element methods on locally refined grids. (English summary) **93h:65137**
Falk, Richard S. (*with* Richter, Gerard R.) Local error estimates for a finite element method for hyperbolic and convection-diffusion equations. **93e:65137**
Feistauer, Miloslav (*with* Ženíšek, Alexander) Finite element variational crimes in nonlinear elliptic problems. (*see* **93b:65007**)
Feng, Min Fu *see* **Zhou, Tian Xiao; et al., 93g:65149** *and* **93h:65141**
Franca, Leopoldo P. (*with* Karam Filho, José; Loula, Abimael F. D.; Stenberg, R.) A convergence analysis of a stabilized method for the Stokes flow. (Portuguese summary) **93b:65168**
Frehse, J. *see* **Dolzmann, G., 93j:65177**
French, Donald A. (*with* King, J. Thomas) Analysis of a robust finite element approximation for a parabolic equation with rough boundary data. **93d:65098**
Gan, H. *see* **Beatovic, D.; et al., 93c:65139**
Givoli, Dan A spatially exact nonreflecting boundary condition for time dependent problems. **93a:65151**
— (*with* Rivkin, Leonid; Keller, Joseph B.) A finite element method for domains with corners. (English summary) **93f:65081**
Glowinski, Roland Ensuring well-posedness by analogy: Stokes problem and boundary control for the wave equation. (English summary) **93j:65179**
— *see also* **Dinh, Q. V.; et al., 93h:65136**
Golubov, F. A. A method for the local condensation of a grid by means of rectangular and rectangular-hexagonal finite elements. (Russian. Russian summary) **93f:65082**
Goubet, Olivier Séparation des variables dans le problème de Stokes. Application à son approximation multiéchelles éléments finis. (English and French summaries) [Separation of variables in the Stokes problem. Application to its multiscale finite-element approximation] **93j:65180**
Gremaud, P.-A. *see* **Amiez, G., 93a:65144**
Gunzburger, Max D. *see* **Du, Qiang; et al., 93j:65178**
Guo, Ben Qi *see* **Babuška, Ivo M.; et al., (93d:65005)**
Gustafsson, Ivar *see* **Axelsson, Owe, 93a:65145**
Hall, Charles A. (*with* Ye, Xiu) Construction of null bases for the divergence operator associated with incompressible Navier-Stokes equations. **93c:65142**
Han, Hou De (*with* Wu, Xiao Nan) A finite element method for linear elastic equations on unbounded domains. (English summary) (*see* **93d:65004**)
Hansbo, Peter *see* **Johnson, Claes, 93m:65157**
Hansen, A. J. *see* **Beatovic, D.; et al., 93c:65139**

He, Jiwen *see* **Dinh, Q. V.; et al., 93h:65136**
Hou, Jean W. (*with* Sheen, Jeenson) Numerical methods for second-order shape sensitivity analysis. **93a:65152**
Hugger, Jens Adaptive recovery of near optimal meshes in the finite element method for parameter dependent problems. (English summary) **93h:65138**
Hughes, Thomas J. R. *see* **Barbosa, Helio J. C., 93c:65138** *and* **93g:65141**
Huijben, A. J. M. *see* **Kaasschieter, E. F., 93b:65169**
Hyman, James M. (*with* Knapp, Robert J.; Scovel, James C.) High order finite volume approximations of differential operators on nonuniform grids. (English summary) **93i:65110**
Jauberteau, François (*with* Rosier, C.; Temam, Roger) A nonlinear Galerkin method for the Navier-Stokes equations. (English summary) (*see* **93d:65005**)
Jensen, Soren S. (*with* Suri, Manil) On the L_2 error for the p-version of the finite element method over polygonal domains. **93d:65099**
— Adaptive-dimensional reduction numerical solution of monotone quasilinear boundary value problems. (English summary) **93g:65146**
Jiang, Bo-Nan (*with* Povinelli, Louis A.) Optimal least-squares finite element method for elliptic problems. (English summary) **93h:65139**
Johnson, Claes (*with* Hansbo, Peter) Adaptive finite element methods in computational mechanics. (English summary) **93m:65157**
— Adaptive finite element methods for the obstacle problem. (English summary) **93k:65093**
Johnson, Richard W. *see* **MacKinnon, R. J.; et al.**
Kaasschieter, E. F. (*with* Huijben, A. J. M.) Mixed-hybrid finite elements and streamline computation for the potential flow problem. **93b:65169**
Kantchev, Vesselin Superconvergence of the gradient for linear finite elements for nonlinear elliptic problems. (*see* **93b:65007**)
Karam Filho, José *see* **Franca, Leopoldo P.; et al., 93b:65168**
Kascieva, V. A. *see* **Andreev, A. B.; et al., 93k:65088**
Keller, Joseph B. *see* **Givoli, Dan; et al., 93f:65081**
Khoromskaya, V. Kh. (*with* Khoromskii, B. N.) ★ On the computing complexity of iterative substructuring algorithms in nonlinear magnetostatic problems. (English. English and Russian summaries) **93k:65094**
Khoromskii, B. N. *see* **Khoromskaya, V. Kh., 93k:65094**
King, J. Thomas *see* **French, Donald A., 93d:65098**
Knapp, Robert J. *see* **Hyman, James M.; et al., 93i:65110**
Kočvara, Michal An algebraic study of a local multigrid method for variational problems. (English summary) **93f:65083**
— An iterative method for adaptive finite element computation. (English summary) **93j:65181**
Kokernak, J. M. *see* **Beatovic, D.; et al., 93c:65139**
Korneev, V. G. *see* **Veber, B., 93m:65160**
Kornhuber, Ralf (*with* Roitzsch, Rainer) Self-adaptive finite-element simulation of bipolar, strongly reverse-biased pn-junctions. (English summary)
Křížek, Michal (*with* Neittaanmäki, Pekka; Vondrák, Miroslav) A nontraditional approach for solving the Neumann problem by the finite element method. (English and Portuguese summaries) **93j:65182**
— *see also* **Neittaanmäki, Pekka, (93b:65007)**
Kwock, V. *see* **Dinh, Q. V.; et al., 93h:65136**
Langerman, M. A. *see* **MacKinnon, R. J.; et al.**
Lasiecka, Irena *see* **Choudury, Gilbert, 93e:65134**
Laval, Frédéric *see* **Bernardi, Christine; et al., 93g:65143**
Le Tallec, Patrick (*with* Mani, S.; Rochinha, F. A.) Finite element computation of hyperelastic rods in large displacements. (English and French summaries) **93f:65084**
Letniowski, Frank W. Three-dimensional Delaunay triangulations for finite element approximations to a second-order diffusion operator. **93a:65153**
Levin, P. L. *see* **Beatovic, D.; et al., 93c:65139**
Li, Bing Kun *see* **Sun, Jia Chang, (93d:65004)**
Li, Ping Qian *see* **Wen, Guo Chun, (93b:00022)**
Li, Qian *see* **Chou, So-Hsiang, 93e:65133**
Li, Zi-Cai (*with* Bui, Tien Dai) Penalty-combined method and applications in solving elliptic problems with singularities. **93a:65154**
— Optimal convergence rates for the combined methods of different finite element methods. **93b:65170**
Lin, Qun Extrapolation of finite element gradients on nonconvex domains. (English summary) **93f:65085**
— Superconvergence of FEM for singular solution. **93b:65171**
— (*with* Yang, Yi Du) Interpolation and correction of finite element methods. (Chinese) **93a:65155**
— Interpolated finite elements and global superconvergence. (*see* **93b:65006**)
— *see also* **Zhu, Qi Ding, 93j:65191** *and* **Chen, Hong Sen, 93k:65091**
Lin, Yan Ping Nonclassical elliptic projections and L^2-error estimates for Galerkin methods for parabolic integro-differential equations. **93b:65172**
— (*with* Zhang, Tie) Finite element methods for nonlinear Sobolev equations with nonlinear boundary conditions. **93b:65173**
Louis, Abimael F. D. *see* **Franca, Leopoldo P.; et al., 93b:65168**
Lü, Tao (*with* Neittaanmäki, Pekka; Tai, Xue Cheng) A parallel splitting-up method for partial differential equations and its applications to Navier-Stokes equations. (English and French summaries) **93i:65111**
Lube, G. Streamline diffusion finite element method for quasilinear elliptic problems. **93c:65143**
Lubuma, Mbaro-Saman *see* **Bourlard, Maryse; et al., 93a:65146**
MacKinnon, R. J. (*with* Johnson, Richard W.; Langerman, M. A.) A higher-order accurate Petrov-Galerkin finite-element method for elliptic boundary value problems. (English summary)
Mandel, Jan Iterative solvers by substructuring for the p-version finite element method. (English summary) (*see* **93d:65005**)
Mani, S. *see* **Le Tallec, Patrick; et al., 93f:65084**
Margenov, Svetozar *see* **Eijkhout, Victor, 93a:65149**
Marini, Luisa Donatella (*with* Pietra, Paola) A monotonic mixed finite element on rectangles for second order elliptic problems. (English and Portuguese summaries) **93j:65183**
Marmorat, Jean-Paul (*with* Payre, G.; Zolésio, Jean-Paul) A convergent finite element scheme for a wave equation with a moving boundary. **93d:65100**
Mato Eiroa, P. *see* **Bernadou, M.; et al., 93c:65140**
Métivet, Brigitte *see* **Bernardi, Christine; et al., 93g:65143**
Milka, Zdeněk Finite element solution of a stationary heat conduction equation with the radiation boundary condition. (English and Czech summaries) **93k:65095**
Miller, John J. H. (*with* Wang, Song; Wu, Chang Hui) A mixed finite element method for the stationary semiconductor continuity equations. (*see* **93b:65007**)
Monk, Peter Analysis of a finite element method for Maxwell's equations. **93k:65096**
— A comparison of three mixed methods for the time-dependent Maxwell's equations. (English summary) **93j:65184**
Mons, P. (*with* Rogé, G.) L'élément Q_1-bulle/Q_1. (English summary) [The Q_1-bubble/Q_1 element] **93b:65174**
Moore, Gerald *see* **Chibi, Ahmed-Salah, 93c:65141**
Morton, K. W. Upwinded test functions for finite element and finite volume methods. **93f:65086**
— (*with* Murdoch, T.; Süli, Endre) Optimal error estimation for Petrov-Galerkin methods in two dimensions. **93e:65138**
Moyer, E. Thomas, Jr. (*with* Schroeder, Erwing A.) Combined finite element/boundary integral approach to the prediction of acoustic signatures and radar cross sections. (English summary) (*see* **93f:00014**)
Muñiz, M. C. *see* **Bermúdez de Castro, Alfredo; et al., (93j:00009)**
Murdoch, T. (*with* Budd, C. J.) Convergent and spurious solutions of nonlinear elliptic equations. (English summary) **93g:65147**
— *see also* **Morton, K. W.; et al., 93e:65138**
Muschietti, María Amelia *see* **Durán, Ricardo; et al., 93a:65148**
Nakao, Mitsuhiro T. (*with* Yamamoto, Nobito) Numerical verifications of solutions for elliptic equations with strong nonlinearity. **93b:65175**
— Computable error estimates for FEM and numerical verification of solutions for nonlinear PDEs. (English summary) **93k:65097**
— Numerical verification methods for the solutions of nonlinear elliptic and evolution problems. (English summary) **93j:65185**
Nayroles, Bernard (*with* Touzot, Gilbert; Villon, Pierre) Nuages de points et approximation diffuse. [Clouds of points and diffuse approximation] **93a:65156**
Neittaanmäki, Pekka (*with* Křížek, Michal) On $O(h^4)$-superconvergence of piecewise bilinear FE-approximations. (*see* **93b:65007**)
— *see also* **Lü, Tao; et al., 93i:65111** *and* **Křížek, Michal; et al., 93j:65182**
Nicaise, Serge *see* **Bourlard, Maryse; et al., 93a:65146**
Nicolaides, R. A. Direct discretization of planar div-curl problems. **93b:65176**
Oh, Hae Soo (*with* Babuška, Ivo M.) The p-version of the finite element method for the elliptic boundary value problems with interfaces. **93a:65157**
O'Riordan, Eugene (*with* Stynes, Martin) An analysis of some exponentially fitted finite element methods for singularly perturbed elliptic problems. **93b:65177**
Oswald, Peter Hierarchical conforming finite element methods for the biharmonic equation. (English summary) **93k:65098**
Ouyang, Hua Jiang Criteria for finite element algorithm of generalized heat conduction equation. (Chinese. English and Chinese summaries) **93g:65148**
Pan, T. W. *see* **Dinh, Q. V.; et al., 93h:65136**
Patsko, N. L. *see* **Subbotin, Yu. N., 93i:65112**
Payre, G. *see* **Marmorat, Jean-Paul; et al., 93d:65100**
Peng, Long (*with* Wang, Jin Liang) Two kinds of methods for improving the accuracy of probabilistic finite element algorithms. (Chinese. English and Chinese summaries) **93m:65158**
Périaux, Jacques *see* **Dinh, Q. V.; et al., 93h:65136**
Pernaud-Thomas, Bernadette *see* **Bernardi, Christine; et al., 93g:65143**
Peterson, Janet S. *see* **Du, Qiang; et al., 93j:65178**
Pietra, Paola *see* **Marini, Luisa Donatella, 93j:65183**
Pitkäranta, Juhani The problem of membrane locking in finite element analysis of cylindrical shells. **93b:65178**
Plank, Lothar *see* **Babuška, Ivo M.; et al., 93c:65137**
Potra, Teodor Boundary element Galerkin method for a nonlinear boundary value problem. (*see* **93i:00015**)
Povinelli, Louis A. *see* **Jiang, Bo-Nan, 93h:65139**
Qian, Jiang *see* **Wang, Ming Yang; et al., (93b:65008)**
Qian, Sam (*with* Weiss, John) Wavelets and the numerical solution of partial differential equations. (English summary) **93m:65159**
Quarteroni, Alfio *see* **Avaldi, L.; et al., 93g:65140**
Quintela Estévez, Peregrina *see* **Bermúdez de Castro, Alfredo; et al., (93j:00009)**
Richter, Gerard R. *see* **Falk, Richard S., 93e:65137**
Rivkin, Leonid *see* **Givoli, Dan; et al., 93f:65081**
Rochinha, F. A. *see* **Le Tallec, Patrick; et al., 93f:65084**
Rodríguez, Rodolfo *see* **Durán, Ricardo; et al., 93a:65148; Babuška, Ivo M.; et al., 93c:65137; 93d:65096; Durán, Ricardo, 93e:65135** *and* **Babuška, Ivo M., 93k:65089**
Rogé, G. *see* **Mons, P., 93b:65174**
Roitzsch, Rainer *see* **Kornhuber, Ralf**
Rosier, C. *see* **Jauberteau, François; et al., (93d:65005)**
Saleri, F. *see* **Avaldi, L.; et al., 93g:65140**
Sandri, D. *see* **Baranger, Jacques, 93k:65090**
Scarpini, F. The alternating Schwarz method applied to some biharmonic variational inequalities. **93c:65144**
Schroeder, Erwing A. *see* **Moyer, E. Thomas, Jr., (93f:00014)**
Scovel, James C. *see* **Hyman, James M.; et al., 93i:65110**
Segeth, Karel MLAT solutions to the nonlinear Poisson equation in semiconductor device models. (*see* **93b:65007**)
Semper, Bill Conforming finite element approximations for a fourth-order singular perturbation problem. **93e:65139**
Shaw, Richard Paul (*with* Van Slooten, R.; Van Slooten, P.) Axisymmetric static electromagnetic problems solved by boundary element methods. (English summary) (*see* **93b:65002**)

Sheen, Jeenson *see* **Hou, Jean W., 93a:65152**
Shen, Shu Min (*with* Deng, Qing Ping) Finite element method for the minimal surface problem with obstacle. (Chinese summary) **93j:65186**
Shi, Zhong Ci (*with* Chen, Shao Chun) Convergence of a nine-parameter generalized conforming element. **93b:65179**
— *see also* **Chen, Shao Chun, (93d:65004)**
Sivaloganathan, S. A finite-element, parameter stepping solution procedure for the steady-state Boussinesq equations. (English summary) **93e:65140**
Staib, Tilo *see* **Dobrowolski, Manfred, 93j:65176**
Stenberg, R. *see* **Franca, Leopoldo P.; et al., 93b:65168**
Stephan, E. P. *see* **Babuška, Ivo M.; et al., (93d:65005)**
Stynes, Martin *see* **O'Riordan, Eugene, 93b:65177**
Subbotin, Yu. N. (*with* Patsko, N. L.) Application of *B*-splines in the finite-element method. (Russian. Russian summary) **93i:65112**
Sŭli, Endre The accuracy of cell vertex finite volume methods on quadrilateral meshes. **93a:65158**
— *see also* **Morton, K. W.; et al., 93e:65138**
Sun, Jia Chang (*with* Li, Bing Kun) Parallel multilevel *B*-spline preconditioners for the biharmonic problem. (English summary) (*see* **93d:65004**)
Suri, Manil *see* **Jensen, Soren S., 93d:65099; Babuška, Ivo M., 93i:65108** *and* **(93d:65005)**
Swann, Howard On the use of Lagrange multipliers in domain decomposition for solving elliptic problems. **93d:65101**
Tai, Xue Cheng *see* **Lü, Tao; et al., 93i:65111**
Tang, Li Min *see* **Zhou, Jian Qing, 93b:65181**
Temam, Roger *see* **Jauberteau, François; et al., (93d:65005)**
Thomas, Jean-Marie Finite element matching methods. (English summary) **93h:65140**
Touzot, Gilbert *see* **Nayroles, Bernard; et al., 93a:65156**
Triandaf, Ioana *see* **Cockburn, Bernardo, 93f:65080**
Trouvé, Pascal *see* **Bernadou, M.; et al., 93c:65140**
Vanmaele, M. *see* **Andreev, A. B.; et al., 93k:65088**
Van Slooten, P. *see* **Shaw, Richard Paul; et al., (93b:65002)**
Van Slooten, R. *see* **Shaw, Richard Paul; et al., (93b:65002)**
Vassilevski, Panayot S. (*with* Wang, Jun Ping) Multilevel iterative methods for mixed finite element discretizations of elliptic problems. (English summary) **93j:65187**
— *see also* **Ewing, Richard E., (93g:65009)**
Veber, B. (*with* Korneev, V. G.) Preconditioner of a finite element matrix for a fourth-order elliptic equation. (Russian. Russian summary) **93m:65160**
Villon, Pierre *see* **Nayroles, Bernard; et al., 93a:65156**
Vondrák, Miroslav *see* **Křížek, Michal; et al., 93j:65182**
Wang, Jin Liang *see* **Peng, Long, 93m:65158**
Wang, Jun Ping Convergence analysis of Schwarz algorithm and multilevel decomposition iterative methods. I. Selfadjoint and positive definite elliptic problems. **93a:65159**
— Convergence analysis without regularity assumptions for multigrid algorithms based on SOR smoothing. **93e:65141**
— *see also* **Ewing, Richard E., 93h:65137; Vassilevski, Panayot S., 93j:65187** *and* **Ewing, Richard E., 93j:65188**
Wang, Ming[1] The multigrid method for the finite elements solving the biharmonic equation. (*see* **93b:65006**)
Wang, Ming Yang (*with* Weng, Zhi Yuan; Qian, Jiang) Dynamic structure-foundation interaction analysis for nuclear containment by FE-BE coupling method. (*see* **93b:65008**)
Wang, Song *see* **Miller, John J. H.; et al., (93b:65007)**
Weiss, John *see* **Qian, Sam, 93m:65159**
Wen, Guo Chun (*with* Li, Ping Qian) Finite element approximations for some nonlinear quasiconformal mappings in multiply connected domains. (*see* **93b:00022**)
Weng, Zhi Yuan *see* **Wang, Ming Yang; et al., (93b:65008)**
Wu, Chang Hui *see* **Miller, John J. H.; et al., (93b:65007)**
Wu, Xiao Nan *see* **Han, Hou De, (93d:65004)**
Xiong, Hua Xin *see* **Zhou, Tian Xiao; et al., 93g:65149**
Yamamoto, Nobito *see* **Nakao, Mitsuhiro T., 93b:65175**
Yang, Dan Ping Coupled finite element and characteristics methods for displacement problems of two-phase flow in porous media, and error estimates for them. (Chinese. English and Chinese summaries) **93j:65189**
Yang, Yi Du *see* **Lin, Qun, 93a:65155**
Ye, Xiu *see* **Hall, Charles A., 93c:65142**
Ying, Long An Infinite element method for elliptic problems. **93d:65102**
Yotov, I. P. Preconditioning of the mixed finite element approximations of second order elliptic problems on grids with regular local refinement. **93j:65190**
Ženíšek, Alexander *see* **Feistauer, Miloslav, (93b:65007)**
Zhang, Tie *see* **Lin, Yan Ping, 93b:65173**
Zhang, Zhimin Arch beam models: finite element analysis and superconvergence. **93b:65180**
Zhou, Jian Qing (*with* Tang, Li Min) A study of the characteristics of some new quasiconforming elements. (Chinese. English summary) **93b:65181**
Zhou, Tian Xiao (*with* Feng, Min Fu; Xiong, Hua Xin) A new approach to stability of finite elements under divergence constraints. **93g:65149**
— (*with* Feng, Min Fu) A least squares Petrov-Galerkin finite element method for the stationary Navier-Stokes equations. **93h:65141**
Zhu, Qi Ding (*with* Lin, Qun) ★ Youxianyuan chaoshoulian lilun. (Chinese) [The hyperconvergence theory of finite elements] **93j:65191**
— *see also* **Cao, Li Qun, 93i:65109**
Zolésio, Jean-Paul *see* **Marmorat, Jean-Paul; et al., 93d:65100**

Items with secondary classifications in 65N30

Achdou, Yves (*with* Glowinski, Roland; Pironneau, Olivier) Tuning the mesh of a mixed method for the stream function. Vorticity formulation of the Navier-Stokes equations. (English summary) **93m:65165**
Adolfsson, Vilhelm (*with* Goldberg, M.; Jawerth, Björn; Lennerstad, H.) Localized Galerkin estimates for boundary integral equations on Lipschitz domains. (English summary) **93f:65087**
Ainsworth, Mark (*with* Oden, J. Tinsley) A procedure for a posteriori error estimation for *h-p* finite element methods. (English summary) **93h:73035**
— (*with* Oden, J. Tinsley) A posteriori error estimators for second order elliptic systems. I. Theoretical foundations and a posteriori error analysis. (English summary) **93j:65170**
Akishin, P. G. ★ Об одном методе решения задачи магнитостатики в дифференциальной постановке. (Russian) [A method for solving a problem in magnetostatics in a differential formulation] **93d:78004**
Almeida Benítez, Pedro *see* **Montero García, Gustavo; et al., (93j:00009)**
Atamian, C. (*with* Dinh, G. V.; Glowinski, Roland; He, Jiwen; Périaux, Jacques) On some imbedding methods applied to fluid dynamics and electromagnetics. **93c:76066**
Babuška, Ivo M. (*with* Elman, H. C.; Markley, K.) Parallel implementation of the *hp*-version of the finite element method on a shared-memory architecture. (English summary) **93h:65179**
— *see also* **Li, Li Kang, (93d:65004)**
Baker, Allen Jerome *see* **Iannelli, G. S., 93a:76067**
Banerjee, Uday (*with* Suri, Manil) Analysis of numerical integration in *p*-version finite element eigenvalue approximation. **93g:65137**
Bank, Randolph E. (*with* Benbourenane, Mohamed) The hierarchical basis multigrid method for convection-diffusion equations. **93d:65106**
Baranger, Jacques (*with* El Amri, Hassan) A posteriori error estimators for mixed finite element approximation of some quasi-Newtonian flows. (Portuguese summary) **93f:76065**
— (*with* Sandri, D.) A formulation of Stokes's problem and the linear elasticity equations suggested by the Oldroyd model for viscoelastic flow. (French summary) **93a:73051**
Barbier, Christine (*with* Bettess, Peter; Bettess, Jacqueline A.) Automatic generation of mapping functions for infinite elements using REDUCE. (English summary)
Bartels, Richard H. *see* **Vermeulen, A. H.; et al., 93b:65018**
Bathe, Klaus-Jürgen *see* **Eterovic, A. L., 93d:73067** *and* **Brezzi, Franco, 93f:73058**
Bayada, Guy *see* **Jai, M.; et al., 93g:65130**
Benbourenane, Mohamed *see* **Bank, Randolph E., 93d:65106**
Benda, Josef Solution of an ideal compressible fluid flow in a plane cascade by the finite element method. (*see* **93b:65007**)
Ben Dhia, Hachmi Numerical analysis of a bidimensional Hencky problem approximated by a discontinuous finite element method. **93c:65129**
Bermúdez de Castro, Alfredo (*with* Pedreira, Dolores G.) A finite-element method for computing propagation modes in waveguides. (Spanish. English summary) (*see* **93j:00009**)
Bernardi, Christine (*with* Dauge, Monique; Maday, Yvon) Relèvements de traces préservant les polynômes. (English and French summaries) [Trace liftings which preserve polynomials] **93g:65036**
Bettess, Jacqueline A. *see* **Barbier, Christine; et al.**
Bettess, Peter *see* **Barbier, Christine; et al.**
Blum, Heribert Defect correction schemes for mixed and nonconforming finite elements. (English summary) **93f:65072**
Bornemann, Folkmar A. An adaptive multilevel approach to parabolic equations. III. 2D error estimation and multilevel preconditioning. **93g:65126**
Bossavit, A. Mixed elements and a two-phase free-boundary problem in magnetostatics. (French summary) **93f:78009**
Bourquin, Frédéric Component mode synthesis and eigenvalues of second order operators: discretization and algorithm. (French summary) **93a:65140**
Braess, Dietrich *see* **Peisker, P., 93j:73070**
Brenner, Susanne C. (*with* Sung, Li-Yeng) Linear finite element methods for planar linear elasticity. **93a:73078**
Brezzi, Franco (*with* Bathe, Klaus-Jürgen) Recent developments in the finite element approximation of Reissner-Mindlin plates. (Portuguese summary) **93f:73058**
Brichau, F. (*with* Deconinck, J.) A numerical model coupling galvanic corrosion and ohmic voltage drop in buried pipelines. (English summary) (*see* **93b:65002**)
Cai, Xiao-Chuan *see* **Xu, Jinchao, 93a:65059**
Capiński, Marek (*with* Cutland, Nigel J.) A simple proof of existence of weak and statistical solutions of Navier-Stokes equations. (English summary) **93h:35155**
Carini, A. (*with* Diligenti, M.; Maier, Giulio) Boundary integral equation analysis in linear viscoelasticity: variational and saddle point formulations. (English summary) **93g:73062**
Chambat, Michèle *see* **Jai, M.; et al., 93g:65130**
Chang, Ching Lung (*with* Fix, George J.) A mixed finite element method for Stokes problem—acceleration, pressure, formulation. (English summary) **93h:76046**
Chenais, D. *see* **Habbal, Abderrahmane, 93f:73099**
Chinosi, C. (*with* Sacchi Landriani, Giovanni; Scapolla, T.) A hierarchic family of conforming finite elements for the solution of plate bending problems. (English summary) (*see* **93d:65005**)
Cuesta Moreno, Pedro *see* **Montero García, Gustavo; et al., (93j:00009)**
Cutland, Nigel J. *see* **Capiński, Marek, 93h:35155**
Dahmen, Wolfgang (*with* Kunoth, Angela) Multilevel preconditioning. (English summary) **93j:65065**
Dauge, Monique *see* **Bernardi, Christine; et al., 93g:65036**
Deconinck, J. *see* **Brichau, F., (93b:65002)**
Deineka, V. S. *see* **Sergienko, I. V.; et al., 93b:65119**
Devulder, Christophe (*with* Marion, Martine; Titi, Edriss S.) On the rate of convergence of the nonlinear Galerkin methods. **93h:76017**
Diligenti, M. *see* **Carini, A.; et al., 93g:73062**
Dinh, G. V. *see* **Atamian, C.; et al., 93c:76066**
Dong, Zheng Zhu *see* **Huang, Ping**
Dryja, Maksymilian (*with* Widlund, Olof B.) Multilevel additive methods for elliptic finite element problems. **93b:65188**
— (*with* Widlund, Olof B.) Additive Schwarz methods for elliptic finite element problems in three dimensions. (English summary) **93j:65201**
Duffield, R. C. *see* **Shih, H.-R.; et al., (93b:65002)**
El Amri, Hassan *see* **Baranger, Jacques, 93f:76065**
El Attar, M. Finite element analysis on distributed memory architectures. (English summary)
Elman, H. C. *see* **Babuška, Ivo M.; et al., 93h:65179**

Eremenko, S. Yu. ★ Методы конечных элементов в механике деформируемых тел. (Russian. Russian summary) [Finite-element methods in the mechanics of deformable bodies] **93h:73037**

Eriksson, Kenneth (*with* Johnson, Claes) Adaptive streamline diffusion finite element methods for stationary convection-diffusion problems. **93d:65095**

Eterovic, A. L. (*with* Bathe, Klaus-Jürgen) On large strain elastoplastic analysis with frictional contact conditions. **93d:73067**

(Evans, David J.) *see* **Retraction: "The age Galerkin method for solving two-point boundary value problems", 93b:65111**

Faille, I. A control volume method to solve an elliptic equation on a two-dimensional irregular mesh. (English summary) **93j:65167**

Farhat, Charbel A saddle-point principle domain decomposition method for the solution of solid mechanics problems. (English summary) **93h:73038**

Feng, Gang *see* **Zhou, Shu Zi, 93i:49017**

Figueiredo, Isabel M. N. (*with* Trabucho, L.) A Galerkin approximation for curved beams. (English summary) **93k:73048**

Fix, George J. *see* **Chang, Ching Lung, 93h:76046**

Fortin, Michel (*with* Mghazli, Z.) Analyse d'un élément mixte pour le problème de Stokes. I. Résultats généraux. (English summary) [Analysis of a mixed element for the Stokes problem. I. General results] **93g:76078**

— (*with* Mghazli, Z.) Analyse d'un élément mixte pour le problème de Stokes. II. Construction et estimations d'erreur. (English summary) [Analysis of a mixed element for the Stokes problem. II. Construction and error estimates] **93i:76054**

Fronk, T. H. (*with* Mahan, J. R.) Fully-coupled fluid-structure formulation of a baffled rectangular orthotropic plate using the boundary element and finite element methods. (English summary) (*see* **93b:65002**)

Gao, Hang Shan *see* **Zhang, Ru Qing, 93f:73107**

George, P. L. ★ Automatic mesh generation. **93f:65002**

Georgiev, Krassimir (*with* Margenov, Svetozar) On domain decomposition methods for problems with discontinuous coefficients. (English summary) (*see* **93e:00022**)

Gerstle, W. H. (*with* Prasad, N. N. V.; Xie, M.) Solution method for coupled elastostatic BEM and FEM domains. (English summary) (*see* **93b:65002**)

Glowinski, Roland *see* **Atamian, C.; et al., 93c:76066** *and* **Achdou, Yves; et al., 93m:65165**

Goldberg, M. *see* **Adolfsson, Vilhelm; et al., 93f:65087**

Gravvanis, George A. *see* **Lipitakis, Elias A., 93b:65073**

Greenbaum, Anne Diagonal scalings of the Laplacian as preconditioners for other elliptic differential operators. **93c:65047**

Gunzburger, Max D. (*with* Hou, Steven L.) Treating inhomogeneous essential boundary conditions in finite element methods and the calculation of boundary stresses. **93d:76039**

Haase, Gundolf (*with* Langer, Ulrich[1]; Meyer, Arnd) Domain decomposition preconditioners with inexact subdomain solvers. **93c:65153**

Habbal, Abderrahmane (*with* Chenais, D.) Deterioration of a finite element method for arch structures when the thickness goes to zero. **93f:73099**

Haque, K. A. *see* **Strouboulis, T., 93j:65172**

Harari, Isaac (*with* Hughes, Thomas J. R.) Galerkin/least-squares finite element methods for the reduced wave equation with nonreflecting boundary conditions in unbounded domains. (English summary) **93c:76060**

— (*with* Hughes, Thomas J. R.) What are C and h?: inequalities for the analysis and design of finite element methods. **93g:65122**

He, Jiwen *see* **Atamian, C.; et al., 93c:76066**

Heinrich, Juan C. *see* **Pepper, Darrell W., 93f:65001**

Heppler, G. R. *see* **Vermeulen, A. H.; et al., 93b:65018**

Hlaváček, Ivan Shape optimization of elastoplastic bodies by the finite element method. (*see* **93b:65007**)

— (*with* Křížek, Michal) Weight minimization of elastic bodies weakly supporting tension. I. Domains with one curved side. (Czech summary) **93c:73029**

Ho, Lee-Wing (*with* Maday, Yvon; Patera, Anthony T.; Rønquist, Einar M.) A high-order Lagrangian-decoupling method for the incompressible Navier-Stokes equations. (English summary) (*see* **93d:65005**)

Hou, Steven L. *see* **Gunzburger, Max D., 93d:76039**

Huang, Ping (*with* Dong, Zheng Zhu) Numerical residual elimination method of finite differential equations. (Chinese. English and Chinese summaries)

Huang, Zi Ping A multigrid algorithm for the plane elasticity by the mixed finite element approximation. (English summary) (*see* **93d:65004**)

Hughes, Thomas J. R. *see* **Harari, Isaac, 93c:76060** *and* **93g:65122**

Huntebrinker, Wolfgang ★ Numerische Bestimmung von Eigenwerten des Laplace-Operators auf hyperbolischen Räumen mit adaptiven Finite-Element-Methoden. (German) [Numerical determination of eigenvalues of the Laplace operator on hyperbolic spaces with adaptive finite element methods] **93f:65079**

Iannelli, G. S. (*with* Baker, Allen Jerome) A non-linearly stable implicit finite element algorithm for hypersonic aerodynamics. **93a:76067**

Jaffard, Stéphane (*with* Laurençot, Ph.) Orthonormal wavelets, analysis of operators, and applications to numerical analysis. **93h:42024**

— Wavelet methods for fast resolution of elliptic problems. **93i:35042**

Jai, M. (*with* Bayada, Guy; Chambat, Michèle) The L.P.D.E.M., a mixed finite difference method for elliptic problems. (English summary) **93g:65130**

Jawerth, Björn *see* **Adolfsson, Vilhelm; et al., 93f:65087**

Jensen, Soren S. p-version of mixed finite element methods for Stokes-like problems. (English summary) **93m:76058**

Jerome, Joseph W. Numerical approximation of PDE system fixed-point maps via Newton's method. **93b:65085**

Jiang, Tong *see* **Pan, Gu Ning; et al., (93b:65008)**

Johnson, Claes *see* **Eriksson, Kenneth, 93d:65095**

Kim, J. *see* **Park, J.-h.; et al., (93b:65002)**

Kiss, Béla (*with* Molnárka, Győző) A preconditioned domain decomposition algorithm for the solution of the elliptic Neumann problem. **93a:65172**

Kobozeva, A. A. (*with* Maslovskaya, L. V.) A generalized Cholesky algorithm in problems in the theory of plates and shells. (Russian. Russian summary) **93h:73039**

Koh, H. M. *see* **Park, J.-h.; et al., (93b:65002)**

Křížek, Michal *see* **Hlaváček, Ivan, 93c:73029**

Kunoth, Angela *see* **Dahmen, Wolfgang, 93j:65065**

Laminie, Jacques (*with* Pascal, Frédéric; Temam, Roger) Nonlinear Galerkin method with finite element approximation. (*see* **93e:76002**)

Langer, Ulrich[1] *see* **Haase, Gundolf; et al., 93c:65153**

Laurençot, Ph. *see* **Jaffard, Stéphane, 93h:42024**

Lennerstad, H. *see* **Adolfsson, Vilhelm; et al., 93f:65087**

Lett, G. Scott *see* **Mandel, Jan, 93c:65154**

Li, Kai Tai (*with* Liu, Xiao Zhong) Bifurcation with symmetry breaking for the flow between two concentric rotating spheres. (English summary) **93h:65083**

Li, Li Kang (*with* Babuška, Ivo M.) The corner singularity and boundary layer and computation for hierarchic plate model. (English summary) (*see* **93d:65004**)

Li, Zhi Ping Globally 1-1 solutions and finite element method for elastic-contact problems in nonlinear elasticity. **93h:73034**

Liang, Dong A characteristics mixed finite element method of numerical simulation for 2-phase immiscible flow. **93d:76040**

— Generalized difference scheme methods for second-order elliptic equations. (Chinese. English summary) **93c:65125**

Lin, J. *see* **Shih, H.-R.; et al., (93b:65002)**

Lin, Qun (*with* Zhou, Ai Hui) Defect correction for finite element gradient. (English summary) **93h:65039**

Lipitakis, Elias A. (*with* Gravvanis, George A.) The numerical solution of large finite element systems by explicit preconditioning semi-direct methods. **93b:65073**

Liu, Tie Niu (*with* Xu, Dao Lin) Large range analysis for nonlinear dynamic systems—element mapping method. (Chinese. English and Chinese summaries) **93g:65156**

Liu, Xiao Zhong *see* **Li, Kai Tai, 93h:65083**

Liu, Zu De *see* **Pan, Gu Ning; et al., (93b:65008)**

Lu, Wen Da *see* **Yang, Zheng Wen, (93b:65008)**

Maday, Yvon (*with* Ravel, Jean-Christophe) Adaptativité par ondelettes: conditions aux limites et dimensions supérieures. (English summary) [Adaptivity using wavelets: boundary conditions and multidimensions] **93e:65155**

— *see also* **Bernardi, Christine; et al., 93g:65036** *and* **Ho, Lee-Wing; et al., (93d:65005)**

Mahan, J. R. *see* **Fronk, T. H., (93b:65002)**

Maier, Giulio *see* **Carini, A.; et al., 93g:73062**

Mandel, Jan (*with* Lett, G. Scott) Domain decomposition preconditioning for p-version finite elements with high aspect ratios. **93c:65154**

Mao, K. M. (*with* Sun, C. T.) Error estimators using global-local methods. (English summary) **93e:65130**

Margenov, Svetozar *see* **Georgiev, Krassimir, (93e:00022)**

Marion, Martine *see* **Devulder, Christophe; et al., 93h:76017**

Markley, K. *see* **Babuška, Ivo M.; et al., 93b:65179**

Mascarenhas, M. L. (*with* Trabucho, L.) Asymptotic, homogenization and Galerkin methods in three-dimensional beam theory. (English summary) (*see* **93j:00008**)

Maslovskaya, L. V. *see* **Kobozeva, A. A., 93h:73039**

McCormick, Stephen F. ★ Multilevel projection methods for partial differential equations. **93b:65137**

Mertins, Ulrich Zur Konvergenz des Rayleigh-Ritz-Verfahrens bei Eigenwertaufgaben. (English summary) [On the convergence of the Rayleigh-Ritz method for eigenvalue problems] **93d:49048**

— Asymptotische Fehlerschranken für Rayleigh-Ritz-Approximationen selbstadjungierter Eigenwertaufgaben. (English and German summaries) [Asymptotic error estimates for Rayleigh-Ritz approximations of selfadjoint eigenvalue problems] **93k:65086**

Meyer, Arnd *see* **Haase, Gundolf; et al., 93c:65153**

Mghazli, Z. *see* **Fortin, Michel, 93g:76078** *and* **93i:76054**

Mokin, Yu. I. Approximation of smooth functions on surfaces of a three-dimensional space. (Russian. Russian summary) **93m:65019**

Molnárka, Győző *see* **Kiss, Béla, 93a:65172**

Montero García, Gustavo (*with* Winter, Gabriel; Almeida Benítez, Pedro; Cuesta Moreno, Pedro) Solution of nonsymmetric systems with preconditioned conjugate double gradient in adaptive processes. (Spanish. English summary) (*see* **93j:00009**)

Nakao, Mitsuhiro T. Solving nonlinear parabolic problems with result verification. I. One-space-dimensional case. **93b:35074**

Natarajan, Ramesh An Arnoldi-based iterative scheme for nonsymmetric matrix pencils arising in finite element stability problems. **93b:65058**

Nečas, Jindřich Finite element approach to the transonic flow problem. (*see* **93b:65007**)

Oden, J. Tinsley *see* **Ainsworth, Mark, 93h:73035** *and* **93j:65170**

Oswald, Peter On a hierarchical basis multilevel method with nonconforming P1 elements. **93b:65059**

Pan, Gu Ning (*with* Liu, Zu De; Jiang, Tong) Analysis of piles in layered soils by the coupling method of FEM-BEM. (*see* **93b:65008**)

Park, J.-h. (*with* Koh, H. M.; Kim, J.) Fluid-structure interaction analysis by a coupled boundary element-finite element method in time domain. (English summary) (*see* **93b:65002**)

Pascal, Frédéric *see* **Laminie, Jacques; et al., (93e:76002)**

Patera, Anthony T. *see* **Ho, Lee-Wing; et al., (93d:65005)**

Pedreira, Dolores G. *see* **Bermúdez de Castro, Alfredo, (93j:00009)**

Peisker, P. (*with* Braess, Dietrich) Uniform convergence of mixed interpolated elements for Reissner-Mindlin plates. (English and French summaries) **93j:73070**

Pepper, Darrell W. (*with* Heinrich, Juan C.) ★ The finite element method. **93f:65001**

Périaux, Jacques *see* **Atamian, C.; et al., 93c:76066**

Pironneau, Olivier *see* **Achdou, Yves; et al., 93m:65165**

Prasad, N. N. V. *see* **Gerstle, W. H.; et al., (93b:65002)**

Qiu, Ji Bao Variation of square error functional and application of the discrete least square method with Gauss collocation. **93a:65162**

Quarteroni, Alfio (*with* Sacchi Landriani, Giovanni; Valli, Alberto) Coupling of viscous and inviscid Stokes equations via a domain decomposition method for finite elements. **93b:65190**

— (*with* Zampieri, Elena) Finite element preconditioning for Legendre spectral collocation approximations to elliptic equations and systems. **93c:65146**

Rank, E. Adaptivity and accuracy estimation for FEM and BIEM. (*see* **93m:65005**)

Ravel, Jean-Christophe *see* **Maday, Yvon, 93e:65155**

Reddy, B. D. Mixed finite element methods for one-dimensional problems: a survey. (English summary) **93k:73081**
Reddy, J. N. ★ Applied functional analysis and variational methods in engineering. **93b:00002**
Resnikoff, Howard L. (*with* Wells, Raymond O., Jr.) Wavelet analysis and the geometry of Euclidean domains. **93e:42047**
Rizza, A. Numerical analysis of a self-adaptive formulation for the viscous/inviscid coupling. **93b:76058**
Rønquist, Einar M. *see* **Ho, Lee-Wing; et al.**, (**93d:65005**)
Rusten, Torgeir (*with* Winther, Ragnar) Substructure preconditioners for elliptic saddle point problems. **93d:65108**
(Rvachëv, V. L.) *see* **Eremenko, S. Yu.**, **93h:73037**
Rylov, A. A. Convergence of the finite element method for equations of a nonhomogeneous viscous fluid. (Russian. Russian summary) **93k:76078**
Sacchi Landriani, Giovanni *see* **Quarteroni, Alfio; et al.**, **93b:65190** *and* **Chinosi, C.; et al.**, (**93d:65005**)
Sander, S. A. Localization of a boundary condition in variational-difference approximation in a polar coordinate system. (Russian) (*see* **93i:65007**)
Sandri, D. *see* **Baranger, Jacques**, **93a:73051**
Sauter, Stefan (*with* Wittum, Gabriel) A multigrid method for the computation of eigenmodes of closed water basins. **93c:76062**
Sbosny, Hannes (*with* Witsch, Kristian) Parallel multigrid using domain decomposition. **93a:65173**
Scapolla, T. *see* **Chinosi, C.; et al.**, (**93d:65005**)
Schwarz, Hans-Rudolf ★ Methode der finiten Elemente. (German) [The finite element method] **93e:65002**
Sergienko, I. V. (*with* Deineka, V. S.; Skopetskiĭ, V. V.) Approximate discontinuous solutions of the finite element method and their convergence in the norm $L_2(\Omega)$. (Russian. English summary) **93b:65119**
Shapiro, Richard A. ★ Adaptive finite element solution algorithm for the Euler equations. **93b:76059**
Shih, H.-R. (*with* Duffield, R. C.; Lin, J.) Boundary-finite element model for eccentrically stiffened plates under transverse loading. (English summary) (*see* **93b:65002**)
Skopetskiĭ, V. V. *see* **Sergienko, I. V.; et al.**, **93b:65119**
Smith, Barry F. A parallel implementation of an iterative substructuring algorithm for problems in three dimensions. (English summary) **93m:65042**
Stephan, E. P. Coupling of finite elements and boundary elements for some nonlinear interface problems. (English summary) **93j:73019**
Strouboulis, T. (*with* Haque, K. A.) Recent experiences with error estimation and adaptivity. II. Error estimation for *h*-adaptive approximations on grids of triangles and quadrilaterals. (English summary) **93j:65172**
Sun, C. T. *see* **Mao, K. M.**, **93e:65130**
Sung, Li-Yeng *see* **Brenner, Susanne C.**, **93a:73078**
Suri, Manil *see* **Banerjee, Uday**, **93g:65137**
Tangmanee, S. A unified numerical approximation for linear differential equations. (*see* **93b:00022**)
Tarzia, Domingo A. Numerical analysis of a Stokes equation. (Spanish. English and Spanish summaries) **93m:76063**
Temam, Roger *see* **Laminie, Jacques; et al.**, (**93e:76002**)
Titi, Edriss S. *see* **Devulder, Christophe; et al.**, **93h:76017**
Trabucho, L. *see* **Figueiredo, Isabel M. N.**, **93k:73048** *and* **Mascarenhas, M. L.**, (**93j:00008**)
Tröltzsch, Fredi On convergence of semidiscrete Ritz-Galerkin schemes applied to the boundary control of parabolic equations with nonlinear boundary condition. (English, German and Russian summaries) **93j:35100**
Trouvé, Pascal Various nonconforming approximations of thin shell problems and the question of their convergence. (English and Portuguese summaries) **93j:73071**
Ushijima, Teruo Computational aspect of linear water wave problem. **93d:76009**
Valli, Alberto *see* **Quarteroni, Alfio; et al.**, **93b:65190**
Vassilevski, Panayot S. Preconditioning nonsymmetric and indefinite finite element matrices. **93c:65133**
Vermeulen, A. H. (*with* Bartels, Richard H.; Heppler, G. R.) Integrating products of *B*-splines. **93b:65018**
Wang, Lie Heng Mathematical modelling of coupled plates and their finite element approximations. (English summary) (*see* **93d:65004**)
Wei, Dongming Finite element approximation of the first eigenpair of a nonlinear problem. **93a:65143**
Wells, Raymond O., Jr. *see* **Resnikoff, Howard L.**, **93e:42047**
Widlund, Olof B. Some Schwarz methods for symmetric and nonsymmetric elliptic problems. (English summary) **93j:65202**
— *see also* **Dryja, Maksymilian**, **93b:65188** *and* **93j:65201**
Winter, Gabriel *see* **Montero García, Gustavo; et al.**, (**93j:00009**)
Winther, Ragnar *see* **Rusten, Torgeir**, **93d:65108**
Witsch, Kristian *see* **Sbosny, Hannes**, **93a:65173**
Wittum, Gabriel *see* **Sauter, Stefan**, **93c:76062**
Wong, Sze-Ping Preconditioning nonconforming finite element methods for treating Dirichlet boundary conditions. I, II. **93g:65136**
Xie, M. *see* **Gerstle, W. H.; et al.**, (**93b:65002**)
Xu, Dao Lin *see* **Liu, Tie Niu**, **93g:65156**
Xu, Jinchao (*with* Cai, Xiao-Chuan) A preconditioned GMRES method for nonsymmetric or indefinite problems. **93a:65059**
— Iterative methods by space decomposition and subspace correction. (English summary) **93k:65029**
Yang, Zheng Wen (*with* Lu, Wen Da) Analysis of dynamic interaction between soil and cooling tower by hybrid method. (*see* **93b:65008**)
Yuan, Yi Rang (*with* Zhou, Guo Hui) Curved finite elements for the problem of embedding a plate on an elastic foundation. (Chinese. Chinese summary) **93j:73049**
— Finite element-characteristic method and analysis for a compressible miscible displacement problem in porous media. (English summary) **93g:76082**
— A mixed finite element method for the transient behavior of a semiconductor device. (English summary) **93i:65096**
Yutsis, V. S. Automation of some stages of the realization of the finite-element method. (Russian. English and Georgian summaries) **93c:65003**
Zampieri, Elena *see* **Quarteroni, Alfio**, **93c:65146**
Zhang, Ru Qing Elastic dynamics variational principle for nonlinear elastic body. (Chinese. English summary) **93d:73072**
— (*with* Gao, Hang Shan) The random variational principle and finite element method. (Chinese. English and Chinese summaries) **93f:73107**
Zhang, Xuejun Multilevel Schwarz methods. (English summary) **93h:65047**
Zhou, Ai Hui *see* **Lin, Qun**, **93h:65039**
Zhou, Guo Hui *see* **Yuan, Yi Rang**, **93j:73049**
Zhou, Shu Zi (*with* Feng, Gang) The convergence of nonconforming elements for variational inequalities. (English and Chinese summaries) **93i:49017**

Items listed otherwise than by author

Retraction:

"The age Galerkin method for solving two-point boundary value problems" Retraction: "The age Galerkin method for solving two-point boundary value problems" [Comput. Math. Appl. **16** (1988), no. 12, 1045–1055; MR 90k:65152] by D. J. Evans. **93b:65111**

65N35 Spectral, collocation and related methods

Alziary de Roquefort, T. *see* **Farcy, A.**, (**93d:65005**)
Andreassen, Øyvind *see* **Wasberg, Carl Erik**, (**93d:65005**)
Barenghi, Carlo F. A spectral method for time modulated Taylor-Couette flow. (*see* **93d:65005**)
Bernardi, Christine (*with* Coppoletta, Giuseppe; Girault, Vivette; Maday, Yvon) Spectral methods for the Stokes problem in stream-function formulation. (English summary) (*see* **93d:65005**)
— (*with* Girault, Vivette; Maday, Yvon) Mixed spectral element approximation of the Navier-Stokes equations in the stream-function and vorticity formulation. (English and French summaries) **93i:65113**
Bialecki, Bernard (*with* Fernandes, Ryan I.) Orthogonal spline collocation Laplace-modified and alternating-direction methods for parabolic problems on rectangles. (English summary) **93h:65142**
Bontoux, P. *see* **Chaouche, A.; et al.**, (**93d:65005**)
Chao, Hong Yang Improved pulse-spectrum technique for solving the inverse problem of two-dimensional diffusive coefficient. (English summary) (*see* **93d:65004**)
Chaouche, A. (*with* Randriamampianina, A.; Bontoux, P.) A collocation method based on the influence matrix technique for Navier-Stokes problems in annular domains. (English summary) (*see* **93d:65005**)
Cooper, K. D. Domain-imbedding alternating direction method for linear elliptic equations on irregular regions using collocation. (English summary) **93j:65192**
Coppoletta, Giuseppe *see* **Bernardi, Christine; et al.**, (**93d:65005**)
Couland, Olivier (*with* Funaro, Daniele; Kavian, Otared) Laguerre spectral approximation of elliptic problems in exterior domains. (*see* **93d:65005**)
Dâng Vu, H. (*with* Delcarte, C.) An accurate solution of the Poisson equation by the Chebyshev collocation method. (English summary) **93m:65161**
Delcarte, C. *see* **Dâng Vu, H.**, **93m:65161**
Désidéri, J.-A. *see* **Guillard, H.**, (**93d:65005**)
Deville, M. O. Chebyshev collocation solutions of flow problems. (English summary) (*see* **93d:65005**)
Don, Wai-Sun (*with* Gottlieb, David) Spectral simulations of an unsteady compressible flow past a circular cylinder. (English summary) (*see* **93d:65005**)
Eisen, Henner (*with* Heinrichs, Wilhelm) A new method of stabilization for singular perturbation problems with spectral methods. **93a:65160**
Falqués, A. *see* **Iranzo, V.**, **93d:65103**
Farcy, A. (*with* Alziary de Roquefort, T.) Pseudospectral multi-domain method for incompressible viscous flow computation. (English summary) (*see* **93d:65005**)
Fernandes, Ryan I. *see* **Bialecki, Bernard**, **93h:65142**
Fischer, Paul F. Analysis and application of a parallel spectral element method for the solution of the Navier-Stokes equations. (English summary) (*see* **93d:65005**)
de Frutos, Javier A tau-pseudospectral scheme for the numerical solution of fourth-order problems. (Spanish. Spanish summary) (*see* **93j:00009**)
Funaro, Daniele *see* **Coulaud, Olivier; et al.**, (**93d:65005**)
Gastaldi, F. (*with* Quarteroni, Alfio; Sacchi Landriani, Giovanni) Coupling of two-dimensional hyperbolic and elliptic equations. (English summary) (*see* **93d:65005**)
Gauthier, Serge A semi-implicit collocation method: application to two-dimensional compressible convection. (English summary) (*see* **93d:65005**)
Girault, Vivette *see* **Bernardi, Christine; et al.**, **93i:65113** *and* (**93d:65005**)
Gottlieb, David *see* **Don, Wai-Sun**, (**93d:65005**)
Guillard, H. (*with* Désidéri, J.-A.) Iterative methods with spectral preconditioning for elliptic equations. (English summary) (*see* **93d:65005**)
Guo, Ben Yu *see* **Huang, Wei²**, **93h:65143**
Heinrichs, Wilhelm Algebraic spectral multigrid methods. (English summary) (*see* **93d:65005**)
— *see also* **Eisen, Henner**, **93a:65160**
Hirsh, Richard S. *see* **Ku, Hwar-Ching; et al.**, (**93d:65005**)
Ho, Lee-Wing (*with* Patera, Anthony T.) A Legendre spectral element method for simulation of unsteady incompressible viscous free-surface flows. (English summary) (*see* **93d:65005**)
Huang, Wei² (*with* Guo, Ben Yu) The spectral-difference method for Navier-Stokes equations. (English summary) **93h:65143**
Iranzo, V. (*with* Falqués, A.) Some spectral approximations for differential equations in unbounded domains. **93d:65103**
Karniadakis, George Em. Spectral element–Fourier methods for incompressible turbulent flows. (English summary) (*see* **93d:65005**)
Kavian, Otared *see* **Coulaud, Olivier; et al.**, (**93d:65005**)
Krylova, T. V. Approximate solution of continuous-discrete boundary value problems. (Russian. Russian summary) **93i:65114**

Ku, Hwar-Ching (*with* Taylor, Thomas D.; Hirsh, Richard S.) Pseudospectral matrix element methods for flow in complex geometry. (English summary) (*see* **93d:65005**)
Le Quere, P. (*with* Pécheux, J.) A three-dimensional pseudo-spectral algorithm for the computation of convection in a rotating annulus. (English summary) (*see* **93d:65005**)
Lu, Tong Chao A characteristic-collocation method for convection-diffusion problems. (Chinese. English summary) **93c:65145**
Maday, Yvon (*with* Rønquist, Einar M.) Optimal error analysis of spectral methods with emphasis on nonconstant coefficients and deformed geometries. (English summary) **93e:65142**
— (*with* Meiron, D. I.; Patera, Anthony T.; Rønquist, Einar M.) Analysis of iterative methods for the steady and unsteady Stokes problem: application to spectral element discretizations. (English summary) **93k:65099**
— *see also* **Bernardi, Christine; et al., 93i:65113** *and* **(93d:65005)**
Meiron, D. I. *see* **Maday, Yvon; et al., 93k:65099**
Miara, Bernadette (*with* Trabucho, L.) A Galerkin spectral approximation in linearized beam theory. (French summary) **93b:65182**
Muñoz, Rafael Theoretical analysis of some spectral multigrid methods. (English summary) (*see* **93d:65005**)
Papini, Alessandra One-dimensional collocation at Gaussian points and superconvergence at interior nodal points. (Italian summary) **93a:65161**
Patera, Anthony T. *see* **Maday, Yvon; et al., 93k:65099** *and* **Ho, Lee-Wing, (93d:65005)**
Pécheux, J. *see* **Le Quere, P., (93d:65005)**
Phillips, Timothy N. Pseudospectral domain decomposition techniques for the Navier-Stokes equations. (English summary) (*see* **93g:65009**)
Qiu, Ji Bao Variation of square error functional and application of the discrete least square method with Gauss collocation. **93a:65162**
Quarteroni, Alfio (*with* Zampieri, Elena) Finite element preconditioning for Legendre spectral collocation approximations to elliptic equations and systems. **93c:65146**
— *see also* **Gastaldi, F.; et al., (93d:65005)**
Randriamampianina, A. *see* **Chaouche, A.; et al., (93d:65005)**
Rønquist, Einar M. *see* **Maday, Yvon, 93e:65142** *and* **93k:65099**
Sacchi Landriani, Giovanni *see* **Gastaldi, F.; et al., (93d:65005)**
Sander, S. A. Domain decomposition and rational approximation problems. **93a:65163**
Schmitz, Hermann A collocation method for potential problems with a mixed Dirichlet-Signorini boundary condition. (*see* **93k:35004**)
Shen, Jie Numerical simulation of the regularized driven cavity flows at high Reynolds numbers. (English summary) (*see* **93d:65005**)
Stephenson, J. W. (*with* Sun, Jing) Collocation cubic elements for elliptic equations. **93c:65147**
Sun, Jing *see* **Stephenson, J. W., 93c:65147**
Sun, Wei Wei *see* **Zamani, Nader G., 93b:65144**
Taylor, Thomas D. *see* **Ku, Hwar-Ching; et al., (93d:65005)**
Trabucho, L. *see* **Miara, Bernadette, 93b:65182**
Vandeven, Hervé On the eigenvalues of second-order spectral differentiation operators. (English summary) (*see* **93d:65005**)
Wasberg, Carl Erik (*with* Andreassen, Øyvind) Pseudospectral methods with open boundary conditions for the study of atmospheric wave phenomena. (English summary) (*see* **93d:65005**)
Xiang, Xin Min *see* **Zhang, Fa Yong, 93b:65183**
Ye, Xing De A spectral τ approximation for the two-dimensional Stokes problem. (Chinese. English and Chinese summaries) **93j:65193**
Zamani, Nader G. (*with* Sun, Wei Wei) Enriched collocation finite element method, a model problem. (English summary) **93h:65144**
Zampieri, Elena A multidomain spectral collocation solver for the elasticity problem. (English summary) (*see* **93g:65009**)
— *see also* **Quarteroni, Alfio, 93c:65146**
Zang, Thomas A. Spectral method for simulations of transition and turbulence. (English summary) (*see* **93d:65005**)
Zhang, Fa Yong (*with* Xiang, Xin Min) Legendre and Chebyshev pseudospectral method for BBM equation. **93b:65183**

Items with secondary classifications in 65N35

Bernardi, Christine (*with* Dauge, Monique; Maday, Yvon) Relèvements de traces préservant les polynômes. (English and French summaries) [Trace liftings which preserve polynomials] **93g:65036**
(Canuto, Claudio) *see* **Spectral and high order methods for partial differential equations, 93d:65005**
Carlenzoli, Claudio (*with* Gervasio, P.) Effective numerical algorithms for the solution of algebraic systems arising in spectral methods. **93b:65220**
Chiu, Chichia (*with* Kopriva, David A.) An optimal Runge-Kutta method for steady-state solutions of hyperbolic systems. **93a:65139**
Costabel, Martin (*with* McLean, William) Spline collocation for strongly elliptic equations on the torus. **93f:65096**
Dauge, Monique *see* **Bernardi, Christine; et al., 93g:65036**
Fairweather, Graeme *see* **Yan, Yi, 93c:65130**
Gervasio, P. *see* **Carlenzoli, Claudio, 93b:65220**
Hadjidimos, Apostolos (*with* Saridakis, Yiannis G.) Modified successive overrelaxation (MSOR) and equivalent 2-step iterative methods for collocation matrices. (English summary) **93h:65057**
Heinrichs, Wilhelm Strong convergence estimates for pseudospectral methods. (English summary) **93h:65101**
— Splitting techniques for the pseudospectral approximation of the unsteady Stokes equations. (English summary) **93i:65097**
Ho, Lee-Wing (*with* Maday, Yvon; Patera, Anthony T.; Rønquist, Einar M.) A high-order Lagrangian-decoupling method for the incompressible Navier-Stokes equations. (English summary) (*see* **93d:65005**)
Khomami, B. *see* **Su, Y. Y., 93a:65142**
Kopriva, David A. *see* **Chiu, Chichia, 93a:65139**
Maday, Yvon *see* **Bernardi, Christine; et al., 93g:65036** *and* **Ho, Lee-Wing; et al., (93d:65005)**
Majda, George *see* **Wei, Mu Sheng, 93k:65081**
McLean, William *see* **Costabel, Martin, 93f:65096**
Meredith, D. (*with* Rasmussen, Henning) Boundary approximation methods for potential problems associated with moving boundary problems. **93f:65088**
Patera, Anthony T. *see* **Ho, Lee-Wing; et al., (93d:65005)**
(Quarteroni, Alfio) *see* **Spectral and high order methods for partial differential equations, 93d:65005**
Rasmussen, Henning *see* **Meredith, D., 93f:65088**
Ringhofer, Christian A spectral collocation technique for the solution of the Wigner-Poisson problem. **93e:82046**
Rogina, Mladen Basis of splines associated with some singular differential operators. (English summary) **93i:41006**
Rønquist, Einar M. *see* **Ho, Lee-Wing; et al., (93d:65005)**
Saridakis, Yiannis G. *see* **Hadjidimos, Apostolos, 93h:65057**
Sleptsov, A. G. Collocation-difference solution of elliptic boundary value problems. (Russian. Russian summary) **93j:65168**
Su, Y. Y. (*with* Khomami, B.) Numerical solution of eigenvalue problems using spectral techniques. **93a:65142**
Swann, Howard On the use of Lagrange multipliers in domain decomposition for solving elliptic problems. **93d:65101**
Wei, Mu Sheng (*with* Majda, George) Numerical computation of the scattering frequencies for a cylindrically symmetric potential. (English summary) **93k:65081**
Yan, Yi (*with* Fairweather, Graeme) Orthogonal spline collocation methods for some partial integrodifferential equations. **93c:65130**

Items listed otherwise than by author

Como ★ Spectral and high order methods for partial differential equations. **93d:65005**
Conference:
Spectral and High Order Methods for Partial Differnetial Equations ★ Spectral and high order methods for partial differential equations. **93d:65005**
Spectral and high order methods for partial differential equations ★ Spectral and high order methods for partial differential equations. **93d:65005**

65N38 Boundary element methods

Adey, R. A. *see* **Charafi, A.; et al., (93b:65002)**
Adolfsson, Vilhelm (*with* Goldberg, M.; Jawerth, Björn; Lennerstad, H.) Localized Galerkin estimates for boundary integral equations on Lipschitz domains. (English summary) **93f:65087**
Ali, Ashraf *see* **Kaljević, Igor; et al.**
Allgower, Eugene L. (*with* Böhmer, Klaus; Georg, Kurt; Miranda, Rick) Exploiting symmetry in boundary element methods. **93b:65184**
Amaya, K. *see* **Aoki, S., (93b:65008)**
Amini, S. *see* **Chen, Ke, 93i:65115**
Aoki, K. *see* **Tanaka, Masataka; et al., (93b:65008)**
Aoki, S. (*with* Amaya, K.) Optimization of cathodic protection system (optimum location of electrode on wall). (*see* **93b:65008**)
Bachelot, Alain (*with* Pujols, Agnès) Équations intégrales espace-temps pour le système de Maxwell. (English summary) [Time-dependent integral equations for the Maxwell system] **93a:65164**
Bănzaru, T. *see* **Năsläu, P.**
Barbieri, R. *see* **Filippin, C. G.; et al., (93b:65002)**
de Barcellos, C. S. *see* **Filippin, C. G.; et al., (93b:65002)**
Beissner, R. E. Boundary element simulation of eddy current inspection. (English summary) (*see* **93b:65002**)
Böhmer, Klaus *see* **Allgower, Eugene L.; et al., 93b:65184**
Boutefnouchet, Mahmoud L'analyse des éléments aux bords pour le problème aux limites mixte biharmonique. [Boundary-element analysis for a biharmonic mixed boundary value problem] **93g:65150**
Brichau, F. (*with* Deconinck, J.) A numerical model coupling galvanic corrosion and ohmic voltage drop in buried pipelines. (English summary) (*see* **93b:65002**)
Brilla, Jozef Error analysis for Laplace transform–boundary element solution of parabolic equations. (*see* **93b:65007**)
Charafi, A. (*with* Wrobel, L. C.; Adey, R. A.) An approach to h-adaptive boundary element method using local reanalysis. (English summary) (*see* **93b:65002**)
Chen, Goong (*with* Zhou, Jian-Xin) ★ Boundary element methods. **93e:65143**
Chen, Ke (*with* Amini, S.) Numerical analysis of boundary integral solution of the Helmholtz equation in domains with nonsmooth boundaries. (English summary) **93i:65115**
Contractor, Dinshaw N. *see* **Srivastava, Rajesh, 93b:65185**
Cormack, Donald E. *see* **Rosen, Dan, 93m:65163**
Deconinck, J. *see* **Brichau, F., (93b:65002)**
Detournay, Christine A Cauchy integral element method for boundary singularities. (English summary) (*see* **93b:65002**)
— A Cauchy integral element for power-type singularities. (English summary) **93g:65151**
Dong, Chun Ying *see* **Yao, Zhen Han, (93b:65008)**
Dong, Y. F. (*with* Parreira, P.) Quadratic h-hierarchical adaptive boundary elements. (English summary) (*see* **93b:65002**)
Dular, P. *see* **Nicolet, A.; et al., (93b:65002)**
Dümcke, R. *see* **Fazelpour, S.; et al., (93b:65002)**
Fazelpour, S. (*with* Dümcke, R.; Reichl, H.) Solution of two-dimensional electrostatic and eddy current problems based on BEM for modelling of interconnects on multichip modules. (English summary) (*see* **93b:65002**)
Filippin, C. G. (*with* Barbieri, R.; de Barcellos, C. S.) Numerical results for h- and p-convergences for the modified local Green's function method. (English summary) (*see* **93b:65002**)
Frincu, Guerino The solution of Stokes equation by the boundary element method. (English summary) **93g:65152**
— Stokes equation study by integral equations method. (English summary) **93g:65153**
Fukui, Toshizumi (*with* Tani, Katsunori) On truncation scheme for time marching BEM in two-dimensional wave problems. (*see* **93b:65008**)

Gatica, Gabriel N. (*with* Hsiao, George C.) The coupling of boundary integral and finite element methods for nonmonotone nonlinear problems. (English summary) **93j:65194**
Genon, A. *see* **Nicolet, A.; et al., (93b:65002)**
Georg, Kurt *see* **Allgower, Eugene L.; et al., 93b:65184**
Glisson, A. W. Numerical solution of boundary integral equation formulations for electromagnetic scattering problems. (English summary) (*see* **93b:65002**)
Goldberg, M. *see* **Adolfsson, Vilhelm; et al., 93f:65087**
Guan, Zhi *see* **Han, Hou De, (93b:65006)** *and* **(93b:65008)**
Guiggiani, M. Direct evaluation of hypersingular integrals in 2D BEM. **93a:65165**
Hackbusch, Wolfgang The solution of large systems of BEM equations by the multi-grid and panel clustering technique. **93d:65104**
Han, Hou De (*with* Guan, Zhi; He, Bin) Boundary element approximation of Steklov eigenvalue problem. (*see* **93b:65008**)
— A boundary element method for Signorini problems in three dimensions. **93a:65166**
— (*with* Guan, Zhi) An analysis of the boundary element approximation of Steklov eigenvalue problem. (*see* **93b:65006**)
Harrington, R. F. Formulation of boundary integral equations by the equivalent source method. (English summary) (*see* **93b:65002**)
He, Bin *see* **Han, Hou De; et al., (93b:65008)**
Holzer, Siegfried M. How to deal with hypersingular integrals in the symmetric BEM. (English summary) **93j:65195**
Hromadka, T. V., II Complex variable boundary element method error analysis using Taylor series. (English summary) (*see* **93b:65002**)
— (*with* Whitley, R. J.) Complex variable element solution of potential flow problems using Taylor series for error analysis. **93a:65167**
Hsiao, George C. (*with* Kleinman, Ralph E.) Feasible error estimates in boundary element methods. (English summary) (*see* **93b:65002**)
— *see also* **Gatica, Gabriel N., 93j:65194**
Hu, Hai Chang Necessary and sufficient boundary integral equations for plane harmonic functions. (English summary) **93j:65196**
Jawerth, Björn *see* **Adolfsson, Vilhelm; et al., 93f:65087**
Jiang, Tong *see* **Wang, Wei^2, (93b:65008)**
Kaljević, Igor (*with* Saigal, Sunil; Ali, Ashraf) An infinite boundary element formulation for three-dimensional potential problems. (English summary)
Kawamura, R. (*with* Oikawa, Y.) The study of three-dimensional magnetic problem using direct integration on time of the fundamental solution. (English summary) (*see* **93b:65002**)
Kleinman, Ralph E. *see* **Hsiao, George C., (93b:65002)**
Kobayashi, Shoichi Some techniques for accurate and high-speed computation in BEM. (*see* **93b:65008**)
Kovács, A. Über die Methode des Grenzelements in komplexen Variablen für nichtholomorphe Funktionen. (Romanian summary) [On the method of the limit element in complex variables for nonholomorphic functions]
Legros, W. *see* **Nicolet, A.; et al., (93b:65002)**
Lennerstad, H. *see* **Adolfsson, Vilhelm; et al., 93f:65087**
Li, Gongqin A boundary integral method for an interface problem in acoustic propagation. (English summary) **93m:65162**
Lu, Tong Chao *see* **Yang, Dan Ping, (93b:65008)**
Miranda, Rick *see* **Allgower, Eugene L.; et al., 93b:65184**
Moridis, G. J. Alternative formulations of the Laplace transform boundary element (LTBE) numerical method for the solution of diffusion-type equations. (English summary) (*see* **93b:65002**)
Nakamura, M. *see* **Tanaka, Masataka; et al., (93b:65008)**
Năsłău, P. (*with* Bănzaru, T.) Boundary element method for higher order Poisson equations. (Romanian summary)
Nicolet, A. (*with* Dular, P.; Genon, A.; Legros, W.) Boundary element singularities in 3D magnetostatic problems based on the vector potential. (English summary) (*see* **93b:65002**)
Oikawa, Y. *see* **Kawamura, R., (93b:65002)**
Parreira, P. *see* **Dong, Y. F., (93b:65002)**
Pedersen, Michael Microlocal methods in the analysis of the boundary element method. (English summary) **93j:65197**
Phan-Thien, N. *see* **Zheng, R., 93h:65145**
Pujols, Agnès *see* **Bachelot, Alain, 93a:65164**
Qin, Rong Spline boundary element—QR method. (*see* **93b:65008**)
Reichl, H. *see* **Fazelpour, S.; et al., (93b:65002)**
Rosen, Dan (*with* Cormack, Donald E.) Singular and near singular integrals in the BEM: a global approach. (English summary) **93m:65163**
Ruotsalainen, Keijo Some remarks on the boundary element method for nonlinear problems. (English summary) **93g:65154**
Saigal, Sunil *see* **Kaljević, Igor; et al.**
Sloan, Ian H. Unconventional methods for boundary integral equations in the plane. (English summary) **93e:65144**
Srivastava, Rajesh (*with* Contractor, Dinshaw N.) Efficient evaluation of integrals in three-dimensional boundary element method using linear shape functions over plane triangular elements. **93b:65185**
Tan, Hong *see* **Zhu, Jia Lin; et al., (93b:65006)** *and* **(93b:65008)**
Tanaka, Masataka (*with* Nakamura, M.; Aoki, K.) A study on computational accuracy of the Laplace transform BEM for transient elastodynamic problems. (*see* **93b:65008**)
Tani, Katsunori *see* **Fukui, Toshizumi, (93b:65008)**
Wang, Wei^2 (*with* Jiang, Tong) The methods to improve precision of values of internal points in BEM. (*see* **93b:65008**)
Wendland, Wolfgang L. (*with* Yu, De Hao) A posteriori local error estimates of boundary element methods with some pseudo-differential equations on closed curves. **93d:65105**
Whitley, R. J. *see* **Hromadka, T. V., II, 93a:65167**
Wrobel, L. C. *see* **Charafi, A.; et al., (93b:65002)**
Xia, Jun Fei *see* **Zhu, Jia Lin; et al., (93b:65006)**
Yan, Yi A fast boundary integral equation method for the 2-D Helmholtz equation. (English summary) **93m:65164**
Yang, Dan Ping (*with* Lu, Tong Chao) High order difference-boundary integral differential equation method for 2-D parabolic equation and error analysis. (*see* **93b:65008**)
Yao, Zhen Han (*with* Dong, Chun Ying) A direct error estimator and adaptive scheme of boundary element method. (*see* **93b:65008**)
Yu, De Hao The p-adaptive boundary element method and its a posteriori error estimator. (*see* **93b:65008**)
— *see also* **Wendland, Wolfgang L., 93d:65105**
Yuan, Zheng Qiang *see* **Zhu, Jia Lin; et al., (93b:65006)** *and* **(93b:65008)**
Zhao, Zhong Sheng Boundary element analysis for a nonlinear evolution equation. (*see* **93b:65008**)
Zheng, R. (*with* Phan-Thien, N.) Transforming the domain integrals to the boundary using approximate particular solutions: a boundary element approach for nonlinear problems. (English summary) **93h:65145**
Zhou, Jian-Xin *see* **Chen, Goong, 93e:65143**
Zhu, Jia Lin (*with* Tan, Hong; Yuan, Zheng Qiang) A mixed boundary-domain elements analysis for two-dimensional convection-diffusion equation. (*see* **93b:65008**)
— (*with* Yuan, Zheng Qiang; Xia, Jun Fei; Tan, Hong) Boundary element method for numerical solution of steady Navier-Stokes equations. (*see* **93b:65006**)

Items with secondary classifications in 65N38

Abousleiman, Y. (*with* Cheng, A. H.-D.; Roegiers, J. C.) Boundary element method for viscoporoelasticity with rock mechanics applications. (English summary) (*see* **93b:65002**)
Al-Shemmeri, T. T. Error analysis of boundary element solutions for free-surface flows. (English summary) (*see* **93b:65002**)
Andoh, E. *see* **Kamiya, Norio**
de Barcellos, C. S. (*with* Westphal, T., Jr.) Reissner/Mindlin's plate models and the boundary element method. (English summary) (*see* **93b:65002**)
Beatovic, D. (*with* Levin, P. L.; Gan, H.; Kokernak, J. M.; Hansen, A. J.) Numerical analysis of open boundary problems using finite element substructuring and Galerkin boundary elements. **93c:65139**
Bielak, Jacobo *see* **Zeng, Xiaogang; et al., 93k:73087**
Bottcher, C. *see* **Werby, Michael F.; et al., (93b:65002)**
Brebbia, C. A. (*with* Domínguez, José) ★ Boundary elements: an introductory course. **93d:73069**
— *see also* **ElHarrouni, K.; et al., (93b:65002)** *and* **Boundary element technology, 93b:65002**
Broadhead, M. K. *see* **Werby, Michael F.; et al., (93b:65002)**
Cabral, J. J. S. P. (*with* Wrobel, L. C.; Montenegro, A. A. A.) A case study of saltwater intrusion in a long and thin aquifer. (English summary) (*see* **93b:65002**)
Cao, Li Qun *see* **Zhu, Qi Ding, 93g:65105**
Cen, Zhang Zhi (*with* Maier, Giulio; Tagliaferri, R.) Stability and its criteria analysis by boundary element method using cohesive-crack model. (*see* **93b:65008**)
— *see also* **Du, Qing Hua; et al., (93b:65008)**
Chen, F. Determination of velocity distribution of an incompressible fluid in an elliptical pipe by boundary elements. (English summary) (*see* **93b:65002**)
Chen, Goong (*with* Zhou, Jian-Xin) Some boundary control problems and computation for the linear elastostatic Kirchhoff plate on an exterior domain. (*see* **93b:49001**)
Chen, Ji Yin *see* **Shen, Guang Xian; et al., (93b:65008)**
Chen, Su Huan *see* **Liu, Han Bing, (93b:65008)**
Chen, Yun Min *see* **Feng, Wei; et al., (93b:65008)**
Cheng, A. H.-D. (*with* Cui, L.) Green's function for axisymmetric poroelasticity and coupled thermoelasticity. (English summary) (*see* **93b:65002**)
— *see also* **Abousleiman, Y.; et al., (93b:65002)**
Chesla, S. *see* **Kassab, A. J., (93b:65002)**
Choi, C.-Y. *see* **Hsieh, Chung Kuo; et al., (93b:65002)**
Chudinovich, I. Yu. Boundary equations in problems of nonstationary diffraction of elastic waves by spatial cracks. (Russian) **93g:73044**
Cormack, Donald E. *see* **Rosen, Dan, 93h:65034**
Cui, L. *see* **Cheng, A. H.-D., (93b:65002)**
Das, Shuvra *see* **Mitra, Ambar K., (93b:65002)**
Ding, Hong Li (*with* Zhou, Xue Sheng; Tian, Feng; Wu, Ze Zhong) Application of linear element boundary element method in elastic axisymmetric contact problems. (*see* **93b:65008**)
Domínguez, José *see* **Brebbia, C. A., 93d:73069**
Du, Qing Hua (*with* Yao, Zhen Han; Cen, Zhang Zhi) Eigenproblems by boundary element method using component mode synthesis. (*see* **93b:65008**)
— *see also* **Huo, Tong Ru; et al., (93b:65008)** *and* **Theory and applications of boundary element methods, 93b:65008**
Duffield, R. C. *see* **Shih, H.-R.; et al., (93b:65002)**
ElHarrouni, K. (*with* Ouazar, D.; Wrobel, L. C.; Brebbia, C. A.) Dual reciprocity boundary element method for heterogeneous porous media. (English summary) (*see* **93b:65002**)
Feng, Wei (*with* Chen, Yun Min; Wu, Shi Ming) Bump response of an elastic half-space by time-domain BEM. (*see* **93b:65008**)
Fronk, T. H. (*with* Mahan, J. R.) Fully-coupled fluid-structure formulation of a baffled rectangular orthotropic plate using the boundary element and finite element methods. (English summary) (*see* **93b:65002**)
Fujikawa, T. A method of discretization in the boundary element method for analysis of a sound field having adjacent elements. (*see* **93b:65008**)
Gan, H. *see* **Beatovic, D.; et al., 93c:65139**
Gao, De Ping (*with* Wen, Wei Dong) A numerical integration approach for the integrals with singularity $1/r^2$ in 3-D elastoplastic BEM. (*see* **93b:65008**)
— *see also* **Wen, Wei Dong, (93b:65008)**
Geller, A. S. *see* **Mondy, L. A.; et al., (93b:65002)**
Gerstle, W. H. (*with* Prasad, N. N. V.; Xie, M.) Solution method for coupled elastostatic BEM and FEM domains. (English summary) (*see* **93b:65002**)
Gigante, A. *see* **Guiggiani, M., 93b:73037**
Gramann, P. J. (*with* Mätzig, J. C.; Osswald, T. A.) Boundary element simulation of the mixing process of polymer blends. (English summary) (*see* **93b:65002**)
Guermond, Jean-Luc Numerical quadratures for layer potentials over curved domains in $\mathbf{R}^3$. (English summary) **93g:65033**
Guiggiani, M. (*with* Gigante, A.) A general algorithm for multidimensional Cauchy principal value integrals in the boundary element method. **93b:73037**
Hamina, M. (*with* Ruotsalainen, Keijo; Saranen, Jukka) The numerical approximation

of the solution of a nonlinear boundary integral equation with the collocation method. **93a:65180**

Han, Qing Shu Boundary element method of 3-D low-Reynolds-number viscous fluid flow. (*see* **93b:65008**)

— *see also* **Yang, De Quan; et al.**, (**93b:65008**) *and* **Lin, Chang Sheng**, (**93b:65008**)

Hansen, A. J. *see* **Beatovic, D.; et al.**, **93c:65139**

Hirata, H. *see* **Matsumoto, T.; et al.**, (**93b:65008**)

Hsieh, Chung Kuo (*with* Choi, C.-Y.; Kassab, A. J.) Solution of Stefan problems by a boundary element method. (English summary) (*see* **93b:65002**)

Huang, Mao Guang (*with* Wang, Jian Guo; Lu, Pin) Boundary element methods for some moderately thick plate and shallow shell problems. (*see* **93b:65008**)

— *see also* **Qian, Jiang; et al.**, (**93b:65008**); **Wang, Jian Guo**, (**93b:65008**) *and* **Lu, Pin**, (**93b:65008**)

Huang, Yu Ying *see* **Liu, Zhi Hong**, (**93b:65008**)

Huo, Tong Ru (*with* Du, Qing Hua; Yao, Zhen Han) Shape optimal design by boundary element method and recursive quadratic programming. (*see* **93b:65008**)

(Ingber, Marc S.) *see* **Boundary element technology**, **93b:65002**

Jentsch, Lothar Zur klassischen Kontaktaufgabe der Elastostatik. (English and Russian summaries) [On the classical contact problem of elastostatics] **93f:73094**

Ji, Xing *see* **Zheng, Guo Ying**, (**93b:65008**)

Jia, Z. H. *see* **Wu, T. W.**, (**93b:65002**)

Jiang, Tong (*with* Wang, Wei[2]; Sun, Zu Zhi) The BEM for the multi-body contact problem with friction and its application to the calculation of the rolling wheel. (*see* **93b:65008**)

— *see also* **Pan, Gu Ning; et al.**, (**93b:65008**)

Jin, Feng *see* **Zhang, Chu Han; et al.**, (**93b:65008**)

Jin, Zai Lu *see* **Wu, Qiong**, (**93b:65008**)

Kalik, K. (*with* Wendland, Wolfgang L.) The approximation of closed manifolds by triangulated manifolds and the triangulation of closed manifolds. (German summary) **93c:41023**

Kallivokas, L. F. *see* **Zeng, Xiaogang; et al.**, **93k:73087**

Kamiya, Norio (*with* Andoh, E.) Standard eigenvalue analysis by boundary-element method. (English summary)

Kang, I. S. (*with* Leal, L. G.) Orthogonal grid generation in a 2D domain via the boundary integral technique. (English summary) **93f:76076**

Kassab, A. J. (*with* Chesla, S.) CVBEM solution of nonlinear heat conduction problems. (English summary) (*see* **93b:65002**)

— *see also* **Pollard, J. E.**, (**93b:65002**) *and* **Hsieh, Chung Kuo; et al.**, (**93b:65002**)

Kim, J. *see* **Park, J.-h.; et al.**, (**93b:65002**)

Kitahara, M. Boundary element methods for multi-defects characterizations. (*see* **93b:65008**)

Koh, H. M. *see* **Park, J.-h.; et al.**, (**93b:65002**)

Kokernak, J. M. *see* **Beatovic, D.; et al.**, **93c:65139**

Krishnasamy, G. (*with* Rizzo, F. J.; Rudolphi, T. J.) Continuity requirements for density functions in the boundary integral equation method. (English summary) **93k:73089**

Leal, L. G. *see* **Kang, I. S.**, **93f:76076**

Levin, P. L. *see* **Beatovic, D.; et al.**, **93c:65139**

Li, W. L. (*with* Wu, T. W.; Seybert, A. F.) Boundary element analysis of acoustic radiation and scattering in half space using a generalized Green's function. (English summary) (*see* **93b:65002**)

Li, Zeng Fu (*with* Zheng, Zhi Hui) Boundary element analysis for the theory of bending elastic plates with three generalized displacements. (*see* **93b:65008**)

Li, Zhong Kui Elimination of the singularity of the fundamental solution in infinite space of transversely isotropic material. (*see* **93b:65008**)

Lin, Chang Sheng (*with* Han, Qing Shu) Numerical simulations of separating low-Reynolds-number viscous fluid flow. (*see* **93b:65008**)

Lin, J. *see* **Shih, H.-R.; et al.**, (**93b:65002**)

Liu, Han Bing (*with* Chen, Su Huan) Shape design-sensitivity analysis for structural dynamic character using BEM. (*see* **93b:65008**)

Liu, Wei Qian *see* **Sun, Shen Chu**, (**93b:65008**)

Liu, Zhi Hong (*with* Huang, Yu Ying) An arbitrary Lagrangian-Eulerian boundary element method for large-amplitude sloshing problems. (*see* **93b:65008**)

Liu, Zu De *see* **Pan, Gu Ning; et al.**, (**93b:65008**)

Lobitz, D. W. *see* **Segalman, D. J.**, (**93b:65002**)

Lou, Zhi Wen (*with* Zhang, Ming) Elastoplastic boundary element analysis of two-dimensional bimaterial. (*see* **93b:65008**)

— *see also* **Zang, Yue Long**, (**93b:65008**)

Lu, Pin (*with* Huang, Mao Guang) Boundary element analysis of shallow shells involving shear deformation. (*see* **93b:65008**)

— *see also* **Huang, Mao Guang; et al.**, (**93b:65008**)

Lu, Wen Da *see* **Yang, Zheng Wen**, (**93b:65008**)

Lyness, J. N. On handling singularities in finite elements. (English summary) **93h:65038**

Mahan, J. R. *see* **Fronk, T. H.**, (**93b:65002**)

Maier, Giulio *see* **Cen, Zhang Zhi; et al.**, (**93b:65008**)

Manga, M. *see* **Tanzosh, J.; et al.**, (**93b:65002**)

Martinez, M. J. A boundary integral method for steady unsaturated flow in nonhomogeneous media. (English summary) (*see* **93b:65002**)

Matsumoto, T. (*with* Tanaka, Masataka; Hirata, H.) Boundary stress calculation using regularized boundary integral equation for displacement gradients. (*see* **93b:65008**)

Mattheij, R. M. M. *see* **van de Vorst, G. A. L.**, (**93b:65002**)

Mätzig, J. C. *see* **Gramann, P. J.; et al.**, (**93b:65002**)

McLean, William Variational properties of some simple boundary integral equations. **93a:45001**

Mitra, Ambar K. (*with* Das, Shuvra) Solution of inverse problems by using the boundary element method. (English summary) (*see* **93b:65002**)

Mondy, L. A. (*with* Geller, A. S.; Rader, D. J.) Application of boundary element techniques to the motion of aerosol particles. (English summary) (*see* **93b:65002**)

Montenegro, A. A. A. *see* **Cabral, J. J. S. P.; et al.**, (**93b:65002**)

Moyer, E. Thomas, Jr. (*with* Schroeder, Erwing A.) Combined finite element/boundary integral approach to the prediction of acoustic signatures and radar cross sections. (English summary) (*see* **93f:00014**)

Muci-Küchler, K. H. (*with* Rudolphi, T. J.) Application of tangent derivative boundary integral equations to the solution of elastostatic problems. (English summary) (*see* **93b:65002**)

Osswald, T. A. *see* **Gramann, P. J.; et al.**, (**93b:65002**)

Ouazar, D. *see* **ElHarrouni, K.; et al.**, (**93b:65002**)

Pan, Gu Ning (*with* Liu, Zu De; Jiang, Tong) Analysis of piles in layered soils by the coupling method of FEM-BEM. (*see* **93b:65008**)

Park, J.-h. (*with* Koh, H. M.; Kim, J.) Fluid-structure interaction analysis by a coupled boundary element-finite element method in time domain. (English summary) (*see* **93b:65002**)

Pekau, O. A. *see* **Zhang, Chu Han; et al.**, (**93b:65008**)

Phan-Thien, N. *see* **Tullock, D.**, (**93b:65002**)

Pollard, J. E. (*with* Kassab, A. J.) Automated solution of an inverse heat conduction problem for the nondestructive detection of subsurface cavities using boundary elements. (English summary) (*see* **93b:65002**)

de Power, B. F. *see* **Power, Henry**, (**93b:65002**)

Power, Henry (*with* de Power, B. F.) The completed second kind boundary integral equation method for the deformation of a gas bubble due to low Reynolds number flow. (English summary) (*see* **93b:65002**)

Prasad, N. N. V. *see* **Gerstle, W. H.; et al.**, (**93b:65002**)

Qian, Jiang (*with* Wang, Xiu Xi; Huang, Mao Guang) An exact approach to eigenfrequencies by BIE method. (*see* **93b:65008**)

— *see also* **Wang, Ming Yang; et al.**, (**93b:65008**)

Qiao, Run De *see* **Wang, You Cheng; et al.**, (**93b:65008**)

Rader, D. J. *see* **Mondy, L. A.; et al.**, (**93b:65002**)

Rank, E. Adaptivity and accuracy estimation for FEM and BIEM. (*see* **93m:65005**)

Rizzo, F. J. *see* **Krishnasamy, G.; et al.**, **93k:73089**

Roegiers, J. C. *see* **Abousleiman, Y.; et al.**, (**93b:65002**)

Rosen, Dan (*with* Cormack, Donald E.) Analysis and evaluation of singular integrals by the invariant imbedding approach. (English summary) **93h:65034**

Rudolphi, T. J. *see* **Krishnasamy, G.; et al.**, **93k:73089** *and* **Muci-Küchler, K. H.**, (**93b:65002**)

Ruotsalainen, Keijo *see* **Hamina, M.; et al.**, **93a:65180**

Saranen, Jukka *see* **Hamina, M.; et al.**, **93a:65180**

Schroeder, Erwing A. *see* **Moyer, E. Thomas, Jr.**, (**93f:00014**)

Schwab, Christoph (*with* Wendland, Wolfgang L.) Numerical integration of singular and hypersingular integrals in boundary element methods. (English summary) **93j:65037**

— (*with* Wendland, Wolfgang L.) On numerical cubatures of singular surface integrals in boundary element methods. **93h:65035**

Segalman, D. J. (*with* Lobitz, D. W.) SuperCHIEF: a modified CHIEF method. (English summary) (*see* **93b:65002**)

Seybert, A. F. *see* **Li, W. L.; et al.**, (**93b:65002**)

Shen, Guang Xian (*with* Chen, Ji Yin; Xiang, Hong) The boundary element method to contact problems in 3-D elasticity with friction. (*see* **93b:65008**)

Shih, H.-R. (*with* Duffield, R. C.; Lin, J.) Boundary-finite element model for eccentrically stiffened plates under transverse loading. (English summary) (*see* **93b:65002**)

Sorokin, S. V. The asymptotic analysis of a two-level system of boundary integral equations for structural-acoustic coupling problems. (English summary) (*see* **93b:65002**)

Stone, H. A. *see* **Tanzosh, J.; et al.**, (**93b:65002**)

Strayer, M. R. *see* **Werby, Michael F.; et al.**, (**93b:65002**)

Sugino, R. *see* **Tosaka, N.**, (**93b:65008**)

Sun, Bing Nan (*with* Tang, Jin Chun; Xiang, Yu Yin) A new off-boundary element method for plate bending. (*see* **93b:65008**)

Sun, Huan Chun (*with* Yao, Wei An; Zhao, Jin Cheng) A quasi-static virtual boundary element method for dynamic bending problems of thin plate. (*see* **93b:65008**)

Sun, Shen Chu (*with* Liu, Wei Qian) Numerical analysis for wave forces by boundary element method. (*see* **93b:65008**)

Sun, Shu Xun *see* **Wang, Qing; et al.**, (**93b:65008**)

Sun, Zu Zhi *see* **Jiang, Tong; et al.**, (**93b:65008**)

Tagliaferri, R. *see* **Cen, Zhang Zhi; et al.**, (**93b:65008**)

Tan, Jun Yu Boundary element analysis of general elastic plane problem. (English summary) (*see* **93d:65004**)

Tanaka, Masataka *see* **Matsumoto, T.; et al.**, (**93b:65008**) *and* **Theory and applications of boundary element methods**, **93b:65008**

Tang, Jin Chun *see* **Sun, Bing Nan; et al.**, (**93b:65008**)

Tanzosh, J. (*with* Manga, M.; Stone, H. A.) Boundary integral methods for viscous free-boundary problems: deformations of single and multiple fluid-fluid interfaces. (English summary) (*see* **93b:65002**)

Tian, Feng *see* **Ding, Hong Li; et al.**, (**93b:65008**)

Tian, Zong Ruo A solution for stress and displacement fields of orthotropic plates with crack by BEM. (*see* **93b:65008**)

Tosaka, N. (*with* Sugino, R.) Boundary element analysis of potential flow with nonlinear free surface. (*see* **93b:65008**)

Tullock, D. (*with* Phan-Thien, N.) A completed double layer boundary element method with domain decomposition. (English summary) (*see* **93b:65002**)

Vainikko, Eero (*with* Vainikko, Gennadi) Some numerical schemes for the identification of the filtration coefficient. (Russian summary) **93c:65132**

Vainikko, Gennadi *see* **Vainikko, Eero**, **93c:65132**

Vavasis, Stephen A. Preconditioning for boundary integral equations. **93b:65062**

van de Vorst, G. A. L. (*with* Mattheij, R. M. M.) A BDF-BEM scheme for modelling viscous sintering. (English summary) (*see* **93b:65002**)

Wang, Hong A boundary element method for plate-bending problems and its asymptotic error estimates. (English summary) (*see* **93b:65002**)

Wang, Jian Guo (*with* Huang, Mao Guang) A boundary integral equation formulation for Hoff's sandwich plates. (*see* **93b:65008**)

— *see also* **Huang, Mao Guang; et al.**, (**93b:65008**)

Wang, Jun Shu *see* **Yang, Gang; et al.**, (**93b:65008**)

Wang, Min Zhong *see* **Xu, Xin Sheng**, (**93b:65008**)

Wang, Ming Yang (*with* Weng, Zhi Yuan; Qian, Jiang) Dynamic structure-foundation interaction analysis for nuclear containment by FE-BE coupling method. (*see* **93b:65008**)

Wang, Qing (*with* Sun, Shu Xun; Zhang, Fang Chun) A new approach to the plate bending

analysis by BEM. (*see* **93b:65008**)
Wang, Wei² *see* **Jiang, Tong; et al., (93b:65008)**
Wang, Xiu Xi *see* **Qian, Jiang; et al., (93b:65008)**
Wang, You Cheng (*with* Qiao, Run De; Zhu, Hong Bin) Particular solutions method adjusted by singularity for calculating boundary stress. (*see* **93b:65008**)
Wen, Wei Dong (*with* Gao, De Ping) Stochastic boundary element method and the numerical analysis of reliability of structural strength. (*see* **93b:65008**)
— *see also* **Gao, De Ping, (93b:65008)**
Wendland, Wolfgang L. *see* **Kalik, K., 93c:41023; Schwab, Christoph, 93h:65035** *and* **93j:65037**
Weng, Zhi Yuan *see* **Wang, Ming Yang; et al., (93b:65008)**
Werby, Michael F. (*with* Broadhead, M. K.; Strayer, M. R.; Bottcher, C.) Solution of the Helmholtz-Poincaré wave equation using the coupled boundary integral equations and optimal surface eigenfunctions. (English summary) (*see* **93b:65002**)
Westphal, T., Jr. *see* **de Barcellos, C. S., (93b:65002)**
Wrobel, L. C. *see* **Cabral, J. J. S. P.; et al., (93b:65002)** *and* **ElHarrouni, K.; et al., (93b:65002)**
Wu, Bao Lin *see* **Yang, De Quan; et al., (93b:65008)**
Wu, James C. Boundary elements and viscous flows. (English summary) (*see* **93b:65002**)
Wu, Qiong (*with* Jin, Zai Lu) Numerical analysis on sloshing problem by boundary element method and perturbation method. (*see* **93b:65008**)
Wu, Shi Ming *see* **Feng, Wei; et al., (93b:65008)**
Wu, T. W. (*with* Jia, Z. H.) A choice of practical approaches to overcome the nonuniqueness problem of the BEM in acoustic radiation and scattering. (English summary) (*see* **93b:65002**)
— *see also* **Li, W. L.; et al., (93b:65002)**
Wu, Ze Zhong *see* **Ding, Hong Li; et al., (93b:65008)**
Xiang, Yu Yin *see* **Sun, Bing Nan; et al., (93b:65008)**
Xiao, Hong *see* **Shen, Guang Xian; et al., (93b:65008)**
Xie, M. *see* **Gerstle, W. H.; et al., (93b:65002)**
Xing, Peng Ling *see* **Yang, De Quan; et al., (93b:65008)**
Xu, Xin Sheng (*with* Wang, Min Zhong) The direct and indirect boundary element methods for solutions of Stokes flow. (*see* **93b:65008**)
Yang, Dan Ping A coupling method of difference with high order accuracy and boundary integral equation for evolutionary equation and its error estimates. (Chinese. English summary) **93a:65137**
Yang, De Quan (*with* Zhang, Gou You; Wu, Bao Lin; Xing, Peng Ling; Han, Qing Shu) Boundary element analysis of hydrodynamical characteristics of lubricant in special shaped bearings. (*see* **93b:65008**)
Yang, Gang (*with* Zhang, Ai Feng; Wang, Jun Shu) The composite boundary element method of the elastostatics. (*see* **93b:65008**)
Yang, Zheng Wen (*with* Lu, Wen Da) Analysis of dynamic interaction between soil and cooling tower by hybrid method. (*see* **93b:65008**)
Yao, Wei An *see* **Sun, Huan Chun; et al., (93b:65008)**
Yao, Zhen Han *see* **Du, Qing Hua; et al., (93b:65008)** *and* **Huo, Tong Ru; et al., (93b:65008)**
Ye, Tian Qi *see* **Zheng, Xiao Ping, (93b:65008)**
Zang, Yue Long (*with* Lou, Zhi Wen) Three-dimensional ship wave-making problem by two-dimensional boundary element method. (*see* **93b:65008**)
Zeng, Xiaogang (*with* Kallivokas, L. F.; Bielak, Jacobo) A symmetric variational finite element–boundary integral equation coupling method. (English summary) **93k:73087**
Zhang, Ai Feng *see* **Yang, Gang; et al., (93b:65008)**
Zhang, Chu Han (*with* Jin, Feng; Pekau, O. A.) An infinite boundary element for 2-D dynamic wave problems. (*see* **93b:65008**)
Zhang, Fang Chun *see* **Wang, Qing; et al., (93b:65008)**
Zhang, Gou You *see* **Yang, De Quan; et al., (93b:65008)**
Zhang, Ming *see* **Lou, Zhi Wen, (93b:65008)**
Zhao, Jin Cheng *see* **Sun, Huan Chun; et al., (93b:65008)**
Zheng, Guo Ying (*with* Ji, Xing) A new approach to BEM of elastic plate. (*see* **93b:65008**)
Zheng, Xiao Ping (*with* Ye, Tian Qi) *p*-version Trefftz boundary element method for plate bending problems. (*see* **93b:65008**)
Zheng, Zhi Hui *see* **Li, Zeng Fu, (93b:65008)**
Zhou, Jian-Xin *see* **Chen, Goong, (93b:49001)**
Zhou, Xue Sheng *see* **Ding, Hong Li; et al., (93b:65008)**
Zhu, Hong Bin *see* **Wang, You Cheng; et al., (93b:65008)**
Zhu, Qi Ding (*with* Cao, Li Qun) Multilevel correction for the finite element method and the boundary element method. (Chinese. English and Chinese summaries) **93g:65105**

Items listed otherwise than by author

Albuquerque, NM ★ Boundary element technology. VII. **93b:65002**
Beijing ★ Theory and applications of boundary element methods. **93b:65008**
Boundary element technology ★ Boundary element technology. VII. **93b:65002**
Conference:
Boundary Element Technology ★ Boundary element technology. VII. **93b:65002**
Symposium:
Boundary Element Methods ★ Theory and applications of boundary element methods. **93b:65008**
Theory and applications of boundary element methods ★ Theory and applications of boundary element methods. **93b:65008**

65N40 Method of lines

Burkhanov, Sh. A. *see* **Makarov, Vladimir Leonidovich; et al., 93b:65186**
Guminskii, V. V. *see* **Makarov, Vladimir Leonidovich; et al., 93b:65186**
Makarov, Vladimir Leonidovich (*with* Guminskii, V. V.; Burkhanov, Sh. A.) A scheme of the method of lines for the quasi-inversion problem. (Russian) **93b:65186**
Schwab, Christoph (*with* Xanthis, Leonidas S.) The method of arbitrary lines—an *h-p* error analysis for singular problems. (English and French summaries) **93h:65146**
Xanthis, Leonidas S. *see* **Schwab, Christoph, 93h:65146**

65N45 Method of contraction of the boundary

Meredith, D. (*with* Rasmussen, Henning) Boundary approximation methods for potential problems associated with moving boundary problems. **93f:65088**
Morton, K. W. (*with* Süli, Endre) Finite volume methods and their analysis. **93e:65145**
Qi, Ping *see* **Shang, Han Ji, 93c:65148**
Rasmussen, Henning *see* **Meredith, D., 93f:65088**
Shang, Han Ji (*with* Qi, Ping) Using the method of boundary condition dissection to solve steady-state heat conduction problems for a composite medium. (Chinese. English summary) **93c:65148**
Süli, Endre *see* **Morton, K. W., 93e:65145**

65N50 Mesh generation and refinement

Achdou, Yves (*with* Glowinski, Roland; Pironneau, Olivier) Tuning the mesh of a mixed method for the stream function. Vorticity formulation of the Navier-Stokes equations. (English summary) **93m:65165**
Alonso Martínez, J. *see* **Gavete, Luis; et al., (93j:00009)**
Bespalov, A. N. (*with* Kuznetsov, Yurii Alekseevich; Pironneau, Olivier; Vallet, Marie-Gabrielle) Fictitious domains with separable preconditioners versus unstructured adapted meshes. (English summary) **93h:65147**
Eiseman, Peter R. Control point grid generation.
Gavete, Luis (*with* Alonso Martínez, J.; Herranz Calzada, J.) A conformal mapping for the generation of singular elements. (Spanish) (*see* **93j:00009**)
Glowinski, Roland *see* **Achdou, Yves; et al., 93m:65165**
Herranz Calzada, J. *see* **Gavete, Luis; et al., (93j:00009)**
Herter, Rainer Ein Gittergenerator für spezielle Mehrgitterverfahren. [A grid generator for special multigrid methods] **93c:65149**
Isaev, S. A. The method of fictitious domains for a nonstationary model of the motion of a baroclinic ocean. (Russian) **93c:65150**
Knupp, Patrick M. A robust elliptic grid generator. **93j:65198**
Kuznetsov, Yurii Alekseevich *see* **Bespalov, A. N.; et al., 93h:65147**
Laevskii, Yu. M. Construction of a system of *m*-dimensional barycentric sets. (Russian) (*see* **93i:65007**)
Mastin, C. Wayne Linear variational methods and adaptive grids.
Nepomnyashchikh, S. V. Mesh theorems on traces, normalizations of function traces and their inversion. **93h:65148**
Pironneau, Olivier *see* **Bespalov, A. N.; et al., 93h:65147** *and* **Achdou, Yves; et al., 93m:65165**
Samareh-Abolhassani, Jamshid (*with* Smith, Robert E.) A practical approach to algebraic grid adaption.
Shcherbakov, Yu. N. (*with* Yakunin, F. N.) A method for constructing irregular triangular adaptive finite-element grids and its applications. (Russian. English and Russian summaries)
Shishkin, G. I. Grid approximations of singularly perturbed elliptic equations in domains with characteristic faces. **93a:65168**
Shugrin, S. M. Construction of curvilinear grids and their control. (Russian. Russian summary) **93c:65151**
Smith, Robert E. *see* **Samareh-Abolhassani, Jamshid**
Vallet, Marie-Gabrielle *see* **Bespalov, A. N.; et al., 93h:65147**
Wathen, A. J. Optimal moving grids for time-dependent partial differential equations.
Yakubenya, A. N. A method for constructing efficient algorithms for the numerical solution of Stefan problems on grids adapted to a free boundary. I. (Russian. English summary) **93a:65169**
Yakunin, F. N. *see* **Shcherbakov, Yu. N.**

Items with secondary classifications in 65N50

Axelsson, Owe On algebraic multilevel iteration methods for selfadjoint elliptic problems with anisotropy. **93d:65033**
Babuška, Ivo M. (*with* Guo, Ben Qi; Stephan, E. P.) The *h-p* version of the boundary element method with geometric mesh on polygonal domains. (English summary) (*see* **93d:65005**)
Bernard, Robert S. A MacCormack scheme for incompressible flow. **93d:76045**
Carey, Graham (*with* Dinh, Hung T.) A grid anomaly in quadrilateral elements. (English summary)
Dinh, Hung T. *see* **Carey, Graham**
Dinh, Q. V. (*with* Glowinski, Roland; He, Jiwen; Kwock, V.; Pan, T. W.; Périaux, Jacques) Lagrange multiplier approach to fictitious domain methods: application to fluid dynamics and electromagnetics. (English summary) **93h:65136**
Dow, John O. (*with* Stevenson, Ian) Adaptive refinement procedure for the finite difference method. (English summary)
Durán, Ricardo (*with* Rodríguez, Rodolfo) On the asymptotic exactness of Bank-Weiser's estimator. **93e:65135**
Ewing, Richard E. (*with* Lazarov, R. D.; Vassilevski, Panayot S.) Local refinement techniques for elliptic problems on cell-centered grids. III. Algebraic multilevel BEPS preconditioners. **93e:65126**
George, P. L. ★ Automatic mesh generation. **93f:65002**
Glowinski, Roland *see* **Dinh, Q. V.; et al., 93h:65136**
Gu, Cheng Lin (*with* Li, Lang Ru; Zhou, Ke Ding) A network analysis and the graph theory of three-dimensional difference schemes. (Chinese. English summary) **93c:65124**
Guo, Ben Qi *see* **Babuška, Ivo M.; et al., (93d:65005)**
He, Jiwen *see* **Dinh, Q. V.; et al., 93h:65136**
Jeng, Yih Nen (*with* Liou, Yuan Chang) A new adaptive grid generation by elliptic equations with orthogonality at all of the boundaries. **93c:76063**
Jensen, Soren S. Adaptive-dimensional reduction numerical solution of monotone quasilinear boundary value problems. (English summary) **93g:65146**
Kamenetskii, D. S. (*with* Tsynkov, S. V.) On the construction of images of simply connected domains realized by solutions of a system of Beltrami equations. (Russian. English summary) **93d:35036**
Kwock, V. *see* **Dinh, Q. V.; et al., 93h:65136**
Lazarov, R. D. *see* **Ewing, Richard E.; et al., 93e:65126**

Li, Lang Ru *see* **Gu, Cheng Lin; et al., 93c:65124**
Li, Ping Qian *see* **Wen, Guo Chun, (93b:00022)**
Liou, Yuan Chang *see* **Jeng, Yih Nen, 93c:76063**
Lü, Tao (*with* Neittaanmäki, Pekka; Tai, Xue Cheng) A parallel splitting-up method for partial differential equations and its applications to Navier-Stokes equations. (English and French summaries) **93i:65111**
Neittaanmäki, Pekka *see* **Lü, Tao; et al., 93i:65111**
Nicolaides, R. A. Direct discretization of planar div-curl problems. **93b:65176**
Pan, T. W. *see* **Dinh, Q. V.; et al., 93h:65136**
Périaux, Jacques *see* **Dinh, Q. V.; et al., 93h:65136**
Rodríguez, Rodolfo *see* **Durán, Ricardo, 93e:65135**
Shishkin, G. I. Methods of constructing grid approximations for singularly perturbed boundary-value problems. Condensing-grid methods. (English summary) **93m:65154**
Stephan, E. P. *see* **Babuška, Ivo M.; et al., (93d:65005)**
Stevenson, Ian *see* **Dow, John O.**
Süli, Endre The accuracy of cell vertex finite volume methods on quadrilateral meshes. **93a:65158**
Tai, Xue Cheng *see* **Lü, Tao; et al., 93i:65111**
Tsynkov, S. V. *see* **Kamenetskii, D. S., 93d:35036**
Vassilevski, Panayot S. *see* **Ewing, Richard E.; et al., 93e:65126**
Wang, Jin Xian[1] The parallel block preconditioned conjugate gradient algorithm. (English summary) **93h:65131**
Wen, Guo Chun (*with* Li, Ping Qian) Finite element approximations for some nonlinear quasiconformal mappings in multiply connected domains. (*see* **93b:00022**)
Wood, A. S. A note on the use of the isotherm migration method. **93b:65161**
Zhou, Ke Ding *see* **Gu, Cheng Lin; et al., 93c:65124**

65N55 Multigrid methods; domain decomposition

Allgower, Eugene L. (*with* Böhmer, Klaus; Mei, Zhen) On a problem decomposition for semilinear nearly symmetric elliptic problems. **93c:65152**
Angot, Philippe (*with* Caltagirone, Jean-Paul; Khadra, Khodor) Une méthode adaptative de raffinement local: la correction du flux à l'interface. (English and French summaries) [An adaptative method for local mesh refinement: the flux interface correction]
Bank, Randolph E. (*with* Benbourenane, Mohamed) The hierarchical basis multigrid method for convection-diffusion equations. **93d:65106**
Bel'skii, V. G. A multigrid method for solving variational inequalities. (Russian) **93b:65187**
Benamou, Jean-David Décomposition de domaine pour le réarrangement monotone d'applications vectorielles. (English and French summaries) [Domain decomposition for the monotonic rearrangement of vector mappings] **93f:65089**
Benbourenane, Mohamed *see* **Bank, Randolph E., 93d:65106**
Bogachev, K. Yu. Iterative methods of solving main boundary value problems for second-order quasilinear elliptic equations in complexly shaped domains. (English summary) **93j:65199**
Böhmer, Klaus *see* **Allgower, Eugene L.; et al., 93c:65152**
Brenner, Susanne C. A nonconforming mixed multigrid method for the pure displacement problem in planar linear elasticity. (English summary) **93m:65166**
Bruch, J. C., Jr. *see* **Wang, K.-P.**
Cai, Xiao-Chuan (*with* Gropp, William D.; Keyes, David E.) A comparison of some domain decomposition algorithms for nonsymmetric elliptic problems. (English summary) **93h:65149**
— An optimal two-level overlapping domain decomposition method for elliptic problems in two and three dimensions. (English summary) **93h:65150**
Caltagirone, Jean-Paul *see* **Angot, Philippe; et al.**
Chan, Tony F. C. (*with* Mathew, Tarek P.; Shao, Jian Ping) Fourier and probe variants of the vertex space domain decomposition algorithm. (English summary) **93h:65151**
— (*with* Mathew, Tarek P.) Some applications of the probing technique in domain decomposition. (English summary) (*see* **93d:65004**)
— (*with* Goovaerts, Danny) On the relationship between overlapping and nonoverlapping domain decomposition methods. **93a:65170**
Chen, Po-Shu *see* **Farhat, Charbel; et al.**
Chen, Yung Ming *see* **Zhu, Jian-Ping[2], 93b:65192**
Chu, De Lin *see* **Hu, Xian Cheng, 93d:65107**
Cowsar, Lawrence C. (*with* Weiser, Alan; Wheeler, Mary Fanett) Parallel multigrid and domain decomposition algorithms for elliptic equations. (English summary) (*see* **93g:65009**)
— (*with* Dean, E. J.; Glowinski, Roland; Le Tallec, Patrick; Li, Chin Hsien; Périaux, Jacques; Wheeler, Mary Fanett) Decomposition principles and their applications in scientific computing. (English summary) **93j:65200**
Dean, E. J. (*with* Dinh, Q. V.; Glowinski, Roland; He, Jiwen; Pan, T. W.; Périaux, Jacques) Least squares/domain imbedding methods for Neumann problems: applications to fluid dynamics. (English summary) **93h:65152**
— *see also* **Cowsar, Lawrence C.; et al., 93j:65200**
Dendy, J. E., Jr. (*with* Ida, M. P.; Rutledge, J. M.) A semicoarsening multigrid algorithm for SIMD machines. (English summary)
De Valerio, M. (*with* Schäfer, Michael) Domain decomposition methods for the numerical solution of elliptic partial differential equations on array processors. (English summary) (*see* **93f:00016**)
Dinh, Q. V. *see* **Dean, E. J.; et al., 93h:65152**
Dreyer, Thomas Nonlinear ILU-decomposition as smoother in multigrid methods. **93a:65171**
Dryja, Maksymilian (*with* Widlund, Olof B.) Multilevel additive methods for elliptic finite element problems. **93b:65188**
— (*with* Widlund, Olof B.) Additive Schwarz methods for elliptic finite element problems in three dimensions. (English summary) **93j:65201**
Elton, Bracy H. An asynchronous domain decomposition method for the two-dimensional Poisson equation. (English summary) (*see* **93k:65003**)
Ersland, Brit Gunn (*with* Teigland, Rune) Comparison of two cell-centered multigrid schemes for problems with discontinuous coefficients. (English summary)
Farhat, Charbel (*with* Chen, Po-Shu; Roux, François-Xavier) The dual Schur complement method with well-posed local Neumann problems: regularization with a perturbed Lagrangian formulation. (English summary)
Gaspar, F. *see* **Meddahi, S., 93j:65204**
Georgiev, Krassimir (*with* Margenov, Svetozar) On domain decomposition methods for problems with discontinuous coefficients. (English summary) (*see* **93e:00022**)
Glowinski, Roland *see* **Dean, E. J.; et al., 93h:65152** *and* **Cowsar, Lawrence C.; et al., 93j:65200**
Goovaerts, Danny *see* **Chan, Tony F. C., 93a:65170**
Gropp, William D. (*with* Keyes, David E.) Domain decomposition with local mesh refinement. **93b:65189**
— (*with* Keyes, David E.) Domain decomposition as a mechanism for using asymptotic methods. (English summary) (*see* **93m:65006**)
— *see also* **Cai, Xiao-Chuan; et al., 93h:65149**
Haase, Gundolf (*with* Langer, Ulrich[1]; Meyer, Arnd) The approximate Dirichlet domain decomposition method. I. An algebraic approach. (German summary) **93e:65146a**
— (*with* Langer, Ulrich[1]; Meyer, Arnd) The approximate Dirichlet domain decomposition method. II. Applications to 2nd-order elliptic BVPs. (German summary) **93e:65146b**
— (*with* Langer, Ulrich[1]; Meyer, Arnd) Domain decomposition preconditioners with inexact subdomain solvers. **93c:65153**
Hackbusch, Wolfgang A new multi-grid method. (*see* **93b:65007**)
— The frequency decomposition multi-grid method. II. Convergence analysis based on the additive Schwarz method. (English summary) **93j:65203**
Hanisch, M. R. Multigrid algorithms for the first biharmonic problem: robustness. (English summary) (*see* **93m:00047**)
He, Jiwen *see* **Dean, E. J.; et al., 93h:65152**
d'Hennezel, Frédéric Domain decomposition method with nonsymmetric interface operator. (English summary) **93h:65153**
Hu, Xian Cheng (*with* Chu, De Lin) A preconditioner for solving elliptic problems based on domain decomposition. (Chinese. English summary) **93d:65107**
Huang, Hong Ci *see* **Zhang, Sheng[2], 93j:65206**
Huang, Jian Guo *see* **Zhang, Sheng[2], (93d:65004)**
Huang, Zi Ping A multigrid algorithm for the Stokes equation using the MINI-element approximation. (Chinese. English and Chinese summaries) **93m:65167**
Ida, M. P. *see* **Dendy, J. E., Jr.; et al.**
Kang, Li Shan *see* **Rao, Chuan Xia, (93d:65004)**
Keyes, David E. *see* **Gropp, William D., 93b:65189; Cai, Xiao-Chuan; et al., 93h:65149** *and* **Gropp, William D., (93m:65006)**
Khadra, Khodor *see* **Angot, Philippe; et al.**
Khoromskii, B. N. (*with* Mazurkevich, G. E.) Preconditioners for one class of elliptic problems in not simply connected domains. (English summary) **93h:65154**
Kiss, Béla (*with* Molnárka, Győző) A preconditioned domain decomposition algorithm for the solution of the elliptic Neumann problem. **93a:65172**
— (*with* Molnárka, Győző) A preconditioned domain decomposition algorithm for the solution of the elliptic Neumann problem. (English summary) **93m:65168**
Kuznetsov, I. B. (*with* Kuznetsov, S. B.; Shkol'nik, K. M.) The domain decomposition method for the parallelization of a sequential upper relaxation algorithm. (Russian) (*see* **93i:65007**)
Kuznetsov, S. B. *see* **Kuznetsov, I. B.; et al., (93i:65007)**
Langer, Ulrich[1] *see* **Haase, Gundolf; et al., 93c:65153; 93e:65146a** *and* **93e:65146b**
Le Tallec, Patrick *see* **Cowsar, Lawrence C.; et al., 93j:65200**
Lett, G. Scott *see* **Mandel, Jan, 93c:65154**
Li, Chin Hsien *see* **Cowsar, Lawrence C.; et al., 93j:65200**
Li, Yao Xing Some remarks on the Braess method. (Chinese. English and Chinese summaries) **93g:65155**
Liu, Chao Qun (*with* Liu, Z.; McCormick, Stephen F.) An efficient multigrid scheme for elliptic equations with discontinuous coefficients. (English summary)
Liu, Tie Niu (*with* Xu, Dao Lin) Large range analysis for nonlinear dynamic systems—element mapping method. (Chinese. English and Chinese summaries) **93g:65156**
Liu, Z. *see* **Liu, Chao Qun; et al.**
Mandel, Jan (*with* Lett, G. Scott) Domain decomposition preconditioning for p-version finite elements with high aspect ratios. **93c:65154**
Mansfield, Lois Solution of the Stokes problem on distributed-memory multiprocessors. (English summary) (*see* **93g:65009**)
Margenov, Svetozar *see* **Georgiev, Krassimir, (93e:00022)**
Mathew, Tarek P. *see* **Chan, Tony F. C.; et al., 93h:65151** *and* **(93d:65004)**
Mazurkevich, G. E. *see* **Khoromskii, B. N., 93h:65154**
McCormick, Stephen F. Multilevel projection methods for partial differential equations. (English summary) (*see* **93m:65006**)
— *see also* **Liu, Chao Qun; et al.**
Meddahi, S. (*with* Gaspar, F.) A domain-decomposition method for a linear parabolic problem. (Spanish. English summary) **93j:65204**
Mei, Zhen *see* **Allgower, Eugene L.; et al., 93c:65152**
Meyer, Arnd *see* **Haase, Gundolf; et al., 93c:65153; 93e:65146a** *and* **93e:65146b**
Molnárka, Győző *see* **Kiss, Béla, 93a:65172** *and* **93m:65168**
Mu, Mo (*with* Rice, John R.) Preconditioner construction with rational approximation. (English summary) (*see* **93k:65003**)
Nepomnyashchikh, S. V. Decomposition and fictitious domains methods for elliptic boundary value problems. (English summary) **93i:65116**
Oliveira, Fernanda (*with* de Oliveira, Paula) Adaptive mesh refinements with iterated defect corrections in one-dimensional partial differential equations. (*see* **93b:00022**)
de Oliveira, Paula *see* **Oliveira, Fernanda, (93b:00022)**
Pan, T. W. *see* **Dean, E. J.; et al., 93h:65152**
Pasquarelli, Franco *see* **Quarteroni, Alfio; et al., 93h:65155**
Périaux, Jacques *see* **Dean, E. J.; et al., 93h:65152** *and* **Cowsar, Lawrence C.; et al., 93j:65200**
Quarteroni, Alfio (*with* Sacchi Landriani, Giovanni; Valli, Alberto) Coupling of viscous and inviscid Stokes equations via a domain decomposition method for finite elements. **93b:65190**
— (*with* Pasquarelli, Franco; Valli, Alberto) Heterogeneous domain decomposition: principles, algorithms, applications. (English summary) **93h:65155**

Rao, Chuan Xia (*with* Kang, Li Shan) Symmetric domain decomposition and symmetric space decomposition. (English summary) (*see* **93d:65004**)
Ribbens, Calvin J. On adaptive domain decomposition with moving subdomains. (English summary) (*see* **93g:65009**)
Rice, John R. *see* **Mu, Mo**, (**93k:65003**)
Rønquist, Einar M. A domain decomposition method for elliptic boundary value problems: application to unsteady incompressible fluid flow. (English summary) (*see* **93g:65009**)
Roux, François-Xavier Spectral analysis of the interface operators associated with the preconditioned saddle-point principle domain decomposition method. (English summary) (*see* **93g:65009**)
— *see also* **Farhat, Charbel; et al.**
Rubin, Stanley G. *see* **Srinivasan, Kumar**, (**93g:65009**)
Rüde, Ulrich Fully adaptive multigrid methods. (English summary) **93l:65117**
Rusten, Torgeir (*with* Winther, Ragnar) Mixed finite element methods and domain decomposition. (English summary) (*see* **93g:76002**)
— (*with* Winther, Ragnar) Substructure preconditioners for elliptic saddle point problems. **93d:65108**
Rutledge, J. M. *see* **Dendy, J. E., Jr.; et al.**
Sacchi Landriani, Giovanni *see* **Quarteroni, Alfio; et al., 93b:65190**
Sander, S. A. A multigrid decomposition algorithm. (Russian. Russian summary) **93j:65205**
Sbosny, Hannes (*with* Witsch, Kristian) Parallel multigrid using domain decomposition. **93a:65173**
Scarbnick, Carl D. *see* **Strikwerda, John C., 93h:65156**
Schäfer, Michael *see* **De Valerio, M., (93f:00016)**
Shao, Jian Ping *see* **Chan, Tony F. C.; et al., 93h:65151**
Shkol'nik, K. M. *see* **Kuznetsov, I. B.; et al., (93i:65007)**
Smith, Barry F. An iterative substructuring algorithm for problems in three dimensions. (English summary) (*see* **93g:65009**)
Sonke, L. Analysis of domain decomposition for nonsymmetric problems: application to the Navier-Stokes equations. **93a:65174**
Srinivasan, Kumar (*with* Rubin, Stanley G.) Adaptive multigrid domain decomposition solutions of the reduced Navier-Stokes equations. (English summary) (*see* **93g:65009**)
Strikwerda, John C. (*with* Scarbnick, Carl D.) A domain decomposition method for incompressible viscous flow. (English summary) **93h:65156**
Teigland, Rune *see* **Ersland, Brit Gunn**
Vabishchevich, P. N. Numerical solution of a boundary value problem for a parabolic equation with changing time direction. (Russian) **93b:65191**
Valli, Alberto *see* **Quarteroni, Alfio; et al., 93b:65190** *and* **93h:65155**
Voller, Rudolf L. Monotone enclosure for nonlinear PDEs using multigrid techniques. **93a:65175**
Wang, Jun Ping Convergence analysis of multigrid algorithms for nonselfadjoint and indefinite elliptic problems. (English summary) **93k:65100**
Wang, K.-P. (*with* Bruch, J. C., Jr.) Studies of an interface relaxation domain decomposition technique using finite elements on a parallel computer. (English summary)
Weiser, Alan *see* **Cowsar, Lawrence C.; et al., (93g:65009)**
Wheeler, Mary Fanett *see* **Cowsar, Lawrence C.; et al., 93j:65200** *and* **(93g:65009)**
Widlund, Olof B. Some Schwarz methods for symmetric and nonsymmetric elliptic problems. (English summary) **93j:65202**
— *see also* **Dryja, Maksymilian, 93b:65188** *and* **93j:65201**
Winther, Ragnar *see* **Rusten, Torgeir, 93d:65108** *and* **(93g:76002)**
Witsch, Kristian *see* **Sbosny, Hannes, 93a:65173**
Xu, Dao Lin *see* **Liu, Tie Niu, 93g:65156**
Zeng, Jin Ping The convergence of multigrid methods for nonsymmetric elliptic variational inequalities. (English summary)
Zhang, Sheng² (*with* Huang, Jian Guo) Parallel iterative domain decomposition method for elliptic equation—subdomain and dual subdomain decomposition. (English summary) (*see* **93d:65004**)
— Preconditioning domain decomposition for three-dimensional problems. (Chinese. English and Chinese summaries) **93i:65118**
— (*with* Huang, Hong Ci) Parallel iterative domain decomposition method for elliptic equation: many subdomains case. (English summary) **93j:65206**
Zhang, Xuejun Domain decomposition algorithms for the biharmonic Dirichlet problem. (English summary) **93m:65169**
Zhu, Jian-Ping² (*with* Chen, Yung Ming) Multilevel grid method for history matching multidimensional multiphase reservoir models. **93b:65192**
Zuo, Kang Parallel explicit block iterative method for solving elliptic PDEs. (English summary) (*see* **93d:65004**)

Items with secondary classifications in 65N55

Arina, Renzo (*with* Canuto, Claudio) A self-adaptive domain decomposition for the viscous/inviscid coupling. I. Burgers equation. (English summary) **93m:76061**
Atamian, C. (*with* Dinh, G. V.; Glowinski, Roland; He, Jiwen; Périaux, Jacques) On some imbedding methods applied to fluid dynamics and electromagnetics. **93c:76066**
Avaldi, L. (*with* Quarteroni, Alfio; Saleri, F.) Finite element simulation of electron optical systems. (English summary) **93g:65140**
Bakhvalov, N. S. (*with* Knyazev, Andrei Vladimirovich) Methods for the effective computation of averaged characteristics of composites of periodic structure consisting of essentially different materials. (Russian) **93c:35006**
Bjørstad, P. E. (*with* Skogen, M. D.) Domain decomposition algorithms of Schwarz type, designed for massively parallel computers. (English summary) (*see* **93g:65009**)
Black, Kelly Decoupled smooth interfaces for spectral-element approximations of parabolic or elliptic type. (English summary)
Bourquin, Frédéric (*with* d'Hennezel, Frédéric) Application of domain decomposition techniques to modal synthesis for eigenvalue problems. (English summary) (*see* **93g:65009**)
— Component mode synthesis and eigenvalues of second order operators: discretization and algorithm. (French summary) **93a:65140**
Brenner, Susanne C. A multigrid algorithm for the lowest-order Raviart-Thomas mixed triangular finite element method. **93j:65175**
Canuto, Claudio *see* **Arina, Renzo, 93m:76061**
Carey, Graham *see* **Stagg, A. K., (93g:65178)**
Carlenzoli, Claudio (*with* Gervasio, P.) Effective numerical algorithms for the solution of algebraic systems arising in spectral methods. **93b:65220**
(Chan, Tony F. C.) *see* **Symposium: Domain Decomposition Methods for Partial Differential Equations, 93g:65009**
Cooper, K. D. Domain-imbedding alternating direction method for linear elliptic equations on irregular regions using collocation. (English summary) **93j:65192**
Deville, M. O. Chebyshev collocation solutions of flow problems. (English summary) (*see* **93d:65005**)
Dinh, G. V. *see* **Atamian, C.; et al., 93c:76066**
Dostál, Zdeněk Domain decomposition and PDE with periodic boundary conditions. (English summary) (*see* **93g:65009**)
Gervasio, P. *see* **Carlenzoli, Claudio, 93b:65220**
Glowinski, Roland *see* **Atamian, C.; et al., 93c:76066**
Gropp, William D. Parallel computing and domain decomposition. (English summary) **93h:65180**
He, Jiwen *see* **Atamian, C.; et al., 93c:76066**
Heinrichs, Wilhelm Algebraic spectral multigrid methods. (English summary) (*see* **93d:65005**)
d'Hennezel, Frédéric *see* **Bourquin, Frédéric, (93g:65009)**
Herter, Rainer Ein Gittergenerator für spezielle Mehrgitterverfahren. [A grid generator for special multigrid methods] **93c:65149**
Hirsh, Richard S. *see* **Ku, Hwar-Ching; et al., (93d:65005)**
Huang, Zi Ping A multigrid algorithm for the plane elasticity by the mixed finite element approximation. (English summary) (*see* **93d:65004**)
Jaffard, Stéphane (*with* Laurençot, Ph.) Orthonormal wavelets, analysis of operators, and applications to numerical analysis. **93h:42024**
Kan, Pui Tak (*with* Miranker, Willard L.) Entropy in multilevel algorithms. (English summary) **93g:65102**
(Keyes, David E.) *see* **Symposium: Domain Decomposition Methods for Partial Differential Equations, 93g:65009**
Knyazev, Andrei Vladimirovich *see* **Bakhvalov, N. S., 93c:35006**
Kočvara, Michal An algebraic study of a local multigrid method for variational problems. (English summary) **93f:65083**
Ku, Hwar-Ching (*with* Taylor, Thomas D.; Hirsh, Richard S.) Pseudospectral matrix element methods for flow in complex geometry. (English summary) (*see* **93d:65005**)
Laurençot, Ph. *see* **Jaffard, Stéphane, 93h:42024**
Li, Bing Kun *see* **Sun, Jia Chang, (93d:65004)**
Luo, Jenn-Ching A domain decomposition method for eigenvalue problems. (English summary) **93h:65133**
McCormick, Stephen F. ★ Multilevel projection methods for partial differential equations. **93b:65137**
(Meurant, Gérard A.) *see* **Symposium: Domain Decomposition Methods for Partial Differential Equations, 93g:65009**
Miranker, Willard L. *see* **Kan, Pui Tak, 93g:65102**
Muñoz, Rafael Theoretical analysis of some spectral multigrid methods. (English summary) (*see* **93d:65005**)
Périaux, Jacques *see* **Atamian, C.; et al., 93c:76066**
von Petersdorff, T. (*with* Stephan, E. P.) Multigrid solvers and preconditioners for first kind integral equations. (English summary) **93d:65114**
Quarteroni, Alfio *see* **Avaldi, L.; et al., 93g:65140**
Saleri, F. *see* **Avaldi, L.; et al., 93g:65140**
Sbosny, Hannes Parallel multigrid methods on composite meshes. (English summary) (*see* **93g:65009**)
(Scroggs, Jeffrey S.) *see* **Symposium: Domain Decomposition Methods for Partial Differential Equations, 93g:65009**
Segeth, Karel MLAT solutions to the nonlinear Poisson equation in semiconductor device models. (*see* **93b:65007**)
Skogen, M. D. *see* **Bjørstad, P. E., (93g:65009)**
Stagg, A. K. (*with* Carey, Graham) Asynchronous nonlinear iteration and domain decomposition. (English summary) (*see* **93g:65178**)
Stephan, E. P. *see* **von Petersdorff, T., 93d:65114**
Sun, Jia Chang (*with* Li, Bing Kun) Parallel multilevel *B*-spline preconditioners for the biharmonic problem. (English summary) (*see* **93d:65004**)
Taylor, Thomas D. *see* **Ku, Hwar-Ching; et al., (93d:65005)**
Tyshchenko, A. V. *see* **Vaskevich, V. L., 93k:35026**
Vaskevich, V. L. (*with* Tyshchenko, A. V.) On approximate solution of the Dirichlet problem in microchannel-type domains. (English summary) **93k:35026**
(Voigt, Robert G.) *see* **Symposium: Domain Decomposition Methods for Partial Differential Equations, 93g:65009**
Wang, Ming¹ The multigrid method for the finite elements solving the biharmonic equation. (*see* **93b:65006**)
Wesseling, Pieter ★ An introduction to multigrid methods. **93g:65006**
Xu, Chang Fa (*with* Ye, Cui Hua) An explicit corrective iterative method at successive levels for solving nonlinear elliptic boundary value problems. (Chinese. English summary) **93c:65134**
Xu, Jinchao Iterative methods by space decomposition and subspace correction. (English summary) **93k:65029**
Ye, Cui Hua *see* **Xu, Chang Fa, 93c:65134**
Zeng, Jin Ping Convergence of the multigrid method for solving asymmetric elliptic variational inequalities. (Chinese. English and Chinese summaries) **93j:65098**

Items listed otherwise than by author

Norfolk, VA ★ Fifth International Symposium on Domain Decomposition Methods for Partial Differential Equations. **93g:65009**
Symposium:
Domain Decomposition Methods for Partial Differential Equations ★ Fifth International Symposium on Domain Decomposition Methods for Partial Differential Equations. **93g:65009**

65N99 None of the above, but in this section

Alekseenko, V. N. A summation scheme for solving the Laplace equation. (Russian. Russian summary) (*see* **93i:35002**)

Aleksidze, M. A. ★ Фундаментальные функции в приближенных решениях граничных задач. (Russian) [Fundamental functions in approximate solutions of boundary value problems] **93c:65155**

Algazin, S. D. Discretization of the Laplace operator and the fast solution of the Poisson equation in a torus. (Russian. Russian summary) **93i:65119**

Aliabadi, M. Hosseini (*with* Ortiz, E. L.) The algebraic kernel method for the numerical solution of partial differential equations. **93b:65193**

Anisyutin, B. M. The effect of rounding off on the numerical solution of the Poisson equation. (Russian. Russian summary)

Averick, Brett M. (*with* Ortega, James M.) Fast solution of nonlinear Poisson-type equations. (English summary) **93i:65120**

Babu, V. (*with* Korpela, Seppo A.) On the direct solution of Poisson's equation on a nonuniform grid. (English summary)

Bakhvalov, N. S. (*with* Knyazev, Andrei Vladimirovich) An effective iterative method for the solution of Lamé equations for almost incompressible media and of Stokes equations. (Russian) **93b:65194**

Bogachev, K. Yu. Iterative methods for solving quasilinear elliptic problems in domains of complex shape. (Russian) **93g:65157**

Chen, Wen Hui An algorithm for solving numerical approximations of partial differential equations. (Chinese. English and Chinese summaries)

Darling, James P. (*with* Mayergoyz, Isaak D.) Data parallel algorithms for the numerical modeling of semiconductor devices. (English summary) (*see* **93g:65178**)

Dawson, Clint N. (*with* Wheeler, Mary Fanett) Time-splitting methods for advection-diffusion-reaction equations arising in contaminant transport. (*see* **93b:00026**)

D'yakonov, E. G. Optimal algorithms for elliptic problems. (Russian) (*see* **93f:34004**)

El-Gendi, S. (*with* Nasr, H.; El-Hawary, H. M.) Numerical solution of Poisson's equation by expansion in Chebyshev polynomials. (English summary)

El-Hawary, H. M. *see* **El-Gendi, S.; et al.**

Greenbaum, Anne (*with* Greengard, Leslie; Mayo, Anita A.) On the numerical solution of the biharmonic equation in the plane. (English summary) **93i:65121**

— (*with* Greengard, Leslie; McFadden, G. B.) Laplace's equation and the Dirichlet-Neumann map in multiply connected domains. (English summary) **93m:65170**

Greengard, Leslie *see* **Greenbaum, Anne; et al., 93i:65121** *and* **93m:65170**

Han, Bo *see* **Kuang, Zheng; et al., (93c:93005)**

Javadian, A. D. Variational difference method for elliptic problems with highly quasisingular quadratic forms. **93d:65109**

Khapko, R. S. Numerical solutions of the first boundary value problem for the telegraph equation on nonclosed contours. (Russian) **93b:65195**

Knyazev, Andrei Vladimirovich *see* **Bakhvalov, N. S., 93b:65194**

Korpela, Seppo A. *see* **Babu, V.**

Kosolapov, V. N. An almost linear method for solving the one-dimensional two-phase Stefan problem. (Russian. Russian summary)

Kuang, Zheng (*with* Han, Bo; Liu, Jia Qi) A modified algorithm for the PST method. (English summary) (*see* **93c:93005**)

Liu, Jia Qi *see* **Kuang, Zheng; et al., (93c:93005)**

Mayergoyz, Isaak D. *see* **Darling, James P., (93g:65178)**

Mayo, Anita A. *see* **Greenbaum, Anne; et al., 93i:65121**

McFadden, G. B. *see* **Greenbaum, Anne; et al., 93m:65170**

Militzer, Julio *see* **Sun, Yu Ping, 93h:65157**

Misici, L. (*with* Zirilli, Francesco) Three-dimensional time harmonic acoustic and electromagnetic inverse scattering in the resonance region. (English summary) **93m:65171**

Mohamed, Ali Shauket Numerical solution by the spline method for an elastic problem. **93a:65176**

Muchinskii, A. N. (*with* Tsurko, V. A.) On the boundary conditions of locally one-dimensional schemes for multidimensional parabolic equations. (Russian) **93b:65196**

Nakao, Mitsuhiro T. *see* **Watanabe, Yoshitaka, 93j:65207**

Nasr, H. *see* **El-Gendi, S.; et al.**

Neethling, J. D. The computation of Green's function for the Laplace operator in a rectangle. (English summary)

Ortega, James M. *see* **Averick, Brett M., 93i:65120**

Ortiz, E. L. *see* **Aliabadi, M. Hosseini, 93b:65193**

Razgulin, A. V. (*with* Tikhomirov, O. Yu.) Investigation of an initial-boundary value problem for the Maxwell-Bloch equation. (Russian) **93f:65090**

Renaut, Rosemary A. Absorbing boundary conditions, difference operators, and stability. (English summary) **93g:65158**

Safronov, S. I. *see* **Zakharov, E. V.; et al., 93c:65156**

Shinkarenko, G. A. *see* **Zubov, V. M.**

Strain, John Fast potential theory. II. Layer potentials and discrete sums. **93b:65197**

Sun, Yu Ping (*with* Militzer, Julio) The piecewise parabolic finite analytic method. I. Theory. (English summary) **93h:65157**

Sylvester, John A convergent layer stripping algorithm for the radially symmetric impedance tomography problem. (English summary) **93m:65172**

Tangmanee, S. A unified numerical approximation for linear differential equations. (*see* **93b:00022**)

Tarasov, R. P. *see* **Zakharov, E. V.; et al., 93c:65156**

Tikhomirov, O. Yu. *see* **Razgulin, A. V., 93f:65090**

Tsurkis, I. Ya. Solution of a nonregular system of linear algebraic equations. (Russian. Russian summary) **93i:65122**

Tsurko, V. A. *see* **Muchinskii, A. N., 93b:65196**

Volkov, E. A. A fast block method for constructing the Green function for the Laplace operator on polygons. (Russian. Russian summary) **93i:65123**

Watanabe, Yoshitaka (*with* Nakao, Mitsuhiro T.) Numerical verifications of solutions for nonlinear elliptic equations. (English summary) **93j:65207**

Wheeler, Mary Fanett *see* **Dawson, Clint N., (93b:00026)**

Zakharov, E. V. (*with* Safronov, S. I.; Tarasov, R. P.) Abelian groups of finite order in the numerical analysis of linear boundary value problems in potential theory. (Russian) **93c:65156**

Zhuk, M. V. Application of the Kantorovich method for the Dirichlet problem in the case of a domain of special form. (Ukrainian)

— An approximate solution of the Dirichlet problem by the Kantorovich method in the case of a domain of special form. (Ukrainian)

Zirilli, Francesco *see* **Misici, L., 93m:65171**

Zubov, V. M. (*with* Shinkarenko, G. A.) Application of the penalty method for the solution of stationary problems of hydrodynamics with mixed boundary conditions. (Ukrainian)

Items with secondary classifications in 65N99

Adams, John C. MUDPACK-2: Multigrid software for approximating elliptic partial differential equations on uniform grids with any resolution. (English summary)

Barbu, Viorel (*with* Korman, Philip) Approximating optimal controls for elliptic obstacle problem by monotone iteration schemes. **93e:65090**

Caldwell, James Variational-iterative schemes as applied to the nonlinear Burgers' equation. (*see* **93b:00022**)

Casasús Estelles, Trinidad (*with* Olmos, F.; Checa, E.; Chinesta, F.; Torres, R.) Qualitative and numerical study of the convection-diffusion equation and approximation of the solution on a polynomial-exponential basis. (Spanish. Spanish summary) (*see* **93j:00009**)

Checa, E. *see* **Casasús Estelles, Trinidad; et al., (93j:00009)**

Chen, Guan Rong Optimal interpolation of scattered data on a circular domain with boundary conditions. (English summary) **93i:65015**

Chinesta, F. *see* **Casasús Estelles, Trinidad; et al., (93j:00009)**

Čiegis, Raimondas (*with* Čiupaila, Regimantas J.) The conditional minimization method for the numerical solution of a nonstationary problem with free boundaries. (Russian. English and Lithuanian summaries) **93b:65089**

Čiupaila, Regimantas J. *see* **Čiegis, Raimondas, 93b:65089**

Civan, Faruk Finite analytic method for numerical solution of mathematical models. (English summary) (*see* **93f:00014**)

Degond, Pierre (*with* Raviart, P.-A.) On a penalization of the Child-Langmuir emission condition for the one-dimensional Vlasov-Poisson equation. (English summary) **93i:35029**

Delbourgo, Roger Accurate C^2 rational interpolants in tension. (English summary) **93m:65010**

Dobner, Hans-Jürgen (*with* Kaucher, Edgar) Singular operator equations with functional constraints. (English summary) **93j:65069**

Durany, J. (*with* García Lomba, Guillermo; Vázquez, C.) Numerical solution of free-boundary problems in piezoviscous lubrication. (Spanish. English summary) (*see* **93j:00009**)

Feng, Min Fu *see* **Zhou, Tian Xiao**

García Lomba, Guillermo *see* **Durany, J.; et al., (93j:00009)**

von Golitschek, M. (*with* Light, W. A.) Approximation by solutions of the planar wave equation. **93g:35083**

Jin, Shi (*with* Levermore, C. David) The discrete-ordinate method in diffusive regimes. **93c:35004**

Jung, H. K. *see* **Lu, I-Tai; et al., 93k:78013**

Kalis, Harijs Edmunds Numerical solution of the heat equation in a multilayer medium by the optimal relaxation method. (Russian. English, Italian and Russian summaries) **93e:80001**

Kaucher, Edgar *see* **Dobner, Hans-Jürgen, 93j:65069**

Korman, Philip *see* **Barbu, Viorel, 93e:65090**

Levermore, C. David *see* **Jin, Shi, 93c:35004**

Light, W. A. *see* **von Golitschek, M., 93g:35083**

Lu, I-Tai (*with* Jung, H. K.; Tsai, C. M.) Hybrid combinations of global and local operators for solving Helmholtz and Poisson equations. (English summary) **93k:78013**

Mackenzie, J. A. (*with* Morton, K. W.) Finite volume solutions of convection-diffusion test problems. **93d:76065**

Magolu, Monga-Made Analytical bounds for block approximate factorization methods. (English summary) **93i:65048**

Mattheij, R. M. M. *see* **van de Vorst, G. A. L., 93k:76034**

Morton, K. W. *see* **Mackenzie, J. A., 93d:76065**

Murphy, K. A. Estimation of unknown variable parameters in moving boundary problems. **93d:35178**

Olmos, F. *see* **Casasús Estelles, Trinidad; et al., (93j:00009)**

Pozhidaev, A. V. Asymptotic normality of the error of averaging elliptic boundary value problems. (Russian) **93e:35026**

Raviart, P.-A. *see* **Degond, Pierre, 93i:35029**

Sabel'fel'd, K. K. The walk-on-boundary algorithms for solving boundary value problems in multiply-connected domains. **93a:65009**

Scherzer, Otmar The use of Tikhonov regularization in the identification of electrical conductivities from overdetermined boundary data. (English summary) **93h:35214**

Sod, Gary A. A numerical model of a thermal boundary layer. **93d:76052**

Thompson, C. P. A parallel adaptive multigrid algorithm for the incompressible Navier-Stokes equations. (English summary) (*see* **93m:65006**)

Torres, R. *see* **Casasús Estelles, Trinidad; et al., (93j:00009)**

Tsai, C. M. *see* **Lu, I-Tai; et al., 93k:78013**

Vázquez, C. *see* **Durany, J.; et al., (93j:00009)**

van de Vorst, G. A. L. (*with* Mattheij, R. M. M.) Numerical analysis of a 2-D viscous sintering problem with nonsmooth boundaries. (English and German summaries) **93k:76034**

Zhou, Tian Xiao (*with* Feng, Min Fu) A penalty stabilized finite element method for the Navier-Stokes equations. (Chinese. English summary)

65P05 Partial differential equations, miscellaneous problems

Abrashin, V. N. (*with* Dzyuba, I. A.; Kamenskaya, N. E.) Efficient methods for solving multidimensional thermoelasticity problems. (Russian. Russian summary) **93j:65208**

Anturkar, N. R. (*with* Papanastasiou, T. C.; Wilkes, J. O.) Compound matrix method for eigenvalue problems in multiple connected domains. (English summary)
Araki, Keisuke *see* **Kawahara, Takuji; et al.**
Bernard, Pierre Quelques méthodes particulaires stochastiques. [Some stochastic particle methods] (*see* **93k:65002**)
Bristeau, Marie Odile (*with* Erhel, Jocelyne; Glowinski, Roland; Périaux, Jacques) A time dependent approach to the solution of the Helmholtz equation at high wave numbers. (English summary) (*see* **93k:65003**)
Bukavina, R. Z. *see* **Grits'ko, Ê. G.; et al.**
Carneiro de Araújo, J. H. *see* **Ruas, V.; et al., 93j:65211**
Choo, Joshua Y. (*with* Schultz, David H.) Stable high order methods for differential equations with small coefficients for the second order terms. (English summary) **93j:65209**
Deineka, V. S. *see* **Sergienko, I. V.; et al., 93g:65159**
Dorofeev, I. F. (*with* Laneev, E. B.; Mustakhishev, K. K.) An inverse problem of diffraction. (Russian) (*see* **93m:35001**)
Doss, S. *see* **Hewett, D. W.; et al.**
Dzyuba, I. A. *see* **Abrashin, V. N.; et al., 93j:65208**
Erhel, Jocelyne *see* **Bristeau, Marie Odile; et al., (93k:65003)**
Fomin, V. E. (*with* Men'shikov, G. G.) Numerical realization of the Fourier method in one of the initial-boundary value problems for the diffusion equation. (Russian. English and Russian summaries)
Gabet, Lionel The decomposition method and linear partial differential equations. (English summary) **93m:65173**
Geörg, Stefan Typical numerical problems arising with the treatment of ill conditioned partial differential equations by the example of the MHD-equations. (English summary) (*see* **93i:65006**)
Giovangigli, V. *see* **Smooke, M. D., 93c:65158**
Glowinski, Roland *see* **Bristeau, Marie Odile; et al., (93k:65003)**
Grits'ko, Ê. G. (*with* Gudz', R. V.; Bukavina, R. Z.) Numerical-analytical determination of a stationary solution for the transport equation in a locally nonhomogeneous domain. (Ukrainian. Russian summary)
Gudz', R. V. *see* **Grits'ko, Ê. G.; et al.**
Han, Bo (*with* Liu, Jia Qi) A widely convergent method (CHM) for the inverse problem of operator identification. (English summary) (*see* **93j:00008**)
Hewett, D. W. (*with* Larson, D. J.; Doss, S.) Solution of simultaneous partial differential equations using dynamic ADI: solution of the streamlined Darwin field equations.
Hinestroza G., Doris (*with* Murio, Diego A.) Identification of transmissivity coefficients by mollification techniques. I. One-dimensional elliptic and parabolic problems. (English summary) **93m:65174**
Huang, Mao Guang *see* **Jiao, Zhao Ping; et al.**
Il'ina, S. M. On a solution of a nonlinear boundary value problem. (Russian. Russian summary) (*see* **93g:00024**)
Jiao, Zhao Ping (*with* Wu, Chang Chun; Huang, Mao Guang) A study on completeness of displacement trial functions of incompatible elements with internal parameters. (Chinese. English and Chinese summaries)
Kamenskaya, N. E. *see* **Abrashin, V. N.; et al., 93j:65208**
Karimov, G. K. (*with* Makhmudov, A. A.; Safarov, M. Zh.) Decay of rectangular pulses in the Boussinesq approximation. (Russian)
Kawahara, Takuji (*with* Araki, Keisuke; Toh, Sadayoshi) Interactions of two-dimensionally localized pulses of the regularized-long-wave equation. (English summary)
Kojima, Fumio A computational method for estimating cracks inside materials using thermal tomography: boundary integral equation approach. (English summary) (*see* **93g:93005**)
Krumpholz, Michael *see* **Russer, Peter**
Kvachko, V. Yu. Construction of grids for solving three-dimensional parabolic Navier-Stokes equations. (Russian) (*see* **93f:00017**)
Kwong, Man Kam Sweeping algorithms for inverting the discrete Ginzburg-Landau operator. (English summary) **93h:65158**
Laneev, E. B. *see* **Dorofeev, I. F.; et al., (93m:35001)**
Larson, D. J. *see* **Hewett, D. W.; et al.**
Leibovich, Sidney *see* **Mahalov, Alex**
Li, Yuan Xiang Lattice gas simulation for the Bénard pattern. (English summary) (*see* **93d:65004**)
Lindsay, K. A. (*with* Rooney, C. E.) A note on compound matrices.
Liu, Jia Qi *see* **Han, Bo, (93j:00008)**
Liu, Jun A multiresolution method for distributed parameter estimation. (English summary) **93i:65124**
Mahalov, Alex (*with* Leibovich, Sidney) On the calculation of coupling coefficients in amplitude equations.
Makhmudov, A. A. *see* **Karimov, G. K.; et al.**
Martin, Yves-Loïc (*with* Rogier, François; Schneider, Jacques) Une méthode déterministe pour la résolution de l'équation de Boltzmann inhomogène. (English summary) [A deterministic method for solving the nonhomogeneous Boltzmann equation] **93b:65198**
Mashkov, A. V. On the use of the Newton-Kantorovich method for solving problems in the nonlinear theory of the elasticity of elastomers. (Russian) (*see* **93k:73001**)
Men'shikov, G. G. *see* **Fomin, V. E.**
Mocanu, Constantin I. Dirichlet and Neumann boundary value problems for $\operatorname{div}(\eta \operatorname{grad})$ and $\operatorname{curl}(\nu \operatorname{curl})$-div equations. I. **93c:65157**
Monks, T. J. Multigrid methods for tomographic reconstruction. (*see* **93i:00020**)
Mukhina, M. I. Numerical solution of the problem of the stability of a current layer in the two-dimensional MHD approximation. (Russian) (*see* **93f:34004**)
Murio, Diego A. *see* **Hinestroza G., Doris, 93m:65174**
Mustakhishev, K. K. *see* **Dorofeev, I. F.; et al., (93m:35001)**
Osborne, A. R. (*with* Segre, E.) The numerical inverse scattering transform for the periodic Korteweg-de Vries equation. (English summary) **93h:65159**
Pantelis, G. Grid adaptive strategies for the convection-dispersion equation. (*see* **93g:76002**)
Papanastasiou, T. C. *see* **Anturkar, N. R.; et al.**
Périaux, Jacques *see* **Bristeau, Marie Odile; et al., (93k:65003)**
Petruccione, Francesco *see* **Seesselberg, Markus, 93k:65101**
Pogu, Marc (*with* Souza de Cursi, José Eduardo) On a numerical solution of a class of partial differential equations of mixed type, not adding artificial terms. (English summary) **93j:65210**
Polyakov, N. V. A numerical procedure for solving the embedding problem. (Russian. Russian summary) (*see* **93g:00024**)
Prikarpat·skii, A. K. *see* **Pritula, N. N.**
Pritula, N. N. (*with* Prikarpat·skii, A. K.) An algebraic scheme of discrete approximations of linear and nonlinear dynamical systems in mathematical physics. (Ukrainian. Russian summary)
Puzhaĭ, A. M. *see* **Sergienko, I. V.; et al., 93g:65159**
Rogier, François *see* **Martin, Yves-Loïc; et al., 93b:65198**
Rooney, C. E. *see* **Lindsay, K. A.**
Ruas, V. (*with* Carneiro de Araújo, J. H.; Silva Ramos, M. A. M.) Approximation of the three-field Stokes system via optimized quadrilateral finite elements. (English and French summaries) **93j:65211**
Rukavishnikov, V. A. *see* **Vlasenko, V. D., (93d:00029)**
Russell, Robert D. (*with* Sloan, David M.; Trummer, Manfred R.) Some numerical aspects of computing inertial manifolds. (English summary) **93h:65160**
Russer, Peter (*with* Krumpholz, Michael) The Hilbert space formulation of the TLM method. (English summary)
Safarov, M. Zh. *see* **Karimov, G. K.; et al.**
Sanz-Serna, J. M. *see* **Tourigny, Y., 93g:65161**
Schäfer, Michael Numerical solution of the time-dependent axisymmetric Boussinesq equations on processor arrays. (English summary)
Schneider, Jacques *see* **Martin, Yves-Loïc; et al., 93b:65198**
Schultz, David H. *see* **Choo, Joshua Y., 93j:65209**
Sebak, A. A. *see* **Simons, N. R. S.**
Seesselberg, Markus (*with* Petruccione, Francesco) Numerical integration of stochastic partial differential equations. (English summary) **93k:65101**
Segre, E. *see* **Osborne, A. R., 93h:65159**
Senitskiĭ, Yu. È. On a connection between the Bubnov-Galerkin method and the finite integral transformation method. (Russian) (*see* **93f:35006**)
Sergienko, I. V. (*with* Deineka, V. S.; Skopetskiĭ, V. V.; Puzhaĭ, A. M.) Modeling and investigation of physical processes in structures with thin inhomogeneous inclusions. (Russian. English and Russian summaries) **93g:65159**
Silva Ramos, M. A. M. *see* **Ruas, V.; et al., 93j:65211**
Simons, N. R. S. (*with* Sebak, A. A.) Spatially weighted numerical models for the two-dimensional wave equation: FD algorithm and synthesis of the equivalent TLM model. (English summary)
Skopetskiĭ, V. V. *see* **Sergienko, I. V.; et al., 93g:65159**
Sloan, David M. *see* **Russell, Robert D.; et al., 93h:65160**
Smooke, M. D. (*with* Giovangigli, V.) Numerical modeling of axisymmetric laminar diffusion flames. **93c:65158**
Souza de Cursi, José Eduardo *see* **Pogu, Marc, 93j:65210**
Stovas, A. M. Born approximation in problems of migration and inversion for the acoustic equation. (Russian. Russian summary) **93g:65160**
Surnev, V. B. The Newton-Kantorovich algorithm in problems of diffraction tomography. (Russian)
Suter, David Coupled derivative/mixed finite element approach to visual reconstruction. (*see* **93i:00020**)
Taha, Thiab R. A parallel algorithm for an investigation of self-focusing singularity of higher KdV equations. (English summary) **93h:65161**
(Talay, Denis) *see* **Bernard, Pierre, (93k:65002)**
Toh, Sadayoshi *see* **Kawahara, Takuji; et al.**
Tourigny, Y. (*with* Sanz-Serna, J. M.) The numerical study of blowup with application to a nonlinear Schrödinger equation. (English summary) **93g:65161**
Trummer, Manfred R. *see* **Russell, Robert D.; et al., 93h:65160**
(Tubaro, L.) *see* **Bernard, Pierre, (93k:65002)**
Tyson, John J. *see* **Weimar, Jörg R.; et al., 93b:65199** *and* **93b:65200**
Vabishchevich, P. N. Continuation with respect to the space variable in a boundary inverse problem of heat conduction. (Russian. Russian summary) **93f:65091**
Vichnevetsky, Robert On wave propagation in almost periodic structures. (English summary) **93i:65125**
Vlasenko, V. D. (*with* Rukavishnikov, V. A.) A numerical method for solving a problem on transient processes in polarized piezotransformers in a two-dimensional approximation in the radiation regime. (Russian. Russian summary) (*see* **93d:00029**)
Watson, Layne T. *see* **Weimar, Jörg R.; et al., 93b:65199** *and* **93b:65200**
Weimar, Jörg R. (*with* Tyson, John J.; Watson, Layne T.) Diffusion and wave propagation in cellular automaton models of excitable media. **93b:65199**
— (*with* Tyson, John J.; Watson, Layne T.) Third generation cellular automaton for modeling excitable media. **93b:65200**
Wendroff, Burton An analysis of front tracking for chromatography. (English summary) **93m:65175**
Wilkes, J. O. *see* **Anturkar, N. R.; et al.**
Wu, Chang Chun *see* **Jiao, Zhao Ping; et al.**

Items with secondary classifications in 65P05

Afanas'ev, V. A. (*with* Kravchenko, V. F.; Rvachëv, V. A.; Rvachëv, V. L.) Optimal finite windows for the reconstruction of images. (Russian) **93b:78016**
Agoshkov, V. I. (*with* Ipatova, V. M.) On the solvability of basic and conjugate equations in nonlinear problems. (Russian) **93g:47081**
— *see also* **Marchuk, G. I.; et al., 93g:47080**
Aldama, A. A. (*with* Paniconi, C.) An analysis of the convergence of Picard iterations for implicit approximations of Richard's equation. (English summary) (*see* **93g:76002**)
Alfimov, G. L. (*with* Kulagin, N. E.) On the existence of radially asymmetric solutions of quasilinear equations of elliptic type. (Russian. English summary) **93g:35038**
Anfinogenov, A. Yu. (*with* Lifanov, I. I.) On numerical solution of integral equations of planar and spatial diffraction problems. (English summary) **93i:78001**
Antimirov, M. Ya. (*with* Kolyshkin, A. A.; Vaillancourt, Rémi) Solution of direct

asymmetric problems in eddy current testing by a perturbation method. (English and French summaries) **93k:78015**

Aslanidi, K. G. (*with* Modenov, V. P.) The projection sewing method in a problem on the joining of waveguides. (Russian) **93g:78025**

Bai, Dong Hua (*with* Tao, Fu Zhou; Li, Xiao Ping[2]; et al.) Mathematical inversion for two-sided logging. (Chinese. English and Chinese summaries) **93k:86013**

Ban, Octavian Une solution numérique des équations de Navier-Stokes stationnaires. [A numerical solution of the stationary Navier-Stokes equations] **93j:76043**

Barclay, D. W. *see* **Moodie, T. Bryant; et al., 93e:35074**

Basile, A. G. (*with* Gray, Christopher George) A relaxation algorithm for classical paths as a function of end points: application to the semiclassical propagator for far-from-caustic and near-caustic conditions. **93c:65030**

Bellettini, Giovanni (*with* Paolini, M.; Verdi, Claudio) Convergence of discrete approximations to sets of prescribed mean curvature. (*see* **93k:00037**)

Budnik, A. M. (*with* Polevikov, V. K.) Modeling of a free surface of annular magnetofluid seals by means of the boundary element method. (Russian. Russian summary) **93i:76057**

Burtseva, M. N. A weighted algorithm for solving a system of nonlinear Boltzmann equations for a many-valley semiconductor. (Russian. English and Russian summaries) **93h:82081**

Chan, Kwong-Yu *see* **Choi, Yung Sze, 93f:80025**

Charalambopoulos, Antonios (*with* Dassios, George) Inverse scattering via low-frequency moments. (English summary) **93j:35051**

Chauvin, Brigitte (*with* Rouault, Alain) Les méthodes particulaires de Sherman et Peskin et de McKean. [The Sherman-Peskin and McKean particle methods] (*see* **93k:65002**)

Chernyĭ, N. I. *see* **Lyashko, I. I., 93h:76072**

Choi, Yung Sze (*with* Chan, Kwong-Yu) Fractional step algorithm for a model problem in electrochemistry. (English summary) **93f:80025**

Čiegis, Raimondas (*with* Norvaišas, Saulius) Mathematical modeling of metal heating by a laser. The dynamic problem. (Russian. English and Lithuanian summaries) **93b:80005**

— (*with* Čiegis, Rem.) Mathematical modeling of metal heating by a laser. The three-dimensional problem. (Russian. English and Lithuanian summaries) **93b:80006**

Čiegis, Rem. *see* **Čiegis, Raimondas, 93b:80006**

Colton, David (*with* Monk, Peter) The numerical solution of an inverse scattering problem for acoustic waves. (English summary) **93j:76053**

Dassios, George *see* **Charalambopoulos, Antonios, 93j:35051**

Defranceschi, Mireille *see* **Fischer, Patrick; et al., 93j:81114**

Delhalle, Joseph *see* **Fischer, Patrick; et al., 93j:81114**

DeSanto, J. A. k-space properties of classical single- and double-layer potentials and their derivatives. (English summary) **93k:35059**

Devulder, Christophe (*with* Marion, Martine) A class of numerical algorithms for large time integration: the nonlinear Galerkin methods. **93d:65079**

Drake, John B. *see* **Williamson, David L.; et al., 93d:86006**

Du, Qiang (*with* Gunzburger, Max D.; Peterson, Janet S.) Analysis and approximation of the Ginzburg-Landau model of superconductivity. **93g:82109**

Durany, J. (*with* García Lomba, Guillermo; Vázquez, C.) Numerical solution of free-boundary problems in piezoviscous lubrication. (Spanish. English summary) (*see* **93j:00009**)

Epperlein, Joachim (*with* Hanke, Marko; Tröltzsch, Fredi) On a system of partial differential equations occurring in double-layer-systems in photochemistry. **93a:35081**

Fazio, Riccardo The iterative transformation method: free or moving boundary value problems. (English summary) (*see* **93j:00007**)

Fischer, Patrick (*with* Defranceschi, Mireille; Delhalle, Joseph) Molecular Hartree-Fock equations for iteration-variation calculations in momentum space. (English summary) **93j:81114**

Forest, Etienne Sixth-order Lie group integrators. **93b:70003**

Fryazinov, I. V. *see* **Weinelt, Wilfried; et al., 93k:76031**

Funaro, Daniele Approximation by the Legendre collocation method of a model problem in electrophysiology. (English summary) **93h:92014**

Gabella, W. E. (*with* Ruth, R. D.; Warnock, R. L.) Iterative determination of invariant tori for a time-periodic Hamiltonian with two degrees of freedom. (English summary) **93g:70004**

García Lomba, Guillermo *see* **Durany, J.; et al., (93j:00009)**

Goncharov, A. L. *see* **Weinelt, Wilfried; et al., 93k:76031**

Gorshkov, K. A. (*with* Lomov, A. S.; Rabinovich, M. I.) Chaotic scattering of two-dimensional solitons. (English summary) **93j:35147**

Gray, Christopher George *see* **Basile, A. G., 93c:65030**

Gresho, P. M. Some interesting issues in incompressible fluid dynamics, both in the continuum and in numerical simulation. **93e:76056**

Grobgeld, Dov (*with* Pollak, Eli; Zakrzewski, Jakub) A numerical method for locating stable periodic orbits in chaotic systems. **93c:58135**

Gropengiesser, F. *see* **Neunzert, H.; et al., 93b:82066**

Gryn′, V. I. (*with* Nitishinskaya, L. V.) Inverse three-dimensional problems for the joint determination of the absorption coefficient and the source function for the transport equation. (Russian) **93b:35133**

Gunzburger, Max D. *see* **Du, Qiang; et al., 93g:82109**

Gupta, Sumnesh Computing aspects of molecular dynamics simulation.

(Gustafson, Karl E.) *see* **Vortex methods and vortex motion, 93f:76078**

Hack, James J. *see* **Williamson, David L.; et al., 93d:86006**

Hald, Ole H. Convergence of vortex methods. (*see* **93f:76078**)

Hanke, Marko *see* **Epperlein, Joachim; et al., 93a:35081**

Hartwig, Karl-Heinz *see* **Weinelt, Wilfried; et al., 93k:76031**

He, Sailing (*with* Weston, Vaughan H.) Inverse problem for the dissipative wave equation in a stratified half-space and linearization of the imbedding equations. **93c:35161**

He, Yuanping *see* **Moodie, T. Bryant; et al., 93e:35074**

Hu, C.-Y. *see* **Kvitsinskiĭ, A. A., 93c:81259**

Ipatova, V. M. *see* **Agoshkov, V. I., 93g:47081**

Isakov, Victor Stability estimates for obstacles in inverse scattering. (English summary)

Jaffard, Stéphane Wavelets and analysis of partial differential equations. (English summary) (*see* **93e:00029**)

Jakob, Rüdiger *see* **Williamson, David L.; et al., 93d:86006**

Jódar, Lucas Exact, approximate solutions and error bounds for coupled implicit systems of partial differential equations. (English summary) **93i:35006**

Kalashnikov, V. V. (*with* Kostornoĭ, S. D.) A numerical method for solving a problem on the flow of an ideal fluid around arbitrarily distributed bodies. (Russian) **93d:76049**

Kalinichenko, M. I. Difference schemes for a problem of laser thermochemistry in gases. (Russian. Russian summary) **93m:80014**

Keener, James P. Uses and abuses of numerical methods in cardiology. (*see* **93b:65004**)

Khrebtukov, D. B. The exact numerical solution of a Schrödinger equation with two-Coulomb centres plus oscillator potential. **93a:81033**

Kirsch, Andreas The domain derivative and two applications in inverse scattering theory. (English summary) **93m:35182**

Kolyshkin, A. A. *see* **Antimirov, M. Ya.; et al., 93k:78015**

Korzeniowski, Andrzej Quantum mechanical simulation of the hydrogen molecule. **93a:81034**

Kostornoĭ, S. D. *see* **Kalashnikov, V. V., 93d:76049**

Krasny, Robert Computing vortex sheet motion. **93c:76012**

Kravchenko, V. F. *see* **Afanas′ev, V. A.; et al., 93b:78016**

Kriegsmann, Gregory A. Asymptotic/numerical hybrid methods: an example from acoustic scattering theory. (English summary) (*see* **93j:00009**)

Kulagin, N. E. *see* **Alfimov, G. L., 93g:35038**

Kupfer, F.-S. (*with* Sachs, Ekkehard) Numerical solution of a nonlinear parabolic control problem by a reduced SQP method. (English summary) **93h:49052**

Kvitsinskiĭ, A. A. (*with* Hu, C.-Y.) Solution of three-dimensional Faddeev equations for three-body Coulomb bound states. **93c:81259**

Laborde, Patrick Numerical solution of free boundary problems in solids mechanics. (English summary) (*see* **93m:00044**)

Lacroix, Jean Algorithmes pour la résolution de l'équation de conservation. [Algorithms for the solution of the conservation equation] (*see* **93k:65002**)

Lau, Yun-Tung Large-period turbulent solutions of the Kuramoto-Sivashinsky equation. (English summary) **93h:35166**

Lee, Ding *see* **Saint Mary, Donald F.; et al., (93j:76001)**

Li, Xiao Ping[2] *see* **Bai, Dong Hua; et al., 93k:86013**

Lifanov, I. I. *see* **Anfinogenov, A. Yu., 93i:78001**

Loktionova, N. Yu. (*with* Ryazanov, M. A.) A difference scheme on arbitrary moving grids for equations of magnetohydrodynamics with an azimuthal field. (Russian. Russian summary) (*see* **93f:00006**)

Lomov, A. S. *see* **Gorshkov, K. A.; et al., 93j:35147**

Look, D. C., Jr. Eigenvalue-dependent series.

Lubich, Ch. Extrapolation integrators for constrained multibody systems. **93d:70004**

Lyashko, I. I. (*with* Chernyĭ, N. I.) A numerical method for solving problems of nonstationary filtration. (Russian. English and Russian summaries) **93h:76072**

Marchuk, G. I. (*with* Agoshkov, V. I.; Shutyaev, V. P.) ★ Сопряженные уравнения и алгоритмы возмущений в нелинейных задачах математической физики. (Russian) [Conjugate equations and perturbation algorithms in nonlinear problems of mathematical physics] **93g:47080**

Marion, Martine *see* **Devulder, Christophe, 93d:65079**

Markov, S. I. (*with* Musher, S. L.; Stoyanov, P. S.; Turitsyn, S. K.) Numerical modeling of nonlinear toroidal vortices. (*see* **93b:00012**)

McLaughlin, David W. (*with* Schober, Constance M.) Chaotic and homoclinic behavior for numerical discretizations of the nonlinear Schrödinger equation. (English summary) **93j:58092**

Men′shov, I. S. Increasing the accuracy of the Godunov scheme for computing steady supersonic gas flows on the basis of the solution of the generalized Riemann problem. (Russian) **93b:76062**

Metz, J. A. J. *see* **de Roos, André Marc, 93i:92015**

Milner, Fabio A. Numerical method for a model of inhomogeneous muscle fibers. (English summary) **93k:92005**

Misici, L. (*with* Zirilli, Francesco) Three-dimensional time harmonic acoustic and electromagnetic inverse scattering in the resonance region. (English summary) **93m:65171**

Modenov, V. P. *see* **Aslanidi, K. G., 93g:78025**

Monk, Peter *see* **Colton, David, 93j:76053**

Moodie, T. Bryant (*with* He, Yuanping; Barclay, D. W.) Wavefront expansions and nonlinear hyperbolic waves. **93e:35074**

Mu, Mo (*with* Rice, John R.) An organization of sparse Gauss elimination for solving partial differential equations on distributed memory machines. (English summary)

Müller, Wolfdietrich Numerical simulation of turbulent flow and matter transfer in a 3D water circulation model. **93b:76063**

Murch, R. D. An extended Born approximation. (English summary)

Musher, S. L. *see* **Markov, S. I.; et al., (93b:00012)**

Neunzert, H. (*with* Gropengiesser, F.; Struckmeier, J.) Computational methods for the Boltzmann equation. **93b:82066**

Nitishinskaya, L. V. *see* **Gryn′, V. I., 93b:35133**

Norvaišas, Saulius *see* **Čiegis, Raimondas, 93b:80005**

Odeh, Farouk *see* **Reichelt, M.; et al., (93k:65003)**

Osborne, A. R. (*with* Segre, E.) The construction of exact wave train solutions of the periodic Korteweg-de Vries equation. (*see* **93b:00012**)

Paniconi, C. *see* **Aldama, A. A., (93g:76002)**

Paolini, M. *see* **Bellettini, Giovanni; et al., (93k:00037)**

Perchik, E. L. Nonunique representations of solutions for reducing boundary value problems in the mechanics of an inhomogeneous medium to integral equations of the second kind with smooth kernels. (Russian. English and Russian summaries) **93j:73074**

Peterson, Janet S. *see* **Du, Qiang; et al., 93g:82109**

Polevikov, V. K. *see* **Budnik, A. M., 93i:76057**

Pollak, Eli *see* **Grobgeld, Dov; et al., 93c:58135**

Przekwas, A. J. *see* **Yang, H. Q., 93e:76055**

Raadhakrishnan, Poovendran *see* **Yagle, Andrew E., 93e:65164**

Rabinovich, M. I. *see* **Gorshkov, K. A.; et al., 93j:35147**

Reeve, D. E. (*with* Spivack, Mark) Numerical solution of the second moment equation for waves in an inhomogeneous waveguide. **93b:78008**

Reichelt, M. (*with* Odeh, Farouk; White, J.) A-stability of multirate integration methods,

with application to parallel semiconductor device simulation. (English summary) (*see* **93k:65003**)

Resasco, Diana C. *see* **Saint Mary, Donald F.; et al.,** (**93j:76001**)

Rice, John R. *see* **Mu, Mo**

de Roos, André Marc (*with* Metz, J. A. J.) Towards a numerical analysis of the escalator boxcar train. **93i:92015**

Rouault, Alain *see* **Chauvin, Brigitte,** (**93k:65002**)

Ruth, R. D. *see* **Gabella, W. E.; et al., 93g:70004**

Rvachev, M. A. Construction of statically possible stress fields by means of the *R*-function method. (Russian. Russian summary) (*see* **93g:00023**)

Rvachëv, V. A. *see* **Afanas'ev, V. A.; et al., 93b:78016**

Rvachëv, V. L. *see* **Afanas'ev, V. A.; et al., 93b:78016**

Ryazanov, M. A. *see* **Loktionova, N. Yu.,** (**93f:00006**)

Sachs, Ekkehard *see* **Kupfer, F.-S., 93h:49052**

Saint Mary, Donald F. (*with* Lee, Ding; Resasco, Diana C.) A hybrid marching technique for the solution of an elliptic model in underwater acoustics. (English summary) (*see* **93j:76001**)

Schober, Constance M. *see* **McLaughlin, David W., 93j:58092**

Segre, E. *see* **Osborne, A. R.,** (**93b:00012**)

Sethian, James A. A brief overview of vortex methods. (*see* **93f:76078**)

— *see also* **Vortex methods and vortex motion, 93f:76078**

Shagalov, A. G. Singular solutions of the elliptic sine-Gordon equation: models of defects. **93c:35142**

Sheina, E. A. Numerical investigation of the stability of drift waves. (Russian) **93e:86001**

Shutyaev, V. P. *see* **Marchuk, G. I.; et al., 93g:47080**

Spivack, Mark *see* **Reeve, D. E., 93b:78008**

Stoyanov, P. S. *see* **Markov, S. I.; et al.,** (**93b:00012**)

Struckmeier, J. *see* **Neunzert, H.; et al., 93b:82066**

Sultangazin, U. M. *see* **Zakarin, È. A.,** (**93b:65007**)

Swarztrauber, Paul N. *see* **Williamson, David L.; et al., 93d:86006**

Talay, Denis Approximation et simulation de solutions d'EDS. [Approximation and simulation of solutions of SDE] (*see* **93k:65002**)

Tao, Fu Zhou *see* **Bai, Dong Hua; et al., 93k:86013**

Thacker, William Carlisle Oceanographic inverse problems. (English summary) **93i:86005**

Trif, Damian Alternative method in a diffusion flame problem. (*see* **93i:00014**)

Tröltzsch, Fredi *see* **Epperlein, Joachim; et al., 93a:35081**

Turitsyn, S. K. *see* **Markov, S. I.; et al.,** (**93b:00012**)

Vaillancourt, Rémi *see* **Antimirov, M. Ya.; et al., 93k:78015**

Vaskevich, V. L. Mathematical foundations of a method for the numerical analysis of the electronic band structure of a crystal. (Russian. Russian summary) **93d:35134**

Vázquez, C. *see* **Durany, J.; et al.,** (**93j:00009**)

Verdi, Claudio *see* **Bellettini, Giovanni; et al.,** (**93k:00037**)

Vragov, V. N. On the numerical realization of a class of equations of nonclassical type in n-dimensional space. (Russian) (*see* **93b:35002**)

Wang, Wen Qia *see* **Yuan, Yi Rang; et al., 93h:65132**

Warnock, R. L. *see* **Gabella, W. E.; et al., 93g:70004**

Weinelt, Wilfried (*with* Goncharov, A. L.; Fryazinov, I. V.; Hartwig, Karl-Heinz) Numerical methods for solving the problem of injection of plastic into thin forms. (Russian. Russian summary) **93k:76031**

Weston, Vaughan H. *see* **He, Sailing, 93c:35161**

White, J. *see* **Reichelt, M.; et al.,** (**93k:65003**)

Williamson, David L. (*with* Drake, John B.; Hack, James J.; Jakob, Rüdiger; Swarztrauber, Paul N.) A standard test set for numerical approximations to the shallow water equations in spherical geometry. (English summary) **93d:86006**

Yagle, Andrew E. (*with* Raadhakrishnan, Poovendran) Numerical performance of layer stripping algorithms for two-dimensional inverse scattering problems. (English summary) **93e:65164**

Yang, Dan Ping *see* **Yuan, Yi Rang; et al., 93h:65132**

Yang, H. Q. (*with* Przekwas, A. J.) A comparative study of advanced shock-capturing schemes applied to Burgers' equation. (English summary) **93e:76055**

Yuan, Yi Rang (*with* Wang, Wen Qia; Yang, Dan Ping) Difference methods for a system of partial differential equations arising in the numerical simulation of petroleum origin and accumulation in basin evolution and a numerical analysis. (Chinese. English and Chinese summaries) **93h:65132**

Yukalov, V. I. Stability conditions for method of self-similar approximations. (English summary) **93i:65056**

Zakarin, È. A. (*with* Sultangazin, U. M.) Mathematical modelling of urban air pollution. (*see* **93b:65007**)

Zakrzewski, Jakub *see* **Grobgeld, Dov; et al., 93c:58135**

Zemitis, A. A numerical solution of the inverse Signorini problem. (Russian. English, Russian and Latvian summaries) **93g:73117**

Zhong, Wan Xie (*with* Zhong, Xiang Xiang) Method of separation of variables and Hamiltonian system. (English summary) **93k:73090**

Zhong, Xiang Xiang *see* **Zhong, Wan Xie, 93k:73090**

Zirilli, Francesco *see* **Misici, L., 93m:65171**

Zuev, A. I. An implicit method for solving equations of radiative gas dynamics. (Russian) **93h:76063**

Items listed otherwise than by author

Vortex methods and vortex motion ★ Vortex methods and vortex motion. **93f:76078**

65Q05 Difference and functional equations, recurrence relations

Agarwal, Ravi Prakash Computational methods for discrete boundary value problems. II. **93d:65110**

— *see also* **Pang, P. Y. H., 93j:65214**

Buhmann, Martin D. (*with* Iserles, Arieh) Numerical analysis of functional equations with a variable delay. **93g:65162**

Iserles, Arieh *see* **Buhmann, Martin D., 93g:65162**

Khusainov, D. Ya. (*with* Stadnik, O. I.) Application of gradient search algorithms for studying the stability of nonlinear difference systems. (Russian) **93b:65201**

Lorenz, Jens *see* **Morlet, Anne C., 93j:65212**

Morlet, Anne C. (*with* Lorenz, Jens) Numerical solution of a functional equation on a circle. (English summary) **93j:65212**

Otten, Werner Verified inclusions of eigenvalues of linear difference and differential equations. (English summary) **93j:65213**

Pang, P. Y. H. (*with* Agarwal, Ravi Prakash) Periodic boundary value problems for first and second order discrete systems. (English summary) **93j:65214**

Prządka, Katarzyna The finite difference method in partial differential-functional equations. **93h:65162**

Serdyukova, S. I. Necessary and sufficient conditions for stability in C of linear difference boundary value problems of general form. (Russian) **93e:65147**

Stadnik, O. I. *see* **Khusainov, D. Ya., 93b:65201**

Titkov, B. V. An algorithm for inverting a discrete convolution by the partitioning method. (Russian) **93b:65202**

Items with secondary classifications in 65Q05

Abate, Joseph (*with* Whitt, Ward) Solving probability transform functional equations for numerical inversion. (English summary) **93i:60163**

Bainov, Drumi Dimitrov *see* **Khristova, S. G., 93c:34146**

Baker, Christopher T. H. *see* **Willé, David R., 93a:65109**

Barreiro Blas, Antonio Recursive independent state-space and matrix fraction realizations. **93a:93025**

Bellen, Alfredo (*with* Zennaro, Marino) Strong contractivity properties of numerical methods for ordinary and delay differential equations. **93a:65104**

Bruin, H. Numerical determination of the continued fraction expansion of the rotation number. (English summary) **93m:58058**

Bryzgalin, G. I. Mean values of a function on products of linearly ordered spaces. (Russian) **93k:65052**

Buzug, Th. *see* **Enge, N.; et al., 93k:58148**

Cahlon, Baruch Numerical solutions for functional integral equations with state-dependent delay. **93b:65207**

Chow, Shui-Nee (*with* Palmer, Kenneth J.) On the numerical computation of orbits of dynamical systems: the higher-dimensional case. (English summary) **93k:65118**

Davies, M. E. An iterated function approximation in shadowing time series. (English summary)

Enge, N. (*with* Buzug, Th.; Pfister, Gerd) Noise reduction on chaotic attractors. (English summary) **93k:58148**

Fedorov, F. I. Approximate solution of cubic equations. (Russian. English and Russian summaries) **93g:65061**

Ito, Kazufumi (*with* Kappel, Franz) Two families of approximation schemes for delay systems. **93a:34089**

Kamont, Zdzisław The method of lines for parabolic differential-functional equations with initial-boundary conditions of the Dirichlet type. **93e:65116**

Kappel, Franz *see* **Ito, Kazufumi, 93a:34089**

Khristova, S. G. (*with* Bainov, Drumi Dimitrov) Numeric-analytic method for finding the periodic solutions of nonlinear differential-difference equations with impulses. **93c:34146**

Kincaid, David R. (*with* Young, David M.) Stationary second-degree iterative methods and recurrences. **93d:65038**

Klepp, Horst J. Approximate solutions, numerical errors and chaos of the logistic equation. **93f:58152**

Kwapisz, Marian On the error estimate of approximate solutions of the discrete Volterra equations of kth order. **93c:65078**

Last, Y. (*with* Wilkinson, Michael) A sum rule for the dispersion relations of the rational Harper equation. (English summary) **93j:81017**

Lie, Ivar Heterogeneous domain decomposition for acoustic bottom interaction problems. (English summary) **93i:76083**

Listopadova, V. V. A multipoint problem for functional-differential equations with a small nonlinearity that contain parameters, and its solution by projection-iterative method. (Russian. English summary) **93b:34083**

Liu, Shu Tang (*with* Yang, Ju Ping) Computation of long convolutions through Mersenne number transforms. (Chinese. English and Chinese summaries) **93k:65023**

Liu, Yong Qing *see* **Xiao, Hui Min, 93f:39009**

Lu, Lin Zhang A sign function method for solving discrete time algebraic Riccati equations. (Chinese. English and Chinese summaries) **93i:65047**

Malinetskii, G. G. (*with* Shakaeva, M. S.) Analysis of a family of cellular automata that model oscillatory chemical reactions. (Russian. English summary) **93d:65012**

Mattheij, R. M. M. Decoupling of bidiagonal systems involving singular blocks. **93b:65106**

Mitrov, Tsvetan *see* **Smilyanov, Atanas**

Palmer, Kenneth J. *see* **Chow, Shui-Nee, 93k:65118**

Pfister, Gerd *see* **Enge, N.; et al., 93k:58148**

Serdyukova, S. I. Stability in **C** of difference boundary value problems. (Russian) **93a:39009**

Shakaeva, M. S. *see* **Malinetskii, G. G., 93d:65012**

Shishkina, O. V. A parallel zonal partitioning method. (Russian) **93e:65048**

Smilyanov, Atanas (*with* Mitrov, Tsvetan) On the correctness of differential and difference methods for studying the stability of continuous railways. (Bulgarian. English and Russian summaries)

Spigler, Renato (*with* Vianello, Marco) WKBJ-type approximation for finite moments perturbations of the differential equation $y'' = 0$ and the analogous difference equation. (English summary) **93f:34089**

Stephens, Nelson The zero-square algorithm for computing linear complexity profiles. **93d:94013**

Vianello, Marco *see* **Spigler, Renato, 93f:34089**

Whitt, Ward *see* **Abate, Joseph, 93i:60163**

Wilkinson, Michael *see* **Last, Y., 93j:81017**

Willé, David R. (*with* Baker, Christopher T. H.) The tracking of derivative discontinuities in systems of delay-differential equations. **93a:65109**

Xiao, Hui Min (*with* Liu, Yong Qing) Asymptotic stability of nonlinear time-varying discrete systems. (Chinese. English summary) **93f:39009**
Yang, Ju Ping *see* **Liu, Shu Tang, 93k:65023**
Young, David M. *see* **Kincaid, David R., 93d:65038**
Zennaro, Marino *see* **Bellen, Alfredo, 93a:65104**
Zhang, Wei Jiang Exponential dichotomies of nonlinear discrete systems and their application to numerical analysis and computation. (Chinese. English summary) **93a:65101**

65Rxx Integral equations, integral transforms [see also 45Lxx]

65R10 Integral transforms

Agayan, S. S. (*with* Bayadyan, G. L.; Gevorkyan, D. Z.) Problems in the stability of orthogonal series summation, and calculations of linear transforms. (Russian) **93k:65102**
Bayadyan, G. L. *see* **Agayan, S. S.; et al., 93k:65102**
Beylkin, Gregory (*with* Coifman, Ronald R.; Rokhlin, Vladimir V.) Wavelets in numerical analysis. **93j:65215**
Bones, P. J. *see* **Cree, M. J., 93m:65176**
Chen, Dao Qi The CG method for image reconstruction from projections. (English summary) (*see* **93d:65004**)
Chen, Huo Kun *see* **Zhou, Xi Reng; et al., (93b:65008)**
Chocholatý, Pavol A method of inversion of the Laplace transform. **93e:65148**
Coifman, Ronald R. *see* **Beylkin, Gregory; et al., 93j:65215**
Cree, M. J. (*with* Bones, P. J.) Algorithms to numerically evaluate the Hankel transform. (English summary) **93m:65176**
Cuccaro, Steven A. *see* **Mascagni, Michael; et al., (93k:65003)**
Cunha, Cristina (*with* Viloche, Fermin) The Laguerre functions in the inversion of the Laplace transform. (English summary) **93m:65177**
De Pierro, Alvaro R. Multiplicative iterative methods in computed tomography. **93f:65092**
Desbat, L. Efficient sampling on coarse grids in tomography. (English summary) **93m:65178**
Dobson, David C. Phase reconstruction via nonlinear least-squares. (English summary) **93e:65149**
Feng, Hai Bo *see* **Zhou, Xi Reng; et al., (93b:65008)**
Gevorkyan, D. Z. *see* **Agayan, S. S.; et al., 93k:65102**
Kijima, Masaaki *see* **Sumita, Ushio, 93b:65203**
Kunyansky, Leonid A. Generalized and attenuated Radon transforms: restorative approach to the numerical inversion. (English summary) **93k:65103**
Louis, Alfred K. Medical imaging: state of the art and future development. (English summary) **93g:65163**
Mascagni, Michael (*with* Cuccaro, Steven A.; Pryor, Daniel V.; Robinson, M. L.) Recent developments in parallel pseudorandom number generation. (English summary) (*see* **93k:65003**)
Peng, Chengbin (*with* Rodi, William; Toksöz, M. Nafi) Smoothest-model reconstruction from projections. (English summary) **93m:65179**
Pryor, Daniel V. *see* **Mascagni, Michael; et al., (93k:65003)**
Robinson, M. L. *see* **Mascagni, Michael; et al., (93k:65003)**
Rodi, William *see* **Peng, Chengbin; et al., 93m:65179**
Rodriguez, G. (*with* Seatzu, S.) On the numerical inversion of the Laplace transform with equally spaced data. (English summary) **93h:65163**
Rokhlin, Vladimir V. *see* **Beylkin, Gregory; et al., 93j:65215**
Seatzu, S. *see* **Rodriguez, G., 93h:65163**
Segman, Joseph A new algorithm to compute the discrete inverse Radon transform. (English summary) **93f:65093**
Sumita, Ushio (*with* Kijima, Masaaki) Theory and algorithms of the Laguerre transform. II. Algorithm. **93b:65203**
Tarasov, O. A. (*with* Tarasov, R. P.) Numerical inversion of the two-dimensional Laplace transform in the algebra of triangular Toeplitz matrices over a ring of formal polynomials. (Russian) **93b:65204**
Tarasov, R. P. *see* **Tarasov, O. A., 93b:65204**
Toksöz, M. Nafi *see* **Peng, Chengbin; et al., 93m:65179**
Viloche, Fermin *see* **Cunha, Cristina, 93m:65177**
Yagle, Andrew E. Inversion of spherical means using geometric inversion and Radon transforms. (English summary) **93j:65216**
Zhou, Xi Reng (*with* Feng, Hai Bo; Chen, Huo Kun) The least criterion error principle on Laplace numerical inversion transformation. (*see* **93b:65008**)

Items with secondary classifications in 65R10

Abate, Joseph (*with* Whitt, Ward) The Fourier-series method for inverting transforms of probability distributions. **93b:60002**
Aoki, K. *see* **Tanaka, Masataka; et al., (93b:65008)**
Balashov, L. A. (*with* Dreizin, Yu. A.; Mel'nikov, M. S.) Approximation of exponential functions and the relative proximity of stable signals. (Russian) **93a:41070**
(Beylkin, Gregory) *see* **Wavelets and their applications, 93e:00031**
Bogmér, A. (*with* Joó, István) A new approximation for the Fourier transform. I. **93b:42014**
Bracewell, Ronald N. ★ Преобразование Хартли. (Russian. Russian summary) [The Hartley transform] **93j:44001**
Branders, Maria *see* **Piessens, Robert, 93i:65028**
Byrne, Charles L. (*with* Haughton, Dominique; Jiang, Jyh-Ming) High-resolution inversion of the discrete Poisson and binomial transformations. (English summary) **93k:62048**
Cheney, Margaret (*with* Isaacson, David) Invariant imbedding, layer-stripping, and impedance imaging. (*see* **93e:00023**)
(Coifman, Ronald R.) *see* **Wavelets and their applications, 93e:00031**
Dreizin, Yu. A. *see* **Balashov, L. A.; et al., 93a:41070**
Faridani, Adel (*with* Ritman, Erik L.; Smith, Kennan T.) Local tomography. **93b:92008**
— (*with* Ritman, Erik L.; Smith, Kennan T.) Examples of local tomography.
Haider, Q. (*with* Liu, L. C.) Fourier or Bessel transformations of highly oscillatory functions. (English summary)
Haughton, Dominique *see* **Byrne, Charles L.; et al., 93k:62048**
Herzog, H. *see* **Natterer, F., 93a:92005**
Isaacson, David *see* **Cheney, Margaret, (93e:00023)**
Jiang, Jyh-Ming *see* **Byrne, Charles L.; et al., 93k:62048**
Joó, István *see* **Bogmér, A., 93b:42014**
Kaiser, Gerald (*with* Streater, Raymond F.) Windowed Radon transforms, analytic signals, and the wave equation. **93g:44008**
Kent, John T. (*with* Wright, Christopher) Some suggestions for transmission tomography based on the EM algorithm. (English summary) (*see* **93e:62005**)
Liu, L. C. *see* **Haider, Q.**
Mel'nikov, M. S. *see* **Balashov, L. A.; et al., 93a:41070**
Nakamura, M. *see* **Tanaka, Masataka; et al., (93b:65008)**
Natterer, F. (*with* Herzog, H.) Attenuation correction in positron emission tomography. **93a:92005**
— Sampling in fan beam tomography. (English summary) **93m:92011**
Olde Daalhuis, A. B. Computing with Daubechies' wavelets. (English summary) **93e:65156**
Panchenko, Alexander N. Inverse source problem of radiative transfer: a special case of the attenuated Radon transform. (English summary) **93k:35271**
(Pankov, A. I.) *see* **Bracewell, Ronald N., 93j:44001**
Piessens, Robert (*with* Branders, Maria) On the computation of Fourier transforms of singular functions. (English summary) **93i:65028**
— *see also* **Sweldens, Wim, 93g:94006**
Reis, Maria Luiza (*with* Roberty, Nilson Costa) Maximum entropy algorithms for image reconstruction from projections. (English summary) **93f:65019**
Ritman, Erik L. *see* **Faridani, Adel; et al., 93b:92008**
Roberty, Nilson Costa *see* **Reis, Maria Luiza, 93f:65019**
(Ruskai, Mary Beth) *see* **Wavelets and their applications, 93e:00031**
(Ryzhak, I. S.) *see* **Bracewell, Ronald N., 93j:44001**
Smith, Kennan T. *see* **Faridani, Adel; et al., 93b:92008**
Smotrov, Ya. A. An error estimate for the method of asymptotic extension of an interval under inversion of the integral Fourier transform. (Russian. English, Russian and Latvian summaries) **93h:41029**
Streater, Raymond F. *see* **Kaiser, Gerald, 93g:44008**
Sweldens, Wim (*with* Piessens, Robert) Calculation of the wavelet decomposition using quadrature formulae. (English summary) **93g:94006**
Tanaka, Masataka (*with* Nakamura, M.; Aoki, K.) A study on computational accuracy of the Laplace transform BEM for transient elastodynamic problems. (*see* **93b:65008**)
Whitt, Ward *see* **Abate, Joseph, 93b:60002**
Wright, Christopher *see* **Kent, John T., (93e:62005)**
Zakharova, T. G. Calculation of the Fourier transform in fields of characteristic 2. (Russian. Russian summary) **93h:94007**
Zinterhof, P. Number theory and number crunching. (English summary) **93i:11091**

Items listed otherwise than by author

Wavelets and their applications ★ Wavelets and their applications. **93e:00031**

65R20 Integral equations

Abd-Elal, L. F. A fast method for the numerical solution of singular integro-differential equations. (Arabic summary) **93c:65159**
Achdou, Yves (*with* Pironneau, Olivier) Integral equations for the generalized Stokes operator. (French summary) **93c:65160**
Aggarwal, Rajesh *see* **Dellwo, David R.; et al., (93f:00014)**
Ahner, John F. (*with* Hsiao, George C.) Iterative solutions of boundary integral equations of the first kind. **93h:65164**
Alpert, Bradley K. Wavelets and other bases for fast numerical linear algebra. **93f:65094**
— A class of bases in L^2 for the sparse representation of integral operators. (English summary) **93k:65104**
— (*with* Beylkin, Gregory; Coifman, Ronald R.; Rokhlin, Vladimir V.) Wavelet-like bases for the fast solution of second-kind integral equations. (English summary) **93i:65126**
Amato, Umberto (*with* Occorsio, Mario Rosario) Influence of the smoothing functional in the approximation of first-kind Fredholm integral equations. (English summary) **93h:65165**
Argyros, Ioannis K. (*with* Losta, Mansor M.) Integral equations for two-point boundary value problems. **93b:65205**
Atkinson, Kendall E. A survey of numerical methods for solving nonlinear integral equations. **93a:65177**
— (*with* Flores, J.) The discrete collocation method for nonlinear integral equations. (English summary) **93m:65180**
Babich, M. D. ★ О приближенном решении одного класса нелинейных интегральных уравнений. (Russian) [Approximate solution of a class of nonlinear integral equations] **93d:65111**
Baker, Christopher T. H. (*with* Ford, Neville J.) Stability properties of a scheme for the approximate solution of a delay-integro-differential equation. **93c:65161**
Berthold, Dietmar On the stability of the classical collocation method for Cauchy-type singular integral equations. (English summary) **93k:65105**
— (*with* Hoppe, W.; Silbermann, Bernd) A fast algorithm for solving the generalized airfoil equation. (English summary) **93k:65106**
— (*with* Hoppe, W.; Silbermann, Bernd) The numerical solution of the generalized airfoil equation. **93m:65181**
Bertram, B. On the use of product integration for the solution of finite part singular integral equations. (English summary) (*see* **93f:00014**)
— (*with* Ruehr, O.) Product integration for finite-part singular integral equations: numerical asymptotics and convergence acceleration. (English summary) **93g:65164**
Beylkin, Gregory *see* **Alpert, Bradley K.; et al., 93i:65126**
Bialecki, Bernard (*with* Yan, Yi) A rectangular quadrature method for logarithmically singular integral equations of the first kind. (English summary) **93j:65217**

Boaventura, M. (*with* Cuminato, J. A.) Reductive quadrature rules for Volterra integral equations of the second kind. (Portuguese. English summary) **93f:65095**
Bogar, Gary A. Least-squares solutions of Fredholm integral equations of the second kind. (English summary) **93j:65218**
Bojeldain, A. A. On the numerical solving of nonlinear Volterra integro-differential equations. **93e:65150**
Borisovich, O. Yu. (*with* Byrdin, A. P.) The Fourier method for a boundary value problem on dynamic instability with a nonlinear integro-differential operator. I. (Russian) **93c:65162**
Brewer, Dennis W. (*with* Powers, Robert K.) Parameter estimation for a Volterra integro-differential equation. **93a:65178**
Brunner, Hermann On implicitly linear and iterated collocation methods for Hammerstein integral equations. **93b:65206**
— Implicitly linear collocation methods for nonlinear Volterra equations. **93c:65163**
— On discrete superconvergence properties of spline collocation methods for nonlinear Volterra integral equations. (English summary) **93k:65107**
Bulavskiĭ, Yu. V. A generalized scheme of constructing randomized methods for solving integral equations. (Russian) **93e:65151**
Burn, B. J. *see* **Sloan, Ian H., 93d:65115**
Byrdin, A. P. *see* **Borisovich, O. Yu., 93c:65162**
Cahlon, Baruch (*with* Deutz, A.) On the numerical stability of Volterra integro-differential and integral equations. (English summary) **93m:65182**
— Numerical solutions for functional integral equations with state-dependent delay. **93b:65207**
— (*with* Schmidt, Darrell) Numerical solutions for functional integral equations. (English summary) **93k:65108**
Cale, T. S. *see* **Merson, J. A., (93f:00014)**
Chandler, G. A. Midpoint collocation for Cauchy singular integral equations. **93g:65165**
Civan, Faruk Quadrature and cubature methods for numerical solution of integro-differential equations. (English summary) (*see* **93f:00014**)
Coifman, Ronald R. *see* **Alpert, Bradley K.; et al., 93i:65126**
Costabel, Martin (*with* Penzel, Frank; Schneider, Reinhold) A collocation method for a screen problem in $\mathbf{R}^3$. (*see* **93k:35004**)
— (*with* McLean, William) Spline collocation for strongly elliptic equations on the torus. **93f:65096**
Cuminato, J. A. *see* **Boaventura, M., 93f:65095**
Dellwo, David R. (*with* Friedman, Morton B.; Aggarwal, Rajesh) Computational aspects of accelerated projection methods for nonlinear integral equations. (English summary) (*see* **93f:00014**)
Deutz, A. *see* **Cahlon, Baruch, 93m:65182**
Diogo, Teresa *see* **Tang, Tao; et al., 93d:65116**
Dobner, Hans-Jürgen (*with* Kaucher, Edgar) Inclusion methods for integral equations. (English summary) **93j:65219**
— Verified solution of integral equations with applications. (English summary) **93j:65220**
Doszhanova, G. N. (*with* Sarbasov, K. E.) A modified Simpson formula for the approximate solution of the Volterra integral equation. (Russian) **93c:65164**
Eggermont, P. P. B. On the quadrature error in operational quadrature methods for convolutions. **93d:65112**
— (*with* Lubich, Ch.) Operational quadrature methods for Wiener-Hopf integral equations. **93h:65166**
Ervin, V. J. (*with* Stephan, E. P.) Collocation with Chebyshev polynomials for a hypersingular integral equation on an interval. (English summary) **93j:65221**
Evtushenko, A. A. (*with* Prikarpat·skiĭ, A. K.) The parametric integro-interpolation method for solving singular integral equations. (Russian. Russian and Ukrainian summaries)
Fedorov, Alexandre V. *see* **Zhidkov, E. P.; et al., 93m:65185**
Feng, Zhen Xing (*with* Liu, Yu Qi) An unified treatment of the singular integrals in BEM model for 3-D elastoplastic crack analysis. (*see* **93b:65008**)
Fidan, Zeynep An explicit Runge-Kutta-Bel'tyukov method for Volterra integral equation of second kind with weakly singular kernels. (English and Turkish summaries)
Flores, J. *see* **Atkinson, Kendall E., 93m:65180**
Ford, Neville J. *see* **Baker, Christopher T. H., 93c:65161**
Friedman, Morton B. *see* **Dellwo, David R.; et al., (93f:00014)**
Garey, L. E. *see* **Gladwin, C. J., 93b:65208** *and* **Shaw, R. E., 93k:65110**
Geveci, Tunc *see* **Stewart, Kris, 93b:65213**
Gladwin, C. J. (*with* Garey, L. E.) Multi-step methods for first kind singular Volterra integral equations. **93b:65208**
Grabowski, Jerzy On some approximate method for Fredholm's integral equation of the second kind with bounded kernel. **93i:65127**
Graham, I. G. (*with* Lin, Qun; Xie, Rui Feng) Extrapolation of Nyström solutions of boundary integral equations on nonsmooth domains. **93a:65179**
Hamina, M. (*with* Ruotsalainen, Keijo; Saranen, Jukka) The numerical approximation of the solution of a nonlinear boundary integral equation with the collocation method. **93a:65180**
Hämmerlin, Günther Developments in solving integral equations numerically. (English summary) (*see* **93f:65006**)
Hansen, Per Christian Numerical tools for analysis and solution of Fredholm integral equations of the first kind. (English summary) **93h:65167**
Heinrich, Stefan Probabilistic analysis of numerical methods for integral equations. **93a:65181a**
— Errata: "Probabilistic analysis of numerical methods for integral equations". **93a:65181b**
Hoppe, W. *see* **Berthold, Dietmar; et al., 93k:65106** *and* **93m:65181**
Hsiao, George C. *see* **Ahner, John F., 93h:65164**
Huang, Ka Ma (*with* Lin, Wei Gan) Using the method of operator expansions to solve Fredholm integral equations. (Chinese. English and Chinese summaries) **93j:65222**
Jang, Gyu-sang *see* **Vemuri, V., 93a:65184**
Kaneko, Hideaki (*with* Noren, Richard D.) An application of approximation theory to numerical solutions for Fredholm integral equations of the second kind. **93a:65182**
— (*with* Xu, Yuesheng; Kerr, Gilbert) Degenerate kernel method for multi-variable Hammerstein equations. (English summary) **93k:65109**
— (*with* Noren, Richard D.; Xu, Yuesheng) Numerical solutions for weakly singular Hammerstein equations and their superconvergence. (English summary) **93j:65223**
Kaucher, Edgar *see* **Dobner, Hans-Jürgen, 93j:65219**
Kauthen, J.-P. The method of lines for parabolic partial integro-differential equations. **93d:65113**
Kelley, C. T. (*with* Sachs, Ekkehard) Mesh independence of Newton-like methods for infinite-dimensional problems. **93g:65166**
Kerr, Gilbert *see* **Kaneko, Hideaki; et al., 93k:65109**
Kindybalyuk, A. Yu. Application of a variant of the projection-iterative method to the solution of Hammerstein-type integral equations. (Russian. Russian summary) (*see* **93m:00016**)
Klein, Wolfram Inclusion methods for linear and nonlinear systems of Fredholm integral equations of the second kind. (English summary) (*see* **93e:00022**)
— Enclosure methods for linear and nonlinear systems of Fredholm integral equations of the second kind. (English summary) **93l:65128**
Kopeć, S. Error bounds for maximum entropy approximate solutions to Fredholm integral equations. **93a:65183**
Kostova, Tanya Numerical solutions of some hyperbolic differential-integral equations. (*see* **93b:65007**)
Kwapisz, Marian Some remarks on an integral equation arising in applications of numerical-analytic method of solving of boundary value problems. (English, Russian and Ukrainian summaries) **93g:65167**
Lin, Qun *see* **Graham, I. G.; et al., 93a:65179**
Lin, Wei Gan *see* **Huang, Ka Ma, 93j:65222**
Liu, Yu Qi *see* **Feng, Zhen Xing, (93b:65008)**
Losta, Mansor M. *see* **Argyros, Ioannis K., 93b:65205**
Lubich, Ch. (*with* Schneider, Reinhold) Time discretization of parabolic boundary integral equations. (English summary) **93j:65224**
— *see also* **Eggermont, P. P. B., 93h:65166**
Makarov, L. V. An estimate for the accuracy of an algorithm for solving the identification problem with a Uryson-type nonlinearity. (Russian) **93b:65209**
Makroglou, Athena Numerical treatment of stochastic Volterra integro-differential equations. (English summary) **93m:65183**
Matveev, A. F. On the numerical solution of the ill-posed problems of construction of approximate solutions of singular integral equations of the second kind. (English summary) (*see* **93m:00041**)
McKee, Sean *see* **Tang, Tao; et al., 93d:65116**
McLean, William *see* **Costabel, Martin, 93f:65096**
Medhin, N. G. (*with* Sambandham, M.) A numerical study of random integro-differential equations. **93e:65152**
Meleshko, A. N. (*with* Yanovich, L. A.) On the collocation method for a class of nonlinear singular integro-differential equations. (Russian. Russian summary) **93i:65129**
Merson, J. A. (*with* Cale, T. S.) Comparison of a direct method for inverting Fredholm equations of the first kind with the method of regularization. (English summary) (*see* **93f:00014**)
Mokin, Yu. I. Accuracy of the Galerkin method for integral equations of potential theory on surfaces of a three-dimensional space. (Russian. Russian summary)
Noren, Richard D. *see* **Kaneko, Hideaki, 93a:65182** *and* **93j:65223**
Novikov, A. I. Fast algorithms for solving Fredholm integral equations of the first kind. (Russian) (*see* **93m:00028**)
Occorsio, Mario Rosario *see* **Amato, Umberto, 93h:65165**
Onishi, K. Identification of the shape of an obstacle by inverse acoustic scattering. (*see* **93b:65008**)
Pedas, A. A. On the numerical solution of a weakly singular integral equation. (Russian summary) **93c:65165**
Penzel, Frank *see* **Costabel, Martin; et al., (93k:35004)**
von Petersdorff, T. (*with* Stephan, E. P.) Multigrid solvers and preconditioners for first kind integral equations. (English summary) **93d:65114**
Pironneau, Olivier *see* **Achdou, Yves, 93c:65160**
Podolyako, S. V. *see* **Zagonov, V. P., 93g:65170**
Powers, Robert K. *see* **Brewer, Dennis W., 93a:65178**
Prikarpat·skiĭ, A. K. *see* **Evtushenko, A. A.**
Prössdorf, Siegfried (*with* Sloan, Ian H.) Quadrature method for singular integral equations on closed curves. **93c:65166**
Reiter, Johann An algorithm for deconvolution by the maximum entropy method with astronomical applications. (English summary) **93h:65168**
Riley, Bruce V. The numerical solution of Volterra integral equations with nonsmooth solutions based on sinc approximation. **93b:65210**
Rokhlin, Vladimir V. *see* **Alpert, Bradley K.; et al., 93i:65126**
Ruehr, O. *see* **Bertram, B., 93g:65164**
Ruotsalainen, Keijo *see* **Hamina, M.; et al., 93a:65180**
Sachs, Ekkehard *see* **Kelley, C. T., 93g:65166**
Sambandham, M. *see* **Medhin, N. G., 93e:65152**
Samonenko, V. A. The AI-method for solving a nonlinear integro-differential equation with a Volterra-type integral operator. (Russian. Russian summary) **93g:65168**
Saranen, Jukka The modified quadrature method for logarithmic-kernel integral equations on closed curves. **93b:65211**
— (*with* Sloan, Ian H.) Quadrature methods for logarithmic-kernel integral equations on closed curves. **93g:65169**
— *see also* **Hamina, M.; et al., 93a:65180**
Sarbasov, K. E. *see* **Doszhanova, G. N., 93c:65164**
Scalas, E. (*with* Viano, G. A.) Resolving power and information theory in signal recovery. (English summary) **93m:65184**
Schmidt, Darrell *see* **Cahlon, Baruch, 93k:65108**
Schneider, Reinhold *see* **Lubich, Ch., 93j:65224** *and* **Costabel, Martin; et al., (93k:35004)**
Shapovalova, L. F. ★ Разработка алгоритма решения сингулярного интегрального уравнения проекционно-итеративным методом. (Russian. Russian summary) [Development of an algorithm for solving a singular integral equation by the projection-iteration method]
Shaw, R. E. (*with* Garey, L. E.) Monotonic approximations for nonlinear second order Volterra integro-differential equations with two-point boundary conditions. (English

summary) **93k:65110**

Silbermann, Bernd Symbol construction and numerical analysis. **93b:65212**

— *see also* **Berthold, Dietmar; et al., 93k:65106** *and* **93m:65181**

Sinenko, M. A. On a connection between the projection-iterative method and the KR-method for equations of the second kind. (Russian) **93e:65153**

Sloan, Ian H. (*with* Burn, B. J.) An unconventional quadrature method for logarithmic-kernel integral equations on closed curves. **93d:65115**

— *see also* **Prössdorf, Siegfried, 93c:65166** *and* **Saranen, Jukka, 93g:65169**

Sobkhī, E. Numerical solution of integral equations of the first kind in potential theory. (Ukrainian. Russian summary)

Song, Young Choon On the discrete Galerkin methods for nonlinear integral equations. **93j:65225**

Stephan, E. P. *see* **von Petersdorff, T., 93d:65114** *and* **Ervin, V. J., 93j:65221**

Stewart, Kris (*with* Geveci, Tunc) Numerical experiments with a nonlinear evolution equation which exhibits blow-up. **93b:65213**

Tang, Tao (*with* McKee, Sean; Diogo, Teresa) Product integration methods for an integral equation with logarithmic singular kernel. **93d:65116**

— A finite difference scheme for partial integro-differential equations with a weakly singular kernel. (English summary) **93h:65169**

— A note on collocation methods for Volterra integro-differential equations with weakly singular kernels. (English summary) **93k:65111**

Thomée, V. Numerical methods for hyperbolic integro-differential equations. (English summary) **93j:65226**

Vainikko, Gennadi Solution of large systems arising by discretization of multidimensional weakly singular integral equations. (Russian summary) **93c:65167**

Vemuri, V. (*with* Jang, Gyu-sang) Inversion of Fredholm integral equations of the first kind with fully connected neural networks. **93a:65184**

Venturino, Ezio The Galerkin method for singular integral equations revisited. **93h:65170**

— Unconventional solution of singular integral equations. (English summary) **93h:65171**

Vermiglio, R. On the stability of Runge-Kutta methods for delay integral equations. **93b:65214**

Viano, G. A. *see* **Scalas, E., 93m:65184**

Xie, Rui Feng *see* **Graham, I. G.; et al., 93a:65179**

Xu, Yuesheng *see* **Kaneko, Hideaki; et al., 93j:65223** *and* **93k:65109**

Yan, Yi *see* **Bialecki, Bernard, 93j:65217**

Yanovich, L. A. *see* **Meleshko, A. N., 93i:65129**

Yuldashev, O. I. *see* **Zhidkov, E. P.; et al., 93m:65185**

Zagonov, V. P. (*with* Podolyako, S. V.) Some algorithms for the approximate solution of integral equations of the first kind with a priori constraints. (Russian. English and Russian summaries) **93g:65170**

Zheludev, V. A. Spline-operational calculus and numerical solution of integral convolution equations of the first kind. (Russian. Russian summary) **93h:65172**

Zhidkov, E. P. (*with* Fedorov, Alexandre V.; Yuldashev, O. I.) Application of the Galerkin method for solving an integral equation of magnetostatics with respect to vector potential. (Russian. Russian summary) **93m:65185**

Zhou, Ai Hui An extrapolation method for finite element approximation of integro-differential equations with parameters. (English summary) **93h:65173**

— Extrapolation for collocation method of the first kind Volterra integral equations. **93e:65154**

— Extrapolation for finite element methods of the first kind Fredholm integral equations. (English summary) **93h:65174**

Items with secondary classifications in 65R20

Adolfsson, Vilhelm (*with* Goldberg, M.; Jawerth, Björn; Lennerstad, H.) Localized Galerkin estimates for boundary integral equations on Lipschitz domains. (English summary) **93f:65087**

Allgower, Eugene L. (*with* Böhmer, Klaus; Georg, Kurt; Miranda, Rick) Exploiting symmetry in boundary element methods. **93b:65184**

Amini, S. *see* **Chen, Ke, 93i:65115**

Antyufeev, V. S. Direct and inverse problems of the radiation transfer in a vegetative cover. **93c:78008**

Asadzadeh, Mohammad (*with* Kumlin, Peter; Larsson, Stig) The discrete ordinates method for the neutron transport equation in an infinite cylindrical domain. (English summary) **93i:82064**

Bakke, V. L. (*with* Jackiewicz, Z.) Stability analysis of multilag and modified multilag methods for Volterra integrodifferential equations. **93c:34158**

Benhenni, Karim (*with* Cambanis, Stamatis) Sampling designs for estimating integrals of stochastic processes. **93e:60074**

Bilenko, V. I. Integro-approximational method for the modelling of certain class of nonlinear dynamic objects. (*see* **93a:65004**)

Böhmer, Klaus *see* **Allgower, Eugene L.; et al., 93b:65184**

Brattkus, K. (*with* Meiron, D. I.) Numerical simulations of unsteady crystal growth. (English summary) **93f:35245**

Bui, Dat Duc Convergence of the F_N method for anisotropic scattering in plane geometry. **93d:85003**

Busigin, Anthony (*with* Phillips, Colin R.) Efficient Newton-Raphson and implicit Euler methods for solving the HNC equation. **93b:76065**

Cambanis, Stamatis *see* **Benhenni, Karim, 93e:60074**

Chao, Hong Yang *see* **Li, Yue Sheng, 93c:45002**

Chen, Chuan Miao (*with* Thomée, V.; Wahlbin, L. B.) Finite element approximation of a parabolic integro-differential equation with a weakly singular kernel. **93g:65120**

Chen, Ke (*with* Amini, S.) Numerical analysis of boundary integral solution of the Helmholtz equation in domains with nonsmooth boundaries. (English summary) **93i:65115**

Cheng, De Lin *see* **Xu, Ming Tian; et al., (93b:65008)**

Crisci, M. R. (*with* Russo, E.; Jackiewicz, Z.; Vecchio, A.) Global stability of exact collocation methods for Volterra integro-differential equations. **93f:45020**

Croft, Tony *see* **Quinney, Douglas, 93d:65070**

Dimov, Ivan T. Minimization of the probable error for some Monte Carlo methods. (*see* **93a:65004**)

Dobner, Hans-Jürgen (*with* Kaucher, Edgar) Singular operator equations with functional constraints. (English summary) **93j:65069**

Eggermont, P. P. B. On noncompact Hammerstein integral equations and a nonlinear boundary value problem for the heat equation. **93d:47138**

Eskola, L. ★ Geophysical interpretation using integral equations. **93m:86007**

Fairweather, Graeme (*with* López Marcos, J. C.) A box method for a nonlinear equation of population dynamics. **93c:92006**

— *see also* **Yan, Yi, 93c:65130**

Fiedler, Olga (*with* Römisch, Werner) Weak convergence of approximate solutions of random equations. (English summary) **93m:60139**

Gao, De Ping (*with* Wen, Wei Dong) A numerical integration approach for the integrals with singularity $1/r^2$ in 3-D elastoplastic BEM. (*see* **93b:65008**)

Georg, Kurt *see* **Allgower, Eugene L.; et al., 93b:65184**

Goldberg, M. *see* **Adolfsson, Vilhelm; et al., 93f:65087**

Gorenflo, Rudolf (*with* Pfeiffer, Andreas) On analysis and discretization of nonlinear Abel integral equations of first kind. **93f:45019**

Guermond, Jean-Luc Numerical quadratures for layer potentials over curved domains in $\mathbf{R}^3$. (English summary) **93g:65033**

Hackbusch, Wolfgang The solution of large systems of BEM equations by the multi-grid and panel clustering technique. **93d:65104**

Hämarik, Uno Quasioptimal error estimate for the regularized Ritz-Galerkin method with a posteriori choice of the parameter. (Russian summary) **93e:65087**

Han, Hou De A boundary element method for Signorini problems in three dimensions. **93a:65166**

Hegland, Markus An optimal order regularization method which does not use additional smoothness assumptions. (English summary) **93j:65090**

Heinrich, Stefan (*with* Mathé, Peter) The Monte Carlo complexity of Fredholm integral equations. **93d:65007**

Hu, Qi Ya Extrapolation of finite element solutions to a class of integro-differential equations. (Chinese. English and Chinese summaries) **93g:65103**

Huang, Xiao Ling Approximate solutions to singular integral equations. (Chinese. Chinese summary) **93j:45011**

Ingber, Marc S. (*with* Li, J.) A method of regularization of the hypersingular integral contained in the traction boundary integral equation for the Stokes flow problem. (English summary) (*see* **93b:65002**)

Ito, Kazufumi (*with* Turi, Janos) Numerical methods for a class of singular integro-differential equations based on semigroup approximation. **93b:34022**

Jackiewicz, Z. *see* **Bakke, V. L., 93c:34158** *and* **Crisci, M. R.; et al., 93f:45020**

Jawerth, Björn *see* **Adolfsson, Vilhelm; et al., 93f:65087**

Kalistru, R. K. *see* **Zolotarevskii, V. A., 93i:45015**

Kaucher, Edgar *see* **Dobner, Hans-Jürgen, 93j:65069**

Khapko, R. S. Three approaches to the numerical solution of nonstationary problems on nonclosed surfaces by means of the method of integral equations. (Russian. English and Russian summaries) **93d:65091**

Khvedelidze, G. On the approximate solution of a class of singular integral equations. (Georgian. English and Russian summaries)

Kumlin, Peter *see* **Asadzadeh, Mohammad; et al., 93i:82064**

Larsson, Stig *see* **Asadzadeh, Mohammad; et al., 93i:82064**

Lennerstad, H. *see* **Adolfsson, Vilhelm; et al., 93f:65087**

Li, J. *see* **Ingber, Marc S., (93b:65002)**

Li, Yue Sheng (*with* Chao, Hong Yang) RS method for solving integral equations and its error estimate. **93c:45002**

Liem, Chin Bo *see* **Lü, Tao; et al., 93e:65004**

Lin, Yan Ping Nonclassical elliptic projections and L^2-error estimates for Galerkin methods for parabolic integro-differential equations. **93b:65172**

Linz, Peter (*with* Wang, Richard L. C.) Error bounds for the solution of Volterra and delay equations. **93a:65079**

López Marcos, J. C. *see* **Fairweather, Graeme, 93c:92006**

Lü, Tao (*with* Shih, Tsi Min; Liem, Chin Bo) An analysis of splitting extrapolation for multidimensional problems. (English summary) **93e:65004**

Lubich, Ch. (*with* Ostermann, Alexander) Runge-Kutta methods for parabolic equations and convolution quadrature. **93d:65082**

Luchini, P. (*with* Manzo, F.) A fast conformal mapping algorithm with no FFT. **93c:65044**

Makroglou, Athena Collocation methods for stochastic Volterra integro-differential equations with random forcing function. (English summary) **93h:65177**

Manzo, F. *see* **Luchini, P., 93c:65044**

Mastroianni, Giuseppe (*with* Prössdorf, Siegfried) A quadrature method for Cauchy integral equations with weakly singular perturbation kernel. **93g:45013**

Mathé, Peter *see* **Heinrich, Stefan, 93d:65007**

Meiron, D. I. *see* **Brattkus, K., 93f:35245**

Milner, Fabio A. Numerical method for a model of inhomogeneous muscle fibers. (English summary) **93k:92005**

Miranda, Rick *see* **Allgower, Eugene L.; et al., 93b:65184**

Monegato, Giovanni Product integration for one-dimensional integral equations of Fredholm type. (English summary) **93j:45012**

Morkov, B. I. (*with* Zheregi, F. G.) Approximate solution of some integral equations by means of power series. (Russian) **93b:45012**

Muci-Küchler, K. H. (*with* Rudolphi, T. J.) Application of tangent derivative boundary integral equations to the solution of elastostatic problems. (English summary) (*see* **93b:65002**)

Ostermann, Alexander *see* **Lubich, Ch., 93d:65082**

Pereverzev, S. V. (*with* Sinenko, M. A.) On the optimal rate of convergence of the KP-method and some of its generalizations. (Russian) **93a:65080**

— (*with* Scharipov, C. C.) Information complexity of equations of the second kind with compact operators in Hilbert space. **93e:65082**

Pfeiffer, Andreas *see* **Gorenflo, Rudolf, 93f:45019**

Phillips, Colin R. *see* **Busigin, Anthony, 93b:76065**

Pilipović, Stevan (*with* Stojanović, Mirjana) Solving convolution equations in S'_+ by numerical method. **93b:46073**

Prössdorf, Siegfried Approximation methods for integral equations of Cauchy and Mellin

type. **93j:45003**
— *see also* **Mastroianni, Giuseppe**, **93g:45013**
Qin, Rong Spline boundary element—QR method. (*see* **93b:65008**)
Quinney, Douglas (*with* Croft, Tony) The method of linear separation and approximate Green's functions. **93d:65070**
Rõmisch, Werner *see* **Fiedler, Olga**, **93m:60139**
Rudolphi, T. J. *see* **Muci-Küchler, K. H.**, (**93b:65002**)
Ruotsalainen, Keijo Some remarks on the boundary element method for nonlinear problems. (English summary) **93g:65154**
Russo, E. *see* **Crisci, M. R.; et al.**, **93f:45020**
Ruymgaart, Frits H. Regularized operator inversion as an approach to minimax rate density estimation. **93d:62079**
Scharipov, C. C. *see* **Pereverzev, S. V.**, **93e:65082**
Shengeliya, È. Sh. (*with* Sheshko, M. A.) Approximate solution of singular integral equations whose right-hand side has a logarithmic singularity. (Russian. English and Georgian summaries)
Sheshko, M. A. *see* **Shengeliya, È. Sh.**
Shih, Tsi Min *see* **Lü, Tao; et al.**, **93e:65004**
Sinenko, M. A. *see* **Pereverzev, S. V.**, **93a:65080**
Sloan, Ian H. Unconventional methods for boundary integral equations in the plane. (English summary) **93e:65144**
— (*with* Stephan, E. P.) Collocation with Chebyshev polynomials for Symm's integral equation on an interval. (English summary) **93g:45014**
Slodička, Marián On the Rothe-Galerkin method for a class of parabolic integro-differential problems. **93b:65145**
Song, Shu Ni *see* **Zhao, Yi Chun**, **93d:47120**
Stephan, E. P. *see* **Sloan, Ian H.**, **93g:45014**
Stojanović, Mirjana *see* **Pilipović, Stevan**, **93b:46073**
Thomée, V. *see* **Chen, Chuan Miao; et al.**, **93g:65120**
Turi, Janos *see* **Ito, Kazufumi**, **93b:34022**
Tyrtyshnikov, E. E. On symmetrizing preconditioners with low rank updates. (English summary) **93g:65060**
— Addenda: "Cauchy-Toeplitz matrices and some applications" [Linear Algebra Appl. **149** (1991), 1–18; MR 92a:65134]. **93k:65038**
Vavasis, Stephen A. Preconditioning for boundary integral equations. **93b:65062**
Vecchio, A. *see* **Crisci, M. R.; et al.**, **93f:45020**
Wahlbin, L. B. *see* **Chen, Chuan Miao; et al.**, **93g:65120**
Wall, David J. N. On the numerical solution of a functional-differential equation pertaining to a wave equation. (English summary) **93j:65164**
Wang, Richard L. C. *see* **Linz, Peter**, **93a:65079**
Wen, Wei Dong *see* **Gao, De Ping**, (**93b:65008**)
Werschulz, Arthur G. ★ The computational complexity of differential and integral equations. **93a:68061**
Xu, Ming Tian (*with* Zhou, Xue Sheng; Cheng, De Lin) The integral equation method for solving the vibration problems of beams with elastical supports. (*see* **93b:65008**)
Yan, Yi (*with* Fairweather, Graeme) Orthogonal spline collocation methods for some partial integrodifferential equations. **93c:65130**
Zhao, Yi Chun (*with* Song, Shu Ni) Approximation solvability of an equation of Hammerstein type. **93d:47120**
Zheregi, F. G. *see* **Morkov, B. I.**, **93b:45012**
Zhou, Xue Sheng *see* **Xu, Ming Tian; et al.**, (**93b:65008**)
Zolotarevskii, V. A. (*with* Kalistru, R. K.) Approximate solution of systems of singular integro-differential equations on closed smooth contours. II. (Russian) **93i:45015**

65R99 None of the above, but in this section

Bainov, Drumi Dimitrov *see* **Khristova, S. G.**
Khristova, S. G. (*with* Bainov, Drumi Dimitrov) Method for solving the periodic problem for integro-differential equations. (English summary)

Items with secondary classifications in 65R99

Beylkin, Gregory On the representation of operators in bases of compactly supported wavelets. (English summary) **93k:65019**
Farge, Marie Wavelet transforms and their applications to turbulence. **93b:76066**

65S05 Graphical methods

Items with secondary classifications in 65S05

Fonlupt, Jean (*with* Naddef, Denis) The traveling salesman problem in graphs with some excluded minors. **93b:90101**
Naddef, Denis *see* **Fonlupt, Jean**, **93b:90101**

65Txx Numerical methods in Fourier analysis

65T10 Trigonometric approximation and interpolation

Czapor, S. R. *see* **Guimaraes, J. E. F.; et al.**, **93d:65117**
Guimaraes, J. E. F. (*with* Heppler, G. R.; Czapor, S. R.) On the derivation and reduction of C^1 trigonometic basis functions using Maple. (English summary) **93d:65117**
Heppler, G. R. *see* **Guimaraes, J. E. F.; et al.**, **93d:65117**
Kudryavtsev, S. N. Approximate calculation of Fourier coefficients of the function $1/f$ from the Fourier coefficients of function f. (Russian. Russian summary) **93m:65186**

Items with secondary classifications in 65T10

Alpert, Bradley K. Wavelets and other bases for fast numerical linear algebra. **93f:65094**
Borisovich, O. Yu. (*with* Byrdin, A. P.) The Fourier method for a boundary value problem on dynamic instability with a nonlinear integro-differential operator. I. (Russian) **93c:65162**
Byrdin, A. P. *see* **Borisovich, O. Yu.**, **93c:65162**
Cai, Wei (*with* Gottlieb, David; Shu, Chi-Wang) On one-sided filters for spectral Fourier approximations of discontinuous functions. **93e:65021**
Gottlieb, David *see* **Cai, Wei; et al.**, **93e:65021**
Hatano, K. (*with* Hatano, Y.; Mitsui, Taketomo) On reformed Krylov's method. (English summary) **93k:65014**
Hatano, Y. *see* **Hatano, K.; et al.**, **93k:65014**
Mitsui, Taketomo *see* **Hatano, K.; et al.**, **93k:65014**
Naab, Karl (*with* Weyh, Bernhardt) Generalised Hill-method for stability analysis of periodic parameter-excited systems. (*see* **93b:65007**)
Shu, Chi-Wang *see* **Cai, Wei; et al.**, **93e:65021**
Taşeli, H. The influence of the boundedness of polynomial potentials on the spectrum of the Schrödinger equation. **93d:81037**
Weyh, Bernhardt *see* **Naab, Karl**, (**93b:65007**)

65T20 Discrete and fast Fourier transforms

An, Myoung (*with* Lu, Chun Qing; Prince, E.; Tolimieri, Richard) Fast Fourier transform algorithms for real and symmetric data. **93a:65185**
— *see also* **Tolimieri, Richard; et al.**, **93i:65131**
Ber, M. G. (*with* Malozëmov, V. N.) Best formulas for the approximate calculation of the discrete Fourier transform. (Russian. Russian summary) **93i:65130**
Boyd, John Philip Multipole expansions and pseudospectral cardinal functions: a new generalization of the fast Fourier transform. (English summary) **93h:65175**
Campos, R. G. (*with* Juárez, L. Z.) A discretization of the continuous Fourier transform. **93f:65097**
Chin, I Ming *see* **Wu, Chia Lin**, **93k:65114**
Chui, Charles K. On cardinal spline-wavelets. **93k:65112**
Date, Hikaru *see* **Furuya, Ken'ichi; et al.**
Duhamel, Pierre *see* **Rioul, Olivier**, **93b:65215**
Feig, Ephraim *see* **Linzer, Elliot**, **93d:65118**
Fukudome, Kimitoshi *see* **Furuya, Ken'ichi; et al.**
Furuya, Ken'ichi (*with* Date, Hikaru; Fukudome, Kimitoshi) Effects of finite register length in the fast Hartley transform.
Gorshkov, A. S. (*with* Kravchenko, V. F.; Rvachëv, V. A.; Rvachëv, V. L.) On a number-theoretic method for the fast Fourier transform in the Fermat ring. (Russian) **93g:65171**
Jacquemin, Michel *see* **Johnsson, S. Lennart; et al.**, **93h:65176**
Johnsson, S. Lennart (*with* Jacquemin, Michel; Krawitz, Robert L.) Communication efficient multi-processor FFT. (English summary) **93h:65176**
Juárez, L. Z. *see* **Campos, R. G.**, **93f:65097**
Kravchenko, V. F. *see* **Gorshkov, A. S.; et al.**, **93g:65171**
Krawitz, Robert L. *see* **Johnsson, S. Lennart; et al.**, **93h:65176**
Linzer, Elliot (*with* Feig, Ephraim) Modified FFTs for fused multiply-add architectures. **93d:65118**
Lu, Chao *see* **Tolimieri, Richard; et al.**, **93i:65131**
Lu, Chun Qing *see* **An, Myoung; et al.**, **93a:65185**
Malozëmov, V. N. *see* **Ber, M. G.**, **93i:65130**
Munthe-Kaas, Hans Superparallel FFTs. (English summary) **93k:65113**
Prince, E. *see* **An, Myoung; et al.**, **93a:65185**
Rioul, Olivier (*with* Duhamel, Pierre) Fast algorithms for discrete and continuous wavelet transforms. **93b:65215**
Rvachëv, V. A. *see* **Gorshkov, A. S.; et al.**, **93g:65171**
Rvachëv, V. L. *see* **Gorshkov, A. S.; et al.**, **93g:65171**
Sugiura, Hiroshi (*with* Torii, Tatsuo) Real fast Fourier transform on quasi-equidistant sample points. (English summary) **93j:65227**
Takatsuka, Kazuo Extraction of accurate frequencies from the fast Fourier transform spectra. (English summary) **93g:65172**
Tolimieri, Richard (*with* An, Myoung; Lu, Chao) ★ Algorithms for discrete Fourier transform and convolution. **93i:65131**
— *see also* **An, Myoung; et al.**, **93a:65185**
Torii, Tatsuo *see* **Sugiura, Hiroshi**, **93j:65227**
Van Loan, Charles ★ Computational frameworks for the fast Fourier transform. **93a:65186**
Wu, Chia Lin (*with* Chin, I Ming) A novel correlation-based FFT algorithm. (English and Chinese summaries) **93k:65114**
Yatsimirskii, M. N. Fast algorithms for a discrete cosine transformation. (Russian. Russian summary) **93m:65187**

Items with secondary classifications in 65T20

Bowen, H. Ferrel *see* **Sharafeddin, Omar A.; et al.**, **93c:65028**
Bracewell, Ronald N. ★ Преобразование Хартли. (Russian. Russian summary) [The Hartley transform] **93j:44001**
Buhler, J. P. (*with* Crandall, Richard E.; Sompolski, R. W.) Irregular primes to one million. **93a:11106**
Calvetti, Daniela A stochastic roundoff error analysis for the convolution. **93a:65061**
Crandall, Richard E. *see* **Buhler, J. P.; et al.**, **93a:11106**
Feig, Ephraim (*with* Winograd, Shmuel) On the multiplicative complexity of discrete cosine transforms. **93a:65188**
Granados, Bertha FFT method for biorthogonal expansion with respect to the integrated Walsh functions. **93c:42024**
Hallatschek, Klaus Fouriertransformation auf dünnen Gittern mit hierarchischen Basen. (English and German summaries) [Fourier transform on sparse grids with hierarchical bases] **93f:65014**
Hoffman, David K. *see* **Sharafeddin, Omar A.; et al.**, **93c:65028**
Jerri, Abdul J. ★ Integral and discrete transforms with applications and error analysis. **93m:44001**
Kouri, Donald J. *see* **Sharafeddin, Omar A.; et al.**, **93c:65028**
Linzer, Elliot On the stability of transform-based circular deconvolution. (English summary) **93e:65044**
(Pankov, A. I.) *see* **Bracewell, Ronald N.**, **93j:44001**

Renaut, Rosemary A. (*with* Woo, M. L.) Parallel pseudospectral methods for the solution of the wave equation. (English summary) (*see* **93d:73004**)
(Ryzhak, I. S.) *see* **Bracewell, Ronald N., 93j:44001**
Sharafeddin, Omar A. (*with* Bowen, H. Ferrel; Kouri, Donald J.; Hoffman, David K.) Numerical evaluation of spherical Bessel transforms via fast Fourier transforms. **93c:65028**
Sompolski, R. W. *see* **Buhler, J. P.; et al., 93a:11106**
Strain, John Fast potential theory. II. Layer potentials and discrete sums. **93b:65197**
Sweet, Roland A. Vectorization and parallelization of FISHPAK. (English summary) (*see* **93g:65178**)
Veselý, Vítězslav Algebraic theory of fast mixed-radix transforms. I. Generalized Kronecker product of matrices. (English summary) **93k:15024**
— Algebraic theory of fast mixed-radix transforms. II. Computational complexity and applications. (English summary) **93k:15025**
Walker, James Stephan ★ Fast Fourier transforms. **93g:00007**
Winograd, Shmuel *see* **Feig, Ephraim, 93a:65188**
Woo, M. L. *see* **Renaut, Rosemary A., (93d:73004)**
Zakharova, T. G. Calculation of the Fourier transform in fields of characteristic 2. (Russian. Russian summary) **93h:94007**
Zheludev, V. A. Periodic splines and the fast Fourier transform. (Russian) **93b:65021**

65T99 None of the above, but in this section

Haider, Q. (*with* Liu, L. C.) Fourier or Bessel transformations of highly oscillatory functions. (English summary)
Liu, L. C. *see* **Haider, Q.**
Maday, Yvon (*with* Ravel, Jean-Christophe) Adaptativité par ondelettes: conditions aux limites et dimensions supérieures. (English summary) [Adaptivity using wavelets: boundary conditions and multidimensions] **93e:65155**
Olde Daalhuis, A. B. Computing with Daubechies' wavelets. (English summary) **93e:65156**
Ravel, Jean-Christophe *see* **Maday, Yvon, 93e:65155**

Items with secondary classifications in 65T99

Bronnikov, A. V. Emission tomography for sources with self-absorption of radiation. (Russian)
Cloot, A. (*with* Weideman, J. A. C.) An adaptive algorithm for spectral computations on unbounded domains. (English summary) **93h:65124**
DeVore, Ronald A. (*with* Lucier, Bradley J.) Wavelets. **93g:42022**
Grünbaum, F. Alberto Diffuse tomography: the isotropic case. **93c:65021**
— (*with* Zubelli, Jorge P.) Diffuse tomography: computational aspects of the isotropic case. **93c:65022**
Jones, William B. (*with* Njåstad, Olav; Waadeland, Haakon) Asymptotics for Szegő polynomial zeros. (English summary) **93m:94002**
Lucier, Bradley J. Wavelets and image compression. (*see* **93d:65022**)
— *see also* **DeVore, Ronald A., 93g:42022**
McGarva, John (*with* Mullineux, Glen) Harmonic representation of closed curves. (English summary)
Mullineux, Glen *see* **McGarva, John**
Njåstad, Olav *see* **Jones, William B.; et al., 93m:94002**
Piessens, Robert *see* **Sweldens, Wim, 93g:94006**
Rand, O. Limit cycles and stability of highly nonlinear periodic systems by harmonic variables. (English summary) **93m:65108**
Sweldens, Wim (*with* Piessens, Robert) Calculation of the wavelet decomposition using quadrature formulae. (English summary) **93g:94006**
Waadeland, Haakon *see* **Jones, William B.; et al., 93m:94002**
Weideman, J. A. C. *see* **Cloot, A., 93h:65124**
Zubelli, Jorge P. *see* **Grünbaum, F. Alberto, 93c:65022**

65U05 Numerical methods in probability and statistics

Abate, Joseph (*with* Whitt, Ward) Numerical inversion of probability generating functions. (English summary) **93g:65173**
Anděl, Jiří (*with* Zvára, Karel) Simulation methods in time series. (*see* **93b:65007**)
Armstrong, Ronald D. *see* **Sklar, Michael G., 93i:65132**
Borel, J.-P. (*with* Pagès, G.; Xiao, Yi-Jun) Suites à discrépance faible et intégration numérique. [Low-discrepancy sequences and numerical integration] (*see* **93k:65002**)
Chang, Ruei Chuan *see* **Hwang, R. Z.; et al., 93m:65189**
Dalzell, C. J. (*with* Ramsay, James O.) Computing reproducing kernels with arbitrary boundary constraints. (English summary) **93m:65188**
van Dijk, Herman K. *see* **Hop, J. Peter, 93e:65157**
Dobronets, B. S. *see* **Gerasimov, V. A.; et al., 93b:65216**
Florchinger, Patrick Analyse numérique de l'équation de Zakai. [Numerical analysis of Zakai's equation] (*see* **93k:65002**)
Genz, Alan Statistics applications of subregion adaptive multiple numerical integration. (English summary) (*see* **93f:65006**)
Gerasimov, V. A. (*with* Dobronets, B. S.; Shustrov, M. Yu.) Numerical operations for histogram arithmetic and their applications. (Russian) **93b:65216**
Hanzon, Bernard (*with* Peeters, Ralf L. M.) On the Riemannian interpretation of the Gauss-Newton algorithm. (English summary) (*see* **93f:93005**)
Hop, J. Peter (*with* van Dijk, Herman K.) SISAM and MIXIN: two algorithms for the computation of posterior moments and densities using Monte Carlo integration. (English summary) **93e:65157**
Hwang, R. Z. (*with* Chang, Ruei Chuan; Lee, R. C. T.) The searching over separators strategy to solve some NP-hard problems in subexponential time. (English summary) **93m:65189**
Ivanov, V. V. *see* **Zrelov, P. V., 93k:65115**
Karmazina, V. V. *see* **Ligun, A. A., 93j:65228**
Lamberton, Damien (*with* Lapeyre, B.) Probabilités numériques et théorie des options. [Numerical probability and the theory of options] (*see* **93k:65002**)
Lapeyre, B. *see* **Lamberton, Damien, (93k:65002)**
Lee, R. C. T. *see* **Hwang, R. Z.; et al., 93m:65189**
Ligun, A. A. (*with* Karmazina, V. V.) Reconstruction of a probability distribution function by means of spline-normal distributions. (Russian. Russian summary) **93j:65228**
Makroglou, Athena Collocation methods for stochastic Volterra integro-differential equations with random forcing function. (English summary) **93h:65177**
Pagès, G. *see* **Borel, J.-P.; et al., (93k:65002)**
Peeters, Ralf L. M. *see* **Hanzon, Bernard, (93f:93005)**
Pinsky, Eugene A simple approximation for the Erlang loss function. (English summary) **93g:65174**
Qian, Zhong Fan An improvement of the stability of the LM algorithm. (Chinese. Chinese summary)
Ramsay, James O. *see* **Dalzell, C. J., 93m:65188**
Romera Ayllón, Ma. Rosario Time-average optimal controlled Markov processes with cost criterion. (*see* **93b:65007**)
Shustrov, M. Yu. *see* **Gerasimov, V. A.; et al., 93b:65216**
Singer, Hermann The aliasing-phenomenon in visual terms. (English summary)
Sklar, Michael G. (*with* Armstrong, Ronald D.) Lagrangian approach for large-scale least absolute value estimation. (English summary) **93i:65132**
Slabospits'kii, A. S. Conditions for the convergence of the method of least squares. (Russian) **93h:65178**
Subrahmanyam, V. *see* **Venugopal, N., (93b:00022)**
Temme, N. M. Asymptotic and numerical aspects of the noncentral chi-square distribution. (English summary) **93m:65190**
Venugopal, N. (*with* Subrahmanyam, V.) The CES method and its applications in computing and statistical contexts. (*see* **93b:00022**)
Wei, Gong Yi A numerical method for the noncentrality parameters of a noncentral distribution. (Chinese. English summary)
Whitt, Ward *see* **Abate, Joseph, 93g:65173**
Wolke, Ralf Iteratively reweighted least squares: a comparison of several single step algorithms for linear models. (English summary) **93g:65175**
Xiao, Yi-Jun *see* **Borel, J.-P.; et al., (93k:65002)**
Zrelov, P. V. (*with* Ivanov, V. V.) The distribution functions of the statistic $\omega_n^3 = n^{3/2}\int_{-\infty}^{\infty}[S_n(x) - P(x)]^3\,dP(x)$ for small n. (Russian. English and Russian summaries) **93k:65115**
Zvára, Karel *see* **Anděl, Jiří, (93b:65007)**

Items with secondary classifications in 65U05

Abate, Joseph (*with* Whitt, Ward) Solving probability transform functional equations for numerical inversion. (English summary) **93i:60163**
Agarwal, Manju *see* **Chaudhry, Mohan L.; et al., 93b:60207**
Alon, Noga (*with* Goldreich, Oded; Håstad, Johan; Peralta, René) Simple constructions of almost k-wise independent random variables. **93a:65008**
Arsenin, V. Ya. (*with* Kryanev, A. V.) Generalized maximum likelihood method and its application for solving ill-posed problems. (English summary) (*see* **93m:00041**)
Asmussen, Søren (*with* Rubinstein, Reuven Y.) The efficiency and heavy traffic properties of the score function method in sensitivity analysis of queueing models. **93d:60152**
Beidas, Bassem F. (*with* Papavassilopoulos, George P.) Convergence analysis of asynchronous linear iterations with stochastic delays. (English summary) **93k:65117**
(Bouleau, Nicolas) *see* **Numerical probability, 93k:65002**
Byrne, Charles L. (*with* Haughton, Dominique; Jiang, Jyh-Ming) High-resolution inversion of the discrete Poisson and binomial transformations. (English summary) **93k:62048**
Carroll, Raymond J. (*with* van Rooij, Arnoud C. M.; Ruymgaart, Frits H.) Theoretical aspects of ill-posed problems in statistics. **93a:62049**
Catoni, Olivier (*with* Trouvé, Alain) Parallel annealing by multiple trials: a mathematical study. **93j:65006**
Chaudhry, Mohan L. (*with* Agarwal, Manju; Templeton, James G. C.) Exact and approximate numerical solutions of steady-state distributions arising in the queue $GI/G/1$. **93b:60207**
Choi, Bong Dae (*with* Shin, Yang Woo) Approximation analysis of time-dependent queue size distribution for $GI/G/m$ system using diffusion process. (*see* **93k:00029**)
Cohen, Joel E. (*with* Liggett, Thomas M.) Random arithmetic-geometric means and random pi: observations and conjectures. **93f:60098**
Doerschuk, Peter C. *see* **Gelfand, Saul B.; et al., (93m:00047)**
Fang, Kai Tai (*with* Wang, Yuan[1]) A sequential algorithm for optimization and its applications to regression analysis. (English summary) **93e:90045**
— *see also* **Wang, Yuan[1], 93g:65088** *and* **(93d:00033)**
Feng, Jian Feng (*with* Lei, Gong Yan; Qian, Min Ping) Second-order methods for solving stochastic differential equations. (English summary) **93j:60074**
Fleming, Wendell H. (*with* Zhang, Qing[1]) Piecewise monotone filtering with small observation noise: numerical simulations. **93c:93049**
Florchinger, Patrick (*with* Le Gland, François) Particle approximation for first order stochastic partial differential equations. **93f:35252**
Gelfand, Saul B. (*with* Doerschuk, Peter C.; Nahhas-Mohandes, Mohamed) Simulated annealing algorithms for continuous optimization. (English summary) (*see* **93m:00047**)
van Ginneken, L. P. P. P. *see* **Otten, R. H. J. M., 93h:90001**
Goldreich, Oded *see* **Alon, Noga; et al., 93a:65008**
Golec, J. (*with* Ladde, G. S.) On an approximation method for a class of stochastic singularly perturbed systems. (English summary) **93j:60076**
Grassmann, Winfried K. *see* **Taksar, Michael I., 93a:60098**
Green, Peter J. (*with* Han, Xiao-liang) Metropolis methods, Gaussian proposals and antithetic variables. (English summary) (*see* **93e:62005**)
Haario, Heikki (*with* Saksman, Eero) Weak convergence of the simulated annealing process in general state space. **93d:60109**
Han, Xiao-liang *see* **Green, Peter J., (93e:62005)**
Harris, Carl M. (*with* Marchal, William G.; Tibbs, Richard W.) An algorithm for finding characteristic roots of quasi-triangular Markov chains. (English summary) (*see* **93i:60006**)
Håstad, Johan *see* **Alon, Noga; et al., 93a:65008**
Haughton, Dominique *see* **Byrne, Charles L.; et al., 93k:62048**

Huestis, Stephen P. The Backus-Gilbert problem for sampled band-limited functions. (English summary) **93k:86001**
Jensen, Søren Tolver (*with* Johansen, Søren; Lauritzen, Steffen L.) Globally convergent algorithms for maximizing a likelihood function. **93c:62040**
Jiang, Jyh-Ming *see* **Byrne, Charles L.; et al., 93k:62048**
Johansen, Søren *see* **Jensen, Søren Tolver; et al., 93c:62040**
Kabanovich, V. I. (*with* Kurbatov, A. M.) Computation of a lattice function. (Russian) **93i:65036**
Kao, Edward P. C. Using state reduction for computing steady state vectors in Markov chains of $M/G/1$ type. **93b:60218**
Kárný, Miroslav (*with* Nagy, Ivan) Recursive least squares approximation of Bayesian non-Gaussian/nonlinear estimation. (English summary) **93h:93074**
Kijima, Masaaki *see* **Sumita, Ushio, 93b:65203**
Kloeden, P. E. (*with* Platen, Eckhard) Higher-order implicit strong numerical schemes for stochastic differential equations. **93e:60111**
Kozachenko, L. F. *see* **Kozachenko, Yu. V., 93c:60052**
Kozachenko, Yu. V. (*with* Kozachenko, L. F.) On the accuracy of modeling stationary Gaussian random processes in $L^2(0, T)$. (Russian) **93c:60052**
Kryanev, A. V. *see* **Arsenin, V. Ya., (93m:00041)**
Kurbatov, A. M. *see* **Kabanovich, V. I., 93i:65036**
Kushner, Harold J. (*with* Martins, Luiz F.) A numerical method for stochastic singular control problems with nonadditive controls. **93e:93068**
Ladde, G. S. *see* **Golec, J., 93j:60076**
Langtangen, Hans Petter Stochastic breakthrough time analysis of an enhanced oil recovery process. (English summary)
Lauritzen, Steffen L. *see* **Jensen, Søren Tolver; et al., 93c:62040**
Le Gland, François *see* **Florchinger, Patrick, 93f:35252**
Lehtonen, Tapani (*with* Nyrhinen, Harri) Simulating level-crossing probabilities by importance sampling. (English summary) **93j:65009**
Lei, Gong Yan *see* **Feng, Jian Feng; et al., 93j:60074**
Lépingle, Dominique Un schéma d'Euler pour équations différentielles stochastiques réfléchies. (English and French summaries) [An Euler scheme for stochastic differential equations with reflecting boundary conditions] **93k:60146**
Lětchikov, A. V. Asymptotic properties that hold with probability 1 for one-dimensional random walks in a random environment. (Russian) **93e:60141**
Liggett, Thomas M. *see* **Cohen, Joel E., 93f:60098**
Mandl, Petr On evaluating the performance of self-tuning regulators. (*see* **93b:65007**)
Marchal, William G. *see* **Harris, Carl M.; et al., (93i:60006)**
Marron, J. Stephen (*with* Wand, M. P.) Exact mean integrated squared error. **93f:62056**
Martins, Luiz F. *see* **Kushner, Harold J., 93e:93068**
Mikulevičius, Remigius (*with* Platen, Eckhard) Rate of convergence of the Euler approximation for diffusion processes. **93b:60122**
Myers, Donald E. Multidimensional multivariable smoothing. (English summary) (*see* **93g:62004**)
Nagy, Ivan *see* **Kárný, Miroslav, 93h:93074**
Nahhas-Mohandes, Mohamed *see* **Gelfand, Saul B.; et al., (93m:00047)**
Novak, Erich Optimal linear randomized methods for linear operators in Hilbert spaces. **93f:65048**
Nyrhinen, Harri *see* **Lehtonen, Tapani, 93j:65009**
Otten, R. H. J. M. (*with* van Ginneken, L. P. P. P.) ★ The annealing algorithm. **93h:90001**
Papavassilopoulos, George P. *see* **Beidas, Bassem F., 93k:65117**
Peralta, René *see* **Alon, Noga; et al., 93a:65008**
Petruccione, Francesco *see* **Seesselberg, Markus, 93k:65101**
Pettersson, Roger Stratonovich-Taylor expansion and numerical methods. (English summary) **93k:60150**
Plaskota, L. Function approximation and integration on the Wiener space with noisy data. (English summary) **93m:65016**
Platen, Eckhard *see* **Mikulevičius, Remigius, 93b:60122** *and* **Kloeden, P. E., 93e:60111**
Qian, Min Ping *see* **Feng, Jian Feng; et al., 93j:60074**
Rejtő, Lidia (*with* Walter, Gilbert G.) Remarks on projection pursuit regression and density estimation. **93f:62086**
van Rooij, Arnoud C. M. *see* **Carroll, Raymond J.; et al., 93a:62049**
Rubinstein, Reuven Y. *see* **Asmussen, Søren, 93d:60152**
Ruymgaart, Frits H. *see* **Carroll, Raymond J.; et al., 93a:62049**
Saksman, Eero *see* **Haario, Heikki, 93d:60109**
Seesselberg, Markus (*with* Petruccione, Francesco) Numerical integration of stochastic partial differential equations. (English summary) **93k:65101**
Sher, David B. A computational normative theory of scientific evidence. **93f:68083**
Shin, Yang Woo *see* **Choi, Bong Dae, (93k:00029)**
Sumita, Ushio (*with* Kijima, Masaaki) Theory and algorithms of the Laguerre transform. II. Algorithm. **93b:65203**
Sun, Jia Yang Some practical aspects of exploratory projection pursuit. (English summary) **93m:65009**
Taksar, Michael I. (*with* Grassmann, Winfried K.) Probabilistic approach to computational algorithms for finding stationary distributions of Markov chains. **93a:60098**
Talay, Denis Approximation et simulation de solutions d'EDS. [Approximation and simulation of solutions of SDE] (*see* **93k:65002**)
— *see also* **Numerical probability, 93k:65002**
Templeton, James G. C. *see* **Chaudhry, Mohan L.; et al., 93b:60207**
Tibbs, Richard W. *see* **Harris, Carl M.; et al., (93i:60006)**
Trouvé, Alain Massive parallelization of simulated annealing: a mathematical study. **93j:65007**
— *see also* **Catoni, Olivier, 93j:65006**
Tudor, M. Approximation schemes for stochastic equations with hereditary argument. (Romanian. English and Romanian summaries) **93i:60121**
— Some second-order approximation schemes for stochastic equations with hereditary argument. (Romanian. English and Romanian summaries) **93i:60122**
Walter, Gilbert G. *see* **Rejtő, Lidia, 93f:62086**
Wand, M. P. *see* **Marron, J. Stephen, 93f:62056**
Wang, Yuan[1] (*with* Fang, Kai Tai) Number-theoretic method in applied statistics. I, II. (English summary) (*see* **93d:00033**)
— (*with* Fang, Kai Tai) A sequential number-theoretic method for optimization and its applications in statistics. **93g:65088**
— *see also* **Fang, Kai Tai, 93e:90045**
Weba, Michael Simulation and approximation of stochastic processes by spline functions. (English summary) **93f:60075**
Westerdale, T. H. Quasimorphisms or queasymorphisms? Modeling finite automaton environments. **93d:65013**
Whitt, Ward *see* **Abate, Joseph, 93i:60163**
Zhang, Qing[1] *see* **Fleming, Wendell H., 93c:93049**

Items listed otherwise than by author

Numerical probability ★ Probabilités numériques. (French) [Numerical probability] **93k:65002**
Probabilités numériques ★ Probabilités numériques. (French) [Numerical probability] **93k:65002**

65Yxx Computer aspects of numerical algorithms

Items with secondary classifications in 65Yxx

Killingbeck, John P. ★ Microcomputer algorithms.

65Y05 Parallel computation

Aiello, William *see* **Ogielski, Andrew T.**
Alvarado, Fernando L. (*with* Schreiber, Robert) Fast parallel solution of sparse triangular systems. (English summary) (*see* **93j:00007**)
Amodio, P. Optimized cyclic reduction for the solution of linear tridiagonal systems on parallel computers. (English summary)
Apostolopoulos, Theodore (*with* Dassios, George) A parallel algorithm for solving the inverse scattering moment problem. (English summary)
Atallah, Mikhail J. (*with* Kosaraju, S. Rao) An efficient parallel algorithm for the row minima of a totally monotone matrix. (English summary) **93d:65119**
Auslander, Louis (*with* Tsao, Anna) On parallelizable eigensolvers. **93f:65098**
Babuška, Ivo M. (*with* Elman, H. C.; Markley, K.) Parallel implementation of the *hp*-version of the finite element method on a shared-memory architecture. (English summary) **93h:65179**
Basermann, A. (*with* Weidner, Peter) A parallel algorithm for determining all eigenvalues of large real symmetric tridiagonal matrices. (English summary)
Basu, Arup *see* **Kumar, P. Sreenivasa; et al., 93g:65177**
Bernat, Andrew *see* **Kreinovich, V. Ya.; et al., 93e:65160**
Bjørstad, P. E. (*with* Skogen, M. D.) Domain decomposition algorithms of Schwarz type, designed for massively parallel computers. (English summary) (*see* **93g:65009**)
Bohlender, Gerd (*with* Wolff von Gudenberg, Jürgen) Accurate matrix multiplications on the array computer AMT/DAP. (English summary) (*see* **93e:00022**)
Buoni, John J. (*with* Farrell, Paul A.; Ruttan, Arden) Parallel LU decomposition of upper Hessenberg matrices on a shared memory multiprocessor. (English summary) (*see* **93j:00007**)
Burkhardt, S. (*with* Drey, K.-D.) Massive parallel computers and their application in simulation. (*see* **93e:00021**)
Chu, Eleanor (*with* George, Alan) Parallel algorithms and subcube embedding on a hypercube. (English summary) **93i:65133**
Conforti, D. (*with* De Luca, L.; Musmanno, R.) Unconstrained optimization on vector-parallel computers. (English summary) (*see* **93j:00007**)
Dackland, Krister (*with* Elmroth, Erik; Kågström, Bo; Van Loan, Charles) Design and evaluation of parallel block algorithms: LU factorization on an IBM 3090 VF/600J. (English summary) (*see* **93g:65178**)
Dassios, George *see* **Apostolopoulos, Theodore**
De Luca, L. *see* **Conforti, D.; et al., (93j:00007)**
De Meyer, H. (*with* Niyokindi, C.; Vanden Berghe, Guido) The implementation of parallel Gram-Schmidt orthogonalisation algorithms on a ring of transputers. (English summary)
Dodson, David S. (*with* Levin, Stewart A.) A tricyclic tridiagonal equation solver. (English summary) **93g:65176**
Dongarra, Jack J. (*with* van de Geijn, Robert A.) Reduction to condensed form for the eigenvalue problem on distributed memory architectures. (English summary)
— *see also* **Parallel processing for scientific computing, 93g:65178**
Drey, K.-D. *see* **Burkhardt, S., (93e:00021)**
El Attar, M. Finite element analysis on distributed memory architectures. (English summary)
Elman, H. C. *see* **Babuška, Ivo M.; et al., 93h:65179**
Elmroth, Erik *see* **Dackland, Krister; et al., (93g:65178)**
Erëmin, A. Yu. *see* **Simon, Horst D., (93k:65003)**
Evans, David J. Design of parallel numerical algorithms. (English summary) (*see* **93f:00016**)
Farrell, Paul A. *see* **Buoni, John J.; et al., (93j:00007)**
Freund, Roland W. (*with* Hochbruck, M.) A biconjugate gradient-type algorithm for the iterative solution of non-Hermitian linear systems on massively parallel architectures. (English summary) (*see* **93j:00007**)
Frommer, Andreas (*with* Mayer, Günter) On the theory and practice of multisplitting methods in parallel computation. (English and German summaries) **93e:65158**
Gasparo, M. G. (*with* Macconi, M.) Parallel initial value algorithms for singularly perturbed boundary value problems. **93b:65217**
van de Geijn, Robert A. *see* **Dongarra, Jack J.**
George, Alan *see* **Chu, Eleanor, 93i:65133**
Gillies, Donald William A new heuristic for UET and pipeline scheduling. (English summary) (*see* **93k:65003**)
Giraud, L. (*with* Spiteri, P.) Implementations of parallel solutions for nonlinear boundary value problems. (English summary) (*see* **93f:00016**)

Gladwell, Ian (*with* Paprzycki, Marcin) Parallel solution of almost block diagonal systems on the CRAY Y-MP using level 3 BLAS. (English summary) **93h:65180**

Gropp, William D. Parallel computing and domain decomposition. (English summary) **93h:65180**

Grosch, C. E. *see* **Gupta, Saxya Narayan; et al.**

Gupta, Saxya Narayan (*with* Zubair, M.; Grosch, C. E.) A multigrid algorithm for parallel computers: CPMG. (English summary)

Hochbruck, M. *see* **Freund, Roland W.,** (93j:00007)

Hutchinson, D. *see* **Khalaf, B. M. S., 93b:65218**

Jiang, Peiqing *see* **Taha, Thiab R.,** (93k:65003)

Jiang, Zeng Rong *see* **Li, Xiao Mei, 93k:65116**

Kågström, Bo *see* **Dackland, Krister; et al.,** (93g:65178)

(Kennedy, Ken) *see* **Parallel processing for scientific computing, 93g:65178**

Khalaf, B. M. S. (*with* Hutchinson, D.) Parallel algorithms for initial value problems: parallel shooting. **93b:65218**

Kolp, Otto A mapping of multi-level problems to multi-dimensional crossbar networks. (English summary) **93e:65159**

Kosaraju, S. Rao *see* **Atallah, Mikhail J., 93d:65119**

Kreinovich, V. Ya. (*with* Bernat, Andrew; Villa, Elsa; Mariscal, Yvonne) Parallel computers. Estimate errors caused by imprecise data. (English and Russian summaries) **93e:65160**

Kumar, M. Kishore *see* **Kumar, P. Sreenivasa; et al., 93g:65177**

Kumar, P. Sreenivasa (*with* Kumar, M. Kishore; Basu, Arup) A parallel algorithm for elimination tree computation and symbolic factorization. (English summary) **93g:65177**

Levin, Stewart A. *see* **Dodson, David S., 93g:65176**

Li, Xiao Mei (*with* Jiang, Zeng Rong) ★ Bingxing suanfa. (Chinese. English and Chinese summaries) [Parallel algorithms] **93k:65116**

Linden, Johannes (*with* Schüller, A.; Trottenberg, U.) Methodological aspects of high performance scientific computing. (English summary) (*see* **93e:00021**)

Loyens, Ludovicus Daniël Joseph Carolus ★ A design method for parallel programs. **93f:65099**

Lozier, D. W. (*with* Turner, Peter R.) Robust parallel computation in floating-point and SLI arithmetic. (English and German summaries) **93e:65161**

Macconi, M. *see* **Gasparo, M. G., 93b:65217**

Mariscal, Yvonne *see* **Kreinovich, V. Ya.; et al., 93e:65160**

Markley, K. *see* **Babuška, Ivo M.; et al., 93h:65179**

Mayer, Günter *see* **Frommer, Andreas, 93e:65158**

Mehrmann, Volker Divide and conquer methods for block tridiagonal systems. (English summary) **93j:65229**

(Messina, Paul) *see* **Parallel processing for scientific computing, 93g:65178**

Molchanov, I. N. (*with* Reshetukha, I. V.; Rudich, O. V.; Semenchenko, S. P.) ★ Методы решения больших разреженных систем уравнений на многопроцессорном вычислительном комплексе (МВК). (Russian. Russian summary) [Methods for solving large sparse systems of equations on a multiprocessor computer system (MCS)] **93f:65100**

Mu, Mo (*with* Rice, John R.) An organization of sparse Gauss elimination for solving partial differential equations on distributed memory machines. (English summary)

Musmanno, R. *see* **Conforti, D.; et al.,** (93j:00007)

Niyokindi, C. *see* **De Meyer, H.; et al.**

Ogielski, Andrew T. (*with* Aiello, William) Sparse matrix computations on parallel processor arrays. (English summary)

Paprzycki, Marcin *see* **Gladwell, Ian**

Reith, Roman Verified solutions of linear systems on transputer networks. (English summary) (*see* **93e:00022**)

Reshetukha, I. V. *see* **Molchanov, I. N.; et al., 93f:65100**

Rice, John R. *see* **Mu, Mo**

Rudich, O. V. *see* **Molchanov, I. N.; et al., 93f:65100**

Ruttan, Arden *see* **Buoni, John J.; et al.,** (93j:00007)

Sbosny, Hannes Parallel multigrid methods on composite meshes. (English summary) (*see* **93g:65009**)

Schreiber, Robert *see* **Alvarado, Fernando L.,** (93j:00007)

Schüller, A. *see* **Linden, Johannes; et al.,** (93e:00021)

Semenchenko, S. P. *see* **Molchanov, I. N.; et al., 93f:65100**

Sergeev, Ya. D. *see* **Strongin, R. G., 93i:65134**

Simon, Horst D. (*with* Erëmin, A. Yu.) A new approach to construction of efficient iterative schemes for massively parallel applications: variable block CG and BiCG methods and variable block Arnoldi procedure. (English summary) (*see* **93k:65003**)

Skogen, M. D. *see* **Bjørstad, P. E.,** (93g:65009)

(Sorensen, Danny C.) *see* **Parallel processing for scientific computing, 93g:65178**

Spiteri, P. *see* **Giraud, L.,** (93f:00016)

Strongin, R. G. (*with* Sergeev, Ya. D.) Global multidimensional optimization on parallel computer. (English summary) **93i:65134**

Sweet, Roland A. Vectorization and parallelization of FISHPAK. (English summary) (*see* **93g:65178**)

Taha, Thiab R. (*with* Jiang, Peiqing) A parallel algorithm for solving periodic tridiagonal Toeplitz linear systems. (English summary) (*see* **93k:65003**)

Tchuente, Maurice ★ Parallel computation on regular arrays. **93h:65181**

Trottenberg, U. *see* **Linden, Johannes; et al.,** (93e:00021)

Tsao, Anna *see* **Auslander, Louis, 93f:65098**

Tsao, Nai Kuan On the accuracy of solving triangular systems in parallel. II. **93b:65219**

Turner, Peter R. *see* **Lozier, D. W., 93e:65161**

Vanden Berghe, Guido *see* **De Meyer, H.; et al.**

Van Loan, Charles *see* **Dackland, Krister; et al.,** (93g:65178)

Villa, Elsa *see* **Kreinovich, V. Ya.; et al., 93e:65160**

Voevodin, V. V. ★ Mathematical foundations of parallel computing. **93j:65230**

(Voigt, Robert G.) *see* **Parallel processing for scientific computing, 93g:65178**

Wallace, D. J. Massively parallel computing: status and prospects. (*see* **93b:00026**)

Weidner, Peter *see* **Basermann, A.**

Wolff von Gudenberg, Jürgen *see* **Bohlender, Gerd,** (93e:00022)

Wright, Ken Parallel treatment of block-bidiagonal matrices in the solution of ordinary differential boundary value problems. (English summary)

Zubair, M. *see* **Gupta, Saxya Narayan; et al.**

Items listed otherwise than by author

Conference:

Parallel Processing for Scientific Computing ★ Parallel processing for scientific computing. **93g:65178**

Houston, TX ★ Parallel processing for scientific computing. **93g:65178**

Parallel processing for scientific computing ★ Parallel processing for scientific computing. **93g:65178**

Items with secondary classifications in 65Y05

Agekyan, G. V. *see* **Nersesyan, A. B., 93j:65062**

Alaghband, Gita Solution of structurally identical sparse linear systems based on a parallel pivoting technique. (English summary) (*see* **93g:65178**)

Aluru, Srinivas (*with* Prabhu, G. M.; Gustafson, John) A random number generator for parallel computers. (English summary) **93e:65008**

Alvarado, Fernando L. (*with* Schreiber, Robert) Optimal parallel solution of sparse triangular systems. (English summary)

Amitai, Dganit (*with* Averbuch, Amir; Itzikowitz, Samuel; Israeli, Moshe) Parallel adaptive and time-stabilizing schemes for constant-coefficient parabolic PDEs. (English summary)

Amodio, P. (*with* Brugnano, L.) Parallel factorizations and parallel solvers for tridiagonal linear systems. **93b:15014**

Averbuch, Amir *see* **Amitai, Dganit; et al.**

Bai, Zhao Jun (*with* Hu, D. Y.; Reichel, Lothar) An implementation of the GMRES method using *QR* factorization. (English summary) (*see* **93g:65178**)

Barlow, Jesse L. *see* **Lu, Szu-Min,** (93k:65003)

Bar-On, Ilan (*with* Sidi, Avram) New algorithms for polynomial and trigonometric interpolation on parallel computers. (English summary) **93e:65014**

Bayoumi, M. *see* **Hu, Chen-Yi; et al.,** (93g:65178)

Beattie, Christopher (*with* Ribbens, Calvin J.) Parallel solution of a generalized symmetric matrix eigenvalue problem. (English summary) (*see* **93g:65178**)

(Bellen, Alfredo) *see* **Parallel methods for ordinary differential equations, 93f:65008**

Berry, Michael W. (*with* Golub, Gene H.) Estimating the largest singular values of large sparse matrices via modified moments. **93a:65046**

Bertocchi, Maria (*with* Cavalli, Enrico; Zambruno, Giovanni) Parallel and symbolic computation in finance. (English summary) (*see* **93g:65178**)

Blum, Heribert (*with* Lisky, S.; Rannacher, Rolf) A domain splitting algorithm for parabolic problems. (English and German summaries) **93f:65071**

Bruch, J. C., Jr. *see* **Wang, K.-P.**

Brugnano, L. *see* **Amodio, P., 93b:15014**

Brunet, Jean-Philippe *see* **Sethian, James A.; et al., 93d:76051**

Bultheel, Adhemar *see* **Van Barel, Marc, 93f:65020**

Burrage, Kevin Parallel methods for initial value problems. (English summary) **93i:65069**

— The search for the Holy Grail, or: Predictor-corrector methods for solving ODEIVPs. **93k:65059**

Byrd, Richard H. *see* **Zhang, Xiaodong[1]; et al., 93b:65076**

Cabaleiro, J. C. (*with* Rivera, F. F.; Plata, O. G.; Zapata, E. L.) A parallel algorithm for Householder's tridiagonalization of a symmetric matrix.

Calzada Canalejo, M. C. *see* **Cruz Soto, J. L.; et al.**

Carey, Graham *see* **Stagg, A. K.,** (93g:65178) *and* **Joubert, Wayne; et al.,** (93g:65178)

Cavallaro, Joseph R. *see* **Deo, Arati S.; et al.,** (93g:65178)

Cavalli, Enrico *see* **Bertocchi, Maria; et al.,** (93g:65178)

Charrier, P. (*with* Roman, J.) Study of an adaptive blocking for a parallel nested dissection algorithm. (English summary) (*see* **93g:65178**)

Chen, Li Rong *see* **Li, Shou Fo,** (93d:65004)

Chen, Po-Shu *see* **Farhat, Charbel; et al.**

Chen, Yung Ming *see* **Zhu, Jian-Ping[2]** *and* (93g:65178)

Chern, I-Liang (*with* Foster, Ian) Parallel implementation of a control volume method for solving PDEs on the sphere. (English summary) (*see* **93g:65178**)

Chronopoulos, Anthony T. (*with* Pernice, Michael) Vector preconditioned *s*-step methods on the IBM 3090/600S/6VF. (English summary) (*see* **93g:65178**)

— *see also* **Kim, Sung Kwon, 93h:65050**

Chung, S. L. (*with* Hanson, F. B.; Xu, H. H.) Parallel stochastic dynamic programming: finite element methods. **93c:90049**

Coleman, Thomas F. (*with* Plassmann, Paul E.) A parallel nonlinear least-squares solver: theoretical analysis and numerical results. **93a:65068**

Cowsar, Lawrence C. (*with* Weiser, Alan; Wheeler, Mary Fanett) Parallel multigrid and domain decomposition algorithms for elliptic equations. (English summary) (*see* **93g:65009**)

— (*with* Dean, E. J.; Glowinski, Roland; Le Tallec, Patrick; Li, Chin Hsien; Périaux, Jacques; Wheeler, Mary Fanett) Decomposition principles and their applications in scientific computing. (English summary) **93j:65200**

Cruz Soto, J. L. (*with* Calzada Canalejo, M. C.; Marín Beltrán, M.; Fernández Cara, Enrique) A parallel algorithm for solving the incompressible Navier-Stokes problem. (English summary)

Daoudi, E. M. (*with* Manneback, P.) Parallel ICCG algorithm on distributed memory architecture. (English summary) (*see* **93g:65178**)

Darling, James P. (*with* Mayergoyz, Isaak D.) Data parallel algorithms for the numerical modeling of semiconductor devices. (English summary) (*see* **93g:65178**)

Dawson, Clint N. The performance of an explicit/implicit domain decomposition procedure for parabolic equations on an Intel Hypercube. (English summary) (*see* **93g:65009**)

Dean, E. J. *see* **Cowsar, Lawrence C.; et al., 93j:65200**

Dendy, J. E., Jr. (*with* Ida, M. P.; Rutledge, J. M.) A semicoarsening multigrid algorithm for SIMD machines. (English summary)

Dennis, John E., Jr. (*with* Martínez, José Mario; Zhang, Xiaodong[1]) Parallel block triangular decompositions for solving sparse nonlinear systems of equations. (English summary) (*see* **93g:65178**)

Deo, Arati S. (*with* Cavallaro, Joseph R.; Walker, Ian D.) New real-time robot motion algorithms using parallel VLSI architectures. (English summary) (*see* **93g:65178**)

De Valerio, M. (*with* Schäfer, Michael) Domain decomposition methods for the numerical solution of elliptic partial differential equations on array processors. (English summary) (*see* **93f:00016**)

Dixon, L. C. W. On the impact of automatic differentiation on the relative performance of parallel truncated Newton and variable metric algorithms. **93c:90079**

— (*with* Jha, M.) The parallel truncated Newton method implemented on a multitransputer network. (English summary) (*see* **93f:00016**)

Doi, Shun A Gustafsson-type modification for parallel ordered incomplete *LU* factorizations. (English summary) (*see* **93e:65040**)

— *see also* **Washio, T.; et al.**, (**93f:65027**)

de Doncker-Kapenga, Elise (*with* Vakalis, Ignatios) Convergence results and speedup of parallel numerical integration algorithms. (English summary) (*see* **93k:65003**)

Dongarra, Jack J. (*with* Sidani, M.) A parallel algorithm for the nonsymmetric eigenvalue problem. (English summary) (*see* **93b:65005**)

Douglas, Craig C. (*with* Douglas, Jim, Jr.) A greatly simplified theory for parallel multigrid or projection methods. (English summary) (*see* **93g:65178**)

— (*with* Mandel, Jan) An abstract theory for the domain reduction method. (German summary) **93b:65162**

Douglas, Jim, Jr. *see* **Douglas, Craig C.**, (**93g:65178**)

Erëmin, A. Yu. *see* **Kolotilina, L. Yu.**, **93m:65061**

Farhat, Charbel (*with* Chen, Po-Shu; Roux, François-Xavier) The dual Schur complement method with well-posed local Neumann problems: regularization with a perturbed Lagrangian formulation. (English summary)

Fernández Cara, Enrique *see* **Cruz Soto, J. L.; et al.**

Fischer, Paul F. Analysis and application of a parallel spectral element method for the solution of the Navier-Stokes equations. (English summary) (*see* **93d:65005**)

Foster, Ian (*with* Gropp, William D.; Stevens, Rick L.) Parallel scalability of the spectral transform method. (English summary) (*see* **93g:65178**)

— *see also* **Chern, I-Liang**, (**93g:65178**)

Fox, Geoffrey C. Approaches to physical optimization. (English summary) (*see* **93g:65178**)

Galligani, Emanuele (*with* Ruggiero, Valeria) Computation of minimal eigenpair in the large sparse generalized eigen-problem using vector computers. (English summary) (*see* **93f:00016**)

— *see also* **Ruggiero, Valeria**, **93b:65060**

Gallopoulos, E. (*with* Saad, Youcef) Efficient solution of parabolic equations by Krylov approximation methods. (English summary) **93d:65085**

Gear, C. W. Massive parallelism across space in ODEs. (English summary) **93m:65088**

— (*with* Xu, Xu Hai) Parallelism across time in ODEs. (English summary) **93m:65089**

van de Geijn, Robert A. Deferred shifting schemes for parallel *QR* methods. (English summary) **93k:65031**

Geist, G. A. (*with* Jessup, E. R.) Parallel implementation of a nonsymmetric tridiagonal eigensolver. (English summary) (*see* **93g:65178**)

Glowinski, Roland *see* **Cowsar, Lawrence C.; et al.**, **93j:65200**

Glynn, Peter W. (*with* Heidelberger, Philip) Analysis of initial transient deletion for parallel steady-state simulations. **93c:68110**

de Goede, Erik D. Numerical methods for the 3D shallow water equations on vector and parallel computers. **93d:76047**

Golub, Gene H. *see* **Berry, Michael W.**, **93a:65046**

Gomes, F. A. M. (*with* Martínez, José Mario) Parallel implementations of Broyden's method. (German summary) **93a:65070**

Gordon, V. S. Parallel algorithms for solving problems in scheduling theory. (Russian. Russian summary) **93f:90089**

Goto, Akira (*with* Mitsui, Taketomo) Implicit RK formula for parallel computers. (English summary) (*see* **93f:65027**)

Greenberg, Adam *see* **Sethian, James A.; et al.**, **93d:76051**

Gropp, William D. (*with* Keyes, David E.) Domain decomposition with local mesh refinement. **93b:65189**

— *see also* **Foster, Ian; et al.**, (**93g:65178**)

Guan, Xiaojun (*with* Mural, Richard; Mann, Reinhold; Uberbacher, Edward) On parallel search of DNA sequence databases. (English summary) (*see* **93g:65178**)

Guarnaccia, J. F. (*with* Pinder, G. F.) A collocation based parallel algorithm to solve two phase flow and transport problems in porous media. (English summary) (*see* **93g:65178**)

Gustafson, John *see* **Aluru, Srinivas; et al.**, **93e:65008**

Hackbusch, Wolfgang A parallel conjugate gradient method. (English summary) **93k:65027**

Hanson, F. B. *see* **Chung, S. L.; et al.**, **93c:90049**

Heidelberger, Philip *see* **Glynn, Peter W.**, **93c:68110**

Heinreichsberger, O. (*with* Selberherr, S.; Stiftinger, M.) Three-dimensional MOS device simulation on a connection machine. (English summary) (*see* **93g:65178**)

Henkel, C. S. *see* **Sarsour, H. N.; et al.**, (**93g:65178**)

Henley, Gregory J. (*with* Janus, J. Mark) Parallelization and convergence of a 3D implicit unsteady turbomachinery flow code. (English summary) (*see* **93g:65178**)

Highnam, Peter *see* **Joubert, Wayne; et al.**, (**93g:65178**)

Hodel, A. Scottedward (*with* Poolla, Kameshwar) Parallel solution of large Lyapunov equations. (English summary) **93e:65042**

Hoffmann, Karl-Heinz[1] (*with* Zou, Jun) Parallel algorithms of Schwarz variant for variational inequalities. (English summary) **93k:65050**

van der Houwen, P. J. (*with* Sommeijer, B. P.) Analysis of parallel diagonally implicit iteration of Runge-Kutta methods. (English summary) **93i:65075**

— Parallel step-by-step methods. (English summary) **93j:65103**

Howell, Gary W. *see* **Sen, Syamal Kumar**, **93k:65025**

Hu, Chen-Yi (*with* Bayoumi, M.; Kearfott, Ralph Baker; Yang, Qing) A parallelized algorithm for the all-row preconditioned interval Newton/generalized bisection method. (English summary) (*see* **93g:65178**)

Hu, D. Y. (*with* Reichel, Lothar) Krylov-subspace methods for the Sylvester equation. **93c:65041**

— *see also* **Bai, Zhao Jun; et al.**, (**93g:65178**)

Hu, Ning (*with* Zhang, Ru Qing) An iterative parallel algorithm of finite element method. (Chinese. English summary)

Huang, Zheng Da A high-speed parallel disc iteration for determining all zeros of a polynomial. (Chinese. English summary)

Ida, M. P. *see* **Dendy, J. E., Jr.; et al.**

Israeli, Moshe *see* **Amitai, Dganit; et al.**

Itzikowitz, Samuel *see* **Amitai, Dganit; et al.**

Ivanov, Ivan Ganchev Parallel numerical algorithm for spectral problem of block Hermitian matrices. (English summary) **93m:65037**

Janus, J. Mark *see* **Henley, Gregory J.**, (**93g:65178**)

Jessup, E. R. *see* **Geist, G. A.**, (**93g:65178**)

Jha, M. *see* **Dixon, L. C. W.**, (**93f:00016**)

Jiang, Hong[1] (*with* Wong, Yau Shu) A parallel alternating direction implicit preconditioning method. **93b:65056**

Joubert, Wayne (*with* Highnam, Peter; Carey, Graham) PCG/CM: a package for the iterative solution of large sparse linear systems on the connection machine. (English summary) (*see* **93g:65178**)

Kang, Li Shan *see* **Rao, Chuan Xia**, (**93d:65004**)

Kaucher, Edgar Area-preserving mappings, their application for parallel and partially validated computations of Navier-Stokes-problems. (English summary) **93g:65134**

Kearfott, Ralph Baker *see* **Hu, Chen-Yi; et al.**, (**93g:65178**)

Keyes, David E. *see* **Gropp, William D.**, **93b:65189**

Khaliq, A. Q. M. (*with* Twizell, E. H.; Voss, D. A.) On parallel algorithms for semidiscretized parabolic partial differential equations based on subdiagonal Padé approximations. (English summary) **93m:65122**

Kim, Sung Kwon (*with* Chronopoulos, Anthony T.) An efficient nonsymmetric Lanczos method on parallel vector computers. (English summary) **93h:65050**

Kiss, Béla (*with* Molnárka, Győző) A preconditioned domain decomposition algorithm for the solution of the elliptic Neumann problem. **93a:65172**

Kolotilina, L. Yu. (*with* Erëmin, A. Yu.) Factorized sparse approximate inverse preconditionings. I. Theory. (English summary) **93m:65061**

Kuznetsov, Yurii Alekseevich A new parallel algebraic preconditioner. (English summary) **93g:65059**

Le Tallec, Patrick *see* **Cowsar, Lawrence C.; et al.**, **93j:65200**

Lett, G. Scott *see* **Mandel, Jan**, **93c:65154**

Li, Bao Xiu (*with* Shen, Yu; Yu, Zai Hua) Highly parallel algorithms for unconstrained optimization. (Chinese. English summary)

Li, Chin Hsien *see* **Cowsar, Lawrence C.; et al.**, **93j:65200**

Li, Chuan Zhong *see* **Yang, Lu; et al.**, **93j:68181**

Li, Shou Fo (*with* Chen, Li Rong) Parallel algorithms of iterated defect correction methods. (English summary) (*see* **93d:65004**)

Li, Tien-Yien *see* **Zeng, Zhong Gang; et al.**, (**93g:65178**)

Liaw, JerJiann *see* **Taha, Thiab R.**, (**93k:65003**)

Liem, Chin Bo *see* **Lü, Tao; et al.**, **93b:49010**

Lin, Xiaola *see* **Zeng, Zhong Gang; et al.**, (**93g:65178**)

Lisky, S. *see* **Blum, Heribert; et al.**, **93f:65071**

Liu, Zhi Yong (*with* You, Jia-Huai) Conflict-free routing for BPC-permutations on synchronous hypercubes. (English summary)

Lopez, Luciano (*with* Trigiante, D.) Boundary value methods and BV-stability in the solution of initial value problems. (English summary) **93i:65071**

Lórencz, Róbert *see* **Morháč, Miroslav**, **93g:65057**

Lorenz, Jens *see* **Van de Velde, Eric F.**, **93b:65052**

Louter-Nool, Margreet Block-Cholesky for parallel processing. **93c:65043**

Lu, Hao Some complexity problems for computations with polynomials. (Chinese. English summary) **93e:65162**

Lu, Szu-Min (*with* Barlow, Jesse L.) Parallel computation of orthogonal factors of sparse matrices. (English summary) (*see* **93k:65003**)

Lü, Tao (*with* Liem, Chin Bo; Shih, Tsi Min) Parallel algorithms for variational inequalities based on domain decomposition. **93b:49010**

— (*with* Neittaanmäki, Pekka; Tai, Xue Cheng) A parallel splitting-up method for partial differential equations and its applications to Navier-Stokes equations. (English and French summaries) **93i:65111**

Luo, Jenn-Ching A new class of decomposition for inverting asymmetric and indefinite matrices. (English summary) **93m:65038**

Mandel, Jan (*with* Lett, G. Scott) Domain decomposition preconditioning for *p*-version finite elements with high aspect ratios. **93c:65154**

— *see also* **Douglas, Craig C.**, **93b:65162**

Mann, Reinhold *see* **Guan, Xiaojun; et al.**, (**93g:65178**)

Manneback, P. *see* **Daoudi, E. M.**, (**93g:65178**)

Mansfield, Lois Solution of the Stokes problem on distributed-memory multiprocessors. (English summary) (*see* **93g:65009**)

Marín Beltrán, M. *see* **Cruz Soto, J. L.; et al.**

Martínez, José Mario *see* **Gomes, F. A. M.**, **93a:65070** *and* **Dennis, John E., Jr.; et al.**, (**93g:65178**)

Mayergoyz, Isaak D. *see* **Darling, James P.**, (**93g:65178**)

Mazza, Christian Parallel simulated annealing. **93d:90067**

Mesirov, Jill P. *see* **Sethian, James A.; et al.**, **93d:76051**

Mikhailov, G. A. ★ Minimization of computational costs of nonanalogue Monte Carlo methods. **93c:65011**

Mitsui, Taketomo *see* **Goto, Akira**, (**93f:65027**)

Molnárka, Győző *see* **Kiss, Béla**, **93a:65172**

Morháč, Miroslav (*with* Lórencz, Róbert) A modular system for solving linear equations exactly. I. Architecture and numerical algorithms. (English summary) **93g:65057**

Moss, William F. *see* **Zhang, Hong**, (**93g:65178**)

Munthe-Kaas, Hans Superparallel FFTs. (English summary) **93k:65113**

Mural, Richard *see* **Guan, Xiaojun; et al.**, (**93g:65178**)

(Natori, Makoto) *see* **Parallel processing for matrix computation**, **93e:65040** *and* **Parallel processing for scientific computing**, **93f:65027**

Neittaanmäki, Pekka *see* **Lü, Tao; et al.**, **93i:65111**

Nemirovskii, A. S. *see* **Nesterov, Yu.**, **93b:90062**

Nersesyan, A. B. (*with* Agekyan, G. V.) Vectorized algorithms for solving systems with Toeplitz-type matrices. (Russian. Armenian summary) **93j:65062**

Nesterov, Yu. (*with* Nemirovskii, A. S.) Acceleration and parallelization of the path-following interior point method for a linearly constrained convex quadratic problem.

93b:90062
Nguyen Huu Cong *A*-stable diagonally implicit Runge-Kutta-Nyström methods for parallel computers. (English summary) **93m:65104**
Nielsen, Soren S. (*with* Zenios, Stavros A.) Massively parallel algorithms for singly constrained convex programs. (English summary) **93h:90090**
(Nodera, T.) *see* **Parallel processing for matrix computation, 93e:65040** *and* **Parallel processing for scientific computing, 93f:65027**
Park, K. H. *see* **Psiaki, Mark L., 93b:49037**
Pelz, Richard B. Pseudospectral methods on massively parallel computers. (English summary) (*see* **93d:65005**)
Périaux, Jacques *see* **Cowsar, Lawrence C.; et al., 93j:65200**
Perkins, A. Louise A mixed directed-undirected data structure for a parallel implementation of a domain decomposition algorithm. (English summary)
Pernice, Michael *see* **Chronopoulos, Anthony T., (93g:65178)**
Petiton, Serge G. Parallel subspace method for non-Hermitian eigenproblems on the connection machine (CM2). **93c:65055**
Pinder, G. F. *see* **Guarnaccia, J. F., (93g:65178)**
Piskulijski, Plamen Rounding analysis of parallel algorithm for the solution of a tridiagonal linear system of equations. (English and Russian summaries)
Plassmann, Paul E. *see* **Coleman, Thomas F., 93a:65068**
Plata, O. G. *see* **Cabaleiro, J. C.; et al.**
Poolla, Kameshwar *see* **Hodel, A. Scottedward, 93e:65042**
Pothen, Alex (*with* Sun, Chunguang) Distributed multifrontal factorization using clique trees. (English summary) (*see* **93g:65178**)
Prabhu, G. M. *see* **Aluru, Srinivas; et al., 93e:65008**
Psiaki, Mark L. (*with* Park, K. H.) Parallel solver for trajectory optimization search directions. **93b:49037**
Qin, Ning *see* **Xu, Xue Rong; et al., 93d:65040**
Rannacher, Rolf *see* **Blum, Heribert; et al., 93f:65071**
Rao, Chuan Xia (*with* Kang, Li Shan) Symmetric domain decomposition and symmetric space decomposition. (English summary) (*see* **93d:65004**)
Reichel, Lothar *see* **Hu, D. Y., 93c:65041** *and* **Bai, Zhao Jun; et al., (93g:65178)**
Renaut, Rosemary A. (*with* Woo, M. L.) Parallel pseudospectral methods for the solution of the wave equation. (English summary) (*see* **93d:73004**)
Ribbens, Calvin J. *see* **Beattie, Christopher, (93g:65178)**
Richards, Bryan E. *see* **Xu, Xue Rong; et al., 93d:65040**
Rivera, F. F. *see* **Cabaleiro, J. C.; et al.**
Roman, J. *see* **Charrier, P., (93g:65178)**
Roux, François-Xavier *see* **Farhat, Charbel; et al.**
Ruggiero, Valeria (*with* Galligani, Emanuele) A parallel algorithm for solving block tridiagonal linear systems. **93b:65060**
— *see also* **Galligani, Emanuele, (93f:00016)**
Rutledge, J. M. *see* **Dendy, J. E., Jr.; et al.**
Saad, Youcef New trends in preconditioned Krylov subspace methods. (English summary) (*see* **93d:65004**)
— *see also* **Gallopoulos, E., 93d:65085**
Sand, Jørgen (*with* Skelboe, Stig) Stability of backward Euler multirate methods and convergence of waveform relaxation. **93c:65088**
Sarsour, H. N. (*with* Turinsky, P. J.; Henkel, C. S.) Parallel solution of the few-group neutron diffusion equations. (English summary) (*see* **93g:65178**)
Sbosny, Hannes (*with* Witsch, Kristian) Parallel multigrid using domain decomposition. **93a:65173**
Schäfer, Michael *see* **De Valerio, M., (93f:00016)**
Schnabel, Robert B. *see* **Zhang, Xiaodong[1]; et al., 93b:65076**
Schreiber, Robert *see* **Alvarado, Fernando L.**
Selberherr, S. *see* **Heinreichsberger, O.; et al., (93g:65178)**
Sen, Syamal Kumar (*with* Howell, Gary W.) Direct fail-proof triangularization algorithms for $AX + XB = C$ with error-free and parallel implementations. **93k:65025**
Sethian, James A. (*with* Brunet, Jean-Philippe; Greenberg, Adam; Mesirov, Jill P.) Two-dimensional, viscous, incompressible flow in complex geometries on a massively parallel processor. **93d:76051**
Shen, Yu *see* **Li, Bao Xiu; et al.**
Shih, Tsi Min *see* **Lü, Tao; et al., 93b:49010**
Shishkina, O. V. A parallel zonal partitioning method. (Russian) **93e:65048**
Sidani, M. *see* **Dongarra, Jack J., (93b:65005)**
Sidi, Avram *see* **Bar-On, Ilan, 93e:65014**
Skelboe, Stig Methods for parallel integration of stiff systems of ODEs. (English summary) **93j:65116**
— *see also* **Sand, Jørgen, 93c:65088**
Sommeijer, B. P. *see* **van der Houwen, P. J., 93i:65075**
Stagg, A. K. (*with* Carey, Graham) Asynchronous nonlinear iteration and domain decomposition. (English summary) (*see* **93g:65178**)
Stevens, Rick L. *see* **Foster, Ian; et al., (93g:65178)**
Stiftinger, M. *see* **Heinreichsberger, O.; et al., (93g:65178)**
Stojmenović, Ivan A simple systolic algorithm for generating combinations in lexicographic order. **93b:05006**
Su, Yang Feng (*with* Zhu, Shi Dong) A model for parallel multisplitting chaotic iterations. (Chinese. English summary) **93b:65061**
Sun, Chunguang *see* **Pothen, Alex, (93g:65178)**
Swarztrauber, Paul N. A parallel algorithm for computing the eigenvalues of a symmetric tridiagonal matrix. **93h:65053**
Taha, Thiab R. A parallel algorithm for an investigation of self-focusing singularity of higher KdV equations. (English summary) **93h:65161**
— (*with* Liaw, JerJiann) An algorithm for solving a 4-diagonal Toeplitz linear system of equations on vector computers. (English summary) (*see* **93k:65003**)
Tai, Xue Cheng *see* **Lü, Tao; et al., 93i:65111**
Takahashi, Kimio Parallelizing Gaussian elimination on PAX. (Japanese. English and Japanese summaries) (*see* **93e:65040**)
Tam, H.-W. One-stage parallel methods for the numerical solution of ordinary differential equations. (English summary) **93e:65100**
— Two-stage parallel methods for the numerical solution of ordinary differential equations. (English summary) **93e:65101**
Tanaka, T. *see* **Washio, T.; et al., (93f:65027)**
Thompson, C. P. A parallel adaptive multigrid algorithm for the incompressible Navier-Stokes equations. (English summary) (*see* **93m:65006**)
Trigiante, D. *see* **Lopez, Luciano, 93i:65071**
Trouvé, Alain Partially parallel simulated annealing: low and high temperature approach of the invariant measure. **93f:60153**
Tsai, Jyun-Hwei *see* **Wu, Chwan-Hwa, (93g:65178)**
Turinsky, P. J. *see* **Sarsour, H. N.; et al., (93g:65178)**
Twizell, E. H. *see* **Khaliq, A. Q. M.; et al., 93m:65122**
Uberbacher, Edward *see* **Guan, Xiaojun; et al., (93g:65178)**
Vakalis, Ignatios *see* **de Doncker-Kapenga, Elise, (93k:65003)**
Van Barel, Marc (*with* Bultheel, Adhemar) A parallel algorithm for discrete least squares rational approximation. (English summary) **93f:65020**
Van de Velde, Eric F. (*with* Lorenz, Jens) Adaptive data distribution for concurrent continuation. **93b:65052**
Vannelli, Anthony A parallel implementation of an interior point method for linear programming. (English summary) (*see* **93g:65178**)
Vasil'ev, N. S. Automated construction of optimal parallel algorithms for calculating arithmetical expressions. (Russian) **93h:68067**
van Veldhuizen, M. Approximation of the invariant manifold in the Josephson equation. **93b:65122**
Voevodin, V. V. Parallel software from the standpoint of a mathematician. (English summary) **93i:68083**
Voss, D. A. *see* **Khaliq, A. Q. M.; et al., 93m:65122**
Walker, Ian D. *see* **Deo, Arati S.; et al., (93g:65178)**
Wang, K.-P. (*with* Bruch, J. C., Jr.) Studies of an interface relaxation domain decomposition technique using finite elements on a parallel computer. (English summary)
Washio, T. (*with* Doi, Shun; Tanaka, T.) Implementation and evaluation of ILU-preconditioned iterative methods on Cenju parallel computer. (Japanese. English summary) (*see* **93f:65027**)
Weiser, Alan *see* **Cowsar, Lawrence C.; et al., (93g:65009)**
Wheeler, Mary Fanett *see* **Cowsar, Lawrence C.; et al., 93j:65200** *and* **(93g:65009)**
Witsch, Kristian *see* **Sbosny, Hannes, 93a:65173**
Wong, Yau Shu *see* **Jiang, Hong[1], 93b:65056**
Woo, M. L. *see* **Renaut, Rosemary A., (93d:73004)**
Worley, Patrick H. Parallelizing across time when solving time-dependent partial differential equations. (English summary) (*see* **93g:65178**)
Wright, Stephen Joseph Stable parallel algorithms for two-point boundary value problems. **93a:65099**
Wu, Chwan-Hwa (*with* Tsai, Jyun-Hwei) An asynchronous relaxation method for the parallel simulation of the learning of recurrent neural networks. (English summary) (*see* **93g:65178**)
Xu, H. H. *see* **Chung, S. L.; et al., 93c:90049**
Xu, Xu Hai *see* **Gear, C. W., 93m:65089**
Xu, Xue Rong (*with* Qin, Ning; Richards, Bryan E.) α-GMRES: a new parallelizable iterative solver for large sparse nonsymmetric linear systems arising from CFD. (English summary) **93d:65040**
Yang, Chao W. A parallel multifrontal method for sparse symmetric definite linear systems on the Cray Y-MP. (English summary) (*see* **93g:65178**)
Yang, Guang-Chung A unified computational model for the parallel solution of general sparse nonsymmetric linear systems on shared-memory multiprocessors. (English summary) (*see* **93g:65178**)
Yang, Lu (*with* Zhang, Jing Zhong; Li, Chuan Zhong) ★ A prover for parallel numerical verification of a class of constructive geometry theorems. **93j:68181**
Yang, Qing *see* **Hu, Chen-Yi; et al., (93g:65178)**
You, Jia-Huai *see* **Liu, Zhi Yong**
Yu, Zai Hua *see* **Li, Bao Xiu; et al.**
Zambruno, Giovanni *see* **Bertocchi, Maria; et al., (93g:65178)**
Zapata, E. L. *see* **Cabaleiro, J. C.; et al.**
Zeng, Zhong Gang (*with* Lin, Xiaola; Li, Tien-Yien) An efficient parallel homotopy algorithm for nonsymmetric eigenvalue problems with $O(N)$ running time. (English summary) (*see* **93g:65178**)
Zenios, Stavros A. *see* **Nielsen, Soren S., 93h:90090**
(Zennaro, Marino) *see* **Parallel methods for ordinary differential equations, 93f:65008**
Zhang, Hong (*with* Moss, William F.) Solution of generalized eigenvalue problems using a parallel subspace iteration algorithm. (English summary) (*see* **93g:65178**)
Zhang, Jing Zhong *see* **Yang, Lu; et al., 93j:68181**
Zhang, Ru Qing *see* **Hu, Ning**
Zhang, Xiaodong[1] (*with* Byrd, Richard H.; Schnabel, Robert B.) Parallel methods for solving nonlinear block bordered systems of equations. **93b:65076**
— *see also* **Dennis, John E., Jr.; et al., (93g:65178)**
Zhang, Zhen Yue A basic parallel iterative method for solving symmetric tridiagonal extremal eigenpair problem. (English summary) (*see* **93d:65004**)
Zhu, Jian-Ping[2] (*with* Chen, Yung Ming) On the application of supercomputers for history matching multiphase oil reservoir models. (English summary) (*see* **93g:65178**)
— (*with* Chen, Yung Ming) Parameter estimation for multiphase reservoir models on hypercubes.
Zhu, Shi Dong *see* **Su, Yang Feng, 93b:65061**
Zou, Jun *see* **Hoffmann, Karl-Heinz[1], 93k:65050**
Zuo, Kang Parallel explicit block iterative method for solving elliptic PDEs. (English summary) (*see* **93d:65004**)

Items listed otherwise than by author

Conference:
Parallel Methods for Ordinary Differential Equations: the State of the Art ★ Parallel methods for ordinary differential equations. **93f:65008**
Grado ★ Parallel methods for ordinary differential equations. **93f:65008**

Parallel methods for ordinary differential equations ★ Parallel methods for ordinary differential equations. **93f:65008**
Parallel processing for matrix computation ★ Parallel processing for matrix computation. (Japanese) **93e:65040**
Parallel processing for scientific computing ★ Parallel processing for scientific computing. (Japanese) **93f:65027**
Symposium:
PCG (Preconditioned Conjugate Gradients) ★ Parallel processing for matrix computation. (Japanese) **93e:65040**
— ★ Parallel processing for scientific computing. (Japanese) **93f:65027**
Yokohama ★ Parallel processing for matrix computation. (Japanese) **93e:65040**
— ★ Parallel processing for scientific computing. (Japanese) **93f:65027**

65Y10 Algorithms for specific classes of architectures

Barada, H. (*with* El-Amawy, A.) A methodology for algorithm regularization and mapping into time-optimal VLSI arrays. (English summary) **93j:65231**
Carlenzoli, Claudio (*with* Gervasio, P.) Effective numerical algorithms for the solution of algebraic systems arising in spectral methods. **93b:65220**
Desprez, F. (*with* Tourancheau, B.) Parallel BLAS and BLACS for numerical algorithms on a reconfigurable network. (English summary) (*see* **93m:65006**)
Eğecioğlu, Ömer (*with* Koç, Çetin Kaya) Parallel prefix computation with few processors. **93b:65221**
El-Amawy, A. *see* **Barada, H., 93j:65231**
Flynn, Michael J. *see* **Lee, Fung F.; et al., (93g:65178)**
Gervasio, P. *see* **Carlenzoli, Claudio, 93b:65220**
Henderson, Thomas C. ★ Discrete relaxation techniques. **93i:65135**
Il'in, V. P. ★ О структурах данных и алгоритмов в задачах математической физики. (Russian. English and Russian summaries) [On the structures of data and algorithms in problems of mathematical physics]
Koç, Çetin Kaya *see* **Eğecioğlu, Ömer, 93b:65221**
Lee, Fung F. (*with* Flynn, Michael J.; Morf, Martin) Design of compact high performance processing elements for the FCHC lattice gas models. (English summary) (*see* **93g:65178**)
Mattheij, R. M. M. (*with* Staarink, G. W. M.) ★ BOUNDPAK. Part 1. **93b:65222a**
— (*with* Staarink, G. W. M.) ★ BOUNDPAK. Part 2. **93b:65222b**
Milovanović, E. I. *see* **Stojčev, M. K.; et al., (93c:93005)**
Milovanović, Igor Ž. *see* **Stojčev, M. K.; et al., (93c:93005)**
Morf, Martin *see* **Lee, Fung F.; et al., (93g:65178)**
Peskin, Richard L. *see* **Russo, Mark F., 93a:65187**
Russo, Mark F. (*with* Peskin, Richard L.) Automatically identifying the asymptotic behavior of nonlinear singularly perturbed boundary value problems. **93a:65187**
Shiryaev, D. V. Reduction of spatial complexity in reverse automatic differentiation by means of inverted code. (English summary) (*see* **93i:65006**)
Sreenath, N. A hybrid computation environment for multibody simulation. (English summary) **93f:65101**
Staarink, G. W. M. *see* **Mattheij, R. M. M., 93b:65222a** *and* **93b:65222b**
Stojčev, M. K. (*with* Milovanović, E. I.; Milovanović, Igor Ž.) A procedure for multiplication of concatenated matrices. (English summary) (*see* **93c:93005**)
Tourancheau, B. *see* **Desprez, F., (93m:65006)**

Items with secondary classifications in 65Y10

Agarwal, Pankaj K. (*with* Edelsbrunner, Herbert; Schwarzkopf, Otfried; Welzl, Emo) Euclidean minimum spanning trees and bichromatic closest pairs. **93a:68146**
Arioli, Mario (*with* Duff, I. S.; Ruiz, Daniel; Sadkane, Miloud) Techniques for accelerating the block Cimmino method. (English summary) (*see* **93g:65178**)
Belsley, David A. Paring 3SLS calculations down to manageable proportions. (English summary)
Calvetti, Daniela (*with* Reichel, Lothar) A Chebyshev-Vandermonde solver. **93c:65039**
Cocks, J. A. *see* **Wu, Shi Yu; et al., 93e:65049**
Corliss, George F. (*with* Rall, Louis B.) Computing the range of derivatives. (English summary) **93g:65029**
Dieci, Luca Numerical integration of the differential Riccati equation and some related issues. **93b:65093**
Dobson, David C. Convergence of a reconstruction method for the inverse conductivity problem. **93c:35159**
Duff, I. S. *see* **Arioli, Mario; et al., (93g:65178)**
Edelsbrunner, Herbert *see* **Agarwal, Pankaj K.; et al., 93a:68146**
Fedotov, A. M. Theoretical justification of computational algorithms for problems of analytic continuation. (Russian. Russian summary) **93k:30069**
Ferng, William R. An iterative Lanczos-based condition estimator. (English summary) (*see* **93g:65178**)
Fischer, Hans Christoph Automatic differentiation and applications. **93j:65032**
Gillies, Donald William A new heuristic for UET and pipeline scheduling. (English summary) (*see* **93k:65003**)
Gladwell, Ian *see* **Paprzycki, Marcin, (93g:65178)**
Hanson, James N. The computer generated symbolic approximations to systems of nonlinear ODEs by matrix annihilation and the Newton-Kantorovich method. **93b:65096**
Jayanthi, C. S. *see* **Wu, Shi Yu; et al., 93e:65049**
Kamath, Chandrika (*with* Weeratunga, Sisira) Projection methods on a distributed memory MIMD multiprocessor. (English summary) (*see* **93g:65178**)
Klein, Rolf (*with* Mehlhorn, Kurt; Meiser, Stefan) Randomized incremental construction of abstract Voronoi diagrams. (English summary) **93f:65013**
Kobayashi, Shoichi Some techniques for accurate and high-speed computation in BEM. (*see* **93b:65008**)
Mehlhorn, Kurt *see* **Klein, Rolf; et al., 93f:65013**
Meiser, Stefan *see* **Klein, Rolf; et al., 93f:65013**
Metzger, Mieczyslaw DRE integration algorithms for real-time simulation. (English summary) (*see* **93e:00021**)
Myagchilov, S. V. (*with* Tyrtyshnikov, E. E.) A fast matrix-vector multiplier in discrete vortex method. (English summary)
Nachtigal, Noël M. (*with* Reddy, Satish C.; Trefethen, Lloyd N.) How fast are nonsymmetric matrix iterations? **93a:65039**
Neidinger, Richard D. An efficient method for the numerical evaluation of partial derivatives of arbitrary order. **93b:65040**
Pan, Victor Parametrization of Newton's iteration for computations with structured matrices and applications. **93a:65041**
Paprzycki, Marcin (*with* Gladwell, Ian) Using level 3 BLAS to solve almost block diagonal systems. (English summary) (*see* **93g:65178**)
Pellaumail, J. Décomposition de M-matrice et buffer d'un multiplexeur ATM. (English summary) [M-matrix decomposition and buffer of an ATM multiplexor] **93c:65060**
Piegl, Les A. Constructive geometric approach to surface-surface intersection. (*see* **93b:65035**)
Rall, Louis B. *see* **Corliss, George F., 93g:65029**
Reddy, Satish C. *see* **Nachtigal, Noël M.; et al., 93a:65039**
Reichel, Lothar *see* **Calvetti, Daniela, 93c:65039**
Reis, Maria Luiza (*with* Roberty, Nilson Costa) Maximum entropy algorithms for image reconstruction from projections. (English summary) **93f:65019**
Roache, Patrick *see* **Steinberg, Stanly, 93b:65147**
Roberty, Nilson Costa *see* **Reis, Maria Luiza, 93f:65019**
Ruiz, Daniel *see* **Arioli, Mario; et al., (93g:65178)**
Sadkane, Miloud *see* **Arioli, Mario; et al., (93g:65178)**
Schwarzkopf, Otfried *see* **Agarwal, Pankaj K.; et al., 93a:68146**
Steinberg, Stanly (*with* Roache, Patrick) Variational curve and surface grid generation. **93b:65147**
Sweet, Roland A. Vectorization and parallelization of FISHPAK. (English summary) (*see* **93g:65178**)
Trefethen, Lloyd N. *see* **Nachtigal, Noël M.; et al., 93a:65039**
Tyrtyshnikov, E. E. *see* **Myagchilov, S. V.**
Van Loan, Charles ★ Computational frameworks for the fast Fourier transform. **93a:65186**
Weeratunga, Sisira *see* **Kamath, Chandrika, (93g:65178)**
Welzl, Emo *see* **Agarwal, Pankaj K.; et al., 93a:68146**
Wittum, Gabriel ★ Filternde Zerlegungen. (German) [Filtering decompositions] **93e:65039**
Wright, Alden H. Genetic algorithms for real parameter optimization. **93g:90070**
Wu, Shi Yu (*with* Cocks, J. A.; Jayanthi, C. S.) An accelerated inversion algorithm using the resolvent matrix method. (English summary) **93e:65049**
Yutsis, V. S. Automation of some stages of the realization of the finite-element method. (Russian. English and Georgian summaries) **93c:65003**

65Y15 Packaged methods

Keast, Patrick Software for integration over triangles and general simplices. (English summary) (*see* **93f:65006**)

65Y20 Complexity and performance of numerical algorithms [see also 68Q25]

Adams, Ernst Wilhelm *see* **Rufeger, W., 93h:65183**
Alpert, Bradley K. Construction of simple multiscale bases for fast matrix operations. (*see* **93e:00031**)
Beidas, Bassem F. (*with* Papavassilopoulos, George P.) Convergence analysis of asynchronous linear iterations with stochastic delays. (English summary) **93k:65117**
Chow, Shui-Nee (*with* Palmer, Kenneth J.) On the numerical computation of orbits of dynamical systems: the higher-dimensional case. (English summary) **93k:65118**
Feig, Ephraim (*with* Winograd, Shmuel) On the multiplicative complexity of discrete cosine transforms. **93a:65188**
Gao, Tang An (*with* Yi, Yan Chun) Computational complexity of the KNA algorithm for locating all zeros of polynomials with simple zeros. (Chinese. English and Chinese summaries)
Gorpinevich, A. N. An algorithm of complexity $O(n + k \log k)$ for partitioning a polygonal domain into horizontal-convex bands. (Russian. Russian summary) **93m:65191**
Gupta, Omprakash K. On evaluation of powers. (English summary) **93h:65182**
Lotti, Grazia Fast solution of linear systems with polynomial coefficients over the ring of integers. (English summary) **93m:65192**
Lu, Hao Some complexity problems for computations with polynomials. (Chinese. English summary) **93e:65162**
Mathé, Peter A minimax principle for the optimal error of Monte Carlo methods. (English summary) **93m:65193**
Nemirovskii, A. S. Information-based complexity of linear operator equations. **93e:65163**
Novak, Erich (*with* Woźniakowski, Henryk) Relaxed verification for continuous problems. **93f:65103**
Palmer, Kenneth J. *see* **Chow, Shui-Nee, 93k:65118**
Pan, Victor Complexity of computations with matrices and polynomials. **93g:65179**
— Binary segmentation for matrix and vector operations. (English summary)
Papavassilopoulos, George P. *see* **Beidas, Bassem F., 93k:65117**
Raadhakrishnan, Poovendran *see* **Yagle, Andrew E., 93e:65164**
Renegar, James Computational complexity of solving real algebraic formulae. **93a:65189**
Roberts, Stephen Hierarchical n-body calculations. **93c:65168**
Rufeger, W. (*with* Adams, Ernst Wilhelm) A step size control for Lohner's enclosure algorithm for ordinary differential equations with initial conditions. (English summary) **93h:65183**
Spingarn, Jonathan E. Complexity of fixed point computation. (English summary) **93j:65232**
Wasilkowski, G. W. Integration and approximation of multivariate functions: average case complexity with isotropic Wiener measure. (English summary) **93i:65136**
Winograd, Shmuel *see* **Feig, Ephraim, 93a:65188**
Winter, Dik T. Influence of memory systems on vector processor performance.
Woźniakowski, Henryk Complexity of verification and computation for IBC problems. **93f:65102**
— *see also* **Novak, Erich, 93f:65103**

Yagle, Andrew E. (*with* Raadhakrishnan, Poovendran) Numerical performance of layer stripping algorithms for two-dimensional inverse scattering problems. (English summary) **93e:65164**

Yi, Yan Chun *see* **Gao, Tang An**

Items with secondary classifications in 65Y20

Abou-Rabia, O. *see* **Birta, L. G.; et al., 93h:65088**

Allen, Jeffery C. *see* **Whitehouse, Harper J., (93m:00045)**

Allgower, Eugene L. (*with* Böhmer, Klaus; Georg, Kurt; Miranda, Rick) Exploiting symmetry in boundary element methods. **93b:65184**

Antipov, M. V. ★ О математической случайности. (Russian. English and Russian summaries) [Mathematical randomness] **93e:00003**

— ★ Границы случайности. (Russian. English and Russian summaries) [Limits of randomness] **93e:00004**

Arun-Kumar, S. (*with* Chockalingam, T.) Genetic search algorithms and their randomized operators. (English summary) **93h:68034**

Babu, V. (*with* Korpela, Seppo A.) On the direct solution of Poisson's equation on a nonuniform grid. (English summary)

Beatson, R. K. (*with* Newsam, G. N.) Fast evaluation of radial basis functions. I. (English summary) **93i:65025**

Bespalov, A. N. (*with* Kuznetsov, Yurii Alekseevich; Pironneau, Olivier; Vallet, Marie-Gabrielle) Fictitious domains with separable preconditioners versus unstructured adapted meshes. (English summary) **93h:65147**

Bini, Dario (*with* Gemignani, Luca) On the complexity of polynomial zeros. **93c:65066**

Birta, L. G. (*with* Yang, M.; Abou-Rabia, O.) An adaptive approach to stepsize control in ODE solvers. (English summary) **93h:65088**

Böhmer, Klaus *see* **Allgower, Eugene L.; et al., 93b:65184**

Cabay, Stan (*with* Labahn, George) A superfast algorithm for multidimensional Padé systems. **93c:65019**

Chen, Guan Rong Optimal recovery of certain nonlinear analytic mappings. (*see* **93m:00043**)

— *see also* **Koç, Çetin Kaya, 93k:65011**

Chen, Guang Yi (*with* Xue, Yan Cai) A cubically convergent algorithm for solving the nonlinear eigenvalue problem for symmetric matrices. (Chinese. English summary) **93i:65057**

Chockalingam, T. *see* **Arun-Kumar, S., 93h:68034**

Claus, Volker Complexity measures on permutations. (English summary) **93m:68071**

Cucker, Felipe (*with* Montaña, Jose L.; Pardo, Luis M.) Time bounded computations over the reals. **93m:03067**

D'yakonov, E. G. ★ Минимизация вычислительной работы. Асимптотически оптимальные алгоритмы для эллиптических задач. (Russian) [Minimization of computational work. Asymptotically optimal algorithms for elliptic problems] **93e:65136**

Faragó, A. (*with* Linder, T.; Lugosi, Gábor) Nearest neighbor search and classification in $O(1)$ time. (Russian summary) **93a:68056**

Galiev, V. I. (*with* Polupanov, A. F.; Shparlinskiĭ, I. E.) Distances from differences of roots of polynomials to the nearest integers. (English summary) **93j:68072**

Gemignani, Luca *see* **Bini, Dario, 93c:65066**

Georg, Kurt *see* **Allgower, Eugene L.; et al., 93b:65184**

Heinrich, Stefan Lower bounds for the complexity of Monte Carlo function approximation. (English summary) **93h:65007**

Horiuchi, Kazuo *see* **Makino, Mitsunori; et al., 93b:65078**

Jeney, András Discretization of a subclass of the ABS-methods for the solution of systems of nonlinear algebraic equations. (Hungarian. English and Hungarian summaries) **93i:65059**

Jones, Mark T. (*with* Patrick, Merrell L.) Bunch-Kaufman factorization for real symmetric indefinite banded matrices. (English summary)

Karatsuba, E. A. Fast computations of transcendental functions. (Russian) **93c:65027**

Kashiwagi, Masahide *see* **Makino, Mitsunori; et al., 93b:65078**

Kelch, Rainer Numerical quadrature by extrapolation with automatic result verification. (English summary) **93m:65032**

Khoromskaya, V. Kh. (*with* Khoromskiĭ, B. N.) ★ On the computing complexity of iterative substructuring algorithms in nonlinear magnetostatic problems. (English. English and Russian summaries) **93k:65094**

Khoromskii, B. N. *see* **Khoromskaya, V. Kh., 93k:65094**

Kiyoi, Masahiro *see* **Yamamura, Kiyotaka, 93h:65073**

Ko, Ker-I ★ Complexity theory of real functions. **93i:03057**

Koç, Çetin Kaya (*with* Chen, Guan Rong) A fast algorithm for scalar Nevanlinna-Pick interpolation. (English summary) **93k:65011**

Kon, M. A. (*with* Tempo, Roberto) On optimality properties of algorithms in L^p. (English summary) (*see* **93m:00043**)

Korpela, Seppo A. *see* **Babu, V.**

Křivánek, Mirko Algorithmic and geometric aspects of cluster analysis. **93e:65022**

Kuznetsov, Yurii Alekseevich *see* **Bespalov, A. N.; et al., 93h:65147**

Labahn, George Inversion components of block Hankel-like matrices. (English summary) **93j:65045**

— *see also* **Cabay, Stan, 93c:65019**

Landowne, Elliott *see* **Pan, Victor; et al., 93m:65011**

Lindae, Andreas On shooting methods for the discrete Helmholtz equation with constant coefficients. (English summary) **93i:65104**

Linder, T. *see* **Faragó, A.; et al., 93a:68056**

Lin-Kriz, Yu (*with* Pan, Victor) On parallel complexity of integer linear programming, GCD and the iterated mod function. **93f:90119**

Liu, Joseph W. H. (*with* Ng, Esmond G.; Peyton, Barry W.) On finding supernodes for sparse matrix computations. (English summary) **93h:65064**

Lorenz, Jens *see* **Van de Velde, Eric F., 93b:65052**

Lu, Ya Yan *see* **Yau, Shing-Tung, 93m:65053**

Lugosi, Gábor *see* **Faragó, A.; et al., 93a:68056**

Luo, Jenn-Ching A new class of decomposition for inverting asymmetric and indefinite matrices. (English summary) **93m:65038**

Makino, Mitsunori (*with* Oishi, Shin'ichi; Kashiwagi, Masahide; Horiuchi, Kazuo) Computational complexity of the homotopy method for calculating solutions of strongly monotonic resistive circuit equations. **93b:65078**

Miranda, Rick *see* **Allgower, Eugene L.; et al., 93b:65184**

Montaña, Jose L. *see* **Cucker, Felipe; et al., 93m:03067**

Newsam, G. N. *see* **Beatson, R. K., 93i:65025**

Ng, Esmond G. *see* **Liu, Joseph W. H.; et al., 93h:65064**

Oishi, Shin'ichi *see* **Makino, Mitsunori; et al., 93b:65078**

Pan, Victor (*with* Sadikou, Akimou; Landowne, Elliott; Tiga, Olen) A new approach to fast polynomial interpolation and multipoint evaluation. (English summary) **93m:65011**

— *see also* **Lin-Kriz, Yu, 93f:90119**

Pardo, Luis M. *see* **Cucker, Felipe; et al., 93m:03067**

Patrick, Merrell L. *see* **Jones, Mark T.**

Pereverzev, S. V. (*with* Scharipov, C. C.) Information complexity of equations of the second kind with compact operators in Hilbert space. **93e:65082**

von Petersdorff, T. (*with* Stephan, E. P.) Multigrid solvers and preconditioners for first kind integral equations. (English summary) **93d:65114**

Peyton, Barry W. *see* **Liu, Joseph W. H.; et al., 93h:65064**

Pironneau, Olivier *see* **Bespalov, A. N.; et al., 93h:65147**

Plaskota, L. Function approximation and integration on the Wiener space with noisy data. (English summary) **93m:65016**

Polupanov, A. F. *see* **Galiev, V. I.; et al., 93j:68072**

Powell, M. J. D. The complexity of Karmarkar's algorithm for linear programming. (English summary) **93i:90062**

Renegar, James On the computational complexity of approximating solutions for real algebraic formulae. (English summary) **93i:68101**

Sadikou, Akimou *see* **Pan, Victor; et al., 93m:65011**

Sauer, Tim (*with* Yorke, James A.) Rigorous verification of trajectories for the computer simulation of dynamical systems. **93a:58104**

Scharipov, C. C. *see* **Pereverzev, S. V., 93e:65082**

Shparlinskii, I. E. *see* **Galiev, V. I.; et al., 93j:68072**

Stephan, E. P. *see* **von Petersdorff, T., 93d:65114**

Stoer, Josef *see* **Zhao, Gong Yun, 93h:90064**

Storck, Ulrike Numerical integration in two dimensions with automatic result verification. (English summary) **93j:65038**

Tempo, Roberto *see* **Kon, M. A., (93m:00043)**

Tiga, Olen *see* **Pan, Victor; et al., 93m:65011**

Vallet, Marie-Gabrielle *see* **Bespalov, A. N.; et al., 93h:65147**

Van de Velde, Eric F. (*with* Lorenz, Jens) Adaptive data distribution for concurrent continuation. **93b:65052**

Vavasis, Stephen A. Black-box complexity of local minimization. (English summary) **93m:90103**

Veselý, Vítězslav Algebraic theory of fast mixed-radix transforms. I. Generalized Kronecker product of matrices. (English summary) **93k:15024**

— Algebraic theory of fast mixed-radix transforms. II. Computational complexity and applications. (English summary) **93k:15025**

Werschulz, Arthur G. ★ The computational complexity of differential and integral equations. **93a:68061**

Whitehouse, Harper J. (*with* Allen, Jeffery C.) Displacement rank and deconvolution: applications and open problems. (English summary) (*see* **93m:00045**)

Xue, Yan Cai *see* **Chen, Guang Yi, 93i:65057**

Yamamura, Kiyotaka (*with* Kiyoi, Masahiro) Algorithms for detecting separability of nonlinear mappings using computational graphs. (English summary) **93h:65073**

Yang, M. *see* **Birta, L. G.; et al., 93h:65088**

Yau, Shing-Tung (*with* Lu, Ya Yan) Reducing the symmetric matrix eigenvalue problem to matrix multiplications. (English summary) **93m:65053**

Yorke, James A. *see* **Sauer, Tim, 93a:58104**

Zhao, Gong Yun (*with* Stoer, Josef) Estimating the complexity of a class of path-following methods for solving linear programs by curvature integrals. (English summary) **93h:90064**

65Y25 Computer graphics and computational geometry [see also 51N05, 68U05]

Aurenhammer, Franz (*with* Stöckl, Gerd) Searching for segments with largest relative overlap. (English summary) (*see* **93e:90003**)

Boissonnat, Jean-Daniel (*with* Devillers, Olivier; Preparata, Franco P.) Computing the union of 3-colored triangles. (English summary) (*see* **93e:90003**)

Challinger, Judy Interactive graphical exploration of multidimensional nonlinear dynamical systems. (English summary)

Chen, He Ping c^1 continuity and a matrix representation for the surface piece in a triangular domain. (Chinese. English summary)

Choi, Byoung K. (*with* Shin, Ha-yong; Yoo, Woo S.) Visually smooth composite surfaces for an unevenly spaced 3D data array. (English summary)

Devillers, Olivier *see* **Boissonnat, Jean-Daniel; et al., (93e:90003)**

Dobkin, David P. (*with* Souvaine, Diane L.) Detecting the intersection of convex objects in the plane. **93a:65190**

(Edelsbrunner, Herbert) *see* **ACM Symposium: Computational Geometry, 93b:65223**

Farin, Gerald Tighter convex hulls for rational Bézier curves. (English summary)

Kenyon, Claire (*with* Kenyon, Richard) How to take short cuts. **93h:65184**

Kenyon, Richard *see* **Kenyon, Claire, 93h:65184**

Liang, You Dong *see* **Ma, Li Zhuang; et al., 93c:65169**

Ma, Li Zhuang (*with* Liang, You Dong; Peng, Qun Sheng) A new approach for smoothing polyhedra with arbitrary topologies. **93c:65169**

Neal, Leslie R. On the production of points lying on general conics with reference to use with conic splines. (English summary) (*see* **93j:00007**)

Noltemeier, Hartmut (*with* Roos, Thomas; Zirkelbach, C.) Partitioning of complex scenes of geometric objects. (English summary) (*see* **93e:90003**)

— *see also* **Roos, Thomas, (93e:90003)**

Peng, Qun Sheng *see* **Ma, Li Zhuang; et al., 93c:65169**

Powar, P. L. Minimal roughness property of the Delaunay triangulation: a shorter approach. (English summary) **93j:65233**
Preparata, Franco P. *see* **Boissonnat, Jean-Daniel; et al.**, (**93e:90003**)
Roos, Thomas (*with* Noltemeier, Hartmut) Dynamic Voronoĭ diagrams in motion planning. (English summary) (*see* **93e:90003**)
— *see also* **Noltemeier, Hartmut; et al.**, (**93e:90003**)
Shaw, J. A. (*with* Weatherill, N. P.) Automatic topology generation for multiblock grids. (English summary)
Shin, Ha-yong *see* **Choi, Byoung K.; et al.**
Smelyakov, S. V. *see* **Stoyan, Yu. G.**, **93m:65194**
Souvaine, Diane L. *see* **Dobkin, David P.**, **93a:65190**
Stöckl, Gerd *see* **Aurenhammer, Franz**, (**93e:90003**)
Stoyan, Yu. G. (*with* Smelyakov, S. V.) Elementary and axiomatic basis of numerical geometry. (English summary) **93m:65194**
Sugihara, Kōkichi Application of the Delaunay triangulation to geometric intersection problems. (English summary) (*see* **93e:90003**)
Weatherill, N. P. *see* **Shaw, J. A.**
Yoo, Woo S. *see* **Choi, Byoung K.; et al.**
Zirkelbach, C. *see* **Noltemeier, Hartmut; et al.**, (**93e:90003**)

Items listed otherwise than by author

ACM Symposium:
Computational Geometry ★ ACM Symposium on Computational Geometry. **93b:65223**
North Conway, NH ★ ACM Symposium on Computational Geometry. **93b:65223**

Items with secondary classifications in 65Y25

Abramowski, Stephan (*with* Müller, Heinrich) ★ Geometrisches Modellieren. (German) [Geometric modeling] **93a:68145**
Aronov, Boris (*with* O'Rourke, Joseph) Nonoverlap of the star unfolding. **93h:68135**
Avis, David (*with* Fukuda, Komei) A pivoting algorithm for convex hulls and vertex enumeration of arrangements and polyhedra. **93h:68137**
Baart, M. L. *see* **Coetzee, M. A.**, **93m:65021**
de Berg, Mark T. (*with* Overmars, Mark H.) Hidden surface removal for c-oriented polyhedra. **93c:68099**
Chazelle, Bernard (*with* Edelsbrunner, Herbert; Guibas, Leonidas J.; et al.) Counting and cutting cycles of lines and rods in space. **93m:68164**
Coetzee, M. A. (*with* Baart, M. L.) Review of geometric continuity, with application to the construction of G^2 continuous curves. (English summary) **93m:65021**
Edelsbrunner, Herbert *see* **Chazelle, Bernard; et al.**, **93m:68164**
Edwards, John A. Exact equations of the nonlinear spline. **93c:41018**
Fukuda, Komei *see* **Avis, David**, **93h:68137**
Goodman, T. N. T. Joining rational curves smoothly. **93a:65018**
Guibas, Leonidas J. *see* **Chazelle, Bernard; et al.**, **93m:68164**
Johnstone, John K. A new intersection algorithm for cyclides and swept surfaces using circle decomposition. (English summary) **93m:53003**
(Kall, P.) *see* **System modelling and optimization**, **93e:90003**
Keenan, Daniel Random surface geometries with applications to image processing. (English summary) **93g:68148**
Komarov, Yu. A. *see* **Vasyukov, A. N.; et al.**, **93a:68159**
Maekawa, Takashi *see* **Patrikalakis, Nicholas M.; et al.**, (**93f:68006**)
Matoušek, Jiří Efficient partition trees. **93m:68174**
Müller, Heinrich *see* **Abramowski, Stephan**, **93a:68145**
Mulmuley, Ketan (*with* Sen, Sandeep) Dynamic point location in arrangements of hyperplanes. **93m:68035**
O'Rourke, Joseph *see* **Aronov, Boris**, **93h:68135**
Overmars, Mark H. *see* **de Berg, Mark T.**, **93c:68099**
Patrikalakis, Nicholas M. (*with* Maekawa, Takashi; Sherbrooke, Evan C.; Zhou, Jing Fang) Computation of singularities for engineering design. (English summary) (*see* **93f:68006**)
(Peng, Qun Sheng) *see* **Computer-aided design & computer graphics**, **93a:68006**
Renegar, James (*with* Shub, Michael) Unified complexity analysis for Newton LP methods. **93a:90038**
Sen, Sandeep *see* **Mulmuley, Ketan**, **93m:68035**
Sendra, J. Rafael (*with* Winkler, Franz) Symbolic parametrization of curves. **93a:14053**
Sherbrooke, Evan C. *see* **Patrikalakis, Nicholas M.; et al.**, (**93f:68006**)
Shub, Michael *see* **Renegar, James**, **93a:90038**
(Staudhammer, John) *see* **Computer-aided design & computer graphics**, **93a:68006**
Vasyukov, A. N. (*with* Komarov, Yu. A.; Yanovich, I. A.) ★ Логико-алгебраические методы решения геометрических задач и разработка программного обеспечения CAIIP. (Russian) [Logic-algebraic methods for solving geometric problems and the development of software for computer-aided design systems] **93a:68159**
Whiteley, Walter Matroids and rigid structures. **93h:52029**
Winkler, Franz *see* **Sendra, J. Rafael**, **93a:14053**
Wu, Chang Chun *see* **Zhang, You Qi**
Yadgarov, Dzh. Ya. ★ Некоторые вопросы конструирования ротативных и спироидальных поверхностей. (Russian. Russian summary) [Some problems on the construction of rotational and spiral surfaces] **93k:53019**
Yanovich, I. A. *see* **Vasyukov, A. N.; et al.**, **93a:68159**
Zhang, You Qi (*with* Wu, Chang Chun) The patch test condition in curvilinear coordinate system—formulation and application. (English summary)
Zhou, Jing Fang *see* **Patrikalakis, Nicholas M.; et al.**, (**93f:68006**)

Items listed otherwise than by author

Computer-aided design & computer graphics ★ Computer-aided design & computer graphics. **93a:68006**
Conference:
Computer-aided Design & Computer Graphics ★ Computer-aided design & computer graphics. **93a:68006**
Hangzhou ★ Computer-aided design & computer graphics. **93a:68006**
IFIP Conference:
System Modelling and Optimization ★ System modelling and optimization. **93e:90003**
Lecture Notes in Control and Information Sciences ★ System modelling and optimization. **93e:90003**
System modelling and optimization ★ System modelling and optimization. **93e:90003**
Zurich ★ System modelling and optimization. **93e:90003**

65Y99 None of the above, but in this section

Choi, Hyeong-Ah *see* **Park, Ju-Young Lee; et al.**, (**93k:65003**)
Hu, Yu Hen *see* **Park, Changweon**, (**93k:65003**)
Lee, Sang-Kyu *see* **Park, Ju-Young Lee; et al.**, (**93k:65003**)
Park, Changweon (*with* Hu, Yu Hen) Existence and optimality of the hyperplane schedule for recurrence equations. (English summary) (*see* **93k:65003**)
Park, Ju-Young Lee (*with* Lee, Sang-Kyu; Choi, Hyeong-Ah) Fault-tolerant broadcasting in circuit-switched mesh. (English summary) (*see* **93k:65003**)
Shang, Weijia *see* **Xing, Zhaoyun; et al.**, (**93k:65003**)
Xiao, Shihai *see* **Xing, Zhaoyun; et al.**, (**93k:65003**)
Xing, Zhaoyun (*with* Shang, Weijia; Xiao, Shihai) A piecewise linear programming approach to data dependence analysis. (English summary) (*see* **93k:65003**)

Items with secondary classifications in 65Y99

Catoni, Olivier Rates of convergence for sequential annealing: a large deviation approach. **93k:65006**
Huckenbeck, Ulrich Some elementary results about the equivalence of computability and decidability. **93e:03054**
Krämer, Walter Stephan Evaluation of polynomials in several variables with high accuracy. (English summary) **93h:65020**
Pyt'ev, Yu. P. On the theory of nonlinear measurement-computing systems. (Russian. English and Russian summaries) **93d:93091**
Steeb, Willi-Hans Computer algebra and its applications in physics. (English summary) **93i:65005**

68–XX Computer science {For papers involving machine computations and programs in a specific mathematical area, see Section –04 in that area.}

68–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Items listed otherwise than by author

Index:
Theoret. Comput. Sci. Cumulative index of Volumes 1–100.

Items with secondary classifications in 68–00

Aspray, William An annotated bibliography of secondary sources on the history of software.
(Coffman, Edward G., Jr.) *see* **Computing**, 93i:90038
(Lenstra, J. K.) *see* **Computing**, 93i:90038
(Partridge, Derek) *see* **Foundations of artificial intelligence**, 93b:68073
(Rinnooy Kan, A. H. G.) *see* **Computing**, 93i:90038
(Wilks, Yorick) *see* **Foundations of artificial intelligence**, 93b:68073

Items listed otherwise than by author

Computing ★ Computing. **93i:90038**
Foundations of artificial intelligence ★ The foundations of artificial intelligence. **93b:68073**
Index:
Ann. Hist. Comput. Cumulative index, Volumes 1 through 10.
Discrete Appl. Math. Master index: Volumes 31–40. **93m:00005**

68–01 Instructional exposition (textbooks, tutorial papers, etc.)

Aho, Alfred V. (*with* Ullman, Jeffrey D.) ★ Foundations of computer science. **93i:68001**
Bow, Sing-Tze ★ Pattern recognition and image preprocessing. **93g:68001**
Ftáčnik, Milan *see* **Kelemen, Jozef; et al.**
Harel, David ★ Algorithmics. **93b:68001**
Kalaš, Ivan *see* **Kelemen, Jozef; et al.**
Kaldewaij, Anne ★ Programming. **93a:68001**
Kelemen, Jozef (*with* Ftáčnik, Milan; Kalaš, Ivan; Mikulecký, Peter) ★ Základy umelej inteligencie. (Slovak. Slovak summary) [Fundamentals of artificial intelligence]
Kotov, V. E. (*with* Sabel'fel'd, V. K.) ★ Теория схем программ. (Russian) [Theory of program schemes] **93f:68001**
Manber, Udi ★ Introduction to algorithms. **93a:68002**
Meyer, Bertrand ★ Introduction to the theory of programming languages. **93k:68001a**
— ★ Introduction à la théorie des langages de programmation. (French. French summary) [Introduction to the theory of programming languages] **93k:68001b**
Mikulecký, Peter *see* **Kelemen, Jozef; et al.**
Mosses, Peter D. ★ Action semantics. **93i:68002**
Newell, Allen Reflections on the knowledge level.
Nguyen Huy Xuong ★ Mathématiques discrètes et informatique. (French) [Discrete mathematics and computer science] **93a:68003**
(Picardat, Jean-François) *see* **Meyer, Bertrand**, **93k:68001b**
Roscoe, A. W. Topology, computer science, and the mathematics of convergence. (*see* **93h:68004**)

(Rosner, Roni) *see* **Harel, David, 93b:68001**
Rozoy, Brigitte (*with* Thiagarajan, P. S.) Event structures and trace monoids. (French summary) **93b:68002**
Sabel'fel'd, V. K. *see* **Kotov, V. E., 93f:68001**
Thiagarajan, P. S. *see* **Rozoy, Brigitte, 93b:68002**
Ullman, Jeffrey D. *see* **Aho, Alfred V., 93i:68001**

Items with secondary classifications in 68–01

Antoniou, Grigoris *see* **Sperschneider, V., 93a:03002**
Bachmair, Leo ★ Canonical equational proofs. **93e:68111**
(Bibel, W.) *see* **Brewka, Gerhard, 93b:68079**
(Bläsius, Karl-Hans) *see* **Deduction systems in artificial intelligence, 93f:68085**
Brewka, Gerhard ★ Nonmonotonic reasoning: logical foundations of commonsense. **93b:68079**
(Bürckert, Hans-Jürgen) *see* **Deduction systems in artificial intelligence, 93f:68085**
(Courcelle, Bruno) *see* **Logic and data processing: an introduction, 93d:68003**
Garnier, Rowan (*with* Taylor, John) ★ Discrete mathematics for new technology. **93g:00004**
Golan, Jonathan S. ★ The theory of semirings with applications in mathematics and theoretical computer science. **93b:16085**
Gössel, Michael ★ Automatentheorie für Ingenieure. (German) [Automata theory for engineers] **93d:68047**
Hsü, Sên Chu (*with* Shih, Hui Jan) Some properties of balanced languages. (English summary) **93m:68099**
Kindervater, G. A. P. ★ Exercises in parallel combinatorial computing. **93b:68031**
(Sarach, Patricia) *see* **Deduction systems in artificial intelligence, 93f:68085**
Schmitt, Peter H. ★ Theorie der logischen Programmierung. (German. German summary) [Theory of logic programming] **93j:68034**
Shih, Hui Jan *see* **Hsü, Sên Chu, 93m:68099**
Simon, Klaus ★ Effiziente Algorithmen für perfekte Graphen. (German) [Efficient algorithms for perfect graphs] **93f:68074**
Sperschneider, V. (*with* Antoniou, Grigoris) ★ Logic: a foundation for computer science. **93a:03002**
Taylor, John *see* **Garnier, Rowan, 93g:00004**
Taylor, Walter F. ★ The geometry of computer graphics. **93a:68158**
Ueberberg, Johannes ★ Einführung in die Computeralgebra mit REDUCE. (German. German summary) [Introduction to computer algebra using REDUCE] **93j:68091**

Items listed otherwise than by author

Deduction systems in artificial intelligence ★ Deduction systems in artificial intelligence. **93f:68085**
Logic and data processing: an introduction ★ Logique et informatique: une introduction. (French) [Logic and data processing: an introduction] **93d:68003**
Logique et informatique: une introduction ★ Logique et informatique: une introduction. (French) [Logic and data processing: an introduction] **93d:68003**

68–02 Research exposition (monographs, survey articles)

Carpenter, Bob ★ The logic of typed feature structures. **93j:68001**
Cohen, Daniel I. A. ★ Introduction to computer theory. **93i:68003**
Hesselink, Wim H. ★ Programs, recursion and unbounded choice. **93f:68002**
Zimmer, Ralf Martin ★ Zur Pragmatik eines operationalisierten λ-Kalküls als Basis für interaktive Reduktionssysteme. (German) [On the pragmatics of an operationalized λ-calculus as the basis for interactive reduction systems] **93e:68001**

Items with secondary classifications in 68–02

Anthony, Martin (*with* Biggs, Norman) ★ Computational learning theory. **93f:68078**
Baldi, Pierre *see* **Venkatesh, Santosh S., 93a:68123**
Barthélémy, Jean-Pierre (*with* Cohen, Gérard-Denis; Lobstein, Antoine-C.) ★ Complexité algorithmique et problèmes de communications. (French) [Algorithmic complexity and communications problems] **93h:68046**
Benzaken, Claude ★ Systèmes formels. (French) [Formal systems] **93h:68069**
Biggs, Norman *see* **Anthony, Martin, 93f:68078**
Bradfield, Julian Charles ★ Verifying temporal properties of systems. **93i:68128**
Bui, Tien Dai *see* **Li, Zi-Cai; et al., 93i:68188**
Burkitt, A. N. *see* **Heermann, D. W., 93b:68030**
Cohen, Gérard Denis *see* **Barthélémy, Jean-Pierre; et al., 93h:68046**
Curien, Pierre-Louis Sequentiality and full abstraction. (English summary) **93i:68119**
Heermann, D. W. (*with* Burkitt, A. N.) ★ Parallel algorithms in computational science. **93b:68030**
Hermann, Robert ★ Geometric computing science: first steps. **93a:93032**
Kurfess, Franz ★ Parallelism in logic. (English. English summary) **93d:68018**
Li, Zi-Cai (*with* Bui, Tien Dai; Tang, Yuan Yan; Suen, Ching Yun) ★ Computer transformation of digital images and patterns. **93i:68188**
Lobo, Jorge (*with* Minker, Jack; Rajasekar, Arcot) ★ Foundations of disjunctive logic programming. **93i:68160**
Lobstein, Antoine-C. *see* **Barthélémy, Jean-Pierre; et al., 93h:68046**
Mahmoud, Hosam M. ★ Evolution of random search trees. **93f:68045**
Mazurov, Vl. D. Decomposition in committee pattern recognition constructions. (Russian. Russian summary) **93f:68080**
Michel, Pascal A survey of space complexity. (English summary) **93h:68050**
Minker, Jack *see* **Lobo, Jorge; et al., 93i:68160**
(Minoux, Michel) *see* **Barthélémy, Jean-Pierre; et al., 93h:68046**
Muller, David E. (*with* Saoudi, Ahmed; Schupp, Paul E.) Alternating automata, the weak monadic theory of trees and its complexity. **93h:03058**
O'Hearn, Peter W. (*with* Tennent, R. D.) Semantics of local variables. (English summary) **93i:68123**
(Partridge, Derek) *see* **Foundations of artificial intelligence, 93b:68073**
Pierce, Benjamin C. ★ Basic category theory for computer scientists. **93c:18002**
Plotkin, B. I. ★ Универсальная алгебра, алгебраическая логика и базы данных. (Russian) [Universal algebra, algebraic logic and data bases] **93i:68053**
— Some algebraic aspects of database theory. **93g:68027**
Rajasekar, Arcot *see* **Lobo, Jorge; et al., 93i:68160**
Saoudi, Ahmed *see* **Muller, David E.; et al., 93h:03058**
Schupp, Paul E. *see* **Muller, David E.; et al., 93h:03058**
Snyder, Wayne ★ A proof theory for general unification. **93g:03011**
Suen, Ching Yun *see* **Li, Zi-Cai; et al., 93i:68188**
Tang, Yuan Yan *see* **Li, Zi-Cai; et al., 93i:68188**
Tennent, R. D. *see* **O'Hearn, Peter W., 93i:68123**
Venkatesh, Santosh S. (*with* Baldi, Pierre) Programmed interactions in higher-order neural networks: the outer-product algorithm. **93a:68123**
(Wilks, Yorick) *see* **Foundations of artificial intelligence, 93b:68073**
Yurchenko, V. V. ★ Функциональные сети. (Russian. English and Russian summaries) [Functional networks]

Items listed otherwise than by author

Foundations of artificial intelligence ★ The foundations of artificial intelligence. **93b:68073**

68–03 Historical (must also be assigned at least one classification number from Section 01)

Dijkstra, E. W. How computing science created a new mathematical style. **93i:68004**
Gordon, Jean (*with* Shortliffe, Edward H.) A method for managing evidential reasoning in a hierarchical hypothesis space: a retrospective.
McCarthy, John History of circumscription.
Moore, Robert C. Autoepistemic logic revisited.
Nilsson, Nils J. Probabilistic logic revisited.
Shortliffe, Edward H. *see* **Gordon, Jean**

Items with secondary classifications in 68–03

(Alon, Noga) *see* **Combinatorics and algorithms, 93k:00032**
Aspray, William An annotated bibliography of secondary sources on the history of software.
— John von Neumann's contributions to computing and computer science. (English summary)
(Babbage, Charles) *see* **Taylor, Nicholas K., 93k:01042**
(Britton, J. L.) *see* **Turing, A. M., 93k:01094**
Buchheim, Reinhard *see* **Manteuffel, Karl, 93a:01025**
Cabrera, Eliseo Antonio (*with* López, Luis M.) Historical development of the calculator. (Spanish)
Ceruzzi, Paul Electronics technology and computer science, 1940–1975: a coevolution. (English summary) **93m:01042**
Cohen, I. Bernard Babbage and Aiken: with notes on Henry Babbage's gift to Harvard, and to other institutions, of a portion of his father's difference engine. (English summary)
(Engeler, Erwin) *see* **Specker, E., 93d:01080**
(Ershov, A. P.) *see* **Pottosin, I. V., 93k:01077a** *and* **93k:01077b**
(Fraenkel, Aviezri S.) *see* **Combinatorics and algorithms, 93k:00032**
(Furbank, P. N.) *see* **Turing, A. M., 93b:01050** *and* **93k:01094**
(Golumbic, Martin Charles) *see* **Combinatorics and algorithms, 93k:00032**
(Good, I. J.) *see* **Turing, A. M., 93k:01094**
Gruska, Jozef (*with* Jürgensen, Helmut) Maturing of informatics. (English summary) (*see* **93i:68008**)
(Ince, D. C.) *see* **Turing, A. M., 93b:01050**
Jürgensen, Helmut *see* **Gruska, Jozef, (93i:68008)**
(Kidwell, Peggy Aldrich) *see* **Martin, Ernst, 93d:01044**
López, Luis M. *see* **Cabrera, Eliseo Antonio**
Manteuffel, Karl (*with* Buchheim, Reinhard) Die Rechenmaschine von Johann Philipp Gruson. [The calculating machine of Johann Philipp Gruson] **93a:01025**
Martin, Ernst ★ The calculating machines (Die Rechenmaschinen). **93d:01044**
(McCarthy, John) *see* **Stoyan, Herbert, 93b:01033**
von Neumann, John The cybernetical movement: von Neumann's letter to Norbert Wiener, 1946. **93k:01053**
Pottosin, I. V. Andrej Petrovich Ershov. **93k:01077a**
— Selected bibliography of Ershov's papers. **93k:01077b**
(Shamir, Eli) *see* **Combinatorics and algorithms, 93k:00032**
Specker, E. Engeler's scientific work. **93d:01080**
Stoyan, Herbert The influence of the designer on the design—J. McCarthy and LISP. **93b:01033**
Taylor, Nicholas K. Charles Babbage's mini-computer—Difference Engine No. 0. **93k:01042**
Turing, A. M. ★ Collected works. **93b:01050**
— ★ Pure mathematics. **93k:01094**
Ueberberg, Johannes ★ Einführung in die Computeralgebra mit REDUCE. (German. German summary) [Introduction to computer algebra using REDUCE] **93j:68091**
Voevodin, V. V. Parallel software from the standpoint of a mathematician. (English summary) **93i:68083**
(Wiener, Norbert) *see* **von Neumann, John, 93k:01053**
Williams, Michael R. Babbage and Bowditch: a transatlantic connection. (English summary) **93m:01040**
— *see also* **Martin, Ernst, 93d:01044**

Items listed otherwise than by author

Bibliography:
Engeler, Erwin *see* **Specker, E., 93d:01080**
Biography:
Engeler, Erwin *see* **Specker, E., 93d:01080**
Collected Works:
Turing, Alan M. *see* **Turing, A. M., 93b:01050** *and* **93k:01094**
Combinatorics and algorithms ★ Combinatorics and algorithms. **93k:00032**

Conference:
Combinatorics and Algorithms ★ Combinatorics and algorithms. **93k:00032**
Correspondence:
von Neumann, John–Wiener, Norbert *see* **von Neumann, John, 93k:01053**
Jerusalem ★ Combinatorics and algorithms. **93k:00032**

68–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 68–04

Fateman, Richard J. A review of Mathematica. **93f:68049**
Knuth, Donald E. A simple program whose proof isn't. **93c:68035**

68–06 Proceedings, conferences, collections, etc.

(Abidi, Mongi A.) *see* **Data fusion in robotics and machine intelligence, 93g:68002**
(Arikawa, Setsuo) *see* **Algorithmic learning theory, 93j:68003**
(Arnold, André) *see* **Colloquium: Trees in Algebra and Programming**
(Asano, Takao) *see* **Symposium: Algorithms, 93m:68006**
(Ayyub, Bilal M.) *see* **Analysis and management of uncertainty: theory and applications, 93f:68004**
(Baum, Eric B.) *see* **Computational learning & cognition, 93m:68001**
(Best, Eike) *see* **Workshop: Concurrency and Compositionality, 93m:68007**
(Beulens, A. J. M.) *see* **Optimization-based computer-aided modelling and design, 93a:68008**
(Bjørner, D.) *see* **Images of programming, 93i:68008**
(Brachman, Ronald J.) *see* **Knowledge representation, 93e:68003**
(Buchmann, Johannes) *see* **Computer science, 93d:68002**
(Černý, Martin) *see* **Fuzzy approach to reasoning and decision-making, 93m:68003**
(Choffrut, C.) *see* **Symposium: Theoretical Aspects of Computer Science, 93c:68002** *and* **93k:68005**
(Courcelle, Bruno) *see* **Logic and data processing: an introduction, 93d:68003** *and* **Workshop: Computing by Graph Transformation, 93h:68005**
(Deprettere, Ed F.) *see* **Algorithms and parallel VLSI architectures, 93a:68004** *and* **93a:68005**
(Duchamp, Gérard) *see* **Workshop: Algebraic and Computer-theoretic Aspects of Formal Power Series, 93a:68010**
(Ershov, A. P.) *see* **Images of programming, 93i:68008**
(Fourman, M. P.) *see* **Applications of categories in computer science, 93d:68001**
(Ganzinger, Harald) *see* **Computer science, 93d:68002**
(Gelenbe, Erol) *see* **Neural networks, 93i:68010**
(Ghezzi, C.) *see* **Workshop: Software Specification and Design, 93m:68008**
(Ginsburg, Seymour) *see* **Theoretical studies in computer science, 93a:68009**
(Gonzalez, Rafael C.) *see* **Data fusion in robotics and machine intelligence, 93g:68002**
(Grandjean, É.) *see* **Logic and applications to computer science, 93b:68003**
(Gupta, G. K.) *see* **Conference: Computer Science, 93i:68005** *and* **93i:68006**
(Gupta, Madan M.) *see* **Analysis and management of uncertainty: theory and applications, 93f:68004**
(Hand, David J.) *see* **Artificial intelligence and statistics, 93j:68005**
(Hotz, Günter) *see* **Computer science, 93d:68002**
(Ito, Masami[1]) *see* **Colloquium: Words, Languages and Combinatorics, 93h:68001**
(Jacob, Gérard) *see* **Workshop: Algebraic and Computer-theoretic Aspects of Formal Power Series, 93a:68010**
(Jantzen, M.) *see* **Symposium: Theoretical Aspects of Computer Science, 93k:68005**
(Johnstone, Peter T.) *see* **Applications of categories in computer science, 93d:68001**
(Kanal, Laveen N.) *see* **Analysis and management of uncertainty: theory and applications, 93f:68004**
(Keen, C. D.) *see* **Conference: Computer Science, 93i:68005** *and* **93i:68006**
(Kirchner, Hélène) *see* **Conference: Algebraic and Logic Programming, 93e:68002**
(Klette, Reinhard) *see* **Theoretical foundations of computer vision, 93j:68009**
(Kotov, V. E.) *see* **Images of programming, 93i:68008**
(Krob, Daniel) *see* **Workshop: Algebraic and Computer-theoretic Aspects of Formal Power Series, 93a:68010**
(Kropatsch, Walter G.) *see* **Theoretical foundations of computer vision, 93j:68009**
(Kunii, Tosiyasu L.) *see* **Modern geometric computing for visualization, 93f:68006**
(Kwiatkowska, Marta Z.) *see* **Workshop: Semantics for Concurrency, 93b:68007**
(Lengauer, Th.) *see* **Symposium: Theoretical Aspects of Computer Science, 93c:68002** *and* **Combinatorial methods in VLSI, 93f:68005**
(Levesque, Hector J.) *see* **Knowledge representation, 93e:68003**
(Mareš, Milan) *see* **Fuzzy approach to reasoning and decision-making, 93m:68003**
(Maruoka, Akira) *see* **Algorithmic learning theory, 93j:68003**
(Miola, Alfonso) *see* **Theoretical issues of design and implementation of symbolic computation systems, 93e:68005**
(Mislove, Michael W.) *see* **Workshop: Mathematical Foundations of Programming Semantics, 93k:68006**
(Mitchell, John C.) *see* **Logic in computer science, 93m:68005**
(Möhring, Rolf H.) *see* **Combinatorial methods in VLSI, 93f:68005**
(Nadel, Lynn) *see* **Lectures in complex systems, 93h:68003**
(Nakata, Ikuo) *see* **Advances in software science and technology, 93j:68002**
(Nekola, Jiří) *see* **Fuzzy approach to reasoning and decision-making, 93m:68003**
(Nishizeki, Takao) *see* **Symposium: Algorithms, 93m:68006**
(Nivat, Maurice) *see* **Tree automata and languages, 93f:68007**
(Novák, Vilém) *see* **Fuzzy approach to reasoning and decision-making, 93m:68003**
(Papadimitriou, Christos H.) *see* **Symposium: Theory of Computing, 93e:68004**
(Paterson, Michael S.) *see* **Boolean function complexity, 93j:68006**
(Paul, Wolfgang J.) *see* **Computer science, 93d:68002**
(Peng, Qun Sheng) *see* **Computer-aided design & computer graphics, 93a:68006**
(Pitts, Andrew M.) *see* **Applications of categories in computer science, 93d:68001**
(Podelski, Andreas) *see* **Tree automata and languages, 93f:68007**
(Quinton, Patrice) *see* **Algorithms and parallel VLSI architectures, 93f:68003**
(Ramík, Jaroslav) *see* **Fuzzy approach to reasoning and decision-making, 93m:68003**
(Reed, G. M.) *see* **Topology and category theory in computer science, 93h:68004**
(Reiter, Raymond) *see* **Knowledge representation, 93e:68003**
(Robert, Yves) *see* **Algorithms and parallel VLSI architectures, 93f:68003**
(Roman, Gruia-Catalin) *see* **Workshop: Software Specification and Design, 93m:68008**
(Roscoe, A. W.) *see* **Topology and category theory in computer science, 93h:68004**
(Rozenberg, Grzegorz) *see* **Workshop: Computing by Graph Transformation, 93h:68005; Lindenmayer systems, 93m:68004** *and* **Workshop: Concurrency and Compositionality, 93m:68007**
(Rus, Teodor) *see* **Conference: Algebraic Methodology and Software Technology, 93m:68002**
(Salomaa, Arto) *see* **Lindenmayer systems, 93m:68004**
(Saraswat, Vijay) *see* **Logic programming, 93i:68009**
(Sato, Taisuke) *see* **Algorithmic learning theory, 93j:68003**
(Sebastian, Hans-Jürgen) *see* **Optimization-based computer-aided modelling and design, 93a:68008**
(Sharir, Micha) *see* **Algorithmic motion planning in robotics, 93j:68004**
(Shinagawa, Yoshihisa) *see* **Modern geometric computing for visualization, 93f:68006**
(Staudhammer, John) *see* **Computer-aided design & computer graphics, 93a:68006**
(Stein, Daniel L.) *see* **Lectures in complex systems, 93h:68003**
(Tarlecki, Andrzej) *see* **Mathematical foundations of computer science '91, 93c:68001**
(Tennent, R. D.) *see* **Workshop: Mathematical Foundations of Programming Semantics, 93k:68006**
(Thiagarajan, P. S.) *see* **Seminar: Theoretical Computer Science, 93b:68006**
(Ueda, Kazunori) *see* **Logic programming, 93i:68009**
(Ullman, Jeffrey D.) *see* **Theoretical studies in computer science, 93a:68009**
(van der Veen, Alle-Jan) *see* **Algorithms and parallel VLSI architectures, 93a:68004** *and* **93a:68005**
(Wachter, R. F.) *see* **Topology and category theory in computer science, 93h:68004**
(Wand, Mitchell) *see* **Conference: Lisp and Functional Programming, 93h:68002**
(Wechler, Wolfgang) *see* **Conference: Algebraic and Logic Programming, 93e:68002**
(Yablonskiĭ, S. V.) *see* **Mathematical problems in cybernetics, 93k:68002**
(Yanov, Yu. I.) *see* **Mathematical logic in programming, 93d:68004**
(Zakhar'yashchev, M. V.) *see* **Mathematical logic in programming, 93d:68004**

Items listed otherwise than by author

ACM Symposium:
Computational Geometry ★ Proceedings of the Fourth Annual Symposium on Computational Geometry. **93k:68003**
Advances in software science and technology ★ Advances in software science and technology. Vol. 3. **93j:68002**
Algorithmic learning theory ★ Algorithmic learning theory. II. **93j:68003**
Algorithmic motion planning in robotics ★ Algorithmic motion planning in robotics. **93j:68004**
Algorithms and parallel VLSI architectures ★ Algorithms and parallel VLSI architectures. Vol. A. **93a:68004**
— ★ Algorithms and parallel VLSI architectures. Vol. B. **93a:68005**
— ★ Algorithms and parallel VLSI architectures. II. **93f:68003**
Analysis and management of uncertainty: theory and applications ★ Analysis and management of uncertainty: theory and applications. **93f:68004**
Applications of categories in computer science ★ Applications of categories in computer science. **93d:68001**
Artificial intelligence and statistics ★ Artificial intelligence and statistics. II. **93j:68005**
Bechyně ★ Fuzzy approach to reasoning and decision-making. **93m:68003**
Birthday:
Ginsburg, Seymour ★ Theoretical studies in computer science. **93a:68009**
Hotz, Günther ★ Informatik. [Computer science] **93d:68002**
Boolean function complexity ★ Boolean function complexity. **93j:68006**
Bordeaux ★ International Workshop on Computing by Graph Transformation. **93h:68005**
Buckow ★ Theoretical foundations of computer vision. **93j:68009**
Capri ★ Theoretical issues of design and implementation of symbolic computation systems. **93e:68005**
Château de Bonas ★ Algorithms and parallel VLSI architectures. II. **93f:68003**
College Park, MD ★ Analysis and management of uncertainty: theory and applications. **93f:68004**
Colloquium:
Trees in Algebra and Programming ★ Fifteenth Colloquium on Trees in Algebra and Programming (CAAP '90).
Words, Languages and Combinatorics ★ International Colloquium on Words, Languages and Combinatorics. **93h:68001**
Combinatorial methods in VLSI ★ Combinatorial methods in VLSI. **93f:68005**
Como ★ Sixth International Workshop on Software Specification and Design (6IWSSD). **93m:68008**
Computational learning & cognition ★ Computational learning & cognition. **93m:68001**
Computer-aided design & computer graphics ★ Computer-aided design & computer graphics. **93a:68006**
Computer science ★ Informatik. [Computer science] **93d:68002**
Conference:
Algebraic and Logic Programming ★ Second International Conference on Algebraic and Logic Programming. **93e:68002**
Algebraic Methodology and Software Technology ★ International Conference on Algebraic Methodology and Software Technology (AMAST 91). **93m:68002**
Artificial Intelligence ★ AAAI-91. Proceedings, Ninth National Conference on Artificial Intelligence. Vol. 1, 2. **93i:68011**
— ★ AAAI-92. Proceedings, Tenth National Conference on Artificial Intelligence. **93j:68007**
Computer-aided Design & Computer Graphics ★ Computer-aided design & computer graphics. **93a:68006**
Computer Science ★ Fifteenth Australian Computer Science Conference (ACSC-15). **93i:68005**
— ★ Fifteenth Australian Computer Science Conference (ACSC-15). **93i:68006**

Conference: (*cont'd.*)
Fifth Generation Computer Systems ★ Fifth generation computer systems 1992. Vol. 1, 2. **93i:68007**
Lisp and Functional Programming ★ 1990 ACM Conference on Lisp and Functional Programming. **93h:68002**
Optimization-based Computer-aided Modelling and Design ★ Optimization-based computer-aided modelling and design. **93a:68008**
Symbolic Computation ★ International Conference on Symbolic Computation. **93a:68007**
Copenhagen ★ Fifteenth Colloquium on Trees in Algebra and Programming (CAAP '90).
Data fusion in robotics and machine intelligence ★ Data fusion in robotics and machine intelligence. **93g:68002**
Durham ★ Applications of categories in computer science. **93d:68001**
— ★ Boolean function complexity. **93j:68006**
Festschrift:
Hotz, Günther ★ Informatik. [Computer science] **93d:68002**
Fifth generation computer systems ★ Fifth generation computer systems 1992. Vol. 1, 2. **93i:68007**
Fort Lauderdale, FL ★ Artificial intelligence and statistics. II. **93j:68005**
Fuzzy approach to reasoning and decision-making ★ Fuzzy approach to reasoning and decision-making. **93m:68003**
Goslar ★ 3rd Workshop on Concurrency and Compositionality. **93m:68007**
Hamburg, 1991 ★ 8th Annual Symposium on Theoretical Aspects of Computer Science (STACS 91). **93k:68005**
Hangzhou ★ Computer-aided design & computer graphics. **93a:68006**
Hobart ★ Fifteenth Australian Computer Science Conference (ACSC-15). **93i:68005**
— ★ Fifteenth Australian Computer Science Conference (ACSC-15). **93i:68006**
IEEE Symposium:
Logic in Computer Science ★ Logic in computer science. **93m:68005**
Images of programming ★ Images of programming. **93i:68008**
Informatik ★ Informatik. [Computer science] **93d:68002**
Iowa City, IA ★ International Conference on Algebraic Methodology and Software Technology (AMAST 91). **93m:68002**
Kazimierz Dolny ★ Mathematical foundations of computer science '91. **93c:68001**
Kingston, ON ★ 6th Workshop on the Mathematical Foundations of Programming Semantics. **93k:68006**
Knowledge representation ★ Knowledge representation. **93e:68003**
Kyoto ★ International Colloquium on Words, Languages and Combinatorics. **93h:68001**
Le Touquet ★ Tree automata and languages. **93f:68007**
Lecture Notes in Control and Information Sciences ★ Optimization-based computer-aided modelling and design. **93a:68008**
Lectures in complex systems ★ 1990 lectures in complex systems. **93h:68003**
Leicester ★ Selected papers of the International BCS-FACS Workshop on Semantics for Concurrency. **93b:68007**
Lindenmayer systems ★ Lindenmayer systems. **93m:68004**
Logic and applications to computer science ★ Logic and applications to computer science. **93b:68003**
Logic and data processing: an introduction ★ Logique et informatique: une introduction. (French) [Logic and data processing: an introduction] **93d:68003**
Logic in computer science ★ Logic in computer science. **93m:68005**
Logic programming ★ Logic programming. **93i:68009**
Logique et informatique: une introduction ★ Logique et informatique: une introduction. (French) [Logic and data processing: an introduction] **93d:68003**
Madras ★ National Seminar on Theoretical Computer Science. **93b:68006**
Madrid ★ II Encuentro de Geometría Computacional. (Spanish) [II Meeting on Computational Geometry] **93b:68004**
Mathematical foundations of computer science '91 ★ Mathematical foundations of computer science '91. **93c:68001**
Mathematical logic in programming ★ Математическая логика в программировании. (Russian) [Mathematical logic in programming] **93d:68004**
Mathematical problems in cybernetics ★ Математические вопросы кибернетики. Вып. 4. (Russian) [Mathematical problems in cybernetics. No. 4] **93k:68002**
Meeting:
Computational Geometry ★ II Encuentro de Geometría Computacional. (Spanish) [II Meeting on Computational Geometry] **93b:68004**
Modern geometric computing for visualization ★ Modern geometric computing for visualization. **93f:68006**
Nancy ★ Second International Conference on Algebraic and Logic Programming. **93e:68002**
Neural networks ★ Neural networks. **93i:68010**
Nice ★ 1990 ACM Conference on Lisp and Functional Programming. **93h:68002**
Optimization-based computer-aided modelling and design ★ Optimization-based computer-aided modelling and design. **93a:68008**
Orlando, FL ★ Proceedings of the Third Annual ACM-SIAM Symposium on Discrete Algorithms. **93b:68005**
Oxford ★ Topology and category theory in computer science. **93h:68004**
Paris ★ Second Workshop on Algebraic and Computer-theoretic Aspects of Formal Power Series. **93a:68010**
— ★ Logic and applications to computer science. **93b:68003**
Pont-à-Mousson ★ Algorithms and parallel VLSI architectures. Vol. A. **93a:68004**
— ★ Algorithms and parallel VLSI architectures. Vol. B. **93a:68005**
Princeton, NJ ★ Computational learning & cognition. **93m:68001**
Proceedings:
ACM Symposium on Computational Geometry ★ Proceedings of the Fourth Annual Symposium on Computational Geometry. **93k:68003**
Conference on Artificial Intelligence ★ AAAI-91. Proceedings, Ninth National Conference on Artificial Intelligence. Vol. 1, 2. **93i:68011**
— ★ AAAI-92. Proceedings, Tenth National Conference on Artificial Intelligence. **93j:68007**
Proceedings: (*cont'd.*)
Symposium on Discrete Algorithms ★ Proceedings of the Third Annual ACM-SIAM Symposium on Discrete Algorithms. **93b:68005**
Rouen ★ 7th Annual Symposium on Theoretical Aspects of Computer Science (STACS 90). **93c:68002**
San Diego, CA ★ Logic programming. **93i:68009**
San Jose, CA ★ AAAI-92. Proceedings, Tenth National Conference on Artificial Intelligence. **93j:68007**
San Juan, PR ★ 32nd Annual Symposium on Foundations of Computer Science. **93d:68005**
Santa Fe, NM ★ 1990 lectures in complex systems. **93h:68003**
School:
Complex Systems ★ 1990 lectures in complex systems. **93h:68003**
Seattle, WA ★ Twenty-first Symposium on the Theory of Computing. **93e:68004**
Seminar:
Theoretical Computer Science ★ National Seminar on Theoretical Computer Science. **93b:68006**
Special Issue:
Algorithmic motion planning in robotics ★ Algorithmic motion planning in robotics. **93j:68004**
Combinatorial methods in VLSI ★ Combinatorial methods in VLSI. **93f:68005**
Image processing ★ Special issue on image processing. **93k:68004**
STACS 90 ★ 7th Annual Symposium on Theoretical Aspects of Computer Science (STACS 90). **93c:68002**
STACS 91 ★ 8th Annual Symposium on Theoretical Aspects of Computer Science (STACS 91). **93k:68005**
Symposium:
Algorithms ★ Selections from SIGAL International Symposium on Algorithms. **93m:68006**
Applications of Categories in Computer Science ★ Applications of categories in computer science. **93d:68001**
Boolean Function Theory ★ Boolean function complexity. **93j:68006**
Computational Learning and Cognition ★ Computational learning & cognition. **93m:68001**
Design and Implementation of Symbolic Computation Systems ★ Theoretical issues of design and implementation of symbolic computation systems. **93e:68005**
Discrete Algorithms ★ Proceedings of the Third Annual ACM-SIAM Symposium on Discrete Algorithms. **93b:68005**
Foundations of Computer Science ★ 32nd Annual Symposium on Foundations of Computer Science. **93d:68005**
Fuzzy Approach to Reasoning and Decision Making ★ Fuzzy approach to reasoning and decision-making. **93m:68003**
Logic Programming ★ Logic programming. **93i:68009**
Mathematical Foundations of Computer Science ★ Mathematical foundations of computer science '91. **93c:68001**
Theoretical Aspects of Computer Science ★ 7th Annual Symposium on Theoretical Aspects of Computer Science (STACS 90). **93c:68002**
— ★ 8th Annual Symposium on Theoretical Aspects of Computer Science (STACS 91). **93k:68005**
Theoretical Computer Science and Related Topics ★ Riron keisanki kagaku to sono shūhen. (Japanese) [Theoretical computer science and related topics] **93j:68008**
Theory of Computing ★ Twenty-first Symposium on the Theory of Computing. **93e:68004**
Topology ★ Topology and category theory in computer science. **93h:68004**
Uncertainty Modeling and Analysis ★ Analysis and management of uncertainty: theory and applications. **93f:68004**
The Hague ★ Optimization-based computer-aided modelling and design. **93a:68008**
Theoretical computer science and related topics ★ Riron keisanki kagaku to sono shūhen. (Japanese) [Theoretical computer science and related topics] **93j:68008**
Theoretical foundations of computer vision ★ Theoretical foundations of computer vision. **93j:68009**
Theoretical issues of design and implementation of symbolic computation systems ★ Theoretical issues of design and implementation of symbolic computation systems. **93e:68005**
Theoretical studies in computer science ★ Theoretical studies in computer science. **93a:68009**
Tokyo ★ Modern geometric computing for visualization. **93f:68006**
— ★ Fifth generation computer systems 1992. Vol. 1, 2. **93i:68007**
— ★ Algorithmic learning theory. II. **93j:68003**
— ★ Selections from SIGAL International Symposium on Algorithms. **93m:68006**
Topology and category theory in computer science ★ Topology and category theory in computer science. **93h:68004**
Tree automata and languages ★ Tree automata and languages. **93f:68007**
Urbana, IL ★ Proceedings of the Fourth Annual Symposium on Computational Geometry. **93k:68003**
Workshop:
Algebraic and Computer-theoretic Aspects of Formal Power Series ★ Second Workshop on Algebraic and Computer-theoretic Aspects of Formal Power Series. **93a:68010**
Algorithmic Learning Theory ★ Algorithmic learning theory. II. **93j:68003**
Algorithms and Parallel VLSI Architectures ★ Algorithms and parallel VLSI architectures. Vol. A. **93a:68004**
— ★ Algorithms and parallel VLSI architectures. Vol. B. **93a:68005**
— ★ Algorithms and parallel VLSI architectures. II. **93f:68003**
Artificial Intelligence and Statistics ★ Artificial intelligence and statistics. II. **93j:68005**
Computing by Graph Transformation ★ International Workshop on Computing by Graph Transformation. **93h:68005**
Concurrency and Compositionality ★ 3rd Workshop on Concurrency and Compositionality. **93m:68007**
Logic and Applications to Computer Science ★ Logic and applications to computer science. **93b:68003**

Workshop: (*cont'd.*)
Mathematical Foundations of Programming Semantics ★ 6th Workshop on the Mathematical Foundations of Programming Semantics. **93k:68006**
Modern Geometric Computing for Visualization ★ Modern geometric computing for visualization. **93f:68006**
Semantics for Concurrency ★ Selected papers of the International BCS-FACS Workshop on Semantics for Concurrency. **93b:68007**
Software Specification and Design ★ Sixth International Workshop on Software Specification and Design (6IWSSD). **93m:68008**
Theoretical Foundations of Computer Vision ★ Theoretical foundations of computer vision. **93j:68009**
Tree Languages and Tree Automata ★ Tree automata and languages. **93f:68007**
Zurich ★ International Conference on Symbolic Computation. **93a:68007**

Items with secondary classifications in 68–06

(Apt, K. R.) *see* **Logic programming languages, 93k:68020**
(Atallah, Mikhail J.) *see* **Symposium: Computational Geometry**
(Baeten, J. C. M.) *see* **Applications of process algebra, 93g:68090**
(de Bakker, J. W.) *see* **Logic programming languages, 93k:68020**
(Barone, P.) *see* **Stochastic models, statistical methods, and algorithms in image analysis, 93e:62005**
(Bermond, Jean-Claude) *see* **Interconnection networks, 93j:00012**
(Chellappa, Rama) *see* **Markov random fields, 93j:68224**
(Evans, David J.) *see* **Parallel computing '91, 93f:00016**
(Frigessi, Arnoldo) *see* **Stochastic models, statistical methods, and algorithms in image analysis, 93e:62005**
(Galbiati, G.) *see* **Combinatorial structures and algorithms, 93k:90004**
(Gorchakov, Yu. M.) *see* **Constructions in algebra and logic, 93m:00021**
(Jain, Anil) *see* **Markov random fields, 93j:68224**
(Joubert, G. R.) *see* **Parallel computing '91, 93f:00016**
(Kárný, Miroslav) *see* **Mutual impact of computing power and control theory, 93f:93005**
(Kong, T. Yung) *see* **Special Issue: Digital topology, 93g:68151**
(Kopperman, Ralph) *see* **Special Issue: Digital topology, 93g:68151**
(Lebedev, S. A.) *see* **Cybernetics and computer technology, 93b:00025**
(Liddell, H.) *see* **Parallel computing '91, 93f:00016**
(Maffioli, F.) *see* **Combinatorial structures and algorithms, 93k:90004**
(Mel'nikov, V. A.) *see* **Cybernetics and computer technology, 93b:00025**
(Meyer, Paul R.) *see* **Special Issue: Digital topology, 93g:68151**
(Nordström, Bengt) *see* **Programming logic, 93h:68089**
(Piccioni, Mauro) *see* **Stochastic models, statistical methods, and algorithms in image analysis, 93e:62005**
(Rutten, Jan J. M. M.) *see* **Logic programming languages, 93k:68020**
(Selman, Alan L.) *see* **Structure in complexity theory, 93g:68050**
(Simion, Rodica) *see* **Combinatorics and theoretical computer science**
(Traub, Joseph F.) *see* **Festschrift: Traub, Joseph F., 93m:00048**
(Volkov, V. Ya.) *see* **Geometric modeling of engineering objects and technological processes, 93k:68108**
(Warwick, Kevin) *see* **Mutual impact of computing power and control theory, 93f:93005**
(Woźniakowski, Henryk) *see* **Festschrift: Traub, Joseph F., 93m:00048**

Items listed otherwise than by author

Algebraic theory of codes and combinatorics on words ★ Daisūteki kōdo riron oyobi go no kumiawaseron. (Japanese) [Algebraic theory of codes and combinatorics on words] **93g:94003**
Applications of process algebra ★ Applications of process algebra. **93g:68090**
Austin, TX ★ Proceedings of the Fourth Annual ACM-SIAM Symposium on Discrete Algorithms. **93k:05002**
Barcelona ★ Structure in complexity theory. **93g:68050**
Båstad ★ Programming logic. **93h:68089**
Berkeley, CA ★ 1990 Computational Geometry Symposium.
Birthday:
Lebedev, S. A. ★ Кибернетика и вычислительная техника. Вып. 5. (Russian) [Cybernetics and computer technology. No. 5] **93b:00025**
Boca Raton, FL ★ Proceedings of the Twenty-third Southeastern International Conference on Combinatorics, Graph Theory, and Computing.
Combinatorial structures and algorithms ★ Combinatorial structures and algorithms. **93k:90004**
Combinatorics and theoretical computer science ★ Combinatorics and theoretical computer science.
Conference:
Combinatorics and Theoretical Computer Science ★ Combinatorics and theoretical computer science.
Combinatorics, Graph Theory, and Computing ★ Proceedings of the Twenty-third Southeastern International Conference on Combinatorics, Graph Theory, and Computing.
Parallel Computing '91 ★ Parallel computing '91. **93f:00016**
Constructions in algebra and logic ★ Конструкции в алгебре и логике. (Russian) [Constructions in algebra and logic] **93m:00021**
Cybernetics and computer technology ★ Кибернетика и вычислительная техника. Вып. 5. (Russian) [Cybernetics and computer technology. No. 5] **93b:00025**
Festschrift:
Traub, Joseph F. ★ Festschrift for Joseph F. Traub. Part II. **93m:00048**
Fuzzy information processing and machine intelligence ★ Mohu xinxi chuli yu jiqi zhineng zhuanji. (Chinese) [Fuzzy information processing and machine intelligence] **93f:68086**
Geometric modeling of engineering objects and technological processes ★ Геометрическое моделирование инженерных объектов и технологических процессов. (Russian) [Geometric modeling of engineering objects and technological processes] **93k:68108**
IEEE Conference:
Structure in Complexity Theory ★ Structure in complexity theory. **93g:68050**
IFAC Workshop:
Mutual Impact of Computing Power and Control Theory ★ Mutual impact of computing power and control theory. **93f:93005**
Interconnection networks ★ Interconnection networks. **93j:00012**
Lecture Notes in Statistics ★ Stochastic models, statistical methods, and algorithms in image analysis. **93e:62005**
Logic programming languages ★ Logic programming languages. **93k:68020**
London ★ Parallel computing '91. **93f:00016**
Markov random fields ★ Markov random fields. **93j:68224**
Mutual impact of computing power and control theory ★ Mutual impact of computing power and control theory. **93f:93005**
Parallel computing '91 ★ Parallel computing '91. **93f:00016**
Prague ★ Mutual impact of computing power and control theory. **93f:93005**
Proceedings:
Conference on Combinatorics, Graph Theory, and Computing ★ Proceedings of the Twenty-third Southeastern International Conference on Combinatorics, Graph Theory, and Computing.
Symposium on Discrete Algorithms ★ Proceedings of the Fourth Annual ACM-SIAM Symposium on Discrete Algorithms. **93k:05002**
Programming logic ★ Programming logic. **93h:68089**
Rome ★ Stochastic models, statistical methods, and algorithms in image analysis. **93e:62005**
Special Issue:
Combinatorial structures and algorithms ★ Combinatorial structures and algorithms. **93k:90004**
Digital topology ★ Special issue on digital topology. **93g:68151**
Fuzzy information processing and machine intelligence ★ Mohu xinxi chuli yu jiqi zhineng zhuanji. (Chinese) [Fuzzy information processing and machine intelligence] **93f:68086**
Special Year:
Image Analysis ★ Stochastic models, statistical methods, and algorithms in image analysis. **93e:62005**
Stochastic models, statistical methods, and algorithms in image analysis ★ Stochastic models, statistical methods, and algorithms in image analysis. **93e:62005**
Structure in complexity theory ★ Structure in complexity theory. **93g:68050**
Symposium:
Algebraic Theory of Codes and Combinatorics on Words ★ Daisūteki kōdo riron oyobi go no kumiawaseron. (Japanese) [Algebraic theory of codes and combinatorics on words] **93g:94003**
Computational Geometry ★ 1990 Computational Geometry Symposium.
Discrete Algorithms ★ Proceedings of the Fourth Annual ACM-SIAM Symposium on Discrete Algorithms. **93k:05002**
Washington, DC ★ Combinatorics and theoretical computer science.
Workshop:
Programming Logic ★ Programming logic. **93h:68089**

68Mxx Computer system organization

68M05 General

Holden, Arun V. (*with* Tucker, J. V.; Thompson, B. C.) Excitable media as computational systems. (*see* **93e:00026**)
Thompson, B. C. *see* **Holden, Arun V.; et al., (93e:00026)**
Tucker, J. V. *see* **Holden, Arun V.; et al., (93e:00026)**

68M07 Mathematical problems of computer architecture

Al-Bassam, Sulaiman (*with* El-Rewini, Hesham; Bose, Bella; Lewis, T. G.) Processor allocation for hypercubes. (English summary)
Bhargava, Vijay K. *see* **Hasan, M. Anwarul; et al.**
Bibilo, P. N. Limited column convolution of programmed logic matrices. (Russian. English and Russian summaries)
Boros, Endre (*with* Hammer, Peter L.; Shamir, Ron) A polynomial algorithm for balancing acyclic data flow graphs. (English summary) **93g:68003**
Bose, Bella *see* **Al-Bassam, Sulaiman; et al.**
Chan, Mee Yee Embedding of grids into optimal hypercubes. **93c:68003**
Chiang, Jen-Shiun *see* **Lu, Mi, 93i:68012**
Das, Sajal K. Designing recursive networks combinatorially. **93c:68004**
El-Rewini, Hesham *see* **Al-Bassam, Sulaiman; et al.**
Flynn, Michael J. *see* **Wong, Derek, 93i:68015**
Francese, R. (*with* Pagli, Linda; Parente, D.; Talamo, M.) A new model for large memories. (English summary)
Gupta, Ajay K. (*with* Hambrusch, Susanne E.) Load balanced tree embeddings. **93c:68005**
Hambrusch, Susanne E. *see* **Gupta, Ajay K., 93c:68005**
Hammer, Peter L. *see* **Boros, Endre; et al., 93g:68003**
Hasan, M. Anwarul (*with* Wang, Muzhong; Bhargava, Vijay K.) Modular construction of low complexity parallel multipliers for a class of finite fields GF(2^m). (English summary)
— (*with* Bhargava, Vijay K.) Bit-serial systolic divider and multiplier for finite fields GF(2^m). (English summary)
Kluge, Werner ★ The organization of reduction, data flow, and control flow systems. (English. English summary) **93m:68009**
Kramosil, Ivan The most simple systolic architectures for parallel probabilistic searching algorithms. (English summary) (*see* **93f:93005**)
Kubota, Hajime *see* **Tsubokawa, Hiroshi; et al.**
Lewis, T. G. *see* **Al-Bassam, Sulaiman; et al.**
Likhoded, N. A. (*with* Sobolevskiĭ, P. I.) An approach to the design of one-dimensional systolic arrays. (Russian. English and Russian summaries)
Liu, Zhi Yong (*with* You, Jia-Huai) An implementation of a nonlinear skewing scheme.

Lohner, Rudolf J. Interval arithmetic in staggered correction format. (English summary) **93j:68010**

Lu, Mi (*with* Chiang, Jen-Shiun) A novel division algorithm for the residue number system. (English summary) **93i:68012**

Miel, George Linear algebraic structures of algorithmic mappings on array processors. (English summary) **93i:68013**

Olariu, Stephan (*with* Schwing, James L.; Zhang, Jingyuan) Applications of reconfigurable meshes to constant-time computations. (English summary) **93i:68014**

Pagli, Linda *see* **Francese, R.; et al.**

Parente, D. *see* **Francese, R.; et al.**

Pichat, Michèle Sets of floating-point results associated with an algebraic algorithm. (English summary) **93m:68010**

Plateau, Brigitte (*with* Trystram, Denis) Optimal total exchange for a 3-D torus of processors.

Risset, Tanguy Linear systolic arrays for matrix multiplication: comparisons of existing synthesis methods and new results. (*see* **93f:68003**)

Schwing, James L. *see* **Olariu, Stephan; et al., 93i:68014**

Shamir, Ron *see* **Boros, Endre; et al., 93g:68003**

Sobolevskiĭ, P. I. *see* **Likhoded, N. A.**

Talamo, M. *see* **Francese, R.; et al.**

Trystram, Denis *see* **Plateau, Brigitte**

Tsubokawa, Hiroshi (*with* Tsujii, Shigeo; Kubota, Hajime) Recursive least-square algorithm with UD factorization by fixed-point arithmetic.

Tsujii, Shigeo *see* **Tsubokawa, Hiroshi; et al.**

Wang, Muzhong *see* **Hasan, M. Anwarul; et al.**

Wong, Derek (*with* Flynn, Michael J.) Fast division using accurate quotient approximations to reduce the number of iterations. (English summary) **93i:68015**

You, Jia-Huai *see* **Liu, Zhi Yong**

Zhang, Jingyuan *see* **Olariu, Stephan; et al., 93i:68014**

Items with secondary classifications in 68M07

Alad'ev, V. Z. ★ Однородные структуры. (Russian) [Homogeneous structures] **93f:68028**

Antonelli, Silvano (*with* Pelagatti, Susanna) On the complexity of the mapping problem for massively parallel architectures. (English summary) **93k:68029**

Bruck, Jehoshua (*with* Smolensky, Roman) Polynomial threshold functions, AC^0 functions, and spectral norms. **93a:68053**

Chin, Andrew Permutations on the block PRAM. (English summary)

Feder, Tomás A new fixed point approach for stable networks and stable marriages. (English summary) **93j:68154**

Jansen, Klaus The interconnection problem. (English summary) **93k:68009**

Leighton, Frank Thomson (*with* Ma, Yuan; Plaxton, C. Greg) Highly fault-tolerant sorting circuits. (English summary) (*see* **93d:68005**)

Lou, R. D. (*with* Sarrafzadeh, Majid; Rim, C. S.; Nakajima, Kazuo; Masuda, Sumio) General circular permutation layout. **93e:68041**

Ma, Yuan *see* **Leighton, Frank Thomson; et al., (93d:68005)**

Masuda, Sumio *see* **Lou, R. D.; et al., 93e:68041**

Mauw, S. Process algebra as a tool for the specification and verification of CIM-architectures. (*see* **93g:68090**)

Nakajima, Kazuo *see* **Lou, R. D.; et al., 93e:68041**

Pelagatti, Susanna *see* **Antonelli, Silvano, 93k:68029**

Plaxton, C. Greg *see* **Leighton, Frank Thomson; et al., (93d:68005)**

Rim, C. S. *see* **Lou, R. D.; et al., 93e:68041**

Sarrafzadeh, Majid *see* **Lou, R. D.; et al., 93e:68041**

Smolensky, Roman *see* **Bruck, Jehoshua, 93a:68053**

68M10 Computer networks [see also 90B12]

Acharya, Arup (*with* Badrinath, B. R.) Recording distributed snapshots based on causal order of message delivery. (English summary)

Agrawal, D. (*with* El Abbadi, A.) The generalized tree quorum protocol: an efficient approach for managing replicated data. (English summary)

Akyildiz, I. F. *see* **Cheng, Ying; et al., 93m:68013**

Alon, Noga (*with* Bar-Noy, Amotz; Linial, Nathan; Peleg, David) Single round simulation on radio networks. (English summary) **93m:68011**

Badrinath, B. R. *see* **Acharya, Arup**

Bagchi, Amitava (*with* Schmeichel, Edward; Hakimi, S. Louis) Sequential information dissemination by packets. **93c:68006**

Bar-Noy, Amotz (*with* Dolev, Danny) A partial equivalence between shared-memory and message-passing in an asynchronous fail-stop distributed environment. (English summary) **93i:68016**

— *see also* **Alon, Noga; et al., 93m:68011**

Bar-Yehuda, Reuven (*with* Goldreich, Oded; Itai, Alon) On the time-complexity of broadcast in multi-hop radio networks: an exponential gap between determinism and randomization.

Berman, Piotr (*with* Garay, Juan A.) Cloture votes: $n/4$-resilient distributed consensus in $t+1$ rounds. (English summary) **93i:68017**

Bermond, Jean-Claude (*with* Hell, Pavol; Liestman, Arthur L.; Peters, Joseph G.) Sparse broadcast graphs. **93a:68011**

Bernstein, Arthur J. *see* **Singh, Gurdip**

Bertsekas, Dimitri P. *see* **Varvarigos, Emmanouel A., 93j:68019**

Brown, Larry Recursive cube-connected cube networks. (English summary) **93m:68012**

Cheng, Ying (*with* Hwang, F. K.; Akyildiz, I. F.; Hsu, D. Frank) Routing algorithms for double loop networks. (English summary) **93m:68013**

Cheung, Steven (*with* Lau, Francis C. M.) Mesh permutation routing with locality. (English summary) **93h:68006**

— (*with* Lau, Francis C. M.) A lower bound for permutation routing on two-dimensional bused meshes. (English summary) **93k:68007**

Chin, Andrew Permutations on the block PRAM. (English summary)

Choi, Hyeong-Ah (*with* Esfahanian, Abdol-Hossein) A message-routing strategy for multicomputer systems. (English summary)

Clark, W. Edwin (*with* McColm, Gregory L.; Stark, W. Richard) On the complexity of deadlock-free programs on a ring of processors. (English summary)

Coan, Brian A. (*with* Lundelius Welch, Jennifer) Modular construction of a Byzantine agreement protocol with optimal message bit complexity. **93a:68012**

— (*with* Lundelius Welch, Jennifer) Modular construction of an efficient 1-bit Byzantine agreement protocol. (English summary) **93i:68018**

Coolsaet, K. (*with* De Meyer, H.; Fack, V.) Optimal algorithms for total exchange without buffering on the hypercube. (English summary) **93g:68004**

De Meyer, H. *see* **Coolsaet, K.; et al., 93g:68004**

Dolev, Danny (*with* Feder, Tomás) Determinism vs. nondeterminism in multiparty communication complexity. (English summary) **93i:68019**

— *see also* **Bar-Noy, Amotz, 93i:68016**

El Abbadi, A. *see* **Agrawal, D.**

Erdős, Paul (*with* Hsu, D. Frank) Distributed loop network with minimum transmission delay. **93d:68006**

Esfahanian, Abdol-Hossein *see* **Zimmerman, Guy W., 93e:68007** *and* **Choi, Hyeong-Ah**

Etzion, Tuvi *see* **Goldfeld, David, 93j:68012**

Fack, V. *see* **Coolsaet, K.; et al., 93g:68004**

Feder, Tomás *see* **Dolev, Danny, 93i:68019**

Fiol, Miguel A. (*with* Lladó, Anna S.) The partial line digraph technique in the design of large interconnection networks. (English summary) **93j:68011**

Garay, Juan A. *see* **Berman, Piotr, 93i:68017**

Gargano, Luisa Tighter time bounds on fault-tolerant broadcasting and gossiping. **93e:68006**

Garitagoitia, Jose R. *see* **González de Mendívil, Jose R., 93k:68008**

Gasanov, È. È. Optimal informational networks for search relations that are linear quasi-order relations. (Russian) (*see* **93m:00021**)

Gershuni, D. S. (*with* Kasrashvili, I. S.) Investigation of the characteristics of an algorithm for the configuration of a local rigid real-time computer network. (Russian. Russian summary)

Goldfeld, David (*with* Etzion, Tuvi) UPP graphs and UMFA networks—architecture for parallel systems. (English summary) **93j:68012**

Goldreich, Oded *see* **Bar-Yehuda, Reuven; et al.**

González de Mendívil, Jose R. (*with* Garitagoitia, Jose R.) A model for deadlock detection based on automata and languages theory. (English summary) **93k:68008**

Gurevich, I. M. Dynamical properties of network systems. (Russian) **93f:68008**

Hakimi, S. Louis *see* **Bagchi, Amitava; et al., 93c:68006**

Hayes, John P. *see* **Lee, Tze Chiang**

Hell, Pavol *see* **Bermond, Jean-Claude; et al., 93a:68011**

Herlihy, Maurice (*with* Lynch, Nancy; Merritt, Michael; Weihl, William) On the correctness of orphan management algorithms. (English summary) **93j:68013**

Ho, Ching-Tien An observation on the bisectional interconnection networks. (English summary) **93f:68009**

Hsu, D. Frank *see* **Erdős, Paul, 93d:68006** *and* **Cheng, Ying; et al., 93m:68013**

Hwang, F. K. *see* **Cheng, Ying; et al., 93m:68013**

Itai, Alon *see* **Bar-Yehuda, Reuven; et al.**

Jan, Rong Hong Design of reliable networks. (English summary) **93h:68007**

Jansen, Klaus The interconnection problem. (English summary) **93k:68009**

Jerebic, Izidor (*with* Trobec, Roman) Optimal routing in toroidal networks. (English summary) **93i:68020**

Kandlur, Dilip D. (*with* Shin, Kang G.) Traffic routing for multicomputer networks with virtual cut-through capability. (English summary)

Kasrashvili, I. S. *see* **Gershuni, D. S.**

Kaufman, J. S. (*with* Sengupta, Bhaskar; Wong, Wing Shing) Performance analysis of a packet assembly function. (English summary)

Kaufmann, Michael (*with* Klär, Gerhard) Routing in polygons without rectilinearly visible corners. (English summary) **93m:68014**

Klär, Gerhard *see* **Kaufmann, Michael, 93m:68014**

Koch, Richard Increasing the size of a network by a constant factor can increase performance by more than a constant factor. (English summary) **93j:68014**

Kranakis, Evangelos (*with* Vitányi, Paul M. B.) A note on weighted distributed matchmaking. **93f:68010**

Kruskal, Clyde P. (*with* Snir, Marc) Cost-performance tradeoffs for interconnection networks. (English summary) **93j:68015**

Kunde, Manfred Packet routing on grids of processors. (English summary) **93j:68016**

Kwon, Kyung Hee (*with* Zheng, Si-Qing; Latifi, Shahram) Average distance of data communication in twisted hypercubes. **93m:68015**

Latifi, Shahram *see* **Kwon, Kyung Hee; et al., 93m:68015**

Lau, Francis C. M. *see* **Cheung, Steven, 93h:68006** *and* **93k:68007**

Lee, Tze Chiang (*with* Hayes, John P.) A fault-tolerant communication scheme for hypercube computers. (English summary)

Li, La Yuan Distributed optimal local double loop network. (English summary) **93m:68016**

Liestman, Arthur L. (*with* Shermer, Thomas C.) Grid spanners. (English summary) **93j:68017**

— *see also* **Bermond, Jean-Claude; et al., 93a:68011**

Lin, Fêng Ch'ing *see* **Wang, Feng Hsu, 93k:68011**

Linial, Nathan *see* **Alon, Noga; et al., 93m:68011**

Liu, Zhi Yong (*with* You, Jia-Huai) Conflict-free routing for BPC-permutations on synchronous hypercubes. (English summary)

Livesey, Mike A network model of barrier synchronization algorithms. **93f:68011**

Lladó, Anna S. *see* **Fiol, Miguel A., 93j:68011**

Lundelius Welch, Jennifer *see* **Coan, Brian A., 93a:68012** *and* **93i:68018**

Lynch, Nancy *see* **Herlihy, Maurice; et al., 93j:68013**

Lyuu, Yuh-Dauh Fast fault-tolerant parallel communication and on-line maintenance for hypercubes using information dispersal. **93a:68013**

Mansour, Yishay (*with* Schieber, Baruch) The intractability of bounded protocols for on-line sequence transmission over non-FIFO channels. (English summary) **93h:68008**

Mattern, Friedemann Über die relativistische Struktur logischer Zeit in verteilten Systemen. (German summary) [On the relativistic structure of logical time in distributed systems] **93m:68017**

McColm, Gregory L. *see* **Clark, W. Edwin; et al.**

Melikov, A. Z. (*with* Ponomarenko, L. A.) Optimization of a digital integral maintenance network with a finite number of users and with lockouts. (Russian. Russian summary)

Mendia, Victor E. (*with* Sarkar, Dilip) Optimal broadcasting on the star graph. (English summary) **93f:68012**

Merritt, Michael *see* **Herlihy, Maurice; et al., 93j:68013**

Mizuno, Masaaki *see* **Neilsen, Mitchell L., 93j:68018**

Moran, Shlomo (*with* Warmuth, Manfred K.) Gap theorems for distributed computation. (English summary) **93m:68018**

Morgenstern, Moshe Explicit construction of natural bounded concentrators. (English summary) **93f:68013**

Neilsen, Mitchell L. (*with* Mizuno, Masaaki) Coterie join algorithm. (English summary) **93j:68018**

Orlitsky, Alon Interactive communication: balanced distributions, correlated files, and average-case complexity. (English summary) (*see* **93d:68005**)

Panangaden, Prakash (*with* Shanbhogue, Vasant) The expressive power of indeterminate dataflow primitives. **93f:68014**

Peleg, David Distance-dependent distributed directories. (English summary) **93m:68019**

— *see also* **Alon, Noga; et al., 93m:68011**

Peng, Wuxu (*with* Purushothaman, S.) Analysis of a class of communicating finite state machines. (English summary) **93h:68009**

Peters, Joseph G. *see* **Bermond, Jean-Claude; et al., 93a:68011**

Ponomarenko, L. A. *see* **Melikov, A. Z.**

Purushothaman, S. *see* **Peng, Wuxu, 93h:68009**

Rajasekaran, Sanguthevar (*with* Tsantilas, Thanasis) Optimal routing algorithms for mesh-connected processor arrays.

Rosenberg, Arnold L. Product-shuffle networks: toward reconciling shuffles and butterflies. (English summary) **93i:68021**

Santoro, Nicola (*with* Sidney, Jeffrey B.; Sidney, Stuart J.) A distributed selection algorithm and its expected communication complexity. **93d:68007**

Sarkar, Dilip *see* **Mendia, Victor E., 93f:68012**

Schieber, Baruch *see* **Mansour, Yishay, 93h:68008**

Schmeichel, Edward *see* **Bagchi, Amitava; et al., 93c:68006**

Schmid, Ulrich The average CRI-length of a controlled ALOHA collision resolution algorithm. (English summary) **93m:68020**

Schwabe, Eric J. Constant-slowdown simulations of normal hypercube algorithms on the butterfly network. (English summary) **93m:68021**

Seitz, Károly On the structure of large computer systems. **93m:68022**

Sengupta, Bhaskar *see* **Kaufman, J. S.; et al.**

Shanbhogue, Vasant *see* **Panangaden, Prakash, 93f:68014**

Shermer, Thomas C. *see* **Liestman, Arthur L., 93j:68017**

Shi, Wei Geng Reconnectable network with limited resources. **93f:68015**

Shin, Kang G. *see* **Kandlur, Dilip D.**

Sidney, Jeffrey B. *see* **Santoro, Nicola; et al., 93d:68007**

Sidney, Stuart J. *see* **Santoro, Nicola; et al., 93d:68007**

Singh, Bijendra A simple algorithm for computing network reliability. (English summary)

Singh, Gurdip (*with* Bernstein, Arthur J.) On the relative execution times of distributed protocols.

Snir, Marc *see* **Kruskal, Clyde P., 93j:68015**

Stark, W. Richard *see* **Clark, W. Edwin; et al.**

Sunderam, V. S. (*with* Winkler, Peter M.) Fast information sharing in a complete network. (English summary) **93k:68010**

Taudes, Alfred Markov teams—an analytical approach to process migration in distributed computing systems. (English summary) **93c:68007**

Trobec, Roman *see* **Jerebic, Izidor, 93i:68020**

Tsantilas, Thanasis *see* **Rajasekaran, Sanguthevar**

Tzvieli, Dvora Minimal diameter double-loop networks. I. Large infinite optimal families. **93a:68014**

Upfal, Eli An $O(\log N)$ deterministic packet-routing scheme. **93a:68015**

Varvarigos, Emmanouel A. (*with* Bertsekas, Dimitri P.) Communication algorithms for isotropic tasks in hypercubes and wraparound meshes. (English summary) **93j:68019**

Vitányi, Paul M. B. *see* **Kranakis, Evangelos, 93f:68010**

Wang, Feng Hsu (*with* Lin, Fêng Ch'ing) On constructing multiple spanning trees in a hypercube. (English summary) **93k:68011**

Warmuth, Manfred K. *see* **Moran, Shlomo, 93m:68018**

Weihl, William *see* **Herlihy, Maurice; et al., 93j:68013**

Winkler, Peter M. *see* **Sunderam, V. S., 93k:68010**

Wong, Wing Shing *see* **Kaufman, J. S.; et al.**

You, Jia-Huai *see* **Liu, Zhi Yong**

Zheng, Si-Qing *see* **Kwon, Kyung Hee; et al., 93m:68015**

Zimmerman, Guy W. (*with* Esfahanian, Abdol-Hossein) Chordal rings as fault-tolerant loops. (English summary) **93e:68007**

Items with secondary classifications in 68M10

Anantharam, Venkat On fast simulation of the time to saturation of slotted ALOHA. **93g:60206**

Atallah, Mikhail J. (*with* Tsay, Jyh Jong) On the parallel-decomposability of geometric problems. (English summary) **93i:68077**

Awerbuch, Baruch (*with* Peleg, David) Routing with polynomial communication-space trade-off. **93e:68095**

Barak, Amnon *see* **Ben-Natan, Ron, 93i:68025**

Bar-Noy, Amotz (*with* Dolev, Danny; Dwork, Cynthia; Strong, H. Raymond) Shifting gears: changing algorithms on the fly to expedite Byzantine agreement. **93f:68036**

Barrett, Geoff (*with* Goldsmith, Michael) Classifying unbounded nondeterminism in CSP. (*see* **93h:68004**)

Bar-Yehuda, Reuven (*with* Etzion, Tuvi) Connections between two cycles—a new design of dense processor interconnection networks. (English summary) **93f:94033**

Ben-Natan, Ron (*with* Barak, Amnon) Parallel contractions of grids for task assignment to processor networks. (English summary) **93i:68025**

Bernshtein, A. V. (*with* Chernova, S. S.) Probabilistic models of processes for the exchange of housekeeping information in data transmission networks. (Russian) (*see* **93b:60003**)

Bettayeb, Said (*with* Miller, Zevi; Sudborough, Ivan Hal) Embedding grids into hypercubes. (English summary) **93i:05052**

Brandt, Andreas (*with* Sulanke, H.) A queueing network model for a communication system with channel allocation. (English summary) **93f:90069**

Cai, Leizhen (*with* Corneil, Derek G.) Tree spanners: an overview. (English summary) **93j:05037**

Chang, Chên Hua *see* **Li, Hsün Ming, 93i:90043**

Chen, Xie Bin Optimal fault-tolerant extensions of a class of networks. (Chinese. English and Chinese summaries) **93h:94041**

Cheng, Siu Wing *see* **Janardan, Ravi, 93a:68118**

Chernova, S. S. *see* **Bernshtein, A. V., (93b:60003)**

Choi, Hyeong-Ah *see* **Han, Yijie; et al., 93j:68022**

Chor, Benny (*with* Kushilevitz, Eyal) A communication-privacy tradeoff for modular addition. (English summary) **93m:68070**

Chung, Fan R. K. (*with* Tetali, Prasad) Communication complexity and quasi randomness. (English summary) **93k:05181**

Cooperman, Gene (*with* Finkelstein, Larry) New methods for using Cayley graphs in interconnection networks. (English summary) **93j:05077**

Corneil, Derek G. *see* **Cai, Leizhen, 93j:05037**

Csaba, László (*with* Faudree, Ralph J.; Gyárfás, András; Lehel, Jenő; Schelp, Richard H.) Networks communicating for each pairing of terminals. (English summary) **93h:05097**

Danzig, Peter B. A cooperative game with applications to computer networks. **93d:90076**

Das, Sajal K. (*with* Ghosh, Joydeep; Deo, Narsingh) Stirling networks: a versatile combinatorial topology for multiprocessor systems. (English summary) **93g:05133**

Day, Khaled (*with* Tripathi, Anand) Arrangement graphs: a class of generalized star graphs. (English summary) **93e:68098**

Deo, Narsingh *see* **Das, Sajal K.; et al., 93g:05133**

Dolev, Danny *see* **Bar-Noy, Amotz; et al., 93f:68036**

Dömösi, P. (*with* Kovács, B.) Simulation on finite networks of automata. **93e:68076**

Dwork, Cynthia *see* **Bar-Noy, Amotz; et al., 93f:68036**

Edmonds, Jeff (*with* Impagliazzo, Russell; Rudich, Steven; Sgall, Jiří) Communication complexity towards lower bounds on circuit depth. (English summary) **93g:68035**

Etzion, Tuvi *see* **Bar-Yehuda, Reuven, 93f:94033**

Faigle, Ulrich (*with* Schrader, Rainer; Turán, György) The communication complexity of interval orders. (English summary) **93g:68055**

Falin, G. I. Models of circuit-switching ISDN with distributed control. (*see* **93k:00029**)

— Phase transitions in overloaded computer and communication systems. (*see* **93k:00029**)

Faudree, Ralph J. *see* **Csaba, László; et al., 93h:05097**

Fernández de la Vega, W. (*with* Manoussakis, Yannis) The forwarding index of communication networks with given connectivity. (English summary) **93i:90042**

Ferrandiz, Josep M. (*with* Lazar, Aurel A.) Monitoring the packet gap of real-time packet traffic. (English summary) **93i:60170**

Finkelstein, Larry *see* **Cooperman, Gene, 93j:05077**

Flores, Christopher Diffusion approximations for computer communications networks. **93c:60144**

Gargano, Luisa (*with* Vaccaro, Ugo) Minimum time broadcast networks tolerating a logarithmic number of faults. **93f:90064**

Ghosh, Joydeep *see* **Das, Sajal K.; et al., 93g:05133**

Goldsmith, Michael *see* **Barrett, Geoff, (93h:68004)**

Gyárfás, András *see* **Csaba, László; et al., 93h:05097**

Hamburger, Peter (*with* Pippert, Raymond E.; Weakley, W. Douglas) On a leverage problem in the hypercube. **93d:05117**

Han, Yijie (*with* Narahari, Bhagirath; Choi, Hyeong-Ah) Mapping a chain task to chained processors. (English summary) **93j:68022**

Harary, Frank (*with* Hayes, John P.) Edge fault tolerance in graphs. (English summary) **93i:05106**

Hayes, John P. *see* **Harary, Frank, 93i:05106**

Haynes, Teresa W. *see* **Lawson, Linda M., 93j:05153**

Hilbers, Peter A. J. ★ Processor networks and aspects of the mapping problem. **93c:68025**

Hollmann, H. D. L. (*with* van Lint, J. H., Jr.) Nonblocking self-routing switching networks. (English summary) **93g:94033**

Hromkovič, Juraj (*with* Monien, Burkhard) The bisection problem for graphs of degree 4 (configuring transputer systems). (English summary) **93k:68030**

Hsu, D. Frank (*with* Shapiro, Jacob) Bounds for the minimal number of transmission delays in double loop networks. (English summary) **93d:05077**

Hu, Xiao Dong (*with* Hwang, F. K.) An improved upper bound for the subarray partial concentrators. (English summary) **93g:94034**

— (*with* Hwang, F. K.) Reliabilities of chordal rings. **93k:05100**

Hwang, F. K. *see* **Hu, Xiao Dong, 93g:94034** *and* **93k:05100**

Impagliazzo, Russell *see* **Edmonds, Jeff; et al., 93g:68035**

Janardan, Ravi (*with* Cheng, Siu Wing) Efficient distributed algorithms for single-source shortest paths and related problems on plane networks. **93a:68118**

Karp, Richard M. Three-stage generalized connectors. **93e:68102**

Kóczy, László T. Fuzzy graphs in the evaluation and optimization of networks. **93c:05109**

Koh, Jae-moon (*with* Tcha, Dong-wan) Local broadcasting in a tree under minisum criterion. (English summary) **93j:90039**

Kovács, B. *see* **Dömösi, P., 93e:68076**

Kushilevitz, Eyal *see* **Chor, Benny, 93m:68070**

Lawson, Linda M. (*with* Haynes, Teresa W.) E-graphs, a generalization of several network designs. (English summary) **93j:05153**

Lazar, Aurel A. *see* **Ferrandiz, Josep M., 93i:60170**

Lehel, Jenő *see* **Csaba, László; et al., 93h:05097**

Li, Hsün Ming (*with* Chang, Chên Hua) Set to set broadcasting in communication networks. (English summary) **93i:90043**

van Lint, J. H., Jr. *see* **Hollmann, H. D. L., 93g:94033**

Lundy, G. M. Specification and analysis of a composition of protocols. (English summary) **93m:68117**

Maggiolo-Schettini, A. *see* **Masini, Andrea, 93e:68120**

Manoussakis, Yannis *see* **Fernández de la Vega, W., 93i:90042**
Masini, Andrea (*with* Maggiolo-Schettini, A.) TTL: a formalism to describe local and global properties of distributed systems. (French summary) **93e:68120**
Miller, Zevi *see* **Bettayeb, Said; et al., 93i:05052**
Monien, Burkhard *see* **Hromkovič, Juraj, 93k:68030**
Moreno, Oscar (*with* Schiappacasse, Oscar; Zhan, Zheng) Optical orthogonal codes for a large number of users. (English summary) **93k:90035**
Mulder, J. C. On the Amoeba protocol. (*see* **93g:68090**)
Narahari, Bhagirath *see* **Han, Yijie; et al., 93j:68022**
Peleg, David *see* **Awerbuch, Baruch, 93e:68095**
Pippert, Raymond E. *see* **Hamburger, Peter; et al., 93d:05117**
Plateau, Brigitte (*with* Trystram, Denis) Optimal total exchange for a 3-D torus of processors.
Rudich, Steven *see* **Edmonds, Jeff; et al., 93g:68035**
Schelp, Richard H. *see* **Csaba, László; et al., 93h:05097**
Schiappacasse, Oscar *see* **Moreno, Oscar; et al., 93k:90035**
Schrader, Rainer *see* **Faigle, Ulrich; et al., 93g:68055**
Schwabe, Eric J. Embedding meshes of trees into de Bruijn graphs. (English summary) **93h:05060**
Servatius, Brigitte *see* **Shi, Wei Geng, 93d:94033**
Sgall, Jiří *see* **Edmonds, Jeff; et al., 93g:68035**
Shapiro, Jacob *see* **Hsu, D. Frank, 93d:05077**
Shi, Wei Geng (*with* Servatius, Brigitte) Improving the reliability of computer communication networks. **93d:94033**
Stöhr, Elena A. On optimal embeddings of the FFT graph and the butterfly graph into the hypercube. (English summary) **93i:05055**
Strong, H. Raymond *see* **Bar-Noy, Amotz; et al., 93f:68036**
Sudborough, Ivan Hal *see* **Bettayeb, Said; et al., 93i:05052**
Sulanke, H. *see* **Brandt, Andreas, 93f:90069**
Szpankowski, Wojciech Towards computable stability criteria for some multidimensional stochastic processes. **93c:60152**
Tcha, Dong-wan *see* **Koh, Jae-moon, 93j:90039**
Tekko, Jaanus A formal model for the language LSD and the calculus CSD. (Russian. English and Estonian summaries) **93h:68082**
Tetali, Prasad *see* **Chung, Fan R. K., 93k:05181**
Tripathi, Anand *see* **Day, Khaled, 93e:68098**
Trystram, Denis *see* **Plateau, Brigitte**
Tsay, Jyh Jong *see* **Atallah, Mikhail J., 93i:68077**
Turán, György *see* **Faigle, Ulrich; et al., 93g:68055**
Vaccaro, Ugo *see* **Gargano, Luisa, 93f:90064**
Weakley, W. Douglas *see* **Hamburger, Peter; et al., 93d:05117**
Weng, Jia Feng Degenerate Gilbert-Steiner trees. **93k:05049**
Young, Gilbert H. (*with* Zheng, Si-Qing) Average distance between vertices in multiply-twisted hypercubes. **93k:05058**
Zhan, Zheng *see* **Moreno, Oscar; et al., 93k:90035**
Zheng, Si-Qing *see* **Young, Gilbert H., 93k:05058**

68M15 Reliability and testing

Agarwal, Vinod Kumar² *see* **Somani, Arun K.**
Barashko, A. S. (*with* Skobtsov, Yu. A.; Speranskii, D. V.) ★ Моделирование и тестирование дискретных устройств. (Russian. Russian summary) [Modeling and testing discrete devices] **93j:68020**
Becker, Bernd (*with* Sparmann, Uwe) Computations over finite monoids and their test complexity. **93a:68016**
Blamey, Stephen The soundness and completeness of axioms for CSP processes. (*see* **93h:68004**)
Brown, Jason I. (*with* Colbourn, Charles J.) Roots of the reliability polynomial. (English summary) **93g:68005**
— (*with* Colbourn, Charles J.; Devitt, John S.) Network transformations and bounding network reliability. (English summary) **93k:68012**
Chen, Nian Shing *see* **Huang, Shing Tsaan, 93a:68017**
Chung, Chi Ming (*with* Pai, Wen C.) A family of testing path selecting criteria. (English summary)
Colbourn, Charles J. (*with* Lomonosov, M. V.) Renewal networks: connectivity and reachability on a time interval. (English summary) **93f:68016**
— *see also* **Brown, Jason I., 93g:68005** *and* **93k:68012**
Devitt, John S. *see* **Brown, Jason I.; et al., 93k:68012**
El-Mallah, Ehab S. Algorithms for K-terminal reliability problems with node failures. **93b:68008**
Franco, John Probabilistic analysis of algorithms for stuck-at test generation in PLAs. **93c:68008**
Gichev, Dinko An algorithm for routing messages between processing elements in a multiprocessor system which tolerates a maximal number of faulty links. (English summary) **93i:68022**
Hagihara, Ken'ichi *see* **Park, Jungho; et al., 93c:68010**
Hsu, Su Chu (*with* Huang, Shing Tsaan) A self-stabilizing algorithm for maximal matching. (English summary) **93g:68006**
Huang, Shing Tsaan (*with* Chen, Nian Shing) A self-stabilizing algorithm for constructing breadth-first trees. **93a:68017**
— *see also* **Hsu, Su Chu, 93g:68006**
Kawaguchi, Kimio *see* **Wada, Koichi; et al.**
de Kleer, Johan (*with* Mackworth, Alan K.; Reiter, Raymond) Characterizing diagnoses and systems. (English summary) **93g:68007**
Korolev, V. Yu. Probabilistic-statistical methods for predicting the reliability of complex software. (Russian. Russian summary) **93k:68013**
Latifi, Shahram Combinatorial analysis of the fault-diameter of the n-cube. (English summary) **93i:68023**
Li, Zhonggang (*with* Wu, Jie) A novel method of function decomposition. (English summary) **93j:68021**
Liang, Chungti (*with* Tsai, Wei T.) On the reconfigurability of embedded loops on hypercubes and its application. (English summary) **93f:68017**
Lobanov, A. V. Mutual information coordination with identification of faults in distributed computer systems. (Russian. Russian summary)
Lomonosov, M. V. *see* **Colbourn, Charles J., 93f:68016**
Mackworth, Alan K. *see* **de Kleer, Johan; et al., 93g:68007**
Masuzawa, Toshimitsu *see* **Park, Jungho; et al., 93c:68010**
Mata-Montero, Erick Resilience of partial k-tree networks with edge and node failures. **93c:68009**
Morishita, Masahiro *see* **Wada, Koichi; et al.**
Moritani, Yukio *see* **Wada, Koichi; et al.**
Nayak, Amiya (*with* Pagli, Linda; Santoro, Nicola) Combinatorial and graph problems arising in the analysis of catastrophic fault patterns. (English summary) **93m:68023**
Pagli, Linda *see* **Nayak, Amiya; et al., 93m:68023**
Pai, Wen C. *see* **Chung, Chi Ming**
Park, Jungho (*with* Hagihara, Ken'ichi; Tokura, Nobuki; Masuzawa, Toshimitsu) Efficient distributed algorithm to solve updating minimum spanning tree problem. **93c:68010**
Reiter, Raymond *see* **de Kleer, Johan; et al., 93g:68007**
Santoro, Nicola *see* **Nayak, Amiya; et al., 93m:68023**
Sjogren, Jon A. Closed-form solution of decomposable stochastic models. **93f:68018**
Skobtsov, Yu. A. *see* **Barashko, A. S.; et al., 93j:68020**
Somani, Arun K. (*with* Agarwal, Vinod Kumar²) Distributed diagnosis algorithms for regular interconnected structures. (English summary)
Sparmann, Uwe *see* **Becker, Bernd, 93a:68016**
Speranskii, D. V. *see* **Barashko, A. S.; et al., 93j:68020**
Tokura, Nobuki *see* **Park, Jungho; et al., 93c:68010**
Tsai, Wei T. *see* **Liang, Chungti, 93f:68017**
Vergis, Anastasios On the testability of one-dimensional ILAs for multiple sequential faults. (English summary)
Wada, Koichi (*with* Moritani, Yukio; Kawaguchi, Kimio; Morishita, Masahiro) Distributed algorithms for connectivity problem of networks with faulty elements. (English summary)
Wu, Jie *see* **Li, Zhonggang, 93j:68021**

Items with secondary classifications in 68M15

Camarda, Pietro (*with* Gerla, Mario) Design and analysis of fault-tolerant multibus interconnection networks. (English summary)
Chang, Chih Yung *see* **Sheu, Jang Ping; et al., 93i:68049**
Chen, Yuh Shyan *see* **Sheu, Jang Ping; et al., 93i:68049**
Coan, Brian A. (*with* Lundelius Welch, Jennifer) Modular construction of a Byzantine agreement protocol with optimal message bit complexity. **93a:68012**
Colbourn, Charles J. (*with* Harms, Daryl D.; Myrvold, Wendy J.) Reliability polynomials can cross twice. (English summary) **93m:94053**
Gerla, Mario *see* **Camarda, Pietro**
Gordon, Jesse M. Analysis of minimal path routing schemes in the presence of faults. (English summary) **93f:94031**
Gremal'skii, A. A. (*with* Roshkovan, A. G.; Tsarigradskii, S. V.) Design of pseudorandom test sequences for finite automata. (Russian. English, Russian and Moldavian summaries)
— (*with* Roshkovan, A. G.; Tsarigradskii, S. V.) Estimation of the quality of pseudorandom test sequences with respect to an automaton model of a discrete device. (Russian. English, Russian and Moldavian summaries)
Harms, Daryl D. *see* **Colbourn, Charles J.; et al., 93m:94053**
Hayes, John P. *see* **Lee, Tze Chiang**
Jan, Rong Hong Design of reliable networks. (English summary) **93h:68007**
Lee, Tze Chiang (*with* Hayes, John P.) A fault-tolerant communication scheme for hypercube computers. (English summary)
Lundelius Welch, Jennifer *see* **Coan, Brian A., 93a:68012**
Mukhopadhyaya, Krishnendu (*with* Sinha, Bhabani P.) Hamiltonian graphs with minimum number of edges for fault-tolerant topologies. (English summary) **93k:05110**
Myrvold, Wendy J. *see* **Colbourn, Charles J.; et al., 93m:94053**
Nel, Louis Daniel² (*with* Strayer, Heidi J.) Two-terminal reliability bounds based on edge packings by cutsets. (English summary) **93m:05193**
Roshkovan, A. G. *see* **Gremal'skii, A. A.; et al.**
Sheu, Jang Ping (*with* Chen, Yuh Shyan; Chang, Chih Yung) Fault-tolerant sorting algorithm on hypercube multicomputers. (English summary) **93i:68049**
Sinha, Bhabani P. *see* **Mukhopadhyaya, Krishnendu, 93k:05110**
Stolov, E. L. Exhaustive testing and signature analysis. (Russian. Russian summary) **93g:94035**
Strayer, Heidi J. *see* **Nel, Louis Daniel², 93m:05193**
Tarasov, V. V. Reserves for ensuring the reliable design of logic circuits. (Russian. English, Russian and Ukrainian summaries)
Tsarigradskii, S. V. *see* **Gremal'skii, A. A.; et al.**
Yang, Chu Sing Reliability analysis on the multiple-loop network. (English summary) **93i:90048**
Zhang, Jian Zhou The structure of optimally reliable random networks. (Chinese. English and Chinese summaries) **93k:05158**

68M20 Performance evaluation; queueing; scheduling [see also 60K25, 90Bxx]

Ahn, Wi Chong *see* **Choi, Bong Dae; et al., 93h:68011**
Bagchi, Anindo (*with* Hakimi, S. Louis) Data transfers in broadcast networks. (English summary) **93i:68024**
Bandyopadhyay, Subir *see* **Sen, Arunabha; et al., 93e:68008**
Barak, Amnon *see* **Ben-Natan, Ron, 93i:68025**
Ben-Natan, Ron (*with* Barak, Amnon) Parallel contractions of grids for task assignment to processor networks. (English summary) **93i:68025**
Billionnet, Alain (*with* Costa, M.-C.; Sutter, Alain) An efficient algorithm for a task allocation problem. (English summary) **93i:68026**
Blondia, C. Performance evaluation of an $M/1$-stage in an ATM switching element. **93i:68027**

Bondi, André B. A study of a state-dependent job admission policy in a computer system with restricted memory partitions. (English summary) **93h:68010**
Borodin, Allan (*with* Linial, Nathan; Saks, Michael E.) An optimal on-line algorithm for metrical task system. (English summary) **93g:68008**
Brekhov, O. M. (*with* Moraru, V. A.) Determination of the limit throughput of a computer controlled by a data flow. (Russian. Russian summary)
Buzacott, John A. *see* **Liu, Xiao-Gao, 93k:68014**
Choi, Bong Dae (*with* Shin, Yang Woo; Ahn, Wi Chong) Retrial queues with collision arising from unslotted CMSA/CD protocol. (English summary) **93h:68011**
Choi, Hyeong-Ah *see* **Han, Yijie; et al., 93j:68022**
Costa, M.-C. *see* **Billionnet, Alain; et al., 93i:68026**
Feldmann, Anja (*with* Sgall, Jiří; Teng, Shang-Hua) Dynamic scheduling on parallel machines. (English summary) (*see* **93d:68005**)
Gerasoulis, Apostolos (*with* Yang, Tao) A comparison of clustering heuristics for scheduling directed acyclic graphs on multiprocessors. (English summary)
Gupta, Ashish *see* **Swami, Arun; et al., 93i:68029**
Hakimi, S. Louis *see* **Bagchi, Anindo, 93i:68024**
Han, Yijie (*with* Narahari, Bhagirath; Choi, Hyeong-Ah) Mapping a chain task to chained processors. (English summary) **93j:68022**
Hell, Pavol *see* **de Werra, D.; et al., 93i:68031**
Holte, Robert (*with* Rosier, Louis; Tulchinsky, Igor; Varvel, Donald) Pinwheel scheduling with two distinct numbers. **93d:68008**
Huang, Ke (*with* Wu, Jie) Optimal fault-tolerant ring networks. (English summary) **93m:68024**
Iqbal, Mohammad Ashraf Approximate algorithms for partitioning problems. (English summary)
Ishida, Yoshiteru A generalization of diagnosability analysis. (English summary) **93h:68012**
Ivaneshkin, A. I. On complex optimization of the use of information-technological resources in information processing systems with regulated message sizes. (Russian. English and Ukrainian summaries)
Jamison, Robert E. *see* **Shier, D. R.; et al., 93e:68009**
Jiang, Li Fan Fault-tolerant analysis of a binary tree configuration. (Chinese. English and Chinese summaries)
Kaldewaij, Anne (*with* Udding, Jan Tijmen) Rank order filters and priority queues. (English summary) **93g:68009**
Kameda, Tsunehiko *see* **de Werra, D.; et al., 93i:68031**
Katoh, Naoki *see* **de Werra, D.; et al., 93i:68031**
Kim, Myunghwan *see* **Lee, Cheol-Hoon; et al., 93h:68013**
Kumar, Devendra A class of systems with nearly zero distributed simulation overhead. (English summary) **93d:68009**
— Efficient distributed simulation of acyclic systems. (English summary)
Kung, H. T. *see* **Wu, I Chen, 93e:68010**
Lau, Francis C. M. *see* **Xu, Cheng Zhong**
Lazard, E. Broadcasting in DMA-bound bounded degree graphs. (English and French summaries) **93f:68019**
Lee, Bum-Il *see* **Tcha, Dong-wan; et al.**
Lee, Cheol-Hoon (*with* Lee, Dongmyun; Kim, Myunghwan) Optimal task assignment in linear array networks. (English summary) **93h:68013**
Lee, Dongmyun *see* **Lee, Cheol-Hoon; et al., 93h:68013**
Lee, Young-duck *see* **Tcha, Dong-wan; et al.**
Leung, Kin K. An execution/sleep scheduling policy for serving an additional job in priority queuing systems. (English summary)
Li, Jie *see* **Zhang, Zhong Yun; et al.**
Lin, Feng *see* **Mortazavian, H., 93i:68028**
Linial, Nathan *see* **Borodin, Allan; et al., 93g:68008**
Liu, Xiao-Gao (*with* Buzacott, John A.) The reversibility of cyclic queues. (English summary) **93k:68014**
Moraru, V. A. *see* **Brekhov, O. M.**
Mortazavian, H. (*with* Lin, Feng) Decentralized supervisory control of discrete event systems with nonhomogeneous control structure. (English summary) **93i:68028**
Motwani, Rajeev (*with* Phillips, Steven J.; Torng, Eric) Nonclairvoyant scheduling. (English summary) **93k:68015**
Narahari, Bhagirath *see* **Han, Yijie; et al., 93j:68022**
Nayak, Amiya (*with* Santoro, Nicola) Performance analysis of redundant ring networks. (English summary) **93j:68023**
Phillips, Steven J. *see* **Motwani, Rajeev; et al., 93k:68015**
Rosier, Louis *see* **Holte, Robert; et al., 93d:68008**
Saks, Michael E. *see* **Borodin, Allan; et al., 93g:68008**
Santoro, Nicola *see* **Nayak, Amiya, 93j:68023**
Sen, Arunabha (*with* Sengupta, Abhijit; Bandyopadhyay, Subir) On the routing problem in faulty supercubes. **93e:68008**
Sengupta, Abhijit *see* **Sen, Arunabha; et al., 93e:68008**
Sgall, Jiří *see* **Feldmann, Anja; et al., (93d:68005)**
Shier, D. R. (*with* Valvo, E. J.; Jamison, Robert E.) Generating the states of a binary stochastic system. (English summary) **93e:68009**
Shin, Yang Woo *see* **Choi, Bong Dae; et al., 93h:68011**
Shmoys, David B. (*with* Wein, Joel; Williamson, David P.) Scheduling parallel machines on-line. (English summary) (*see* **93d:68005**)
— (*with* Tardos, Éva) Scheduling unrelated machines with costs. (English summary) **93m:68025**
Solot, Ph. *see* **de Werra, D.; et al., 93i:68031**
Sutter, Alain *see* **Billionnet, Alain; et al., 93i:68026**
Swami, Arun (*with* Young, Honesty C.; Gupta, Ashish) Algorithms for handling skew in parallel task scheduling. (English summary) **93i:68029**
Sztrik, János Modelling of a multiprocessor system in a randomly changing environment. (English summary) **93j:68024**
Tardos, Éva *see* **Shmoys, David B., 93m:68025**
Tcha, Dong-wan (*with* Lee, Bum-Il; Lee, Young-duck) Processors selection and traffic splitting in a parallel processors system. (English summary)
Teng, Shang-Hua *see* **Feldmann, Anja; et al., (93d:68005)**
Thomopoulos, Stelios C. A. (*with* Zhang, Lei) Distributed decision fusion in the presence of networking delays and channel errors. (English summary)
Tikhonenko, O. M. ★ Модели массового обслуживания в системах обработки информации. (Russian) [Queueing models in information processing systems] **93a:68018**
Torng, Eric *see* **Motwani, Rajeev; et al., 93k:68015**
Tsai, Li-Hui An algorithm for flow time minimization and its asymptotic makespan properties. (English summary) **93i:68030**
Tulchinsky, Igor *see* **Holte, Robert; et al., 93d:68008**
Udding, Jan Tijmen *see* **Kaldewaij, Anne, 93g:68009**
Vakhaniya, N. N. Scheduling tasks on parallel processors. (Russian. English and Georgian summaries)
Valvo, E. J. *see* **Shier, D. R.; et al., 93e:68009**
Varvel, Donald *see* **Holte, Robert; et al., 93d:68008**
van de Velde, S. L. Duality-based algorithms for scheduling unrelated parallel machines. (English summary)
Wein, Joel *see* **Shmoys, David B.; et al., (93d:68005)**
de Werra, D. (*with* Hell, Pavol; Kameda, Tsunehiko; Katoh, Naoki; Solot, Ph.; Yamashita, Masafumi) Graph endpoint coloring and distributed processing. (English summary) **93i:68031**
Williamson, David P. *see* **Shmoys, David B.; et al., (93d:68005)**
Wu, I Chen (*with* Kung, H. T.) Communication complexity for parallel divide-and-conquer. (English summary) **93e:68010**
Wu, Jie *see* **Huang, Ke, 93m:68024**
Xu, Cheng Zhong (*with* Lau, Francis C. M.) Analysis of the generalized dimension exchange method for dynamic load balancing. (English summary)
Xu, Shi Yi A fault tolerant fast exponentiation design in GF(2^m). (Chinese summary) **93i:68032**
Yamashita, Masafumi *see* **de Werra, D.; et al., 93i:68031**
Yang, Tao *see* **Gerasoulis, Apostolos**
Young, Honesty C. *see* **Swami, Arun; et al., 93i:68029**
Zhang, Lei *see* **Thomopoulos, Stelios C. A.**
Zhang, Zhong Yun (*with* Zhu, Ming Fa; Li, Jie) Partitioning of independent tasks for minimizing completion time and total waiting time.
Zhu, Ming Fa *see* **Zhang, Zhong Yun; et al.**

Items with secondary classifications in 68M20

Altman, Eitan (*with* Konstantopoulos, Panagiotis; Liu, Zhen) Stability, monotonicity and invariant quantities in general polling systems. (English summary) **93f:60131**
— (*with* Khamisy, Asad; Yechiali, Uri) On elevator polling with globally gated regime. (English summary) **93f:60132**
Baba, Yutaka A gated processor-sharing $M/G/1$ queue with limited number of service positions.
Baccelli, François *see* **Liu, Zhen, 93f:60144**
Chang, Yih-Long (*with* Liu, Howard; Shen, Sheldon) Analysis of a CSMA/CD priority protocol. (English summary) **93f:90063**
Cohen, Gérard Denis *see* **Zémor, Gilles, 93h:68115**
van Dijk, Nico M. (*with* Taylor, P. G.) An error bound for a continuous time approximation of discrete time servicing. (English summary) **93j:60141**
Du, Jianzhong (*with* Leung, Joseph Y.-T.) Minimizing mean flow time with release time and deadline constraints. (English summary)
Esfahanian, Abdol-Hossein *see* **Zimmerman, Guy W., 93e:68007**
Fendick, Kerry W. (*with* Rodrigues, Manoel A.; Weiss, Alan) Analysis of a rate-based feedback control strategy for long haul data transport. (English summary)
Fuhrmann, Steve W. A decomposition result for a class of polling models. (English summary) **93g:60191**
— *see also* **Sidi, Moshe; et al., 93g:60198**
Georgakopoulos, G. (*with* Stafylopatis, A.) An approach to parallel algorithm design. (English and French summaries) **93m:68050**
Georgiadis, Leonidas (*with* Szpankowski, Wojciech) Stability of token passing rings. (English summary) **93f:60137**
Gerasimov, A. I. An integral method for computation of closed queueing networks. (Russian. Russian summary) **93f:60138**
Gershuni, D. S. The problem of two periodic tasks. (Russian) **93b:90032**
Gilbert, John R. (*with* Schreiber, Robert) Highly parallel sparse Cholesky factorization. **93g:65040**
Han, Ching-Chih (*with* Lin, Kwei-Jay) Scheduling real-time computations with separation constraints. **93c:90037**
Hasegawa, Toshiharu *see* **Takine, Tetsuya, 93g:60201**
Henderson, W. (*with* Taylor, P. G.) Insensitivity in discrete time queues with a moving server. (English summary) **93m:60187**
Herlihy, Maurice (*with* Lynch, Nancy; Merritt, Michael; Weihl, William) On the correctness of orphan management algorithms. (English summary) **93j:68013**
Heydemann, M.-C. (*with* Opatrný, J.; Sotteau, D.) Broadcasting and spanning trees in de Bruijn and Kautz networks. (English summary) **93g:05137**
— (*with* Meyer, J.-C.; Opatrný, J.; Sotteau, D.) Forwarding indices of k-connected graphs. (English summary) **93k:05093**
Hsu, D. Frank (*with* Shapiro, Jacob) Bounds for the minimal number of transmission delays in double loop networks. (English summary) **93d:05077**
Ibaraki, Toshihide *see* **Katoh, Naoki; et al.**
Johnston, Mark D. *see* **Minton, Steven; et al.**
Kameda, Tsunehiko *see* **Katoh, Naoki; et al.**
Katoh, Naoki (*with* Ibaraki, Toshihide; Kameda, Tsunehiko) A multiversion cautious scheduler with dynamic serialization constraints for database concurrency control. (English summary)
Kawaguchi, Kimio *see* **Wada, Koichi, 93d:05061**
Kel'bert, M. Ya. (*with* Sukhov, Yu. M.) Nonlinear law of large numbers and Gaussian fluctuation for star-like networks. **93b:60219**
Khamisy, Asad *see* **Altman, Eitan; et al., 93f:60132**

Knessl, Charles Asymptotic approximations for the $GI/M/1$ queue with processor-sharing service. **93f:60142**
Koch, Richard Increasing the size of a network by a constant factor can increase performance by more than a constant factor. (English summary) **93j:68014**
Konstantopoulos, Panagiotis *see* **Altman, Eitan; et al., 93f:60131**
Korst, Jan ★ Periodic multiprocessor scheduling.
Kruskal, Clyde P. (*with* Snir, Marc) Cost-performance tradeoffs for interconnection networks. (English summary) **93j:68015**
Laird, Philip *see* **Minton, Steven; et al.**
Lee, Duan-Shin (*with* Sengupta, Bhaskar) An approximate analysis of a cyclic server queue with limited service and reservations. (English summary) **93g:60195**
Leung, Joseph Y.-T. *see* **Du, Jianzhong**
Levy, Hanoch *see* **Sidi, Moshe; et al., 93g:60198**
Liestman, Arthur L. (*with* Peters, Joseph G.) Minimum broadcast digraphs. (English summary) **93j:94041**
Lin, Kwei-Jay *see* **Han, Ching-Chih, 93c:90037**
Liu, Howard *see* **Chang, Yih-Long; et al., 93f:90063**
Liu, Zhen (*with* Baccelli, François) Generalized precedence-based queueing systems. (English summary) **93f:60144**
— (*with* Nain, Philippe; Towsley, Donald) On optimal polling policies. (English summary) **93h:60156**
— *see also* **Altman, Eitan; et al., 93f:60131**
Lynch, Nancy *see* **Herlihy, Maurice; et al., 93j:68013**
Makowski, Armand M. (*with* Philips, Thomas K.) Stochastic convexity of sums of i.i.d. nonnegative random variables with applications. **93b:60034**
Merritt, Michael *see* **Herlihy, Maurice; et al., 93j:68013**
Meyer, J.-C. *see* **Heydemann, M.-C.; et al., 93k:05093**
Minton, Steven (*with* Johnston, Mark D.; Philips, Andrew B.; Laird, Philip) Minimizing conflicts: a heuristic repair method for constraint satisfaction and scheduling problems. (English summary)
Moser, Louise E. Calculus and probability determine the performance of a disk drive. (English summary)
Nain, Philippe *see* **Liu, Zhen; et al., 93h:60156**
Navathe, Shamkant B. *see* **Rivera-Vega, Pedro I.; et al., 93e:90026**
Opatrný, J. *see* **Heydemann, M.-C.; et al., 93g:05137** *and* **93k:05093**
Panishev, A. V. (*with* Varakin, A. S.) Optimal sequencing of two-stage jobs in flexible manufacturing systems. (Russian. English and Ukrainian summaries)
Peters, Joseph G. *see* **Liestman, Arthur L., 93j:94041**
Philips, Andrew B. *see* **Minton, Steven; et al.**
Philips, Thomas K. *see* **Makowski, Armand M., 93b:60034**
Pippenger, Nicholas The asymptotic optimality of spider-web networks. (English summary) **93f:94034**
Rajasekaran, Sanguthevar (*with* Tsantilas, Thanasis) Optimal routing algorithms for mesh-connected processor arrays.
Rivera-Vega, Pedro I. (*with* Varadarajan, Ravi; Navathe, Shamkant B.) Scheduling file transfers in fully connected networks. (English summary) **93e:90026**
Rodrigues, Manoel A. *see* **Fendick, Kerry W.; et al.**
Roscoe, A. W. An alternative order for the failures model. (English summary) **93j:68126**
Rosenberg, Arnold L. Product-shuffle networks: toward reconciling shuffles and butterflies. (English summary) **93i:68021**
Schreiber, Robert *see* **Gilbert, John R., 93g:65040**
Sengupta, Bhaskar An approximation for the sojourn-time distribution for the $GI/G/1$ processor-sharing queue. **93a:60150**
— *see also* **Lee, Duan-Shin, 93g:60195**
Shapiro, Jacob *see* **Hsu, D. Frank, 93d:05077**
Shen, Sheldon *see* **Chang, Yih-Long; et al., 93f:90063**
Sidi, Moshe (*with* Levy, Hanoch; Fuhrmann, Steve W.) A queueing network with a single cyclically roving server. (English summary) **93g:60198**
Singh, Bijendra A simple algorithm for computing network reliability. (English summary)
Snir, Marc *see* **Kruskal, Clyde P., 93j:68015**
Soneoka, Terunao Super edge-connectivity of dense digraphs and graphs. (English summary) **93j:05099**
Sotteau, D. *see* **Heydemann, M.-C.; et al., 93g:05137** *and* **93k:05093**
Stafylopatis, A. *see* **Georgakopoulos, G., 93m:68050**
Sukhov, Yu. M. *see* **Kel'bert, M. Ya., 93b:60219**
Sun, Shi Jie A branch-and-bound method for solving two lower bound estimates of the tardy/early scheduling problem. (Chinese. English summary) **93d:90027**
Szpankowski, Wojciech *see* **Georgiadis, Leonidas, 93f:60137**
Takagi, Hideaki ★ Queueing analysis: a foundation of performance evaluation. Vol. 1. **93e:60188**
Takine, Tetsuya (*with* Hasegawa, Toshiharu) A cyclic-service finite source model with round-robin scheduling. (English summary) **93g:60201**
Taylor, P. G. *see* **van Dijk, Nico M., 93j:60141** *and* **Henderson, W., 93m:60187**
Towsley, Donald *see* **Liu, Zhen; et al., 93h:60156**
Traldi, Lorenzo On the star-delta transformation in network reliability. (English summary)
Tsantilas, Thanasis *see* **Rajasekaran, Sanguthevar**
Varadarajan, Ravi *see* **Rivera-Vega, Pedro I.; et al., 93e:90026**
Varakin, A. S. *see* **Panishev, A. V.**
Wada, Koichi (*with* Kawaguchi, Kimio) Efficient fault-tolerant fixed routings on $(k+1)$-connected digraphs. (English summary) **93d:05061**
Weihl, William *see* **Herlihy, Maurice; et al., 93j:68013**
Weiss, Alan *see* **Fendick, Kerry W.; et al.**
Xu, Susan H. On a job resequencing issue in parallel processor stochastic scheduling. (English summary) **93h:90050**
Yechiali, Uri *see* **Altman, Eitan; et al., 93f:60132**
Zémor, Gilles (*with* Cohen, Gérard Denis) Application of coding theory to interconnection networks. (English summary) **93h:68115**
Zimmerman, Guy W. (*with* Esfahanian, Abdol-Hossein) Chordal rings as fault-tolerant loops. (English summary) **93e:68007**

68M99 None of the above, but in this section

Items with secondary classifications in 68M99

Cui, Guo Hua A mathematical model for the rate of spreading of a computer virus. (Chinese. English and Chinese summaries)

68Nxx Software

68N05 General theory of programming

Anderson, James H. (*with* Grošelj, Bojan) Beyond atomic registers: bounded wait-free implementations of nontrivial objects. (English summary) **93k:68016**
Antimirov, V. M. (*with* Voronkov, A. A.; Degtyarëv, A. I.; Zakhar'yashchev, M. V.; Protsenko, V. S.) Mathematical logic in programming. A survey. (Russian) (*see* **93d:68004**)
Bakulin, A. V. *see* **Tseitlin, G. E.**
Banerjee, Debasish A technique for solving a class of quadratic FP equations. (English summary) **93i:68033**
Boiten, Eerke A. Improving recursive functions by inverting the order of evaluation. **93c:68011**
Brumfitt, P. J. MetaMorph—a formal methods toolkit with application to the design of digital hardware. (English summary) **93j:68025**
Cai, Jing Qiu (*with* Zhang, Ke Jun) An expansive Cooper transformation. (Chinese. English and Chinese summaries)
Cázánescu, Virgil Emil (*with* Mihăilă, George Andrei) Partial flowchart schemes. **93a:68019**
— (*with* Ştefănescu, Gheorghe) A general result on abstract flowchart schemes with applications to the study of accessibility, reduction and minimization. **93g:68010**
Degtyarëv, A. I. *see* **Antimirov, V. M.; et al., (93d:68004)**
Djambazova, Milena *see* **Radenski, Atanas A., 93h:68014**
Fenton, N. E. (*with* Whitty, R. W.) Program structures: some new characterisations. **93a:68020**
Grošelj, Bojan *see* **Anderson, James H., 93k:68016**
Heisel, Maritta Formalizing and implementing Gries' program development method in dynamic logic. **93a:68021**
Mihăilă, George Andrei *see* **Cázánescu, Virgil Emil, 93a:68019**
Parpucea, Ilie Theoretical support for object-oriented and parallel programming. (Romanian summary)
Protsenko, V. S. *see* **Antimirov, V. M.; et al., (93d:68004)**
Radenski, Atanas A. (*with* Djambazova, Milena) Schemes for recursion elimination in Backus' FP-systems. (English and Russian summaries) **93h:68014**
Reps, Thomas Algebraic properties of program integration. **93a:68022**
Savel'ev, A. A. A criterion for completeness of systems of operations in programs with finite memory. (Russian) **93i:68034**
Schoenmakers, Berry ★ Data structures and amortized complexity in a functional setting. (English. Dutch summary) **93i:68035**
Sestoft, P. *see* **Søndergaard, H.**
Søndergaard, H. (*with* Sestoft, P.) Nondeterminism in functional languages. (English summary)
Ştefănescu, Gheorghe *see* **Cázánescu, Virgil Emil, 93g:68010**
Tseitlin, G. E. (*with* Bakulin, A. V.) Multilevel structured program designs and their justification. (Russian. English and Ukrainian summaries)
Urbaitis, Kęstutis Continuation transformation and reduction. (English, Russian and Lithuanian summaries)
Voronkov, A. A. *see* **Antimirov, V. M.; et al., (93d:68004)**
Whitty, R. W. *see* **Fenton, N. E., 93a:68020**
Zakharov, V. A. Formal models and free schemata of programs. (Russian. English and Russian summaries)
Zakhar'yashchev, M. V. *see* **Antimirov, V. M.; et al., (93d:68004)**
Zhang, Ke Jun *see* **Cai, Jing Qiu**

Items with secondary classifications in 68N05

Arutyunyan, L. L. Results of the optimal realization of programs for a multilevel model of a microprogram processor. (Russian. Armenian summary)
Backes, W. (*with* Schwiegelshohn, U.; Thiele, L.) Multidimensional discrete event systems and their applications in parallel program design. (English summary) (*see* **93g:93006**)
Berghammer, Rudolf (*with* Kempf, Peter; Schmidt, Gunther W.; Ströhlein, Thomas) Relation algebra and logic of programs. **93d:03065**
Kempf, Peter *see* **Berghammer, Rudolf; et al., 93d:03065**
Kfoury, A. J. (*with* Tiuryn, J.; Urzyczyn, P.) On the expressive power of finitely typed and universally polymorphic recursive procedures. **93e:68017**
Korolev, V. Yu. Probabilistic-statistical methods for predicting the reliability of complex software. (Russian. Russian summary) **93k:68013**
Kotov, V. E. (*with* Sabel'fel'd, V. K.) ★ Теория схем программ. (Russian) [Theory of program schemes] **93f:68001**
Laville, Alain Comparison of priority rules in pattern matching and term rewriting. **93g:68063**
Nepeĭvoda, N. N. A bridge between constructive logic and computer programming. **93e:03043**
Palsberg, Jens Normal forms have partial types. (English summary)
Roscoe, A. W. Topology, computer science, and the mathematics of convergence. (*see* **93h:68004**)
Rosenthal, Kimmo I. Girard quantaloids. **93e:68067**
Sabel'fel'd, V. K. *see* **Kotov, V. E., 93f:68001**
Schmidt, Gunther W. *see* **Berghammer, Rudolf; et al., 93d:03065**
Schwiegelshohn, U. *see* **Backes, W.; et al., (93g:93006)**
Stransky, Jan A lattice for abstract interpretation of dynamic (LISP-like) structures. (English summary) **93j:68037**

Ströhlein, Thomas *see* **Berghammer, Rudolf; et al., 93d:03065**
Thiele, L. *see* **Backes, W.; et al., (93g:93006)**
Tiuryn, J. *see* **Kfoury, A. J.; et al., 93e:68017**
Urzyczyn, P. *see* **Kfoury, A. J.; et al., 93e:68017**
Wang, Ke[3] (*with* Yuan, Li-Yan) Preservation of integrity constraints in definite DATALOG programs. (English summary) **93j:68051**
Yuan, Li-Yan *see* **Wang, Ke[3], 93j:68051**

68N15 Programming languages

Camilleri, Juanito A conditional operator for CCS. **93b:68009**
Darlington, John (*with* Guo, Yi Ke; Pull, Helen) A new perspective on integrating functional and logic languages. (English summary) (*see* **93i:68007**)
Egidi, Lavinia (*with* Honsell, Furio; Ronchi Della Rocca, Simona) Operational, denotational and logical descriptions: a case study. **93i:68036**
van Emden, M. H. *see* **Lee, J. H. M., 93m:68027**
Goto, Shigeki Formalizing computer program traces. (English summary) **93j:68026**
Guo, Yi Ke *see* **Darlington, John; et al., (93i:68007)**
Honsell, Furio *see* **Egidi, Lavinia; et al., 93i:68036**
Jaffar, Joxan (*with* Maher, Michael J.; Stuckey, Peter J.; Yap, Roland H. C.) Output in CLP($\mathscr{R}$). (English summary) **93m:68026**
Jäger, Gerhard (*with* Stärk, Robert F.) The defining power of stratified and hierarchical logic programs. (English summary) **93j:68027**
Lee, J. H. M. (*with* van Emden, M. H.) Adapting CLP($\mathscr{R}$) to floating-point arithmetic. (English summary) **93m:68027**
Maher, Michael J. *see* **Jaffar, Joxan; et al., 93m:68026**
Poirriez, Vincent MLOG: a strongly typed confluent functional language with logical variables. (English summary) (*see* **93i:68007**)
Pull, Helen *see* **Darlington, John; et al., (93i:68007)**
Ronchi Della Rocca, Simona *see* **Egidi, Lavinia; et al., 93i:68036**
Stärk, Robert F. *see* **Jäger, Gerhard, 93j:68027**
Stuckey, Peter J. *see* **Jaffar, Joxan; et al., 93m:68026**
Walters, R. F. C. An imperative language based on distributive categories. (English summary) **93g:68011**
Yap, Roland H. C. *see* **Jaffar, Joxan; et al., 93m:68026**

Items with secondary classifications in 68N15

Hilken, Barney P. (*with* Rydeheard, David E.) Towards a categorical semantics of type classes. **93k:68063**
Lassez, Jean-Louis (*with* McAloon, K. W.) A canonical form for generalized linear constraints. **93f:68082**
Lee, Peter *see* **Pfenning, Frank, 93a:03015**
Lobo, Jorge *see* **Minker, Jack; et al., 93b:68024**
MacDonald, John L. Concretely functorial programming. **93h:68092**
Mairson, Harry G. Quantifier elimination and parametric polymorphism in programming languages. (English summary) **93g:68078**
McAloon, K. W. *see* **Lassez, Jean-Louis, 93f:68082**
Meyer, Bertrand ★ Introduction to the theory of programming languages. **93k:68001a**
— ★ Introduction à la théorie des langages de programmation. (French. French summary) [Introduction to the theory of programming languages] **93k:68001b**
Minker, Jack (*with* Lobo, Jorge; Rajasekar, Arcot) Circumscription and disjunctive logic programming. **93b:68024**
Mosses, Peter D. ★ Action semantics. **93i:68002**
Parpucea, Ilie Theoretical support for object-oriented and parallel programming. (Romanian summary)
Pfenning, Frank (*with* Lee, Peter) Metacircularity in the polymorphic λ-calculus. **93a:03015**
(Picardat, Jean-François) *see* **Meyer, Bertrand, 93k:68001b**
Rajasekar, Arcot *see* **Minker, Jack; et al., 93b:68024**
Rydeheard, David E. *see* **Hilken, Barney P., 93k:68063**
Zimmer, Ralf Martin ★ Zur Pragmatik eines operationalisierten λ-Kalküls als Basis für interaktive Reduktionssysteme. (German) [On the pragmatics of an operationalized λ-calculus as the basis for interactive reduction systems] **93e:68001**

68N17 Logic programming

Abiteboul, Serge (*with* Vianu, Victor) Datalog extensions for database queries and updates. **93c:68012**
Afrati, Foto The parallel complexity of single rule logic programs. (English summary) **93h:68015**
Aït-Kaci, Hassan (*with* Podelski, Andreas; Smolka, Gert) A feature-based constraint system for logic programming with entailment. (English summary) (*see* **93i:68007**)
Alpuente Frasnedo, María (*with* Falaschi, Moreno; Gabbrielli, Maurizio; Levi, Giorgio) The semantics of equational logic programming as an instance of CLP. (English summary) (*see* **93k:68020**)
(Apt, K. R.) *see* **Logic programming languages, 93k:68020**
Atanassov, Krassimir T. (*with* Georgiev, Christo) Intuitionistic fuzzy Prolog. (English summary)
(de Bakker, J. W.) *see* **Logic programming languages, 93k:68020**
Baral, Chitta R. (*with* Subrahmanian, V. S.) Stable and extension class theory for logic programs and default logics. **93h:68016**
Barbuti, Roberto (*with* Giacobazzi, Roberto) A bottom-up polymorphic type inference in logic programming. (English summary) **93m:68028**
Beierle, Christoph (*with* Meyer, Gregor; Semle, Heiner) Extending the Warren abstract machine to polymorphic order-sorted resolution. (English summary) (*see* **93i:68009**)
— Logic programming with typed unification and its realization on an abstract machine. (English summary)
van Benthem, Johan Logic as programming. (English summary) **93k:68017**
Beringer, Henri *see* **De Backer, Bruno, (93i:68009)**
Bezem, Marc Strong termination of logic programs. (English summary) **93h:68017**
de Boer, Frank S. (*with* Kok, Joost N.; Palamidessi, Catuscia; Rutten, Jan J. M. M.) A paradigm for asynchronous communication and its application to concurrent constraint programming. (English summary) (*see* **93k:68020**)
Bonnier, Staffan *see* **Małuszyński, Jan; et al., (93k:68020)**
Bossi, A. (*with* Gabbrielli, Maurizio; Levi, Giorgio; Meo, M. C.) Contributions to the semantics of open logic programs. (English summary) (*see* **93i:68007**)
Boye, Johan *see* **Małuszyński, Jan; et al., (93k:68020)**
Brogi, Antonio (*with* Ciampolini, Anna; Lamma, Evelina; Mello, Paola) The implementation of a distributed model for logic programming based on multiple-headed clauses. (English summary) **93e:68011**
Casanova, M. A. (*with* Hemerly, A. S.; Guerreiro, R. A. de T.) Explaining SLDNF resolution with nonnormal defaults. (English summary) **93i:68037**
— *see also* **Guerreiro, R. A. de T.; et al.**
Cheong, Pui Hung (*with* Fribourg, Laurent) Implementation of narrowing: the Prolog-based approach. (English summary) (*see* **93k:68020**)
Ciampolini, Anna *see* **Brogi, Antonio; et al., 93e:68011**
De Backer, Bruno (*with* Beringer, Henri) Intelligent backtracking for CLP languages: an application to CLP(R). (English summary) (*see* **93i:68009**)
Debart, Françoise (*with* Enjalbert, Patrice; Lescot, Madeleine) Multimodal logic programming using equational and order-sorted logic. (English summary) **93i:68038**
Debray, Saumya K. Efficient dataflow analysis of logic programs. (English summary) **93h:68018**
— *see also* **Giacobazzi, Roberto; et al., (93i:68007)**
Denecker, Marc (*with* De Schreye, Danny) On the duality of abduction and model generation. (English summary) **93j:68028**
De Schreye, Danny *see* **Denecker, Marc, 93j:68028**
Doets, Kees A slight strengthening of a theorem of Blair and Kunen. **93d:68010**
Enjalbert, Patrice *see* **Debart, Françoise; et al., 93i:68038**
Falaschi, Moreno *see* **Alpuente Frasnedo, María; et al., (93k:68020)**
Filippenko, I. (*with* Morris, F. L.) Domains for logic programming. **93m:68029**
Finance, Jean-Pierre *see* **Perrin, Guy-René**
Fribourg, Laurent *see* **Cheong, Pui Hung, (93k:68020)**
Gabbrielli, Maurizio (*with* Levi, Giorgio) Unfolding and fixpoint semantics of concurrent constraint logic programs. (English summary) **93m:68030**
— *see also* **Bossi, A.; et al., (93i:68007)** *and* **Alpuente Frasnedo, María; et al., (93k:68020)**
Georgiev, Christo *see* **Atanassov, Krassimir T.**
Giacobazzi, Roberto (*with* Debray, Saumya K.; Levi, Giorgio) A generalized semantics for constraint logic programs. (English summary) (*see* **93i:68007**)
— *see also* **Barbuti, Roberto, 93m:68028**
Gil, Bernhard Complete extension of general logic programs. **93e:68012**
Giordano, Laura (*with* Martelli, Alberto; Rossi, Gianfranco) Extending Horn clause logic with implication goals. **93b:68010**
Guerreiro, R. A. de T. (*with* Hemerly, A. S.; Casanova, M. A.) STORK and PENGUIN: logic programming systems using general clauses and defaults. (English summary)
— *see also* **Casanova, M. A.; et al., 93i:68037**
Hallnäs, Lars (*with* Schroeder-Heister, Peter) A proof-theoretic approach to logic programming. I. Clauses as rules. **93d:68011**
— (*with* Schroeder-Heister, Peter) A proof-theoretic approach to logic programming. II. Programs as definitions. **93d:68012**
Hein, James Completions of perpetual logic programs. **93c:68013**
Hemerly, A. S. *see* **Casanova, M. A.; et al., 93i:68037** *and* **Guerreiro, R. A. de T.; et al.**
Hölldobler, Steffen Combining logic programming and equation solving. **93a:68023**
Kågedal, Andreas *see* **Małuszyński, Jan; et al., (93k:68020)**
Kalé, Laxmikant V. *see* **Ramkumar, Balkrishna**
Kanchanasut, Kanchana (*with* Stuckey, Peter J.) Transforming normal logic programs to constraint logic programs. (English summary) **93h:68019**
Kawamura, Tadashi Derivation of efficient logic programs by synthesizing new predicates. (English summary) (*see* **93i:68009**)
— Logic program synthesis from first order logic specifications. (English summary) **93j:68029**
Kemp, David B. (*with* Stuckey, Peter J.; Srivastava, Divesh) Magic sets and bottom-up evaluation of well-founded models. (English summary) (*see* **93i:68009**)
— (*with* Stuckey, Peter J.) Semantics of logic programs with aggregates. (English summary) (*see* **93i:68009**)
Kluźniak, Feliks *see* **Małuszyński, Jan; et al., (93k:68020)**
Kok, Joost N. *see* **de Boer, Frank S.; et al., (93k:68020)**
Lamma, Evelina (*with* Mello, Paola; Natali, Antonio) An extended Warren abstract machine for the execution of structured logic programs. (English summary) **93j:68030**
— *see also* **Brogi, Antonio; et al., 93e:68011**
Lescot, Madeleine *see* **Debart, Françoise; et al., 93i:68038**
Levi, Giorgio *see* **Gabbrielli, Maurizio, 93m:68030; Bossi, A.; et al., (93i:68007); Giacobazzi, Roberto; et al., (93i:68007)** *and* **Alpuente Frasnedo, María; et al., (93k:68020)**
Li, Chun Lin Variable-driven AND-parallelism. (English summary) **93k:68018**
Małuszyński, Jan (*with* Bonnier, Staffan; Boye, Johan; Kluźniak, Feliks; Kågedal, Andreas; Nilsson, Ulf) Logic programs with external procedures. (English summary) (*see* **93k:68020**)
Marek, Wiktor (*with* Nerode, A.; Remmel, Jeffrey B.) How complicated is the set of stable models of a recursive logic program? **93g:68012**
— (*with* Subrahmanian, V. S.) The relationship between stable, supported, default and autoepistemic semantics for general logic programs. (English summary) **93j:68031**
Martelli, Alberto *see* **Giordano, Laura; et al., 93b:68010**
McCabe, Francis G. An introduction to L&O. (English summary) (*see* **93k:68020**)
Mello, Paola *see* **Brogi, Antonio; et al., 93e:68011** *and* **Lamma, Evelina; et al., 93j:68030**
Meo, M. C. *see* **Bossi, A.; et al., (93i:68007)**
Meyer, Gregor *see* **Beierle, Christoph; et al., (93i:68009)**
Miller, Dale A. A logic programming language with lambda-abstraction, function variables, and simple unification. **93b:68011**
— *see also* **Nadathur, Gopalan, 93h:68020**
Monteiro, Luís (*with* Porto, António) A language for contextual logic programming. (English summary) (*see* **93k:68020**)

Morris, F. L. *see* **Filippenko, I., 93m:68029**
Motoyoshi, Fumio *see* **Sato, Taisuke, 93j:68033**
Mukai, Kuniaki CLP(AFA): coinductive semantics of Horn clauses with compact constraints. **93i:68039**
Nadathur, Gopalan (*with* Miller, Dale A.) Higher-order Horn clauses. **93h:68020**
Nakayama, Hideaki Program transformation under the principle of proof as program. (English summary) **93m:68031**
Natali, Antonio *see* **Lamma, Evelina; et al., 93j:68030**
Nerode, A. *see* **Marek, Wiktor; et al., 93g:68012**
Ng, Raymond T. (*with* Subrahmanian, V. S.) Relating Dempster-Shafer theory to stable semantics. (English summary) **93m:68032**
Nilsson, Ulf *see* **Małuszyński, Jan; et al., (93k:68020)**
Palamidessi, Catuscia *see* **de Boer, Frank S.; et al., (93k:68020)**
Perrin, Guy-René (*with* Finance, Jean-Pierre) Communication relations: a paradigm for parallel program design. (English summary)
Phan Minh Dung Acyclic disjunctive logic programs with abductive procedure as proof procedure. (English summary) (*see* **93i:68007**)
— On the relations between stable and well-founded semantics of logic programs. (English summary) **93h:68021**
Podelski, Andreas *see* **Aït-Kaci, Hassan; et al., (93i:68007)**
Poole, David Lynton Logic programming, abduction and probability. (English summary) **93j:68032**
Porto, António *see* **Monteiro, Luís, (93k:68020)**
Ramakrishnan, Raghu (*with* Sudarshan, S.) Top-down vs. bottom-up revisited. (English summary) (*see* **93i:68009**)
— Parallelism in logic programs. (English summary)
Ramkumar, Balkrishna (*with* Kalé, Laxmikant V.) A join algorithm for combining AND parallel solutions in AND/OR parallel systems. (English summary)
Remmel, Jeffrey B. *see* **Marek, Wiktor; et al., 93g:68012**
Rossi, Gianfranco *see* **Giordano, Laura; et al., 93b:68010**
Rutten, Jan J. M. M. *see* **de Boer, Frank S.; et al., (93k:68020)** *and* **Logic programming languages, 93k:68020**
Sato, Taisuke (*with* Motoyoshi, Fumio) A complete top-down interpreter for first order programs. (English summary) **93j:68033**
— Equivalence-preserving first-order unfold/fold transformation systems. (English summary) **93k:68019**
Schmitt, Peter H. ★ Theorie der logischen Programmierung. (German. German summary) [Theory of logic programming] **93j:68034**
Schroeder-Heister, Peter *see* **Hallnäs, Lars, 93d:68011** *and* **93d:68012**
Semle, Heiner *see* **Beierle, Christoph; et al., (93i:68009)**
Shepherdson, J. C. Unfold/fold transformations of logic programs. **93e:68013**
Shibata, Katsuyuki Micro-computer Prolog as a handy tool for formal algebraic computations. **93d:68013**
Smolka, Gert Residuation and guarded rules for constraint logic programming. (English summary) **93i:68040**
— *see also* **Aït-Kaci, Hassan; et al., (93i:68007)**
Srivastava, Divesh *see* **Kemp, David B.; et al., (93i:68009)**
Stärk, Robert F. A complete axiomatization of the three-valued completion of logic programs. **93i:68041**
Stuckey, Peter J. *see* **Kanchanasut, Kanchana, 93h:68019; Kemp, David B.; et al., (93i:68009)** *and* **(93i:68009)**
Subrahmanian, V. S. *see* **Baral, Chitta R., 93h:68016; Marek, Wiktor, 93j:68031** *and* **Ng, Raymond T., 93m:68032**
Sudarshan, S. *see* **Ramakrishnan, Raghu, (93i:68009)**
Vianu, Victor *see* **Abiteboul, Serge, 93c:68012**
Wadge, William W. Higher-order Horn logic programming. (English summary) (*see* **93i:68009**)

Items listed otherwise than by author

Logic programming languages ★ Logic programming languages. **93k:68020**

Items with secondary classifications in 68N17

Alferes, José Júlio *see* **Pereira, Luís Moniz; et al., 93j:68124**
Aparício, Joaquim Nunes *see* **Pereira, Luís Moniz; et al., 93j:68124**
Arikawa, Setsuo (*with* Shinohara, Takeshi; Yamamoto, Akihiro) Learning elementary formal systems. **93b:68040**
Balbiani, Philippe A modal semantics of negation in logic programming. (English summary) **93e:68060**
Bellia, Marco (*with* Occhiuto, M. Eugenia) c-expressions: a variable-free calculus for equational logic programming. (English summary) **93k:68087**
Bonacina, Maria Paola (*with* Hsiang, Jieh) On rewrite programs: semantics and relationship with Prolog. (English summary) **93i:68126**
Carpenter, Bob Typed feature structures: a generalization of first-order terms. (English summary) (*see* **93i:68009**)
Cousot, Patrick (*with* Cousot, Radhia) Abstract interpretation and application to logic programs. **93g:68073**
Cousot, Radhia *see* **Cousot, Patrick, 93g:68073**
Darlington, John (*with* Guo, Yi Ke; Pull, Helen) A new perspective on integrating functional and logic languages. (English summary) (*see* **93i:68007**)
Delahaye, J.-P. Les interprétations partielles et leurs applications á la programmation logique. [Partial interpretations and their applications to logic programming] (*see* **93d:68003**)
Dincbas, Mehmet *see* **Van Hentenryck, Pascal; et al., 93i:68158**
van Emden, M. H. *see* **Lee, J. H. M., 93m:68027**
Fitting, Melvin C. Well-founded semantics, generalized. (English summary) **93m:68111**
Guo, Yi Ke *see* **Darlington, John; et al., (93i:68007)**
Holzbaur, Christian *see* **Mozetič, Igor, 93m:68118**
Hsiang, Jieh *see* **Bonacina, Maria Paola, 93i:68126**
Hu, Yun Fa A goal-type driven method of solving Horn logic with equality. **93e:68113**
Ida, Tetsuo (*with* Nakamura, Atsushi; Suzuki, Taro; Nakagawa, Koji) Abstract machine approach to operational semantics of Prolog. (English summary) **93m:68114**
Jaffar, Joxan (*with* Maher, Michael J.; Stuckey, Peter J.; Yap, Roland H. C.) Output in CLP($\mathscr{R}$). (English summary) **93m:68026**
Jiang, Yue Jun A first step towards autoepistemic logic programming. (Russian summary) **93a:68082**
Kakas, A. C. (*with* Mancarella, P.) Preferred extensions are partial stable models. (English summary) **93i:68122**
Kamareddine, Fairouz A system at the cross-roads of functional and logic programming. (English summary) **93k:68064**
Kanamori, Tadashi (*with* Kawamura, Tadashi) Abstract interpretation based on OLDT resolution. (English summary) **93j:68035**
— Abstract interpretation based on Alexander templates. (English summary) **93j:68036**
Kawamura, Tadashi *see* **Kanamori, Tadashi, 93j:68035**
Kifer, Michael (*with* Subrahmanian, V. S.) Theory of generalized annotated logic programming and its applications. **93b:68082**
Kurfess, Franz ★ Parallelism in logic. (English. English summary) **93d:68018**
Lassez, Jean-Louis (*with* McAloon, K. W.) A canonical form for generalized linear constraints. **93f:68082**
Lee, J. H. M. (*with* van Emden, M. H.) Adapting CLP($\mathscr{R}$) to floating-point arithmetic. (English summary) **93m:68027**
Lin, Zheng A distributed fair polling scheme applied to OR-parallel logic programming. (English summary)
Lobo, Jorge (*with* Minker, Jack; Rajasekar, Arcot) ★ Foundations of disjunctive logic programming. **93i:68160**
— (*with* Subrahmanian, V. S.) Relating minimal models and prerequisite-free normal defaults. (English summary) **93m:03051**
— *see also* **Minker, Jack; et al., 93b:68024**
Maher, Michael J. *see* **Jaffar, Joxan; et al., 93m:68026**
Mancarella, P. *see* **Kakas, A. C., 93i:68122**
Mattila, Jorma K. ★ Calculus of modifier operators in fuzzy logic.
McAloon, K. W. *see* **Lassez, Jean-Louis, 93f:68082**
Miller, Dale A. (*with* Nadathur, Gopalan; Pfenning, Frank; Scedrov, Andre) Uniform proofs as a foundation for logic programming. **93b:03044**
Minker, Jack (*with* Lobo, Jorge; Rajasekar, Arcot) Circumscription and disjunctive logic programming. **93b:68024**
— *see also* **Lobo, Jorge; et al., 93i:68160**
Montanari, Ugo (*with* Rossi, Francesca) True concurrency in concurrent constraint programming. (English summary) **93j:68122**
Mozetič, Igor (*with* Holzbaur, Christian) Integrating numerical and qualitative models within constraint logic programming. (English summary) **93m:68118**
Nadathur, Gopalan *see* **Miller, Dale A.; et al., 93b:03044**
Nakagawa, Koji *see* **Ida, Tetsuo; et al., 93m:68114**
Nakamura, Atsushi *see* **Ida, Tetsuo; et al., 93m:68114**
Nie, Xumin On the complexities of non-Horn clause logic programming.
Occhiuto, M. Eugenia *see* **Bellia, Marco, 93k:68087**
Orgun, Mehmet A. (*with* Wadge, William W.) Towards a unified theory of intensional logic programming. (English summary) **93m:68152**
Pereira, Luís Moniz (*with* Aparício, Joaquim Nunes; Alferes, José Júlio) Counterfactual reasoning based on revising assumptions. (English summary) **93j:68124**
Pfenning, Frank *see* **Miller, Dale A.; et al., 93b:03044**
Plümer, Lutz Automatic termination proofs for Prolog programs operating on nonground terms. (English summary) **93j:68134**
Poirriez, Vincent MLOG: a strongly typed confluent functional language with logical variables. (English summary) (*see* **93i:68007**)
Przymusiński, Teodor C. Nonmonotonic reasoning versus logic programming: a new perspective. (*see* **93b:68073**)
Pull, Helen *see* **Darlington, John; et al., (93i:68007)**
Rajasekar, Arcot *see* **Minker, Jack; et al., 93b:68024** *and* **Lobo, Jorge; et al., 93i:68160**
Rossi, Francesca *see* **Montanari, Ugo, 93j:68122**
Sagiv, Yehoshua A termination test for logic programs. (English summary) **93j:68137**
(Saraswat, Vijay) *see* **Logic programming, 93i:68009**
Scedrov, Andre *see* **Miller, Dale A.; et al., 93b:03044**
Shepherdson, J. C. Mints type deductive calculi for logic programming. **93f:03019**
Shinohara, Takeshi *see* **Arikawa, Setsuo; et al., 93b:68040**
Simonis, Helmut *see* **Van Hentenryck, Pascal; et al., 93i:68158**
Stuckey, Peter J. *see* **Jaffar, Joxan; et al., 93m:68026**
Subrahmanian, V. S. *see* **Kifer, Michael, 93b:68082** *and* **Lobo, Jorge, 93m:03051**
Suzuki, Taro *see* **Ida, Tetsuo; et al., 93m:68114**
(Ueda, Kazunori) *see* **Logic programming, 93i:68009**
Van Hentenryck, Pascal (*with* Simonis, Helmut; Dincbas, Mehmet) Constraint satisfaction using constraint logic programming. (English summary) **93i:68158**
Wadge, William W. *see* **Orgun, Mehmet A., 93m:68152**
Yamamoto, Akihiro *see* **Arikawa, Setsuo; et al., 93b:68040**
Yap, Roland H. C. *see* **Jaffar, Joxan; et al., 93m:68026**

Items listed otherwise than by author

Logic programming ★ Logic programming. **93i:68009**
San Diego, CA ★ Logic programming. **93i:68009**
Symposium:
Logic Programming ★ Logic programming. **93i:68009**

68N20 Compilers and generators [see also 68Q52]

Baraki, Gebreselassie A note on abstract interpretation of polymorphic functions. **93a:68024**
Hughes, John (*with* Launchbury, John) Projections for polymorphic first-order strictness analysis. (English summary) **93g:68013**
Kanamori, Tadashi (*with* Kawamura, Tadashi) Abstract interpretation based on OLDT resolution. (English summary) **93j:68035**

— Abstract interpretation based on Alexander templates. (English summary) **93j:68036**
Kawamura, Tadashi *see* **Kanamori, Tadashi, 93j:68035**
Launchbury, John ★ Projection factorisations in partial evaluation. **93a:68025**
— *see also* **Hughes, John, 93g:68013**
Rus, Teodor Algebraic construction of compilers. **93h:68022**
Stransky, Jan A lattice for abstract interpretation of dynamic (LISP-like) structures. (English summary) **93j:68037**

Items with secondary classification in 68N20

Chebotar', K. S. A practical approach to the solution of the circulatory problem for attribute grammars. (Russian. English and Moldavian summaries) **93f:68063**
Debray, Saumya K. Efficient dataflow analysis of logic programs. (English summary) **93h:68018**
Jensen, Thomas P. Strictness analysis in logical form. **93a:68081**
Lamma, Evelina (*with* Mello, Paola; Natali, Antonio) An extended Warren abstract machine for the execution of structured logic programs. (English summary) **93j:68030**
Lee, Peter *see* **Pfenning, Frank, 93a:03015**
Mello, Paola *see* **Lamma, Evelina; et al., 93j:68030**
Motoyoshi, Fumio *see* **Sato, Taisuke, 93j:68033**
Natali, Antonio *see* **Lamma, Evelina; et al., 93j:68030**
Pfenning, Frank (*with* Lee, Peter) Metacircularity in the polymorphic λ-calculus. **93a:03015**
Sato, Taisuke (*with* Motoyoshi, Fumio) A complete top-down interpreter for first order programs. (English summary) **93j:68033**

68N25 Monitors and operating systems

Irani, Sandy (*with* Karlin, Anna R.; Phillips, Steven J.) Strongly competitive algorithms for paging with locality of reference. (*see* **93b:68005**)
Karlin, Anna R. *see* **Irani, Sandy; et al., (93b:68005)**
Phillips, Steven J. *see* **Irani, Sandy; et al., (93b:68005)**

Items with secondary classifications in 68N25

Moser, Louise E. Calculus and probability determine the performance of a disk drive. (English summary)

68N99 None of the above, but in this section

Itkin, V. È. An algebra of mixed computation. **93e:68014**

Items with secondary classifications in 68N99

Fateman, Richard J. A review of Mathematica. **93f:68049**
Sergeraert, Francis Functional coding and effective homology. **93e:68092**

68Pxx Theory of data

68P05 Data structures

Aldous, David J. (*with* Hofri, Micha; Szpankowski, Wojciech) Maximum size of a dynamic data structure: hashing with lazy deletion revisited. **93i:68042**
Andersson, Arne (*with* Ottmann, Thomas) Faster uniquely represented dictionaries. (English summary) (*see* **93d:68005**)
— Comments on: "On the balance property of Patricia tries: external path length viewpoint" [Theoret. Comput. Sci. **68** (1989), no. 1, 1–17; MR 91a:68036] by P. Kirschenhofer, H. Prodinger and W. Szpankowski. (English summary) **93k:68021**
Baeza-Yates, Ricardo A. (*with* Cunto, Walter) Unbalanced multiway trees improved by partial expansions. (English summary) **93f:68020**
Carlsson, Svante (*with* Chen, Jingsen) The complexity of heaps. **93d:68014**
Chen, Jingsen *see* **Carlsson, Svante, 93d:68014**
Cunto, Walter *see* **Baeza-Yates, Ricardo A., 93f:68020**
Czech, Zbigniew J. (*with* Havas, George; Majewski, Bohdan S.) An optimal algorithm for generating minimal perfect hash functions. (English summary)
Devroye, Luc A limit theory for random skip lists. (English summary) **93m:68033**
— A note on the probabilistic analysis of Patricia trees. **93b:68012**
— (*with* Szpankowski, Wojciech; Rais, Bonita) A note on the height of suffix trees. **93a:68026**
Eppstein, David (*with* Italiano, Giuseppe F.; Tamassia, Roberto; Tarjan, Robert Endre; Westbrook, Jeffery; Yung, Moti) Maintenance of a minimum spanning forest in a dynamic plane graph. **93a:68027**
Fiat, Amos (*with* Naor, Moni; Schmidt, Jeanette P.; Siegel, Alan) Nonoblivious hashing. (English summary) **93h:68023**
Frederickson, Greg N. Ambivalent data structures for dynamic 2-edge-connectivity and k smallest spanning trees. (English summary) **93i:68043**
— A data structure for dynamically maintaining rooted trees. (English summary) (*see* **93k:05002**)
Fredman, M. L. (*with* Johnson, David Stifler; McGeoch, L. A.; Ostheimer, G.) Data structures for traveling salesmen. (English summary) (*see* **93k:05002**)
Gal'perin, I. I. (*with* Rivest, Ronald L.) Scapegoat trees. (English summary) **93m:68034**
Hagerup, Torben On a compaction theorem of Ragde. (English summary) **93g:68014**
Han, Jiawei Binding propagation beyond the reach of rule/goal graphs. (English summary)
Havas, George *see* **Czech, Zbigniew J.; et al.**
Hofri, Micha *see* **Aldous, David J.; et al., 93i:68042**
Ibarra, Oscar H. (*with* Kim, Myung Hee) Quadtree building algorithms on an SIMD hypercube. (English summary)
Ishiguro, Akira *see* **Suzuki, Hitoshi; et al.**
Italiano, Giuseppe F. *see* **Eppstein, David; et al., 93a:68027**
Johnson, David Stifler *see* **Fredman, M. L.; et al., (93k:05002)**
Karpov, A. O. Inverted structure—a relational model for data identification. (Russian. English, Russian and Ukrainian summaries) **93g:68015**
Kemp, Rainer On the stack size of a class of backtrack trees. (English summary) **93i:68044**
Kim, Myung Hee *see* **Ibarra, Oscar H.**
(Kirschenhofer, Peter) *see* **Andersson, Arne, 93k:68021**
Luccio, Fabrizio (*with* Pietracaprina, Andrea; Pucci, Geppino) Analysis and implementation of parallel uniform hashing. **93k:68022**
Mahmoud, Hosam M. A law of large numbers for path lengths in search trees. **93j:68038**
Maier, Robert S. A path integral approach to data structure evolution. **93a:68028**
Majewski, Bohdan S. *see* **Czech, Zbigniew J.; et al.**
Mayer, Otto *see* **Ouksel, M. Aris**
McGeoch, L. A. *see* **Fredman, M. L.; et al., (93k:05002)**
Meredith, D. (*with* Rasmussen, Henning) Rational approximation schemes for unstable Hele-Shaw flows. (English summary)
Mulmuley, Ketan (*with* Sen, Sandeep) Dynamic point location in arrangements of hyperplanes. **93m:68035**
Munro, J. Ian *see* **Papadakis, Thomas; et al., 93c:68014**
Naor, Moni *see* **Fiat, Amos; et al., 93h:68023**
Ng, D. T. H. (*with* Oommen, B. J.) A short note on doubly-linked list reorganizing heuristics. (English summary)
Nishizeki, Takao *see* **Suzuki, Hitoshi; et al.**
O'Neil, Patrick E. The SB-tree. An index-sequential structure for high-performance sequential access. **93h:68024**
Oommen, B. J. *see* **Ng, D. T. H.**
Ostheimer, G. *see* **Fredman, M. L.; et al., (93k:05002)**
Ottmann, Thomas *see* **Andersson, Arne, (93d:68005)**
Ouksel, M. Aris (*with* Mayer, Otto) A robust and efficient spatial data structure. The nested interpolation-based grid file. (English summary)
Papadakis, Thomas (*with* Munro, J. Ian; Poblete, Patricio V.) Average search and update costs in skip lists. **93c:68014**
Perkins, A. Louise A mixed directed-undirected data structure for a parallel implementation of a domain decomposition algorithm. (English summary)
Pietracaprina, Andrea *see* **Luccio, Fabrizio; et al., 93k:68022**
Poblete, Patricio V. *see* **Papadakis, Thomas; et al., 93c:68014**
(Prodinger, Helmut) *see* **Andersson, Arne, 93k:68021**
Pucci, Geppino *see* **Luccio, Fabrizio; et al., 93k:68022**
Rais, Bonita *see* **Devroye, Luc; et al., 93a:68026**
Rasmussen, Henning *see* **Meredith, D.**
Ressler, Eugene K. Random list permutations in place. (English summary) **93g:68016**
Richards, Dana S. Studies of self-organizing placement algorithms for linear and finger lists. **93j:68039**
Rivest, Ronald L. *see* **Gal'perin, I. I., 93m:68034**
Schmidt, Jeanette P. *see* **Fiat, Amos; et al., 93h:68023**
Sen, Sandeep *see* **Mulmuley, Ketan, 93m:68035**
Siegel, Alan *see* **Fiat, Amos; et al., 93h:68023**
Spinrad, Jeremy P. P_4-trees and substitution decomposition. (English summary) **93g:68017**
Sundar, Rajamani A lower bound for the dictionary problem under a hashing model. (English summary) (*see* **93d:68005**)
Suzuki, Hitoshi (*with* Ishiguro, Akira; Nishizeki, Takao) Variable-priority queue and doughnut routing. (English summary)
Szpankowski, Wojciech (Un)expected behavior of typical suffix trees. **93d:68015**
— *see also* **Devroye, Luc; et al., 93a:68026**; **Aldous, David J.; et al., 93i:68042** *and* **Andersson, Arne, 93k:68021**
Tamassia, Roberto *see* **Eppstein, David; et al., 93a:68027**
Tarjan, Robert Endre *see* **Eppstein, David; et al., 93a:68027**
Westbrook, Jeffery *see* **Eppstein, David; et al., 93a:68027**
Yellin, Daniel M. Algorithms for subset testing and finding maximal sets. (*see* **93b:68005**)
— Representing sets with constant time equality testing. (English summary) **93e:68015**
Yung, Moti *see* **Eppstein, David; et al., 93a:68027**
Zhang, Ming Hua Data types with errors and exceptions. (English summary) **93i:68045**

Items with secondary classifications in 68P05

Agarwal, Pankaj K. Geometric partitioning and its applications. **93a:52012**
— *see also* **van Kreveld, Marc; et al., 93f:68096**
Anderson, James H. (*with* Grošelj, Bojan) Beyond atomic registers: bounded wait-free implementations of nontrivial objects. (English summary) **93k:68016**
Atallah, Mikhail J. (*with* Chen, Danny Z.) Parallel rectilinear shortest paths with rectangular obstacles. **93h:68136**
de Berg, Mark T. (*with* van Kreveld, Marc; Nilsson, Bengt J.; Overmars, Mark H.) Shortest path queries in rectilinear worlds. (English summary) **93j:68208**
Bern, Marshall Approximate closest-point queries in high dimensions. (English summary) **93m:68162**
Brookes, Stephen (*with* Geva, Shai) Towards a theory of parallel algorithms on concrete data structures. (English summary) **93m:68063**
Byts', V. V. (*with* Zulunov, R. M.) Specification of levels of description of data types. (Russian) **93h:68090**
Carpenter, Bob ★ The logic of typed feature structures. **93j:68001**
Chen, Danny Z. *see* **Atallah, Mikhail J., 93h:68136**
Chen, Rong Jaye *see* **Chien, Been Chian; et al., 93i:68060**
Chiang, Yi-Jen (*with* Preparata, Franco P.; Tamassia, Roberto) A unified approach to dynamic point location, ray shooting, and shortest paths in planar maps. (English summary) (*see* **93k:05002**)
Chien, Been Chian (*with* Chen, Rong Jaye; Yang, Wei Pang) Analysis of the multigroup method for manipulating multiple stacks. (English summary) **93i:68060**
Colbourn, Charles J. (*with* Heinrich, Katherine) Conflict-free access to parallel memories. **93a:05032**
Dietzfelbinger, Martin (*with* Meyer auf der Heide, Friedhelm) Dynamic hashing in real time. (English summary) **93j:68040**
Flajolet, Philippe (*with* Richmond, L. Bruce) Generalized digital trees and their difference-differential equations. **93f:05086**
Galil, Zvi (*with* Italiano, Giuseppe F.) Fully dynamic algorithms for 2-edge connectivity. (English summary) **93i:68142**

— (*with* Italiano, Giuseppe F.) Maintaining the 3-edge-connected components of a graph on-line. (English summary) **93m:68075**
Geva, Shai *see* **Brookes, Stephen, 93m:68063**
Grošelj, Bojan *see* **Anderson, James H., 93k:68016**
Grossi, Roberto Further comments on the subtree isomorphism for ordered trees: "On the subtree isomorphism problem for ordered trees" [Inform. Process. Lett. **32** (1989), no. 5, 271–273; MR 90k:68139] by E. Mäkinen. **93c:68077**
Heath, Lenwood S. (*with* Leighton, Frank Thomson; Rosenberg, Arnold L.) Comparing queues and stacks as mechanisms for laying out graphs. **93d:05150**
Heinrich, Katherine *see* **Colbourn, Charles J., 93a:05032**
Il'in, V. P. ★ О структурах данных и алгоритмов в задачах математической физики. (Russian. English and Russian summaries) [On the structures of data and algorithms in problems of mathematical physics]
Italiano, Giuseppe F. *see* **Galil, Zvi, 93i:68142** *and* **93m:68075**
Kannan, Sampath K. (*with* Naor, Moni; Rudich, Steven) Implicit representation of graphs. (English summary) **93g:68107**
Kasahara, Masao *see* **Morii, Masakatu, 93j:68081**
Kowalska, Anna A new class of libraries. (English summary) **93i:60128**
van Kreveld, Marc (*with* Overmars, Mark H.; Agarwal, Pankaj K.) Intersection queries in sets of disks. **93f:68096**
— *see also* **de Berg, Mark T.; et al., 93j:68208**
Leighton, Frank Thomson *see* **Heath, Lenwood S.; et al., 93d:05150**
Louchard, G. (*with* Randrianarimanana, B.; Schott, René) Dynamic algorithms in D. E. Knuth's model: a probabilistic analysis. **93k:68048**
Mahmoud, Hosam M. ★ Evolution of random search trees. **93f:68045**
(Mäkinen, Erkki) *see* **Grossi, Roberto, 93c:68077**
Meyer auf der Heide, Friedhelm *see* **Dietzfelbinger, Martin, 93j:68040**
Morii, Masakatu (*with* Kasahara, Masao) Perfect staircase profile of linear complexity for finite sequences. (English summary) **93j:68081**
Nakata, Ikuo (*with* Sassa, Masataka) Regular expressions with semantic rules and their application to data structure directed programs. (English summary) **93k:68060**
Naor, Moni *see* **Kannan, Sampath K.; et al., 93g:68107**
Nilsson, Bengt J. *see* **de Berg, Mark T.; et al., 93j:68208**
Overmars, Mark H. *see* **van Kreveld, Marc; et al., 93f:68096** *and* **de Berg, Mark T.; et al., 93j:68208**
Preparata, Franco P. *see* **Chiang, Yi-Jen; et al., (93k:05002)**
Randrianarimanana, B. *see* **Louchard, G.; et al., 93k:68048**
Richards, Dana S. (*with* Salowe, Jeffrey S.) Stacks, queues, and deques with order-statistic operations. (English summary) **93i:68048**
Richmond, L. Bruce *see* **Flajolet, Philippe, 93f:05086**
Rosenberg, Arnold L. *see* **Heath, Lenwood S.; et al., 93d:05150**
Rudich, Steven *see* **Kannan, Sampath K.; et al., 93g:68107**
Sakaguchi, Hidetsugu Self-organization of tree structures. (English summary)
Salowe, Jeffrey S. *see* **Richards, Dana S., 93i:68048**
Sassa, Masataka *see* **Nakata, Ikuo, 93k:68060**
Schoenmakers, Berry ★ Data structures and amortized complexity in a functional setting. (English. Dutch summary) **93i:68035**
Schott, René *see* **Louchard, G.; et al., 93k:68048**
Smid, Michiel Maintaining the minimal distance of a point set in polylogarithmic time. **93d:68070**
Stransky, Jan A lattice for abstract interpretation of dynamic (LISP-like) structures. (English summary) **93j:68037**
Tamassia, Roberto *see* **Chiang, Yi-Jen; et al., (93k:05002)**
Yang, Wei Pang *see* **Chien, Been Chian; et al., 93i:68060**
Zierer, Hans Relation algebraic domain constructions. **93a:68089**
Zulunov, R. M. *see* **Byts', V. V., 93h:68090**

68P10 Searching and sorting

Albers, Susanne (*with* Hagerup, Torben) Improved parallel integer sorting without concurrent writing. (*see* **93b:68005**)
Alon, Noga (*with* Azar, Yossi) Comparison-sorting and selecting in totally monotone matrices. (*see* **93b:68005**)
d'Amore, Fabrizio (*with* Marchetti-Spaccamela, Alberto; Nanni, Umberto) The weighted list update problem and the lazy adversary. (English summary) **93m:68036**
Azar, Yossi *see* **Alon, Noga, (93b:68005)**
Carlsson, Svante A note on HEAPSORT. (English summary)
Chang, Chih Yung *see* **Sheu, Jang Ping; et al., 93i:68049**
Chen, Calvin C.-Y. (*with* Das, Sajal K.) Breadth-first traversal of trees and integer sorting in parallel. **93b:68013**
Chen, Wen Chin *see* **Chung, Kuo Liang; et al., 93g:68018**
Chen, Yuh Shyan *see* **Sheu, Jang Ping; et al., 93i:68049**
Chien, Been Chian (*with* Yang, Wei Pang) The worst case analysis of algorithm on multiple stacks manipulation.
Chung, Kuo Liang (*with* Chen, Wen Chin; Lin, Fêng Ch'ing) On the complexity of search algorithms. (English summary) **93g:68018**
Cowan, Richard *see* **Lam, Kin, 93c:68016**
Cypher, Robert A lower bound on the size of shellsort sorting networks. (English summary) **93m:68037**
Das, Sajal K. *see* **Chen, Calvin C.-Y., 93b:68013**
De Prisco, Roberto (*with* De Santis, Alfredo) On binary search trees. (English summary) **93k:68023**
De Santis, Alfredo *see* **De Prisco, Roberto, 93k:68023**
Dietzfelbinger, Martin (*with* Meyer auf der Heide, Friedhelm) Dynamic hashing in real time. (English summary) **93j:68040**
Estivill-Castro, Vladimir (*with* Wood, Derick) Randomized adaptive sorting. (English summary) **93j:68041**
Fleischer, Rudolf (*with* Sinha, Bhabani P.; Uhrig, Christian) A lower bound for the worst case of bottom-up-heapsort. (English summary) (*see* **93b:68006**)
— (*with* Sinha, Bhabani P.; Uhrig, Christian) A lower bound for the worst case of bottom-up-heapsort. (English summary) **93j:68042**
Füredi, Zoltán (*with* Linial, Nathan) A geometric parallel search problem related to group testing. (English summary) **93g:68019**
Ganguly, Sumit (*with* Silberschatz, Avi; Tsur, Shalom) Parallel bottom-up processing of Datalog queries. (English summary)
Ginsberg, Matthew L. (*with* Harvey, William D.) Iterative broadening. **93c:68015**
Goddard, Wayne D. (*with* Kenyon, Claire; King, Valerie; Schulman, Leonard J.) Optimal randomized algorithms for local sorting and set-maxima. (English summary) **93j:68043**
de Graaf, Jeannette M. (*with* Kosters, Walter A.) Expected heights in heaps. (English summary) **93g:68020**
Hagerup, Torben *see* **Albers, Susanne, (93b:68005)**
Han, Yijie (*with* Igarashi, Yoshihide; Truszczyński, Mirosław) Indexing functions and time lower bounds for sorting on a mesh-connected computer. **93b:68014**
Harvey, William D. *see* **Ginsberg, Matthew L., 93c:68015**
Hayward, Ryan B. *see* **McDiarmid, Colin J. H., (93b:68005)**
Hofri, Micha (*with* Shachnai, Hadas) On the limited utility of auxiliary information in the list update problem. (English summary) **93h:68025**
Hui, Lucas Chi Kwong (*with* Martel, Charles) On efficient unsuccessful search. (*see* **93b:68005**)
Igarashi, Yoshihide *see* **Han, Yijie; et al., 93b:68014**
Katajainen, Jyrki (*with* Pasanen, Tomi) Stable minimum space partitioning in linear time. (English summary) **93i:68046**
Kenyon, Claire *see* **Goddard, Wayne D.; et al., 93j:68043**
Khoong, C. M. (*with* Leong, H.-W.) Sorting by distribution in parallel. (English summary) **93m:68038**
King, Valerie *see* **Goddard, Wayne D.; et al., 93j:68043**
Kosters, Walter A. *see* **de Graaf, Jeannette M., 93g:68020**
Kunde, Manfred Concentrated regular data streams on grids: sorting and routing near to the bisection bound. (English summary) (*see* **93d:68005**)
Lam, Kin (*with* Cowan, Richard) Stochastic reversibility in self-organizing systems. **93c:68016**
Lambert, Jean-Luc Sorting the sums $(x_i + y_j)$ in $O(n^2)$ comparisons. (English summary) **93j:68044**
Lau, Kung Kiu (*with* Prestwich, Steven D.) Synthesis of a family of recursive sorting procedures. (English summary) **93j:68045**
Lee, Kuo Chun *see* **Takefuji, Yoshiyasu; et al.**
Leighton, Frank Thomson (*with* Ma, Yuan; Plaxton, C. Greg) Highly fault-tolerant sorting circuits. (English summary) (*see* **93d:68005**)
Leong, H.-W. *see* **Khoong, C. M., 93m:68038**
Lin, Fêng Ch'ing *see* **Chung, Kuo Liang; et al., 93g:68018**
Linial, Nathan *see* **Füredi, Zoltán, 93g:68019**
Louchard, G. Robust variations of interpolation search: an asymptotic analysis. (German summary) **93c:68017**
Ma, Yuan *see* **Leighton, Frank Thomson; et al., (93d:68005)**
Marchetti-Spaccamela, Alberto *see* **d'Amore, Fabrizio; et al., 93m:68036**
Martel, Charles *see* **Hui, Lucas Chi Kwong, (93b:68005)**
McDiarmid, Colin J. H. (*with* Hayward, Ryan B.) Strong concentration for quicksort. (*see* **93b:68005**)
McIlroy, Peter Optimistic sorting and information-theoretic complexity. (English summary) (*see* **93k:05002**)
Meyer auf der Heide, Friedhelm *see* **Dietzfelbinger, Martin, 93j:68040**
Moffat, Alistair (*with* Petersson, Ola; Wormald, Nicholas C.) Further analysis of an adaptive sorting algorithm. (English summary) **93m:68039**
Mulder, J. C. (*with* Weijland, W. P.) Verification of an algorithm for log-time sorting by square comparison. (*see* **93g:68090**)
Munro, J. Ian (*with* Raman, Venkatesh) Sorting with minimum data movement. (English summary) **93d:68016**
Nanni, Umberto *see* **d'Amore, Fabrizio; et al., 93m:68036**
Paredaens, Jan (*with* Van Gucht, Dirk) Converting nested algebra expressions into flat algebra expressions. **93c:68018**
Pasanen, Tomi *see* **Katajainen, Jyrki, 93i:68046**
Petersson, Ola *see* **Moffat, Alistair; et al., 93m:68039**
Pittel, Boris Correction: "Paths in a random digital tree: limiting distributions" [Adv. in Appl. Probab. **18** (1986), no. 1, 139–155; MR 87k:68021].
Plaxton, C. Greg *see* **Leighton, Frank Thomson; et al., (93d:68005)**
Prestwich, Steven D. *see* **Lau, Kung Kiu, 93j:68045**
Prodinger, Helmut External internal nodes in digital search trees via Mellin transforms. (English summary) **93i:68047**
Raman, Venkatesh *see* **Munro, J. Ian, 93d:68016**
Richards, Dana S. (*with* Salowe, Jeffrey S.) Stacks, queues, and deques with order-statistic operations. (English summary) **93i:68048**
Salowe, Jeffrey S. *see* **Richards, Dana S., 93i:68048**
Schulman, Leonard J. *see* **Goddard, Wayne D.; et al., 93j:68043**
Shachnai, Hadas *see* **Hofri, Micha, 93h:68025**
Sheu, Jang Ping (*with* Chen, Yuh Shyan; Chang, Chih Yung) Fault-tolerant sorting algorithm on hypercube multicomputers. (English summary) **93i:68049**
Silberschatz, Avi *see* **Ganguly, Sumit; et al.**
Sinha, Bhabani P. *see* **Fleischer, Rudolf; et al., 93j:68042** *and* **(93b:68006)**
Skobelev, V. G. Search on partially ordered structures. (Russian. Russian and Ukrainian summaries) **93m:68040**
Sprugnoli, Renzo Properties of binary trees related to position. (English summary) **93h:68026**
Sundar, Rajamani On the deque conjecture for the splay algorithm. **93m:68041**
Takefuji, Yoshiyasu (*with* Tanaka, Toshimitsu; Lee, Kuo Chun) A parallel string search algorithm.
Tanaka, Toshimitsu *see* **Takefuji, Yoshiyasu; et al.**
Truszczyński, Mirosław *see* **Han, Yijie; et al., 93b:68014**
Tsay, Jyh Jong Searching tree structures on a mesh of processors. **93h:68027**

Tseitlin, G. E. Searching and sorting: classification, transformation, synthesis. I. (Russian. Russian summary) **93f:68021**
— Search and sorting: classification, transformation, synthesis. II. (Russian. Russian summary) **93i:68050**
Tsur, Shalom *see* **Ganguly, Sumit; et al.**
Uhrig, Christian *see* **Fleischer, Rudolf; et al., 93j:68042** *and* **(93b:68006)**
Van Gucht, Dirk *see* **Paredaens, Jan, 93c:68018**
Wada, Masami Construction of minimal perfect hashing function based on the approximation of piecewise linear function. (English summary) **93h:68028**
Weijland, W. P. *see* **Mulder, J. C., (93g:68090)**
Wood, Derick *see* **Estivill-Castro, Vladimir, 93j:68041**
Wormald, Nicholas C. *see* **Moffat, Alistair; et al., 93m:68039**
Yang, Wei Pang *see* **Chien, Been Chian**

Items with secondary classifications in 68P10

Bugrara, Khaled M. (*with* Purdom, Paul Walton, Jr.) Average time analysis of clause order backtracking. (English summary) **93m:68068**
Carlsson, Svante (*with* Chen, Jingsen) The complexity of heaps. **93d:68014**
Chen, Jingsen *see* **Carlsson, Svante, 93d:68014**
Claus, Volker Complexity measures on permutations. (English summary) **93m:68071**
Devroye, Luc A limit theory for random skip lists. (English summary) **93m:68033**
Ding, Yuzheng (*with* Weiss, Mark Allen) Best case lower bounds for Heapsort. (English and German summaries) **93f:68042**
Friedman, Joel A note on poset geometries. (English summary) **93m:06006**
Gal'perin, I. I. (*with* Rivest, Ronald L.) Scapegoat trees. (English summary) **93m:68034**
Golovach, P. A. Minimal trees with a given search number. (Russian. English and Ukrainian summaries)
Kim, Junguk L. *see* **Liu, Xiao Qing, 93i:68079**
Kirschenhofer, Peter Enumeration of trees. **93h:05058**
Kossen, L. (*with* Weijland, W. P.) Correctness proofs for systolic algorithms: palindromes and sorting. (*see* **93g:68090**)
Lee, Der Tsai *see* **Lou, R. D.; et al., 93d:68024**
Liu, Xiao Qing (*with* Kim, Junguk L.) An efficient parallel sorting algorithm. **93i:68079**
Lou, R. D. (*with* Sarrafzadeh, Majid; Lee, Der Tsai) An optimal algorithm for the maximum two-chain problem. **93d:68024**
Maier, Robert S. A path integral approach to data structure evolution. **93a:68028**
Mayer, Otto *see* **Ouksel, M. Aris**
Negro, Alberto (*with* Sereno, Matteo) Ulam's searching game with three lies. (English summary) **93i:90129**
O'Neil, Patrick E. The SB-tree. An index-sequential structure for high-performance sequential access. **93h:68024**
Ouksel, M. Aris (*with* Mayer, Otto) A robust and efficient spatial data structure. The nested interpolation-based grid file. (English summary)
Purdom, Paul Walton, Jr. *see* **Bugrara, Khaled M., 93m:68068**
Ramanan, Prakash Testing the optimality of alphabetic trees. **93a:68059**
Richards, Dana S. Studies of self-organizing placement algorithms for linear and finger lists. **93j:68039**
Rivest, Ronald L. *see* **Gal'perin, I. I., 93m:68034**
Roitberg, M. A. Fast algorithm for optimal aligning of symbol sequences. **93m:92015**
Sarrafzadeh, Majid *see* **Lou, R. D.; et al., 93d:68024**
Sereno, Matteo *see* **Negro, Alberto, 93i:90129**
Weijland, W. P. *see* **Kossen, L., (93g:68090)**
Weiss, Mark Allen *see* **Ding, Yuzheng, 93f:68042**
Welzl, Emo Partition trees for triangle counting and other range searching problems. (English summary) (*see* **93k:68003**)

68P15 Database theory

Abiteboul, Serge (*with* Vianu, Victor) Expressive power of query languages. **93g:68021**
Biskup, Joachim (*with* Convent, Bernhard) Relational chase procedures interpreted as resolution with paramodulation. **93a:68029**
Brahmadathan, K. (*with* Ramarao, K. V. S.) On the design of replicated databases.
Chan, Edward P. F. (*with* Hernández, Héctor J.) Independence-reducible database schemes. **93a:68030**
Chen, Hanxiong (*with* Xu, Yu; Yamaguchi, Kazunori; Kitagawa, Hiroyuki; Ohbo, Nobuo; Fujiwara, Yuzuru) Decomposition—an approach for optimizing queries including ADT functions.
Cho, Cheng-Hong *see* **Lee, Yung-Chia, 93c:68020**
Convent, Bernhard *see* **Biskup, Joachim, 93a:68029**
Day, Alan The lattice theory of functional dependencies and normal decompositions. **93i:68051**
Dechter, Rina From local to global consistency. **93d:68017**
Demetrovics, János (*with* Katona, Gyula O. H.; Miklós, Dezső) Partial dependencies in relational databases. (Hungarian. English summary) **93h:68029**
— (*with* Katona, Gyula O. H.; Sali, Attila) Branching dependency in relational databases. (Hungarian. English summary) **93h:68030**
— (*with* Rónyai, Lajos; Hua, Nam Son) Dependency types. **93a:68031**
— (*with* Hua, Nam Son) An explicit representation of functional dependencies and their relationships to Sperner systems. **93c:68019**
— (*with* Hencsey, Gusztáv; Libkin, L. O.; Muchnik, I. B.) On the interaction between closure operations and choice functions with applications to relational databases. (English summary) **93k:68024**
— (*with* Hencsey, Gusztáv; Libkin, L. O.; Muchnik, I. B.) Normal form relation schemes: a new characterization. (English summary) **93m:68042**
— (*with* Nguyễn Xuân Huy) Representation of closure for functional, multivaluated and join dependencies. (English summary) **93g:68023**
— (*with* Katona, Gyula O. H.; Miklós, Dezső) Partial dependencies in relational databases and their realization. (English summary) **93g:68022**
— (*with* Libkin, L. O.; Muchnik, I. B.) Functional dependencies in relational databases: a lattice point of view. (English summary) **93g:68024**
— (*with* Katona, Gyula O. H.; Sali, Attila) The characterization of branching dependencies. (English summary) **93h:68031**
Dong, Guozhu On datalog linearization of chain queries. **93h:68032**
Dong, Ji Run *see* **Wang, Hai Yang**
Fogg, Iain (*with* Orlowska, Maria E.) Valid unbiased fragmentation for distributed database design. (English summary) **93j:68046**
Fujiwara, Yuzuru *see* **Chen, Hanxiong; et al.**
García Pupo, Mauro Atypical deductive databases. (Spanish. English and Spanish summaries)
— Cartesian dependencies and a new variant of normal form for relational databases. (Spanish. English and Spanish summaries)
— Additional rules for the decomposition of functional and multivalued dependencies in relational databases. (Spanish. English and Spanish summaries)
Gottlob, Georg (*with* Schrefl, Michael; Stumptner, Markus) Selective inheritance of attribute values in relational databases. (English summary) **93g:68025**
Graham, Marc H. *see* **Wang, Ke^3, 93b:68019**
Gyssens, Marc (*with* Van Gucht, Dirk) The powerset algebra as a natural tool to handle nested database relations. **93a:68032**
Hencsey, Gusztáv *see* **Demetrovics, János; et al., 93k:68024** *and* **93m:68042**
Hernández, Héctor J. (*with* Wang, Ke^3) On the boundedness of constant-time-maintainable database schemes. (English summary) **93j:68047**
— *see also* **Chan, Edward P. F., 93a:68030**
Hua, Nam Son *see* **Demetrovics, János; et al., 93a:68031** *and* **93c:68019**
Ibaraki, Toshihide *see* **Katoh, Naoki; et al.**
Kameda, Tsunehiko *see* **Katoh, Naoki; et al.**
Katoh, Naoki (*with* Ibaraki, Toshihide; Kameda, Tsunehiko) A multiversion cautious scheduler with dynamic serialization constraints for database concurrency control. (English summary)
Katona, Gyula O. H. *see* **Demetrovics, János; et al., 93g:68022; 93h:68029; 93h:68030** *and* **93h:68031**
Kitagawa, Hiroyuki *see* **Chen, Hanxiong; et al.**
Lausen, Georg Locking based on a pairwise decomposition of the transaction system. (English summary) **93g:68026**
Lee, Yung-Chia (*with* Cho, Cheng-Hong) Flexible view update. **93c:68020**
Levene, Mark (*with* Loizou, George) Inferring null join dependencies in relational databases. (English summary) **93m:68043**
Libkin, L. O. *see* **Demetrovics, János; et al., 93g:68024; 93k:68024** *and* **93m:68042**
Liu, Wei Yi An efficient algorithm for processing multi-relation queries in relational databases. **93h:68033**
— The reduction of the fuzzy data domain and fuzzy consistent join. (English summary)
Loizou, George *see* **Levene, Mark, 93m:68043**
Maher, Michael J. A transformation system for deductive database modules with perfect model semantics. (English summary) **93m:68044**
Majster-Cederbaum, Mila E. Ensuring the existence of a BCNF-decomposition that preserves functional dependencies in $O(N^2)$ time.
Malvestuto, F. M. (*with* Studený, M.) Comment on: "A unique formal system for binary decompositions of database relations, probability distributions, and graphs" [Inform. Sci. **59** (1992), no. 1-2, 21–52; MR 92f:68033] by Malvestuto. **93b:68015**
Mannila, Heikki (*with* Räihä, Kari-Jouko) On the complexity of inferring functional dependencies. (English summary) **93i:68052**
Miklós, Dezső *see* **Demetrovics, János; et al., 93g:68022** *and* **93h:68029**
Muchnik, I. B. *see* **Demetrovics, János; et al., 93g:68024; 93k:68024** *and* **93m:68042**
Nguyễn Xuân Huy *see* **Demetrovics, János, 93g:68023**
Ohbo, Nobuo *see* **Chen, Hanxiong; et al.**
Orlowska, Maria E. (*with* Zhang, Yanchun) Understanding the fifth normal form (5NF). (English summary) **93j:68048**
— *see also* **Fogg, Iain, 93j:68046**
Özsoyoğlu, Z. Meral *see* **Yuan, Li-Yan, 93g:68029**
Pätzold, Walter Zur Optimierung von Anfragen an serielle Datenbestände. [On the optimization of queries for serial data bases]
Peter, H. A perspective on the theory of database systems. (English summary)
Plotkin, B. I. ★ Универсальная алгебра, алгебраическая логика и базы данных. (Russian) [Universal algebra, algebraic logic and data bases] **93i:68053**
— Some algebraic aspects of database theory. **93g:68027**
Räihä, Kari-Jouko *see* **Mannila, Heikki, 93i:68052**
Ramarao, K. V. S. *see* **Brahmadathan, K.**
Reiter, Raymond What should a database know? (English summary) **93m:68045**
Rónyai, Lajos *see* **Demetrovics, János; et al., 93a:68031**
Rosebrugh, Robert (*with* Wood, R. J.) Relational databases and indexed categories. (English summary) **93i:68054**
Rosenkrantz, Daniel J. *see* **Yu, Lin, 93i:68057**
Rounds, William C. Situation-theoretic aspects of databases. **93c:68021**
Sagiv, Yehoshua (*with* Saraiya, Yatin) Minimizing restricted-fanout queries. (English summary) **93i:68055**
Sali, Attila *see* **Demetrovics, János; et al., 93h:68030** *and* **93h:68031**
Saraiya, Yatin *see* **Sagiv, Yehoshua, 93i:68055**
Schmidt, Helmut ★ Meta-level control for deductive database systems. **93b:68016**
Schrefl, Michael (*with* Stumptner, Markus) On the formal properties of transitive inheritance in databases. (English summary)
— *see also* **Gottlob, Georg; et al., 93g:68025**
Studený, M. *see* **Malvestuto, F. M., 93b:68015**
Stumptner, Markus *see* **Gottlob, Georg; et al., 93g:68025** *and* **Schrefl, Michael**
Subrahmanian, V. S. Paraconsistent disjunctive deductive databases. **93b:68017**
Thalheim, B. The number of keys in relational and nested relational databases. (English summary) **93j:68049**
Ullman, Jeffrey D. The interface between language theory and database theory. **93g:68028**
Van Gucht, Dirk *see* **Gyssens, Marc, 93a:68032**
Vardi, Moshe Y. Automata theory for database theoreticians. **93b:68018**
Vianu, Victor *see* **Abiteboul, Serge, 93g:68021**

Vincent, Millist An efficient method for testing 4NF in relational databases. (English summary) **93j:68050**
Wang, Hai Yang (*with* Dong, Ji Run) Occurrence of reasoning duplication in deductive databases and a new algorithm for its reduction. (Chinese. English and Chinese summaries)
Wang, Ke^3 (*with* Graham, Marc H.) Constant-time maintainability: a generalization of independence. **93b:68019**
— (*with* Yuan, Li-Yan) Preservation of integrity constraints in definite DATALOG programs. (English summary) **93j:68051**
— Polynomial tests of normal forms and some related results. **93a:68033**
— On characterizing boundedness of database schemes with bounded dependencies. **93i:68056**
— *see also* **Hernández, Héctor J., 93j:68047**
Wood, R. J. *see* **Rosebrugh, Robert, 93i:68054**
Xu, Yu *see* **Chen, Hanxiong; et al.**
Yamaguchi, Kazunori *see* **Chen, Hanxiong; et al.**
Yu, Lin (*with* Rosenkrantz, Daniel J.) Representability of design objects by ancestor-controlled hierarchical specifications. (English summary) **93i:68057**
Yuan, Li-Yan (*with* Özsoyoğlu, Z. Meral) Design of desirable relational database schemes. (English summary) **93g:68029**
— *see also* **Wang, Ke^3, 93j:68051**
Zamfir Bleyberg, Maria A categorical view of databases. (English summary) **93i:68058**
Zhang, Yanchun *see* **Orlowska, Maria E., 93j:68048**
Zhu, Yang Yong Some algorithms for relational schema normalization. (Chinese. English and Chinese summaries)

Items listed otherwise than by author

Lecture Notes in Computer Science *see* **Schmidt, Helmut, 93b:68016**

Items with secondary classifications in 68P15

Abiteboul, Serge (*with* Vianu, Victor) Datalog extensions for database queries and updates. **93c:68012**
Barwise, K. Jon (*with* Moss, Lawrence S.) Hypersets. **93a:03057**
Dahlhaus, Elias (*with* Makowsky, J. A.) Query languages for hierarchic databases. (English summary) **93h:68037**
Dietzfelbinger, Martin (*with* Meyer auf der Heide, Friedhelm) Dynamic hashing in real time. (English summary) **93j:68040**
Gardy, Danièle Normal limiting distributions for projection and semijoin sizes. **93a:05011**
Greibach, Sheila (*with* Shi, Weiping; Simonson, Shai) Single tree grammars. **93g:68067**
Hébert, Michel Syntactic characterization of closure under connected limits. **93e:03050**
Hull, Richard B. (*with* Yoshikawa, Masatoshi) Object identity and query equivalence [equivalences]. **93f:68051**
Jäger, Gerhard (*with* Stärk, Robert F.) The defining power of stratified and hierarchical logic programs. (English summary) **93j:68027**
Kolaitis, Phokion G. (*with* Vardi, Moshe Y.) Infinitary logics and 0-1 laws. **93h:03038**
Kurki-Suonio, Reino Operational specification with joint actions: serializable databases. (English summary) **93g:68086**
Lam, Simon S. (*with* Shankar, A. Udaya) Specifying modules to satisfy interfaces: a state transition system approach. (English summary) **93j:68132**
Lamport, Leslie Critique of the Lake Arrowhead Three.
Lee, Dik Lun *see* **Lu, Wenyu, 93j:68053**
Lu, Wenyu (*with* Lee, Dik Lun) Characterization and processing of simple prefixed-chain recursion. (English summary) **93j:68053**
Makowsky, J. A. *see* **Dahlhaus, Elias, 93h:68037**
Mansour, Yishay (*with* Nisan, Noam; Tiwari, Prasoon) The computational complexity of universal hashing. (English summary) **93k:68037**
Meyer auf der Heide, Friedhelm *see* **Dietzfelbinger, Martin, 93j:68040**
Moss, Lawrence S. *see* **Barwise, K. Jon, 93a:03057**
Nisan, Noam *see* **Mansour, Yishay; et al., 93k:68037**
O'Neil, Patrick E. The SB-tree. An index-sequential structure for high-performance sequential access. **93h:68024**
Shankar, A. Udaya *see* **Lam, Simon S., 93j:68132**
Shi, Weiping *see* **Greibach, Sheila; et al., 93g:68067**
Simonson, Shai *see* **Greibach, Sheila; et al., 93g:68067**
Stärk, Robert F. *see* **Jäger, Gerhard, 93j:68027**
Tiwari, Prasoon *see* **Mansour, Yishay; et al., 93k:68037**
Vardi, Moshe Y. *see* **Kolaitis, Phokion G., 93h:03038**
Vianu, Victor *see* **Abiteboul, Serge, 93c:68012**
Vickers, Steven Geometric theories and databases. (English summary) **93j:68139**
Yoshikawa, Masatoshi *see* **Hull, Richard B., 93f:68051**

68P20 Information storage and retrieval

Acharya, Raj *see* **Ibaroudene, Djaffer**
Alagar, V. S. (*with* Goyal, Pankaj; Nair, P. S.; Sadri, Fereidoon) Permutation dependency in Datalog programs. (English summary) **93k:68025**
Analyti, Anastasia (*with* Pramanik, Sakti) Performance analysis of a main memory multi-directory hashing technique. (English summary) **93k:68026**
Arun-Kumar, S. (*with* Chockalingam, T.) Genetic search algorithms and their randomized operators. (English summary) **93h:68034**
Atzeni, Paolo (*with* Torlone, Riccardo) Updating relational databases through weak instance interfaces. (English summary) **93h:68035**
Baeza-Yates, Ricardo A. (*with* Gonnet, Gaston H.; Ziviani, Nivio) Improved bounds for the expected behaviour of AVL trees. **93i:68059**
Barbic, Federico *see* **Maiocchi, Roberto; et al., 93h:68038**
Chang, Chên Ch'êng (*with* Lin, H. F.; Chen, C. Y.) Optimality properties of the disc modulo allocation method for k-ary multiple key hashing files. (English summary) **93h:68036**
Chen, C. Y. *see* **Chang, Chên Ch'êng; et al., 93h:68036**
Chen, Rong Jaye *see* **Chien, Been Chian; et al., 93i:68060**
Chien, Been Chian (*with* Chen, Rong Jaye; Yang, Wei Pang) Analysis of the multigroup method for manipulating multiple stacks. (English summary) **93i:68060**
Cho, Seongwon (*with* Ersoy, Okan K.; Lehto, Mark) An algorithm to compute the degree of match in fuzzy systems. (English summary)
Chockalingam, T. *see* **Arun-Kumar, S., 93h:68034**
Dahlhaus, Elias (*with* Makowsky, J. A.) Query languages for hierarchic databases. (English summary) **93h:68037**
Ersoy, Okan K. *see* **Cho, Seongwon; et al.**
Fang, Hao *see* **Wang, En Fu; et al.**
Galitsyn, V. K. (*with* Lavinskii, G. V.) Combinatorial algorithms for compressing the recording of ordered sequences. (Russian. English and Ukrainian summaries)
Ghandeharizadeh, Shahram (*with* Meyer, Robert R.; Schultz, Gary L.; Yackel, Jonathan) Optimal processor assignment for parallel database design. (English summary) (*see* **93g:65178**)
Gilbert, John R. (*with* Schreiber, Robert) Optimal data placement for distributed memory architectures. (English summary) (*see* **93g:65178**)
Gonnet, Gaston H. *see* **Baeza-Yates, Ricardo A.; et al., 93i:68059**
Goyal, Pankaj *see* **Alagar, V. S.; et al., 93k:68025**
Hawkes, Lois Wright Combinatorial filing schemes with fewer buckets and improved redundancy and construction characteristics.
He, Yin Yun *see* **Wang, En Fu; et al.**
Ibaroudene, Djaffer (*with* Acharya, Raj) Linear hypertree for multidimensional image representation. (English summary)
Kamel, Nabil (*with* King, Roger) Intelligent database caching through the use of page-answers and page-traces. (English summary)
Katona, Gyula O. H. Rényi and the combinatorial search problems. **93j:68052**
King, Roger *see* **Kamel, Nabil**
LaPaugh, Andrea S. (*with* Lipton, Richard J.; Sandberg, Jonathan S.) How to store a triangular matrix. (English summary) **93e:68016**
Lavinskii, G. V. *see* **Galitsyn, V. K.**
Lee, Dik Lun *see* **Lu, Wenyu, 93j:68053**
Lehto, Mark *see* **Cho, Seongwon; et al.**
Lin, H. F. *see* **Chang, Chên Ch'êng; et al., 93h:68036**
Lipton, Richard J. (*with* Naughton, Jeffrey F.) Clocked adversaries for hashing. (English summary) **93i:68061**
— *see also* **LaPaugh, Andrea S.; et al., 93e:68016**
Lu, Wenyu (*with* Lee, Dik Lun) Characterization and processing of simple prefixed-chain recursion. (English summary) **93j:68053**
Maiocchi, Roberto (*with* Pernici, Barbara; Barbic, Federico) Automatic deduction of temporal information. (English summary) **93h:68038**
Mairson, Harry G. The effect of table expansion on the program complexity of perfect hash functions. (English summary) **93i:68062**
Makowsky, J. A. *see* **Dahlhaus, Elias, 93h:68037**
Meyer, Robert R. *see* **Ghandeharizadeh, Shahram; et al., (93g:65178)**
Nair, P. S. *see* **Alagar, V. S.; et al., 93k:68025**
Naughton, Jeffrey F. *see* **Lipton, Richard J., 93i:68061**
Ottmann, Thomas (*with* Wood, Derick) Updating binary trees with constant linkage cost. (English summary) **93m:68046**
Pernici, Barbara *see* **Maiocchi, Roberto; et al., 93h:68038**
Pramanik, Sakti *see* **Analyti, Anastasia, 93k:68026**
Reshetnikov, V. N. (*with* Sotnikov, A. N.) Modeling approximate information retrieval. (Russian) **93i:68063**
Sadri, Fereidoon *see* **Alagar, V. S.; et al., 93k:68025**
Salveter, Sharon *see* **Siegel, Michael; et al.**
Sandberg, Jonathan S. *see* **LaPaugh, Andrea S.; et al., 93e:68016**
Schreiber, Robert *see* **Gilbert, John R., (93g:65178)**
Schultz, Gary L. *see* **Ghandeharizadeh, Shahram; et al., (93g:65178)**
Sciore, Edward *see* **Siegel, Michael; et al.**
Shmueli, Oded Equivalence of Datalog queries is undecidable. (English summary) **93m:68047**
Siegel, Michael (*with* Sciore, Edward; Salveter, Sharon) A method for automatic rule derivation to support semantic query optimization. (English summary)
Sotnikov, A. N. *see* **Reshetnikov, V. N., 93i:68063**
Torlone, Riccardo *see* **Atzeni, Paolo, 93h:68035**
Wang, En Fu (*with* He, Yin Yun; Fang, Hao) Further research on parallel memories without access conflict and cell redundancy. (Chinese. English and Chinese summaries)
Wood, Derick *see* **Ottmann, Thomas, 93m:68046**
Xu, Xu Song The index memory management system. (Chinese. English and Chinese summaries)
Yackel, Jonathan *see* **Ghandeharizadeh, Shahram; et al., (93g:65178)**
Yang, Wei Pang *see* **Chien, Been Chian; et al., 93i:68060**
Ziviani, Nivio *see* **Baeza-Yates, Ricardo A.; et al., 93i:68059**

Items with secondary classifications in 68P20

Aldous, David J. (*with* Hofri, Micha; Szpankowski, Wojciech) Maximum size of a dynamic data structure: hashing with lazy deletion revisited. **93i:68042**
d'Amore, Fabrizio (*with* Marchetti-Spaccamela, Alberto; Nanni, Umberto) The weighted list update problem and the lazy adversary. (English summary) **93m:68036**
Andersson, Arne (*with* Ottmann, Thomas) Faster uniquely represented dictionaries. (English summary) (*see* **93d:68005**)
Atallah, Mikhail J. (*with* Chen, Danny Z.) Parallel rectilinear shortest paths with rectangular obstacles. **93h:68136**
Ben-Amram, Amir M. (*with* Galil, Zvi) On pointers versus addresses. (English summary) **93k:68027**
Bern, Marshall Approximate closest-point queries in high dimensions. (English summary) **93m:68162**
Chen, Danny Z. *see* **Atallah, Mikhail J., 93h:68136**
Colbourn, Charles J. (*with* Heinrich, Katherine) Conflict-free access to parallel memories. **93a:05032**

Dechter, Rina (*with* Pearl, Judea) Structure identification in relational data. (English summary) **93j:68201**
Demolombe, Robert Syntactical characterization of a subset of domain-independent formulas. **93d:03018**
Dietzfelbinger, Martin (*with* Meyer auf der Heide, Friedhelm) Dynamic hashing in real time. (English summary) **93j:68040**
Galil, Zvi *see* **Ben-Amram, Amir M., 93k:68027**
García Pupo, Mauro Atypical deductive databases. (Spanish. English and Spanish summaries)
Gasanov, È. È. Optimal informational networks for search relations that are linear quasi-order relations. (Russian) (*see* **93m:00021**)
Heinrich, Katherine *see* **Colbourn, Charles J., 93a:05032**
Hernández, Héctor J. (*with* Wang, Ke[3]) On the boundedness of constant-time-maintainable database schemes. (English summary) **93j:68047**
Hofri, Micha *see* **Aldous, David J.; et al., 93i:68042**
Hull, Richard B. (*with* Yoshikawa, Masatoshi) Object identity and query equivalence [equivalences]. **93f:68051**
Kanamori, Tadashi Abstract interpretation based on Alexander templates. (English summary) **93j:68036**
Lenzerini, Maurizio (*with* Schaerf, Andrea) Concept languages as query languages. (English summary) **93j:68101**
Luo, Chuan Ping A new method for processing compressions of computer image operators—simplification of multivalued logic functions. (Chinese. English and Chinese summaries)
Marchetti-Spaccamela, Alberto *see* **d'Amore, Fabrizio; et al., 93m:68036**
Meyer auf der Heide, Friedhelm *see* **Dietzfelbinger, Martin, 93j:68040**
Nanni, Umberto *see* **d'Amore, Fabrizio; et al., 93m:68036**
Ottmann, Thomas *see* **Andersson, Arne, (93d:68005)**
Pearl, Judea *see* **Dechter, Rina, 93j:68201**
Plotkin, B. I. Halmos (polyadic) algebras in database theory. **93h:03083**
Schaerf, Andrea *see* **Lenzerini, Maurizio, 93j:68101**
Sundar, Rajamani A lower bound for the dictionary problem under a hashing model. (English summary) (*see* **93d:68005**)
Szpankowski, Wojciech *see* **Aldous, David J.; et al., 93i:68042**
Wang, Ke[3] *see* **Hernández, Héctor J., 93j:68047**
Yellin, Daniel M. Algorithms for subset testing and finding maximal sets. (*see* **93b:68005**)
Yoshikawa, Masatoshi *see* **Hull, Richard B., 93f:68051**

68P25 Data encryption [see also 94A60]

Branstad, Dennis K. *see* **Smid, Miles E., (93k:94009)**
Capocelli, Renato M. (*with* Gargano, Luisa; Vaccaro, Ugo) Efficient q-ary immutable codes. **93a:68034**
Chan, Chin K'o (*with* Yu, Choung Dong) Yet another approach for secure broadcasting based upon single key concept. (English summary)
Dai, Zong Duo Binary sequences derived from ML-sequences over rings. I. Periods and minimal polynomials. (English summary) **93g:68030**
Gargano, Luisa *see* **Capocelli, Renato M.; et al., 93a:68034**
Hwang, Tzonelih Attacks on Okamoto and Tanaka's one-way ID-based key distribution system. (English summary)
Phillips, Nicholas C. *see* **Phillips, Steven J., 93g:68031**
Phillips, Steven J. (*with* Phillips, Nicholas C.) Strongly ideal secret sharing schemes. (English summary) **93g:68031**
Smid, Miles E. (*with* Branstad, Dennis K.) The data encryption standard: past and future. (English summary) (*see* **93k:94009**)
Tan, Yang Lin (*with* Xie, Dong Qing) A note on probabilistic encryption. (Chinese. English and Chinese summaries)
Vaccaro, Ugo *see* **Capocelli, Renato M.; et al., 93a:68034**
Xie, Dong Qing *see* **Tan, Yang Lin**
Yu, Choung Dong *see* **Chan, Chin K'o**

Items with secondary classifications in 68P25

Bos, Jurjen N. E. Provably unforgeable signatures. (English summary)
Brickell, E. F. (*with* Odlyzko, Andrew M.) Cryptanalysis: a survey of recent results. (English summary) (*see* **93k:94009**)
— (*with* Stinson, Douglas R.) Some improved bounds on the information rate of perfect secret sharing schemes. (English summary) **93j:94021**
Burmester, Mike An almost-constant round interactive zero-knowledge proof.
Dai, Zong Duo *see* **Yang, Jun Hui; et al., 93g:94011**
Goldreich, Oded (*with* Micali, Silvio; Wigderson, Avi) Proofs that yield nothing but their validity, or All languages in NP have zero-knowledge proof systems. **93b:68025**
van Heijst, Eugène Josephus Leonardus Johannes ★ Special signature schemes. **93j:94023**
Homer, Steven (*with* Selman, Alan L.) Oracles for structural properties: the isomorphism problem and public-key cryptography. **93j:68060**
Kasahara, Masao *see* **Morii, Masakatu, 93j:68081**
Lloyd, Sheelagh Balance, uncorrelatedness and the strict avalanche criterion. (English summary) **93i:94012**
Long, Yong Hong[2] Using Diophantine equations to construct public-key cryptosystems. (Chinese. English and Chinese summaries) **93j:94024**
Magliveras, Spyros S. (*with* Memon, Nasir D.) Algebraic properties of cryptosystem PGM. (English summary) **93h:94017**
Memon, Nasir D. *see* **Magliveras, Spyros S., 93h:94017**
Micali, Silvio *see* **Goldreich, Oded; et al., 93b:68025**
Morii, Masakatu (*with* Kasahara, Masao) Perfect staircase profile of linear complexity for finite sequences. (English summary) **93j:68081**
Odlyzko, Andrew M. *see* **Brickell, E. F., (93k:94009)**
Pethő, Attila On a polynomial transformation and its application to the construction of a public key cryptosystem. **93e:94011**
Queyranne, Maurice (*with* Wang, Yaoguang) On the convex hull of feasible solutions to certain combinatorial problems. **93f:90136**
Randall, Dana J. Efficient generation of random nonsingular matrices. (English summary) **93i:68089**
Salomaa, Arto A deterministic algorithm for modular knapsack problems. **93a:68050**
Selman, Alan L. *see* **Homer, Steven, 93j:68060**
(Simmons, Gustavus J.) *see* **Contemporary cryptology, 93k:94009**
Stinson, Douglas R. Combinatorial characterizations of authentication codes. **93d:94014**
— *see also* **Brickell, E. F., 93j:94021**
Wang, Yaoguang *see* **Queyranne, Maurice, 93f:90136**
Wigderson, Avi *see* **Goldreich, Oded; et al., 93b:68025**
Yang, Jun Hui (*with* Dai, Zong Duo; Zeng, Ken Cheng) A cryptographic study on S-boxes of DES type. III. (English summary) **93g:94011**
Zeng, Ken Cheng *see* **Yang, Jun Hui; et al., 93g:94011**

Items listed otherwise than by author

Contemporary cryptology ★ Contemporary cryptology. **93k:94009**

68P99 None of the above, but in this section

Dhagat, Aditi (*with* Gács, Péter; Winkler, Peter M.) On playing "twenty questions" with a liar. **93f:68022**
Gács, Péter *see* **Dhagat, Aditi; et al., 93f:68022**
Winkler, Peter M. *see* **Dhagat, Aditi; et al., 93f:68022**

Items with secondary classifications in 68P99

Kasymov, N. Kh. Positive models and universal propositions. (Russian) **93g:03031**

68Qxx Theory of computing

68Q05 Models of computation (abstract processors, Turing machines, etc.) [see also 03D10]

Aoki, Takafumi (*with* Kameyama, Michitaka; Higuchi, Tatsuo) Design of an ultrahigher-valued biocomputing system based on set-valued logic networks. (English summary)
Arutyunyan, L. L. Results of the optimal realization of programs for a multilevel model of a microprogram processor. (Russian. Armenian summary)
Babai, László (*with* Nisan, Noam; Szegedy, Márió) Multiparty protocols, pseudorandom generators for logspace, and time-space trade-offs. (English summary) **93m:68048**
Barrett, Geoff (*with* Goldsmith, Michael) Classifying unbounded nondeterminism in CSP. (*see* **93h:68004**)
Ben-Amram, Amir M. (*with* Galil, Zvi) On pointers versus addresses. (English summary) **93k:68027**
Boyar, Joan (*with* Frandsen, Gudmund; Sturtivant, Carl) An arithmetic model of computation equivalent to threshold circuits. **93f:68023**
Carlstrom, Ian F. Foreground automata. (English summary) **93j:68054**
Cosnard, Michel (*with* Ferreira, Afonso G.) Designing parallel nonnumerical algorithms. (English summary) (*see* **93f:00016**)
Darondeau, Philippe (*with* Nolte, Doris; Priese, Lutz; Yoccoz, Serge) Fairness, distances and degrees. **93f:68024**
Das, Amitabha (*with* Moser, Louise E.; Melliar-Smith, P. M.) A parallel sorting algorithm for a novel model of computation. (English summary)
Dauchet, Max Simulation of Turing machines by a regular rewrite rule. (English summary) **93i:68064**
Dowd, Martin Generic oracles, uniform machines, and codes. **93c:68022**
Ferreira, Afonso G. *see* **Cosnard, Michel, (93f:00016)**
Fet, Ya. I. ★ Анализ и синтез распределенных функциональных структур. (Russian. English and Russian summaries) [Analysis and synthesis of distributed functional structures] **93f:68025**
Frandsen, Gudmund *see* **Boyar, Joan; et al., 93f:68023**
Galil, Zvi *see* **Ben-Amram, Amir M., 93k:68027**
Galushkin, A. I. (*with* Sudarikov, V. A.; Shabanov, E. V.) Neuromathematics: methods for solving problems on neurocomputers. (Russian. English summary) **93b:68020**
Gewali, Laxmi P. (*with* Keil, J. Mark; Ntafos, Simeon) On covering orthogonal polygons with star-shaped polygons. **93b:68021**
Goldsmith, Michael *see* **Barrett, Geoff, (93h:68004)**
Higuchi, Tatsuo *see* **Aoki, Takafumi; et al.**
Holden, Arun V. (*with* Tucker, J. V.; Zhang, Henggui; Poole, M. J.) Coupled map lattices as computational systems. (English summary) **93i:68065**
Hromkovič, Juraj (*with* Inoue, Katsushi; Rovan, Branislav; Slobodová, Anna; Takanami, Itsuo; Wagner, Klaus Werner) On the power of one-way synchronized alternating machines with small space. **93f:68026**
Hutson, Jan E. Undecidability in an adaptive system. (English summary) **93i:68066**
Ibarra, Oscar H. (*with* Trân, Nicholas Q.) On space-bounded synchronized alternating Turing machines. **93j:68055**
— *see also* **Jiang, Tao[1]; et al., 93b:68022**
Inoue, Katsushi (*with* Itō, Akira; Takanami, Itsuo) Alternating Turing machines with modified accepting structure. **93g:68032**
— *see also* **Hromkovič, Juraj; et al., 93f:68026**
Itō, Akira *see* **Inoue, Katsushi; et al., 93g:68032**
Jeffries, Clark ★ Code recognition and set selection with neural networks. **93i:68067**
Jiang, Tao[1] (*with* Ibarra, Oscar H.; Wang, Hui; Zheng, Qi) A hierarchy result for 2-dimensional TMs operating in small space. **93b:68022**
Kalyanasundaram, Bala (*with* Schnitger, Georg) Communication complexity and lower bounds for sequential computation. (English summary) **93m:68049**
Kameyama, Michitaka *see* **Aoki, Takafumi; et al.**
Kapralski, A. Problems of inclusion and equivalence of digital systems. **93f:68027**
Keil, J. Mark *see* **Gewali, Laxmi P.; et al., 93b:68021**
Kfoury, A. J. (*with* Tiuryn, J.; Urzyczyn, P.) On the expressive power of finitely typed and universally polymorphic recursive procedures. **93e:68017**

Li, Chuan Xiang Structure of computative tree for computable function. (English summary)
Li, Ming[1] (*with* Longpré, Luc; Vitányi, Paul M. B.) The power of the queue. **93h:68039**
Longpré, Luc *see* **Li, Ming[1]; et al., 93h:68039**
Loui, Michael C. (*with* Luginbuhl, David R.) The complexity of on-line simulations between multidimensional Turing machines and random access machines. **93g:68033**
— (*with* Luginbuhl, David R.) Optimal on-line simulations of tree machines by random access machines. (English summary) **93i:68068**
Luginbuhl, David R. *see* **Loui, Michael C., 93g:68033** *and* **93i:68068**
Mayr, Ernst W. (*with* Subramanian, Ashok) The complexity of circuit value and network stability. **93k:68028**
Mehlhorn, Kurt (*with* Paul, Wolfgang J.; Uhrig, Christian) k versus $k+1$ index registers and modifiable versus nonmodifiable programs. (English summary) **93h:68040**
Melliar-Smith, P. M. *see* **Das, Amitabha; et al.**
Moser, Louise E. *see* **Das, Amitabha; et al.**
Nisan, Noam *see* **Babai, László; et al., 93m:68048**
Nolte, Doris *see* **Darondeau, Philippe; et al., 93f:68024**
Ntafos, Simeon *see* **Gewali, Laxmi P.; et al., 93b:68021**
Paul, Wolfgang J. *see* **Mehlhorn, Kurt; et al., 93h:68040**
Poole, M. J. *see* **Holden, Arun V.; et al., 93i:68065**
Priese, Lutz *see* **Darondeau, Philippe; et al., 93f:68024**
Reischuk, Rüdiger (*with* Schmeltz, Bernd) Reliable computation with noisy circuits and decision trees—a general $n \log n$ lower bound. (English summary) **93h:68041**
Robson, J. M. Deterministic simulation of a single tape Turing machine by a random access machine in sub-linear time. **93b:68023**
Rovan, Branislav *see* **Hromkovič, Juraj; et al., 93f:68026**
Rubel, Lee A. The extended analog computer.
Schmeltz, Bernd *see* **Reischuk, Rüdiger, 93h:68041**
Schnitger, Georg *see* **Kalyanasundaram, Bala, 93m:68049**
Shabanov, E. V. *see* **Galushkin, A. I.; et al., 93b:68020**
Shibusawa, Susumu Operations on an interconnection model consisting of hypercube and global bus connections. (English summary) **93j:68056**
Slobodová, Anna *see* **Hromkovič, Juraj; et al., 93f:68026**
Sturtivant, Carl *see* **Boyar, Joan; et al., 93f:68023**
Subramanian, Ashok *see* **Mayr, Ernst W., 93k:68028**
Sudarikov, V. A. *see* **Galushkin, A. I.; et al., 93b:68020**
Szegedy, Márió *see* **Babai, László; et al., 93m:68048**
Takanami, Itsuo *see* **Hromkovič, Juraj; et al., 93f:68026** *and* **Inoue, Katsushi; et al., 93g:68032**
Tiuryn, J. *see* **Kfoury, A. J.; et al., 93e:68017**
Tràn, Nicholas Q. *see* **Ibarra, Oscar H., 93j:68055**
Tucker, J. V. *see* **Holden, Arun V.; et al., 93i:68065**
Uhrig, Christian *see* **Mehlhorn, Kurt; et al., 93h:68040**
Urzyczyn, P. *see* **Kfoury, A. J.; et al., 93e:68017**
Vitányi, Paul M. B. *see* **Li, Ming[1]; et al., 93h:68039**
Wagner, Klaus Werner *see* **Hromkovič, Juraj; et al., 93f:68026**
Wang, Hui *see* **Jiang, Tao[1]; et al., 93b:68022**
Yoccoz, Serge *see* **Darondeau, Philippe; et al., 93f:68024**
Zhang, Henggui *see* **Holden, Arun V.; et al., 93i:68065**
Zheng, Qi *see* **Jiang, Tao[1]; et al., 93b:68022**

Items with secondary classifications in 68Q05

Abiteboul, Serge (*with* Vianu, Victor) Expressive power of query languages. **93g:68021**
Albert, Douglas (*with* Baldinger, Robert; Rhodes, John) Undecidability of the identity problem for finite semigroups. **93f:03030**
Baldinger, Robert *see* **Albert, Douglas; et al., 93f:03030**
Bartha, Miklós Foundations of a theory of synchronous systems. **93m:68119**
Berry, Gérard (*with* Boudol, Gérard) The chemical abstract machine. **93e:68018**
Blamey, Stephen The soundness and completeness of axioms for CSP processes. (*see* **93h:68004**)
Borodyanskiĭ, Yu. M. *see* **Burgin, M. S., 93c:03054**
Boudol, Gérard *see* **Berry, Gérard, 93e:68018**
Burgin, M. S. (*with* Borodyanskiĭ, Yu. M.) Infinite processes and superrecursive algorithms. (Russian) **93c:03054**
— Universal limit Turing machines. (Russian) **93m:03065**
Chong, C. T. Theory of computation and complex analytic dynamics. (*see* **93b:00022**)
Cohen, Daniel I. A. ★ Introduction to computer theory. **93i:68003**
da Costa, Newton C. A. (*with* Doria, Francisco Antonio) On the existence of very difficult satisfiability problems.
Cucker, Felipe (*with* Montaña, Jose L.; Pardo, Luis M.) Time bounded computations over the reals. **93m:03067**
— The arithmetical hierarchy over the reals. (English summary) **93k:03043**
Culik, Karel, II (*with* Yu, Sheng) Cellular automata, $\omega\omega$-regular sets, and sofic systems. **93e:68053**
Dietzfelbinger, Martin (*with* Maass, Wolfgang) The complexity of matrix transposition on one-tape off-line Turing machines with output tape. (English summary) **93m:68073**
Doria, Francisco Antonio *see* **da Costa, Newton C. A.**
Feferman, Solomon A new approach to abstract data types. I. Informal development. **93m:68120**
Freivalds, Rūsiņš Complexity of probabilistic versus deterministic automata. **93b:68060**
Girault-Beauquier, Danièle (*with* Pin, Jean-Eric) Languages and scanners. **93g:20124**
Gunawardena, Jeremy Geometric logic, causality and event structures. **93b:03043**
Heiman, Rafi (*with* Newman, Ilan; Wigderson, Avi) On read-once threshold formulae and their randomized decision tree complexity. (English summary) **93k:68033**
Huckenbeck, Ulrich A result about the power of geometric oracle machines. **93a:68152**
— Some elementary results about the equivalence of computability and decidability. **93e:03054**
Inoue, Katsushi (*with* Itō, Akira; Takanami, Itsuo) A relationship between nondeterministic Turing machines and 1-inkdot Turing machines with small space. **93j:68061**
Irani, Sandy (*with* Naor, Moni; Rubinfeld, Ronitt) On the time and space complexity of computation using write-once memory, or Is pen really much worse than pencil? **93a:68044**
Itō, Akira *see* **Inoue, Katsushi; et al., 93j:68061**
Kim, Ki Hang (*with* Roush, F. W.) Automorphisms of full shifts and Turing machines. **93j:54031**
Krause, Matthias Separating $\oplus$L from L, NL, co-NL, and AL = P for oblivious Turing machines of linear access. (English and French summaries) **93k:68034**
Lange, Klaus-Jörn Unambiguity of circuits. (English summary) **93k:68035**
Maass, Wolfgang *see* **Dietzfelbinger, Martin, 93m:68073**
Montaña, Jose L. *see* **Cucker, Felipe; et al., 93m:03067**
Muller, David E. (*with* Saoudi, Ahmed; Schupp, Paul E.) Alternating automata, the weak monadic theory of trees and its complexity. **93h:03058**
Naor, Moni *see* **Irani, Sandy; et al., 93a:68044**
Newman, Ilan *see* **Heiman, Rafi; et al., 93k:68033**
Nisan, Noam On read-once vs. multiple access to randomness in logspace. (English summary) **93i:68075**
Obradovic, Zoran (*with* Parberry, Ian) Computing with discrete multi-valued neurons. (English summary) **93j:68165**
Parberry, Ian *see* **Obradovic, Zoran, 93j:68165**
Pardo, Luis M. *see* **Cucker, Felipe; et al., 93m:03067**
Pin, Jean-Eric *see* **Girault-Beauquier, Danièle, 93g:20124**
Rhodes, John *see* **Albert, Douglas; et al., 93f:03030**
Roush, F. W. *see* **Kim, Ki Hang, 93j:54031**
Rubinfeld, Ronitt *see* **Irani, Sandy; et al., 93a:68044**
Rubinstein, Roy S. Self-P-printability and polynomial time Turing equivalence to a tally set. **93a:68045**
Saoudi, Ahmed *see* **Muller, David E.; et al., 93h:03058**
Schupp, Paul E. *see* **Muller, David E.; et al., 93h:03058**
Slobodová, Anna Some properties of space-bounded synchronized alternating Turing machines with universal states only. **93g:68047**
Takanami, Itsuo *see* **Inoue, Katsushi; et al., 93j:68061**
Tzvieli, Dvora Minimal diameter double-loop networks. I. Large infinite optimal families. **93a:68014**
Venkateswaran, H. Circuit definitions of nondeterministic complexity classes. **93g:68048**
Vianu, Victor *see* **Abiteboul, Serge, 93g:68021**
Wigderson, Avi *see* **Heiman, Rafi; et al., 93k:68033**
Yu, Sheng *see* **Culik, Karel, II, 93e:68053**

68Q10 Modes of computation (concurrent, parallel, nondeterministic, etc.) [see also 68Q90]

Akl, Selim G. (*with* Cosnard, Michel; Ferreira, Afonso G.) Data-movement-intensive problems: two folk theorems in parallel computation revisited. (French summary) **93a:68035**
Alad'ev, V. Z. ★ Однородные структуры. (Russian) [Homogeneous structures] **93f:68028**
Antonelli, Silvano (*with* Baiardi, F.; Pelagatti, Susanna; Vanneschi, M.) Modeling concurrent programs for static mapping. (English summary) (*see* **93f:00016**)
— (*with* Pelagatti, Susanna) On the complexity of the mapping problem for massively parallel architectures. (English summary) **93k:68029**
Azencott, Robert Boltzmann machines: high-order interactions and synchronous learning. (*see* **93e:62005**)
Babai, László Bounded round interactive proofs in finite groups. **93c:68023**
Baiardi, F. *see* **Antonelli, Silvano; et al., (93f:00016)**
de Bakker, J. W. (*with* Rutten, Jan J. M. M.) Concurrency semantics based on metric domain equations. (*see* **93h:68004**)
— (*with* Warmerdam, J. H. A.) Four domains for concurrency. **93a:68036**
Benveniste, Albert (*with* Le Guernic, Paul; Sorel, Yves; Sorine, Michel) A denotational theory of synchronous reactive systems. **93g:68034**
Bergstra, J. A. A process creation mechanism in process algebra. (*see* **93g:68090**)
Berry, Gérard (*with* Boudol, Gérard) The chemical abstract machine. **93e:68018**
Best, Eike (*with* Koutny, Maciej) Petri net semantics of priority systems. **93e:68019**
Beth, Thomas (*with* Hatz, Volker) Design machines: algebraically well described interconnection networks. (English summary) **93f:68029**
Bonizzoni, P. (*with* Mauri, Giancarlo; Pighizzini, G.; Sabadini, N.) Recognizing sets of labelled acyclic graphs. (English summary) **93h:68042**
Boudol, Gérard *see* **Berry, Gérard, 93e:68018**
Cherkasova, L. A. *see* **Ustimenko, A. P.**
Cosnard, Michel *see* **Akl, Selim G.; et al., 93a:68035**
Cypher, Robert Theoretical aspects of VLSI pin limitations. **93c:68024**
De Agostino, Sergio (*with* Petreschi, Rossella) On PV_{chunk} operations and matrogenic graphs. **93f:68031**
D'Hollander, Erik H. Partitioning and labeling of loops by unimodular transformations. (English summary) **93f:68030**
Eberbach, Eugeniusz Fixed point semantics for sets of equations over SMA-net. (English summary) **93h:68043**
Edmonds, Jeff (*with* Impagliazzo, Russell; Rudich, Steven; Sgall, Jiří) Communication complexity towards lower bounds on circuit depth. (English summary) **93g:68035**
Esparza, Javier (*with* Silva, Manuel) Compositional synthesis of live and bounded free choice Petri nets. **93a:68037**
Ferrari, Gian Luigi (*with* Montanari, Ugo) The observation algebra of spatial pomsets. **93a:68038**
Ferreira, Afonso G. *see* **Akl, Selim G.; et al., 93a:68035**
Georgakopoulos, G. (*with* Stafylopatis, A.) An approach to parallel algorithm design. (English and French summaries) **93m:68050**
Giorgi, J.-F. (*with* Le Métayer, D.) Continuation-based compilation of functional languages for parallel machines. (English summary) **93j:68057**
Groote, Jan Friso A short proof of the decidability of bisimulation for normed BPA-processes. **93g:68036**
Grzegorzewicz, Pawel A concept of decompositional approach to concurrent systems design. (English summary)

Hatz, Volker *see* **Beth, Thomas, 93f:68029**
Herman, Ted Self-stabilization: randomness to reduce space. (English summary) **93g:68037**
Hilbers, Peter A. J. ★ Processor networks and aspects of the mapping problem. **93c:68025**
Hromkovič, Juraj (*with* Monien, Burkhard) The bisection problem for graphs of degree 4 (configuring transputer systems). (English summary) **93k:68030**
Impagliazzo, Russell *see* **Edmonds, Jeff; et al., 93g:68035**
Jacobs, David Supercomputers: How super are they? (*see* **93g:00019**)
Josko, Bernhard A context dependent equivalence relation between Kripke structures. **93a:68039**
Karpov, Yu. G. Coherence of communicating processes. (English summary) **93g:68038**
Koutny, Maciej *see* **Best, Eike, 93e:68019**
Krasucki, Paul *see* **Parikh, Rohit, 93g:68040**
Krause, Matthias (*with* Waack, Stephan) Variation ranks of communication matrices and lower bounds for depth two circuits having symmetric gates with unbounded fan-in. (English summary) **93k:68031**
Kurfess, Franz ★ Parallelism in logic. (English. English summary) **93d:68018**
Kwiatkowska, Marta Z. On topological characterization of behavioural properties. (*see* **93h:68004**)
Le Guernic, Paul *see* **Benveniste, Albert; et al., 93g:68034**
Le Métayer, D. *see* **Giorgi, J.-F., 93j:68057**
Li, Ming[1] (*with* Vitányi, Paul M. B.) Optimality of wait-free atomic multiwriter variables. (English summary) **93h:68044**
Liu, L. Y. *see* **Shyamasundar, R. K.**
Lobo, Jorge *see* **Minker, Jack; et al., 93b:68024**
Mauri, Giancarlo *see* **Bonizzoni, P.; et al., 93h:68042**
Mavronicolas, Marios Efficiency of semi-synchronous versus asynchronous systems: atomic shared memory. (English summary) **93i:68069**
Meseguer, José Conditional rewriting logic as a unified model of concurrency. **93e:68020**
Minker, Jack (*with* Lobo, Jorge; Rajasekar, Arcot) Circumscription and disjunctive logic programming. **93b:68024**
Mislove, Michael W. Algebraic posets, algebraic cpo's and models of concurrency. (*see* **93h:68004**)
Monakhov, O. G. Parallel mapping of parallel program graphs into parallel computers. (English summary) (*see* **93f:00016**)
Monien, Burkhard *see* **Hromkovič, Juraj, 93k:68030**
Montanari, Ugo *see* **Ferrari, Gian Luigi, 93a:68038**
Mukund, Madhavan (*with* Thiagarajan, P. S.) A logical characterization of well branching event structures. **93e:68021**
Muthukrishnan, D. R. *see* **Satyanarayanan, R., 93g:68041**
Nguyen, Thanh Tung A relational model of demonic nondeterministic programs. **93g:68039**
Nieuwland, Eric R. Proving mutual exclusion with process algebra. (*see* **93g:68090**)
Nolte, Doris (*with* Priese, Lutz) Fairness in models with true concurrency. **93a:68040**
— *see also* **Priese, Lutz, 93h:68045**
Parikh, Rohit (*with* Krasucki, Paul) Levels of knowledge in distributed systems. **93g:68040**
Pelagatti, Susanna *see* **Antonelli, Silvano, 93k:68029** *and* **(93f:00016)**
Petreschi, Rossella *see* **De Agostino, Sergio, 93f:68031**
Pighizzini, G. *see* **Bonizzoni, P.; et al., 93h:68042**
Priese, Lutz (*with* Nolte, Doris) Strong fairness and ultra metrics. **93h:68045**
— *see also* **Nolte, Doris, 93a:68040**
Rajasekar, Arcot *see* **Minker, Jack; et al., 93b:68024**
Rem, Martin A personal perspective of the Alpern-Schneider characterization of safety and liveness. **93a:68041**
Rudich, Steven *see* **Edmonds, Jeff; et al., 93g:68035**
Rutten, Jan J. M. M. *see* **de Bakker, J. W., (93h:68004)**
Sabadini, N. *see* **Bonizzoni, P.; et al., 93h:68042**
Satyanarayanan, R. (*with* Muthukrishnan, D. R.) A note on Raymond's tree based algorithm for distributed mutual exclusion. (English summary) **93g:68041**
Sgall, Jiří *see* **Edmonds, Jeff; et al., 93g:68035**
Shyamasundar, R. K. (*with* Liu, L. Y.) Compositional priority specification in real-time distributed systems.
Silva, Manuel *see* **Esparza, Javier, 93a:68037**
Slobodová, Anna Communication for alternating machines. (English summary) **93j:68058**
Smyth, Michael B. Totally bounded spaces and compact ordered spaces as domains of computation. (*see* **93h:68004**)
Sorel, Yves *see* **Benveniste, Albert; et al., 93g:68034**
Sorine, Michel *see* **Benveniste, Albert; et al., 93g:68034**
Stafylopatis, A. *see* **Georgakopoulos, G., 93m:68050**
Thiagarajan, P. S. *see* **Mukund, Madhavan, 93e:68021**
Ustimenko, A. P. (*with* Cherkasova, L. A.) ★ Алгебра параллельных недетерминированных процессов: денотационная и операционная семантики. (Russian) [Algebra of parallel nondeterministic processes: denotational and operational semantics]
Vaandrager, Frits W. Process algebra semantics of POOL. (*see* **93g:68090**)
Vanneschi, M. *see* **Antonelli, Silvano; et al., (93f:00016)**
Vitányi, Paul M. B. *see* **Li, Ming[1], 93h:68044**
Waack, Stephan *see* **Krause, Matthias, 93k:68031**
Warmerdam, J. H. A. *see* **de Bakker, J. W., 93a:68036**
Ziavras, Sotirios G. On the problem of expanding hypercube-based systems. (English summary)

Items with secondary classifications in 68Q10

Akkerman, G. J. (*with* Baeten, J. C. M.) Term rewriting analysis in process algebra. **93f:68054**
Amato, Nancy M. Improved processor bounds for parallel algorithms for weighted directed graphs. (English summary)
Anisimov, N. A. An algebra of regular macronets for formal specification of communication protocols. (Russian summary) **93c:68075**
Arnold, André An extension of the notions of traces and of asynchronous automata. (French summary) **93c:68070**
Baeten, J. C. M. *see* **Akkerman, G. J., 93f:68054** *and* **Applications of process algebra, 93g:68090**
Ben-David, Shai (*with* Chor, Benny; Goldreich, Oded; Luby, Michael) On the theory of average case complexity. **93d:68020**
Bergstra, J. A. (*with* Klop, J. W.) An introduction to process algebra. (*see* **93g:68090**)
Bettayeb, Said *see* **Shen, Xiao Jun; et al., 93k:05054**
Bischof, Christian H. (*with* Pan, Ching-Tsuan; Tang, Ping Tak Peter) A Cholesky up- and downdating algorithm for systolic and SIMD architectures. (English summary)
Boudol, Gérard (*with* Larsen, Kim G.) Graphical versus logical specifications. (English summary) **93i:68127**
Brookes, Stephen (*with* Geva, Shai) Towards a theory of parallel algorithms on concrete data structures. (English summary) **93m:68063**
Cai, Jin-Yi (*with* Condon, Anne; Lipton, Richard J.) On games of incomplete information. **93h:90108**
Camilleri, Juanito A conditional operator for CCS. **93b:68009**
Căzănescu, Virgil Emil (*with* Mihăilă, George Andrei) Partial flowchart schemes. **93a:68019**
Cha, Shin (*with* Chung, In Sang; Kwon, Yong Rae) Complexity measures for concurrent programs based on information-theoretic metrics. (English summary)
Chen, Lin[2] Optimal parallel time bounds for the maximum clique problem on intervals. **93h:68047**
Cherief, Ferroudja Investigations of back and forth bisimulations on prime event structures. (English summary) **93i:68118**
Chor, Benny *see* **Ben-David, Shai; et al., 93d:68020**
Chung, In Sang *see* **Cha, Shin; et al.**
Condon, Anne *see* **Cai, Jin-Yi; et al., 93h:90108**
Cong, Bin *see* **Shen, Xiao Jun; et al., 93k:05054**
Coolsaet, K. (*with* De Meyer, H.; Fack, V.) Optimal algorithms for total exchange without buffering on the hypercube. (English summary) **93g:68004**
Cucker, Felipe The arithmetical hierarchy over the reals. (English summary) **93k:03043**
De Meyer, H. *see* **Coolsaet, K.; et al., 93g:68004**
Devillers, Olivier Randomization yields simple $O(n \log^* n)$ algorithms for difficult $\Omega(n)$ problems. **93d:68067**
Devillers, Raymond Maximality preserving bisimulation. **93i:68129**
Dimitrovici, C. *see* **Grosse-Rhode, M., 93j:68130**
Fack, V. *see* **Coolsaet, K.; et al., 93g:68004**
Fagin, Ronald (*with* Halpern, Joseph Y.; Vardi, Moshe Y.) What can machines know? On the properties of knowledge in distributed systems. **93h:68131**
Fang, Hao *see* **Wang, En Fu; et al.**
Feng, Yu Lin *see* **Zhao, Xu Dong, 93e:68074**
Garg, Vijay Kumar (*with* Ragunath, M. T.) Concurrent regular expressions and their relationship to Petri nets. **93h:68106**
Garzon, Max Graphical words and languages. **93h:68070**
Geva, Shai *see* **Brookes, Stephen, 93m:68063**
Girou, Mike *see* **Shen, Xiao Jun; et al., 93k:05054**
Goldreich, Oded *see* **Ben-David, Shai; et al., 93d:68020**
Gong, Chun *see* **Wing, Jeannette M., 93i:68133**
Grosse-Rhode, M. (*with* Dimitrovici, C.) Algebraic specification of action trees and recursive processes. (English summary) **93j:68130**
Guha, Sumanta Parallel computation of internal and external farthest neighbors in simple polygons. **93f:68094**
Halpern, Joseph Y. *see* **Fagin, Ronald; et al., 93h:68131**
He, Yin Yun *see* **Wang, En Fu; et al.**
Herlihy, Maurice (*with* Lynch, Nancy; Merritt, Michael; Weihl, William) On the correctness of orphan management algorithms. (English summary) **93j:68013**
Holden, Arun V. (*with* Tucker, J. V.; Thompson, B. C.) Excitable media as computational systems. (*see* **93e:00026**)
Hooman, J. J. M. (*with* de Roever, W. P.) An introduction to compositional methods for concurrency and their application to real-time. **93d:68044**
Hu, Qing *see* **Shen, Xiao Jun; et al., 93k:05054**
Huckenbeck, Ulrich A result about the power of geometric oracle machines. **93a:68152**
Inoue, Katsushi (*with* Itō, Akira; Takanami, Itsuo) A relationship between nondeterministic Turing machines and 1-inkdot Turing machines with small space. **93j:68061**
Irani, Sandy (*with* Naor, Moni; Rubinfeld, Ronitt) On the time and space complexity of computation using write-once memory, or Is pen really much worse than pencil? **93a:68044**
Itō, Akira *see* **Inoue, Katsushi; et al., 93j:68061**
Jerebic, Izidor (*with* Trobec, Roman) Optimal routing in toroidal networks. (English summary) **93i:68020**
Kearney, Peter (*with* Staples, John) An extensional fixed-point semantics for nondeterministic data flow. **93a:68083**
Khuller, Samir (*with* Mitchell, Stephen G.; Vazirani, Vijay V.) Processor efficient parallel algorithms for the two disjoint paths problem and for finding a Kuratowski homeomorph. **93c:05106**
Klop, J. W. *see* **Bergstra, J. A., (93g:68090)**
Köbler, Johannes (*with* Schöning, Uwe; Toda, Seinosuke; Torán, Jacobo) Turing machines with few accepting computations and low sets for PP. **93b:68027**
Kossen, L. (*with* Weijland, W. P.) Correctness proofs for systolic algorithms: palindromes and sorting. (*see* **93g:68090**)
Koymans, C. P. J. (*with* Mulder, J. C.) A modular approach to protocol verification using process algebra. (*see* **93g:68090**)
(Kwiatkowska, Marta Z.) *see* **Workshop: Semantics for Concurrency, 93b:68007**
Kwon, Yong Rae *see* **Cha, Shin; et al.**
Larsen, Kim G. (*with* Liu, Xin Xin) Compositionality through an operational semantics of contexts. **93h:68087**
— *see also* **Boudol, Gérard, 93i:68127**
Lipton, Richard J. *see* **Cai, Jin-Yi; et al., 93h:90108**
Liu, Xin Xin *see* **Larsen, Kim G., 93h:68087**
Loui, Michael C. (*with* Luginbuhl, David R.) The complexity of on-line simulations between multidimensional Turing machines and random access machines. **93g:68033**

Luby, Michael *see* **Ben-David, Shai; et al., 93d:68020**
Luccio, Fabrizio (*with* Pietracaprina, Andrea; Pucci, Geppino) Analysis and implementation of parallel uniform hashing. **93k:68022**
Luginbuhl, David R. *see* **Loui, Michael C., 93g:68033**
Lynch, Nancy *see* **Herlihy, Maurice; et al., 93j:68013**
Martí-Oliet, Narciso (*with* Meseguer, José) From Petri nets to linear logic through categories: a survey. **93e:68063**
Mayr, Ernst W. (*with* Subramanian, Ashok) The complexity of circuit value and network stability. **93k:68028**
Mazurkiewicz, Antoni W. (*with* Rabinovich, A.; Trakhtenbrot, B. A.) Connectedness and synchronization. **93e:68065**
McKenzie, Pierre (*with* Péladeau, Pierre; Thérien, Denis) NC^1: the automata-theoretic viewpoint. **93g:68044**
Merritt, Michael *see* **Herlihy, Maurice; et al., 93j:68013**
Meseguer, José *see* **Martí-Oliet, Narciso, 93e:68063**
Miel, George Linear algebraic structures of algorithmic mappings on array processors. (English summary) **93i:68013**
Mihăilă, George Andrei *see* **Căzănescu, Virgil Emil, 93a:68019**
Mitchell, Stephen G. *see* **Khuller, Samir; et al., 93c:05106**
Montanari, Ugo (*with* Rossi, Francesca) True concurrency in concurrent constraint programming. (English summary) **93j:68122**
Mulder, J. C. *see* **Koymans, C. P. J., (93g:68090)**
Muller, David E. (*with* Preparata, Franco P.) Parallel restructuring and evaluation of expressions. **93c:68044**
Murata, Tadao *see* **Silva, Manuel, 93m:68130**
Mycielski, Jan (*with* Niwiński, Damian) Cellular automata on trees, a model for parallel computation. **93g:68045**
Naor, Moni *see* **Irani, Sandy; et al., 93a:68044**
Narayana, K. T. *see* **Shade, Eric, 93i:68124**
Niwiński, Damian *see* **Mycielski, Jan, 93g:68045**
Olariu, Stephan (*with* Schwing, James L.; Zhang, Jingyuan) Optimal parallel encoding and decoding algorithms for trees. **93m:68065**
— (*with* Schwing, James L.; Zhang, Jingyuan) Applications of reconfigurable meshes to constant-time computations. (English summary) **93i:68014**
Pan, Ching-Tsuan *see* **Bischof, Christian H.; et al.**
Panangaden, Prakash (*with* Taylor, Kim) Concurrent common knowledge: defining agreement for asynchronous systems. (English summary) **93j:68123**
— (*with* Shanbhogue, Vasant) The expressive power of indeterminate dataflow primitives. **93f:68014**
Parpucea, Ilie Theoretical support for object-oriented and parallel programming. (Romanian summary)
Péladeau, Pierre *see* **McKenzie, Pierre; et al., 93g:68044**
Pietracaprina, Andrea *see* **Luccio, Fabrizio; et al., 93k:68022**
Preparata, Franco P. *see* **Muller, David E., 93c:68044**
Pucci, Geppino *see* **Luccio, Fabrizio; et al., 93k:68022**
Rabinovich, A. *see* **Mazurkiewicz, Antoni W.; et al., 93e:68065**
Ragunath, M. T. *see* **Garg, Vijay Kumar, 93h:68106**
de Roever, W. P. *see* **Hooman, J. J. M., 93d:68044**
Rossi, Francesca *see* **Montanari, Ugo, 93j:68122**
Rubinfeld, Ronitt *see* **Irani, Sandy; et al., 93a:68044**
Rutten, Jan J. M. M. (*with* Zucker, J. I.) A semantic approach to fairness. **93k:68065**
Schöning, Uwe *see* **Köbler, Johannes; et al., 93b:68027**
Schwabe, Eric J. Constant-slowdown simulations of normal hypercube algorithms on the butterfly network. (English summary) **93m:68021**
Schwer, Sylviane R. Fine covers of a VAS language. **93e:68090**
Schwing, James L. *see* **Olariu, Stephan; et al., 93i:68014** *and* **93m:68065**
Shade, Eric (*with* Narayana, K. T.) Real-time semantics for shared-variable concurrency. (English summary) **93i:68124**
Shanbhogue, Vasant *see* **Panangaden, Prakash, 93f:68014**
Shapiro, Michael David Deterministic and nondeterministic asynchronous automatic structures. (English summary) **93i:68137**
Shen, Xiao Jun (*with* Hu, Qing; Cong, Bin; Sudborough, Ivan Hal; Girou, Mike; Bettayeb, Said) The 4-star graph is not a subgraph of any hypercube. (English summary) **93k:05054**
Shibusawa, Susumu Operations on an interconnection model consisting of hypercube and global bus connections. (English summary) **93j:68056**
Silva, Manuel (*with* Murata, Tadao) B-fairness and structural B-fairness in Petri net models of concurrent systems. **93m:68130**
Staples, John *see* **Kearney, Peter, 93a:68083**
Subramanian, Ashok *see* **Mayr, Ernst W., 93k:68028**
Sudborough, Ivan Hal *see* **Shen, Xiao Jun; et al., 93k:05054**
Takanami, Itsuo *see* **Inoue, Katsushi; et al., 93j:68061**
Tang, Ping Tak Peter *see* **Bischof, Christian H.; et al.**
Tang, Shou Wen *see* **Watanabe, Osamu[2], 93h:68053**
Taylor, Kim *see* **Panangaden, Prakash, 93j:68123**
Tchuente, Maurice ★ Parallel computation on regular arrays. **93h:65181**
Thanh, Hoang Chi Behavioural synchronizations of net systems. (English summary) **93m:68106**
Thérien, Denis *see* **McKenzie, Pierre; et al., 93g:68044**
Thompson, B. C. *see* **Holden, Arun V.; et al., (93e:00026)**
Toda, Seinosuke *see* **Köbler, Johannes; et al., 93b:68027**
Torán, Jacobo *see* **Köbler, Johannes; et al., 93b:68027**
Trakhtenbrot, B. A. *see* **Mazurkiewicz, Antoni W.; et al., 93e:68065**
Trobec, Roman *see* **Jerebic, Izidor, 93i:68020**
Tucker, J. V. *see* **Holden, Arun V.; et al., (93e:00026)**
Vaandrager, Frits W. Two simple protocols. (*see* **93g:68090**)
— Some observations on redundancy in a context. (*see* **93g:68090**)
Vardi, Moshe Y. *see* **Fagin, Ronald; et al., 93h:68131**
Vazirani, Vijay V. *see* **Khuller, Samir; et al., 93c:05106**
Venkateswaran, H. Properties that characterize LOGCFL. **93e:68057**
— Circuit definitions of nondeterministic complexity classes. **93g:68048**
Wang, En Fu (*with* He, Yin Yun; Fang, Hao) Further research on parallel memories without access conflict and cell redundancy. (Chinese. English and Chinese summaries)
Watanabe, Osamu[2] (*with* Tang, Shou Wen) On polynomial-time Turing and many-one completeness in PSPACE. **93h:68053**
Weihl, William *see* **Herlihy, Maurice; et al., 93j:68013**
Weijland, W. P. *see* **Kossen, L., (93g:68090)**
Wing, Jeannette M. (*with* Gong, Chun) Testing and verifying concurrent objects. (English summary) **93i:68133**
Young, Gilbert H. (*with* Zheng, Si-Qing) Average distance between vertices in multiply-twisted hypercubes. **93k:05058**
Zhang, Jingyuan *see* **Olariu, Stephan; et al., 93i:68014** *and* **93m:68065**
Zhao, Xu Dong (*with* Feng, Yu Lin) Automatic and hierarchical verification for concurrent systems. **93e:68074**
Zheng, Si-Qing *see* **Young, Gilbert H., 93k:05058**
Zucker, J. I. *see* **Rutten, Jan J. M. M., 93k:68065**

Items listed otherwise than by author

Applications of process algebra ★ Applications of process algebra. **93g:68090**
Leicester ★ Selected papers of the International BCS-FACS Workshop on Semantics for Concurrency. **93b:68007**
Workshop:
Semantics for Concurrency ★ Selected papers of the International BCS-FACS Workshop on Semantics for Concurrency. **93b:68007**

68Q15 Complexity classes [see also 03D15]

Abrahamson, Karl (*with* Fellows, Michael R.; Langston, Michael A.; Moret, Bernard M. E.) Constructive complexity. **93a:68042**
Allender, Eric (*with* Hemachandra, Lane A.) Lower bounds for the low hierarchy. **93c:68026**
— (*with* Hemachandra, Lane A.; Ogiwara, Mitsunori; Watanabe, Osamu[2]) Relating equivalence and reducibility to sparse sets. **93d:68019**
Babai, László (*with* Fortnow, Lance) Arithmetization: a new method in structural complexity theory. **93c:68027**
— (*with* Fortnow, Lance; Lund, Carsten) Addendum to: "Nondeterministic exponential time has two-prover interactive protocols" [Comput. Complexity **1** (1991), no. 1, 3–40; MR 92h:68031]. **93c:68027**
Balcázar, José L. (*with* Schöning, Uwe) Logarithmic advice classes. **93i:68070**
Bang-Jensen, Jørgen (*with* Hell, Pavol; MacGillivray, Gary) On the complexity of colouring by superdigraphs of bipartite graphs. (English summary) **93m:68051**
Barthélémy, Jean-Pierre (*with* Cohen, Gérard Denis; Lobstein, Antoine-C.) ★ Complexité algorithmique et problèmes de communications. (French) [Algorithmic complexity and communications problems] **93h:68046**
Ben-David, Shai (*with* Chor, Benny; Goldreich, Oded; Luby, Michael) On the theory of average case complexity. **93d:68020**
Blum, Manuel (*with* De Santis, Alfredo; Micali, Silvio; Persiano, Giuseppe) Noninteractive zero-knowledge. **93c:68028**
Bodó, Z. How to add poly-log many numbers in constant depth. (*see* **93m:05002**)
Bruschi, Danilo Strong separations of the polynomial hierarchy with oracles: constructive separations by immune and simple sets. **93i:68071**
Buntrock, Gerhard (*with* Hemachandra, Lane A.; Siefkes, Dirk) Using inductive counting to simulate nondeterministic computation. (English summary) **93m:68052**
Chang, Richard On the structure of bounded queries to arbitrary NP sets. **93f:68032**
Chen, Lin[2] Optimal parallel time bounds for the maximum clique problem on intervals. **93h:68047**
Chor, Benny *see* **Ben-David, Shai; et al., 93d:68020**
Clote, P. A time-space hierarchy between polynomial time and polynomial space. **93d:68021**
Cohen, Gérard Denis *see* **Barthélémy, Jean-Pierre; et al., 93h:68046**
Crescenzi, Pierluigi (*with* Panconesi, Alessandro) Completeness in approximation classes. **93c:68029**
De Santis, Alfredo *see* **Blum, Manuel; et al., 93c:68028**
Downey, Rodney An invitation to structural complexity. **93i:68072**
Du, Ding Zhu Why is an intractable problem intractable? **93f:68033**
Fellows, Michael R. *see* **Abrahamson, Karl; et al., 93a:68042**
Fortnow, Lance (*with* Szegedy, Márió) On the power of two-local random reductions. (English summary) **93k:68032**
— *see also* **Babai, László, 93c:68027**
Ganesan, K. (*with* Homer, Steven) Complete problems and strong polynomial reducibilities. **93f:68034**
Goldreich, Oded (*with* Micali, Silvio; Wigderson, Avi) Proofs that yield nothing but their validity, or All languages in NP have zero-knowledge proof systems. **93b:68025**
— *see also* **Ben-David, Shai; et al., 93d:68020**
Heiman, Rafi (*with* Wigderson, Avi) Randomized vs. deterministic decision tree complexity for read-once Boolean functions. **93j:68059**
— (*with* Newman, Ilan; Wigderson, Avi) On read-once threshold formulae and their randomized decision tree complexity. (English summary) **93k:68033**
Hell, Pavol *see* **Bang-Jensen, Jørgen; et al., 93m:68051**
Hemachandra, Lane A. (*with* Jain, Sanjay[1]) On the limitations of locally robust positive reductions. **93b:68026**
— (*with* Rubinstein, Roy S.) Separating complexity classes with tally oracles. **93a:68043**
— *see also* **Allender, Eric, 93c:68026; 93d:68019** *and* **Buntrock, Gerhard; et al., 93m:68052**
Homer, Steven (*with* Selman, Alan L.) Oracles for structural properties: the isomorphism problem and public-key cryptography. **93j:68060**
— *see also* **Ganesan, K., 93f:68034**
Hromkovič, Juraj (*with* Lozhkin, S. A.; Rybko, A. I.; Sapozhenko, A. A.; Shkalikova, N. A.) Lower bounds on the area complexity of Boolean circuits. **93g:68042**
Huỳnh, Dũng T. The complexity of deciding code and monoid properties for regular sets. **93g:68043**

Inoue, Katsushi (*with* Itō, Akira; Takanami, Itsuo) A relationship between nondeterministic Turing machines and 1-inkdot Turing machines with small space. **93j:68061**
Irani, Sandy (*with* Naor, Moni; Rubinfeld, Ronitt) On the time and space complexity of computation using write-once memory, or Is pen really much worse than pencil? **93a:68044**
Itō, Akira *see* **Inoue, Katsushi; et al., 93j:68061**
Jain, Sanjay[1] *see* **Hemachandra, Lane A., 93b:68026**
Köbler, Johannes (*with* Schöning, Uwe; Toda, Seinosuke; Torán, Jacobo) Turing machines with few accepting computations and low sets for PP. **93b:68027**
Krause, Matthias (*with* Meinel, Christoph; Waack, Stephan) Separating complexity classes related to certain input oblivious logarithmic space-bounded Turing machines. (French summary) **93e:68022**
— Separating ⊕L from L, NL, co-NL, and AL = P for oblivious Turing machines of linear access. (English and French summaries) **93k:68034**
Krentel, Mark W. Generalizations of Opt P to the polynomial hierarchy. **93i:68073**
Lam, Tak-Wah (*with* Ruzzo, Walter L.) Results on communication complexity classes. **93c:68030**
Lange, Klaus-Jörn Unambiguity of circuits. (English summary) **93k:68035**
Langston, Michael A. *see* **Abrahamson, Karl; et al., 93a:68042**
Laxmi Prasanna, C. (*with* Vinay, V.) Improved space and time hierarchy theorems. (*see* **93b:68006**)
Lindell, Steven The invariant problem for binary string structures and the parallel complexity theory of queries. **93h:68048**
Liśkiewicz, Maciej On the relationship between deterministic time and deterministic reversal. (English summary) **93m:68053**
Lobstein, Antoine-C. *see* **Barthélémy, Jean-Pierre; et al., 93h:68046**
Lozhkin, S. A. *see* **Hromkovič, Juraj; et al., 93g:68042**
Luby, Michael *see* **Ben-David, Shai; et al., 93d:68020**
Lund, Carsten *see* **Babai, László; et al.**
Lutz, Jack H. Almost everywhere high nonuniform complexity. **93c:68031**
— (*with* Schmidt, William J.) Circuit size relative to pseudorandom oracles. (English summary) **93k:68036**
Maass, Wolfgang (*with* Slaman, Theodore A.) The complexity types of computable sets. **93h:68049**
MacGillivray, Gary *see* **Bang-Jensen, Jørgen; et al., 93m:68051**
Mansour, Yishay (*with* Nisan, Noam; Tiwari, Prasoon) The computational complexity of universal hashing. (English summary) **93k:68037**
McKenzie, Pierre (*with* Péladeau, Pierre; Thérien, Denis) NC^1: the automata-theoretic viewpoint. **93g:68044**
Meinel, Christoph *see* **Krause, Matthias; et al., 93e:68022**
Micali, Silvio *see* **Goldreich, Oded; et al., 93b:68025** *and* **Blum, Manuel; et al., 93c:68028**
Michel, Pascal A survey of space complexity. (English summary) **93h:68050**
(Minoux, Michel) *see* **Barthélémy, Jean-Pierre; et al., 93h:68046**
Mirwald, R. (*with* Schnorr, C.-P.) The multiplicative complexity of quadratic Boolean forms. **93h:68051**
Moret, Bernard M. E. *see* **Abrahamson, Karl; et al., 93a:68042**
Müller, Haiko A note on balanced immunity. (English summary) **93i:68074**
Mycielski, Jan (*with* Niwiński, Damian) Cellular automata on trees, a model for parallel computation. **93g:68045**
Naor, Moni *see* **Irani, Sandy; et al., 93a:68044**
Newman, Ilan *see* **Heiman, Rafi; et al., 93k:68033**
Nisan, Noam ★ Using hard problems to create pseudorandom generators. **93c:68032**
— On read-once vs. multiple access to randomness in logspace. (English summary) **93i:68075**
— *see also* **Mansour, Yishay; et al., 93k:68037**
Niwiński, Damian *see* **Mycielski, Jan, 93g:68045**
Ogiwara, Mitsunori *see* **Allender, Eric; et al., 93d:68019** *and* **Toda, Seinosuke, 93h:68052**
Panconesi, Alessandro (*with* Ranjan, Desh) Quantifiers and approximation. (English summary) **93k:68038**
— *see also* **Crescenzi, Pierluigi, 93c:68029**
Péladeau, Pierre *see* **McKenzie, Pierre; et al., 93g:68044**
Persiano, Giuseppe *see* **Blum, Manuel; et al., 93c:68028**
Pudlák, Pavel (*with* Rödl, Vojtěch) A combinatorial approach to complexity. (English summary) **93m:68054**
Radhakrishnan, Jaikumar Better bounds for threshold formulas. (English summary) (*see* **93d:68005**)
Ranjan, Desh *see* **Panconesi, Alessandro, 93k:68038**
Raz, Ran (*with* Wigderson, Avi) Monotone circuits for matching require linear depth. (English summary) **93m:68055**
Regan, Kenneth W. Diagonalization, uniformity, and fixed-point theorems. **93g:68046**
Rödl, Vojtěch *see* **Pudlák, Pavel, 93m:68054**
Rubinfeld, Ronitt *see* **Irani, Sandy; et al., 93a:68044**
Rubinstein, Roy S. Self-P-printability and polynomial time Turing equivalence to a tally set. **93a:68045**
— *see also* **Hemachandra, Lane A., 93a:68043**
Ruzzo, Walter L. *see* **Lam, Tak-Wah, 93c:68030**
Rybko, A. I. *see* **Hromkovič, Juraj; et al., 93g:68042**
Sapozhenko, A. A. *see* **Hromkovič, Juraj; et al., 93g:68042**
Schmidt, William J. *see* **Lutz, Jack H., 93k:68036**
Schnorr, C.-P. *see* **Mirwald, R., 93h:68051**
Schöning, Uwe *see* **Köbler, Johannes; et al., 93b:68027** *and* **Balcázar, José L., 93i:68070**
Seese, Detlef Interpretability and tree automata: a simple way to solve algorithmic problems on graphs closely related to trees. **93j:68062**
Selman, Alan L. A survey of one-way functions in complexity theory. **93a:68046**
— *see also* **Homer, Steven, 93j:68060** *and* **Structure in complexity theory, 93g:68050**
Shkalikova, N. A. *see* **Hromkovič, Juraj; et al., 93g:68042**
Siefkes, Dirk *see* **Buntrock, Gerhard; et al., 93m:68052**
Slaman, Theodore A. *see* **Maass, Wolfgang, 93h:68049**
Slobodová, Anna Some properties of space-bounded synchronized alternating Turing machines with universal states only. **93g:68047**
Stewart, Iain A. Complete problems for symmetric logspace involving free groups. **93e:68023**
— Complete problems involving Boolean labelled structures and projection transactions. **93b:68028**
— Refining known results on the generalized word problem for free groups. (English summary) **93m:68056**
Szegedy, Márió *see* **Fortnow, Lance, 93k:68032**
Takanami, Itsuo *see* **Inoue, Katsushi; et al., 93j:68061**
Tang, Shou Wen *see* **Watanabe, Osamu[2], 93h:68053**
Thérien, Denis *see* **McKenzie, Pierre; et al., 93g:68044**
Tiwari, Prasoon *see* **Mansour, Yishay; et al., 93k:68037**
Toda, Seinosuke PP is as hard as the polynomial-time hierarchy. **93a:68047**
— (*with* Ogiwara, Mitsunori) Counting classes are at least as hard as the polynomial-time hierarchy. **93h:68052**
— Restricted relativizations of probabilistic polynomial time. **93k:68039**
— (*with* Watanabe, Osamu[2]) Polynomial-time 1-Turing reductions from #PH to #P. **93m:68057**
— *see also* **Köbler, Johannes; et al., 93b:68027** *and* **Watanabe, Osamu[2], 93m:68058**
Torán, Jacobo *see* **Köbler, Johannes; et al., 93b:68027**
Venkateswaran, H. Circuit definitions of nondeterministic complexity classes. **93g:68048**
Vinay, V. *see* **Laxmi Prasanna, C., (93b:68006)**
Waack, Stephan *see* **Krause, Matthias; et al., 93e:68022**
Wang, Jie[1] Polynomial time productivity, approximations, and levelability. (English summary) **93j:68063**
Watanabe, Osamu[2] On polynomial time one-truth-table reducibility to a sparse set. **93g:68049**
— (*with* Tang, Shou Wen) On polynomial-time Turing and many-one completeness in PSPACE. **93h:68053**
— (*with* Toda, Seinosuke) Structural analysis of the complexity of inverse functions. (English summary) **93m:68058**
— *see also* **Allender, Eric; et al., 93d:68019** *and* **Toda, Seinosuke, 93m:68057**
Wigderson, Avi Information-theoretic reasons for computational difficulty. **93m:68059**
— *see also* **Goldreich, Oded; et al., 93b:68025; Heiman, Rafi, 93j:68059; 93k:68033** *and* **Raz, Ran, 93m:68055**
Yamakami, Tomoyuki Structural properties for feasibly computable classes of type two. **93c:68033**

Items listed otherwise than by author

Barcelona ★ Structure in complexity theory. **93g:68050**
IEEE Conference:
Structure in Complexity Theory ★ Structure in complexity theory. **93g:68050**
Structure in complexity theory ★ Structure in complexity theory. **93g:68050**

Items with secondary classifications in 68Q15

Abiteboul, Serge (*with* Vianu, Victor) Expressive power of query languages. **93g:68021**
Agrawal, Manindra (*with* Biswas, Somenath) On the complexity of a problem related to union of sets in NP. **93m:03066**
Aoki, Kunimasa (*with* Shinoda, Juichi; Tsuda, Teruko) Strong minimal pair theorem for the honest polynomial degrees of Δ_2^0 low sets. **93e:03059**
Babai, László (*with* Nisan, Noam; Szegedy, Márió) Multiparty protocols, pseudorandom generators for logspace, and time-space trade-offs. (English summary) **93m:68048**
— Bounded round interactive proofs in finite groups. **93c:68023**
Beigel, Richard (*with* Bellare, Mihir; Feigenbaum, Joan; Goldwasser, Shafi) Languages that are easier than their proofs. (English summary) (*see* **93d:68005**)
Bellare, Mihir *see* **Beigel, Richard; et al., (93d:68005)**
Biswas, Somenath *see* **Agrawal, Manindra, 93m:03066**
Blaha, Kenneth D. Minimum bases for permutation groups: the greedy approximation. **93d:20008**
Bugata, Peter Trahtenbrot-Zykov problem and NP-completeness. (English summary) **93i:05105**
Bui, Thang Nguyen (*with* Jones, Curt) Finding good approximate vertex and edge partitions is NP-hard. **93h:68111**
Bylander, Tom Complexity results for serial decomposability. (English summary) **93k:68042**
Clote, P. (*with* Takeuti, Gaisi) Bounded arithmetic for NC, ALogTIME, L and NL. **93f:03027**
Conforti, Michele (*with* Rao, M. R.) Properties of balanced and perfect matrices. **93g:90063**
Cook, Stephen A. Computational complexity of higher type functions. **93e:03067**
Crochemore, M. *see* **Néraud, J., 93d:68026**
Crossley, John N. (*with* Remmel, Jeffrey B.) Cancellation laws for polynomial-time p-isolated sets. **93g:03041**
Cucker, Felipe (*with* Montaña, Jose L.; Pardo, Luis M.) Time bounded computations over the reals. **93m:03067**
— $P_{\mathbb{R}} \neq NC_{\mathbb{R}}$. (English summary) **93m:03068**
Dahlhaus, Elias (*with* Karpiński, Marek) Perfect matching for regular graphs is AC^0-hard for the general matching problem. **93g:05113**
Dong, Guozhu On datalog linearization of chain queries. **93h:68032**
Eder, Elmar ★ Relative complexities of first order calculi. **93f:03007**
Feder, Tomás A new fixed point approach for stable networks and stable marriages. (English summary) **93j:68154**
Feigenbaum, Joan Overview of interactive proof systems and zero-knowledge. (English summary) (*see* **93k:94009**)
— *see also* **Beigel, Richard; et al., (93d:68005)**
Girard, Jean-Yves (*with* Scedrov, Andre; Scott, Philip J.) Bounded linear logic: a modular approach to polynomial-time computability. **93e:03055**
Goerdt, Andreas Characterizing complexity classes by higher type primitive recursive definitions. **93i:03042**
Goldwasser, Shafi *see* **Beigel, Richard; et al., (93d:68005)**

Grädel, Erich Capturing complexity classes by fragments of second-order logic. (English summary) **93i:03056**
Gritzmann, Peter (*with* Klee, Victor) Deciding uniqueness in norm maximization. (English summary) **93i:90068**
Haddad, Lucien (*with* Rödl, Vojtěch) On the complexity of coloring areflexive relations. (English summary) **93h:68113**
Hunt, H. B., III *see* **Rosenkrantz, Daniel J., 93j:68113**
Huỳnh, Dũng T. Nonuniform complexity and the randomness of certain complete languages. **93h:68071**
Ibarra, Oscar H. *see* **Jiang, Tao[1]; et al., 93b:68022**
Inoue, Katsushi (*with* Itō, Akira; Takanami, Itsuo) Alternating Turing machines with modified accepting structure. **93g:68032**
Itō, Akira *see* **Inoue, Katsushi; et al., 93g:68032**
Jiang, Tao[1] (*with* Ibarra, Oscar H.; Wang, Hui; Zheng, Qi) A hierarchy result for 2-dimensional TMs operating in small space. **93b:68022**
Jones, Curt *see* **Bui, Thang Nguyen, 93h:68111**
Jones, James P. Computational complexity of computing winning strategies in polynomial games. (Chinese summary) **93a:03039**
Kalyanasundaram, Bala (*with* Schnitger, Georg) Communication complexity and lower bounds for sequential computation. (English summary) **93m:68049**
Karpiński, Marek *see* **Dahlhaus, Elias, 93g:05113**
Klee, Victor *see* **Gritzmann, Peter, 93i:90068**
Ko, Ker-I ★ Complexity theory of real functions. **93i:03057**
Krajíček, Jan Fragments of bounded arithmetic and bounded query classes. **93j:03027**
Krause, Matthias (*with* Waack, Stephan) Variation ranks of communication matrices and lower bounds for depth two circuits having symmetric gates with unbounded fan-in. (English summary) **93k:68031**
Loui, Michael C. (*with* Luginbuhl, David R.) Optimal on-line simulations of tree machines by random access machines. (English summary) **93i:68068**
Lovász, László The work of A. A. Razborov. **93e:01012**
Luckhardt, H. Complexity versus the Church-Rosser property and confluence. **93e:03020**
Luginbuhl, David R. *see* **Loui, Michael C., 93i:68068**
Luo, Li Bo Functions and functionals on finite systems. **93b:03065**
Machta, Jonathan The computational complexity of pattern formation. (English summary) **93m:82044**
Manber, Udi *see* **Wu, Sun, 93g:05131**
Masuyama, Shigeru (*with* Naito, Shozo) Deciding whether graph G has page number one is in NC. (English summary)
Mayr, Ernst W. (*with* Subramanian, Ashok) The complexity of circuit value and network stability. **93k:68028**
McColm, Gregory L. Eventual periodicity and "one-dimensional" queries. **93h:03039**
Montaña, Jose L. *see* **Cucker, Felipe; et al., 93m:03067**
Murata, Tadao *see* **Silva, Manuel, 93m:68130**
Naito, Shozo *see* **Masuyama, Shigeru**
Néraud, J. (*with* Crochemore, M.) A string-matching interpretation of the equation $x^m y^n = z^p$. **93d:68026**
Nisan, Noam *see* **Babai, László; et al., 93m:68048**
Nishino, Tetsuro Algebraic structure of the group of polynomial-time permutations. **93a:03041**
Papadimitriou, Christos H. On inefficient proofs of existence and complexity classes. (English summary) (*see* **93i:05004**)
Pardo, Luis M. *see* **Cucker, Felipe; et al., 93m:03067**
Parshina, N. A. The satisfiability problem: some polynomial CNF classes. (Russian. English and Ukrainian summaries) **93j:03023**
Péladeau, Pierre Formulas, numerical predicates and recognizable languages. **93b:68059**
Pudlák, Pavel (*with* Vavřín, Zdeněk) Computation of rigidity of order n^2/r for one simple matrix. **93b:15001**
Rao, M. R. *see* **Conforti, Michele, 93g:90063**
(Razborov, A. A.) *see* **Lovász, László, 93e:01012**
Remmel, Jeffrey B. *see* **Crossley, John N., 93g:03041**
Renegar, James Recent progress on the complexity of the decision problem for the reals. **93c:03055**
— On the computational complexity and geometry of the first-order theory of the reals. I. Introduction. Preliminaries. The geometry of semi-algebraic sets. The decision problem for the existential theory of the reals. **93h:03011a**
— On the computational complexity and geometry of the first-order theory of the reals. II. The general decision problem. Preliminaries for quantifier elimination. **93h:03011b**
— On the computational complexity and geometry of the first-order theory of the reals. III. Quantifier elimination. **93h:03011c**
Rödl, Vojtěch *see* **Haddad, Lucien, 93h:68113**
Rosenkrantz, Daniel J. (*with* Hunt, H. B., III) The complexity of structural containment and equivalence. **93j:68113**
Scedrov, Andre *see* **Girard, Jean-Yves; et al., 93e:03055**
Schnitger, Georg *see* **Kalyanasundaram, Bala, 93m:68049**
Schoenmakers, Berry ★ Data structures and amortized complexity in a functional setting. (English. Dutch summary) **93i:68035**
Scott, Philip J. *see* **Girard, Jean-Yves; et al., 93e:03055**
Shinoda, Juichi *see* **Aoki, Kunimasa; et al., 93e:03059**
Shore, Richard A. (*with* Slaman, Theodore A.) The p-T-degrees of the recursive sets: lattice embeddings, extensions of embeddings and the two-quantifier theory. **93e:03061**
Shoudai, Takayoshi A P-complete language describable with iterated shuffle. **93i:68110**
Silva, Manuel (*with* Murata, Tadao) B-fairness and structural B-fairness in Petri net models of concurrent systems. **93m:68130**
Slaman, Theodore A. *see* **Shore, Richard A., 93e:03061**
Slobodová, Anna Communication for alternating machines. (English summary) **93j:68058**
Stewart, Iain A. Comparing the expressibility of languages formed using NP-complete operators. **93d:03045**
Subramanian, Ashok *see* **Mayr, Ernst W., 93k:68028**
Sui, Yue Fei The polynomially exponential time restrained analytical hierarchy. **93b:03066**
— Classification of the index sets of low $[n]^p$ and high $[n]^p$. **93i:03058**
Szegedy, Márió *see* **Babai, László; et al., 93m:68048**
Szwast, Wiesław On Horn spectra. **93b:03067**
Takanami, Itsuo *see* **Inoue, Katsushi; et al., 93g:68032**
Takeuti, Gaisi *see* **Clote, P., 93f:03027**
Tsuda, Teruko *see* **Aoki, Kunimasa; et al., 93e:03059**
Vavřín, Zdeněk *see* **Pudlák, Pavel, 93b:15001**
Verbitskiĭ, O. V. Optimal algorithms for co-NP sets and the problem EXP $\stackrel{?}{=}$ NEXP. (Russian) **93c:03056**
Vianu, Victor *see* **Abiteboul, Serge, 93g:68021**
Waack, Stephan *see* **Krause, Matthias, 93k:68031**
Wang, Hui *see* **Jiang, Tao[1]; et al., 93b:68022**
Weihrauch, Klaus On the complexity of online computations of real functions. **93a:03042**
Wu, Sun (*with* Manber, Udi) Path-matching problems. **93g:05131**
Zheng, Qi *see* **Jiang, Tao[1]; et al., 93b:68022**
Zheng, Xi Zhong The P = ?NP problem and polynomial time degrees. (Chinese. English summary) **93c:03057**

68Q20 Nonnumerical algorithms {For numerical algorithms, see 65–XX; for combinatorics and graph theory, see 68Rxx.}

Beame, Paul (*with* Brisson, Erik; Ladner, Richard) The complexity of computing symmetric functions using threshold circuits. **93e:68024**
Brisson, Erik *see* **Beame, Paul; et al., 93e:68024**
Camerini, P. M. (*with* Galbiati, G.; Maffioli, F.) Random pseudo-polynomial algorithms for exact matroid problems. **93c:68034**
Clausen, Michael Almost all Boolean functions have no linear symmetries. **93d:68022**
Crochemore, M. *see* **Néraud, J., 93d:68026**
Diekert, Volker Some mathematical aspects of trace theory. (English summary) **93f:68035**
Dubiner, Moshe (*with* Galil, Zvi; Magen, Edith) Faster tree pattern matching. **93a:68048**
Gabrani, Naveen (*with* Shankar, Priti) A note on the reconstruction of a binary tree from its traversals.
Galbiati, G. *see* **Camerini, P. M.; et al., 93c:68034**
Galil, Zvi (*with* Giancarlo, Raffaele) On the exact complexity of string matching: lower bounds. **93a:68049**
— (*with* Giancarlo, Raffaele) On the exact complexity of string matching: upper bounds. **93g:68051**
— *see also* **Dubiner, Moshe; et al., 93a:68048**
Giancarlo, Raffaele *see* **Galil, Zvi, 93a:68049** *and* **93g:68051**
Goldmann, Mikael *see* **Håstad, Johan, 93e:68025**
Goldreich, Oded (*with* Krawczyk, Hugo) Sparse pseudorandom distributions. **93b:68029**
Gries, David Binary to decimal, one more time. **93c:68036**
Harel, David Hamiltonian paths in infinite graphs. (English summary) **93d:68023**
Håstad, Johan (*with* Goldmann, Mikael) On the power of small-depth threshold circuits. **93e:68025**
Hirsch, Michael D. Lower bounds for the nonlinear complexity of algebraic computation trees with integer inputs. **93e:68026**
Kamakoti, V. (*with* Pandu Rangan, C.) An optimal algorithm for reconstructing a binary tree.
Knuth, Donald E. A simple program whose proof isn't. **93c:68035**
Krawczyk, Hugo *see* **Goldreich, Oded, 93b:68029**
Ladner, Richard *see* **Beame, Paul; et al., 93e:68024**
Lee, Der Tsai *see* **Lou, R. D.; et al., 93d:68024**
Lou, R. D. (*with* Sarrafzadeh, Majid; Lee, Der Tsai) An optimal algorithm for the maximum two-chain problem. **93d:68024**
Maffioli, F. *see* **Camerini, P. M.; et al., 93c:68034**
Magen, Edith *see* **Dubiner, Moshe; et al., 93a:68048**
Monfroglio, Angelo Integer programs for logic constraint satisfaction. **93d:68025**
Néraud, J. (*with* Crochemore, M.) A string-matching interpretation of the equation $x^m y^n = z^p$. **93d:68026**
Pandu Rangan, C. *see* **Kamakoti, V.**
Papadimitriou, Christos H. (*with* Yannakakis, Mihalis) Optimization, approximation, and complexity classes. **93e:68027**
Salomaa, Arto A deterministic algorithm for modular knapsack problems. **93a:68050**
Sarrafzadeh, Majid *see* **Lou, R. D.; et al., 93d:68024**
Shankar, Priti *see* **Gabrani, Naveen**
Strzemecki, Tadeusz Polynomial-time algorithms for generation of prime implicants. **93c:68028**
Tarhio, Jorma (*with* Ukkonen, Esko) Approximate Boyer-Moore string matching. (English summary) **93m:68060**
Ukkonen, Esko *see* **Tarhio, Jorma, 93m:68060**
Yannakakis, Mihalis *see* **Papadimitriou, Christos H., 93e:68027**

Items with secondary classifications in 68Q20

Agarwal, Pankaj K. Geometric partitioning and its applications. **93a:52012**
— Ray shooting and other applications of spanning trees with low stabbing number. **93f:68091**
Albacea, Eliezer A. A parallel algorithm for edge-coloring of graphs with edge-disjoint cycles. (English summary) **93i:68076**
Atallah, Mikhail J. *see* **Manning, Joseph, 93m:68172**
Azar, Yossi (*with* Naor, Joseph; Rom, Raphael) The competitiveness of on-line assignments. (*see* **93b:68005**)
Balas, Egon (*with* Xue, Jue) Addendum: "Minimum weighted coloring of triangulated graphs, with application to maximum weight vertex packing and clique finding in arbitrary graphs" [SIAM J. Comput. **20** (1991), no. 2, 209–221; MR 92h:68069]. **93g:68104**
Benninger, Daniel (*with* Schmid, Jürg) Effective subdirect decomposition: a case study. **93h:08002**
Bhattacharya, Prabir *see* **Suraweera, Francis**
Blaha, Kenneth D. Minimum bases for permutation groups: the greedy approximation. **93d:20008**

Bui, Thang Nguyen (*with* Peck, Andrew) Partitioning planar graphs. **93a:05117**
Canfield, E. Rodney *see* **King, R. B., 93g:12003**
Chrobak, Marek (*with* Larmore, Lawrence L.) Generosity helps, or an 11-competitive algorithm for three servers. (*see* **93b:68005**)
Colbourn, Charles J. (*with* Stinson, Douglas R.; Teirlinck, Luc) A parallelization of Miller's $n^{\log n}$ isomorphism technique. **93f:68037**
Cooperman, Gene (*with* Finkelstein, Larry) A strong generating test and short presentations for permutation groups. **93d:68037**
Cosnard, Michel (*with* Ferreira, Afonso G.) Designing parallel nonnumerical algorithms. (English summary) (*see* **93f:00016**)
Ferreira, Afonso G. *see* **Cosnard, Michel, (93f:00016)**
Finkelstein, Larry *see* **Cooperman, Gene, 93d:68037**
Frieze, A. M. (*with* Suen, Stephen) Counting the number of Hamilton cycles in random digraphs. **93f:05088**
Fukuda, Komei (*with* Matsui, Tomomi) Finding all minimum-cost perfect matchings in bipartite graphs. **93c:05104**
Fülöp, Zoltán Decidability questions in monoids generated by tree transformation classes. (Hungarian. English and Hungarian summaries) **93g:68094**
Gatterdam, R. W. Algorithms for splicing systems. **93f:92017**
Ghosh, Ratan K. *see* **Rajan, Vijayan; et al., (93b:68006)**
Ghosh, Subir Kumar (*with* Maheshwari, Anil; Pal, Sudebkumar Prasant; Saluja, Sanjeev; Veni Madhavan, C. E.) Computing the shortest path tree in a weak visibility polygon. (English summary) **93f:68093**
Goddard, Wayne D. (*with* Kenyon, Claire; King, Valerie; Schulman, Leonard J.) Optimal randomized algorithms for local sorting and set-maxima. (English summary) **93j:68043**
Gupta, Phalguni *see* **Rajan, Vijayan; et al., (93b:68006)**
Halldórsson, Magnús M. (*with* Szegedy, Mário) Lower bounds for on-line graph coloring. (*see* **93b:68005**)
Hsieh, Hsien Fen *see* **Hsu, Su Chu; et al., 93b:68070**
Hsü, Li Hsing (*with* Wang, Peng Fei; Wu, Chu Tao) Parallel algorithms for finding the most vital edge with respect to minimum spanning tree. (English summary) **93j:68158**
Hsu, Su Chu (*with* Hsieh, Hsien Fen; Huang, Shing Tsaan) A fully-pipelined systolic algorithm for finding bridges on an undirected connected graph. **93b:68070**
Huang, Shing Tsaan *see* **Hsu, Su Chu; et al., 93b:68070**
Hutton, Michael D. (*with* Lubiw, Anna) Upward planar drawing of single source acyclic digraphs. (English summary) (*see* **93m:05005**)
Kaldewaij, Anne ★ Programming. **93a:68001**
Kapoor, Sanjiv (*with* Ramesh, H.) Algorithms for generating all spanning trees of undirected, directed and weighted graphs. (English summary) (*see* **93b:68006**)
Kaufmann, Michael (*with* Klär, Gerhard) Routing in polygons without rectilinearly visible corners. (English summary) **93m:68014**
Kenyon, Claire *see* **Goddard, Wayne D.; et al., 93j:68043**
King, R. B. (*with* Canfield, E. Rodney) Icosahedral symmetry and the quintic equation. **93g:12003**
King, Valerie *see* **Goddard, Wayne D.; et al., 93j:68043**
Klär, Gerhard *see* **Kaufmann, Michael, 93m:68014**
Kumar, P. Sreenivasa *see* **Veeraraghavulu, N. Ch.; et al., 93d:05146**
Kundu, Sukhamay A new variant of the A^*-algorithm which closes a node at most once. **93a:68119**
Larmore, Lawrence L. *see* **Chrobak, Marek, (93b:68005)**
Läuchli, Peter ★ Algorithmische Graphentheorie. (German) [Algorithmic graph theory] **93m:05186**
Lee, R. C. T. *see* **Liou, W. T.; et al., 93e:68132**
Liou, W. T. (*with* T'ang, Ch'uan I; Lee, R. C. T.) Covering convex rectilinear polygons in linear time. **93e:68132**
Lovász, László Geometric algorithms and algorithmic geometry. **93e:52030**
Lubiw, Anna *see* **Hutton, Michael D., (93m:05005)**
Maheshwari, Anil *see* **Ghosh, Subir Kumar; et al., 93f:68093**
Manning, Joseph (*with* Atallah, Mikhail J.) Fast detection and display of symmetry in outerplanar graphs. (English summary) **93m:68172**
Matsui, Tomomi *see* **Fukuda, Komei, 93c:05104**
Naor, Joseph *see* **Azar, Yossi; et al., (93b:68005)**
Pal, Sudebkumar Prasant *see* **Ghosh, Subir Kumar; et al., 93f:68093**
Peck, Andrew *see* **Bui, Thang Nguyen, 93a:05117**
Plesník, Ján Worst-case relative performances of heuristics for the Steiner problem in graphs. **93c:05040**
Rajan, Vijayan (*with* Gupta, Phalguni; Ghosh, Ratan K.) Parallel generation of combinations and permutations. (English summary) (*see* **93b:68006**)
Ramesh, H. *see* **Kapoor, Sanjiv, (93b:68006)**
Rom, Raphael *see* **Azar, Yossi; et al., (93b:68005)**
Rüb, Christine Line-segment intersection reporting in parallel. **93i:68182**
Saluja, Sanjeev *see* **Ghosh, Subir Kumar; et al., 93f:68093**
Saran, Huzur (*with* Vazirani, Vijay V.) Finding k-cuts within twice the optimal. (English summary) **93e:05097**
Schmid, Jürg *see* **Benninger, Daniel, 93h:08002**
Schulman, Leonard J. *see* **Goddard, Wayne D.; et al., 93j:68043**
Shokrollahi, Mohammad Amin On the rank of certain finite fields. **93e:11149**
Shoudai, Takayoshi A P-complete language describable with iterated shuffle. **93i:68110**
Simonson, Shai (*with* Sudborough, Ivan Hal) On the complexity of tree embedding problems.
Stinson, Douglas R. *see* **Colbourn, Charles J.; et al., 93f:68037**
Sudborough, Ivan Hal *see* **Simonson, Shai**
Suen, Stephen *see* **Frieze, A. M., 93f:05088**
Suraweera, Francis (*with* Bhattacharya, Prabir) An $O(\log m)$ parallel algorithm for the minimum spanning tree problem. (English summary)
Szegedy, Mário *see* **Halldórsson, Magnús M., (93b:68005)**
T'ang, Ch'uan I *see* **Liou, W. T.; et al., 93e:68132**
Teirlinck, Luc *see* **Colbourn, Charles J.; et al., 93f:68037**
Vazirani, Vijay V. *see* **Saran, Huzur, 93e:05097**
Veeraraghavulu, N. Ch. (*with* Kumar, P. Sreenivasa; Veni Madhavan, C. E.) A linear-time algorithm for isomorphism of a subclass of chordal graphs. (English summary) **93d:05146**
Veni Madhavan, C. E. *see* **Veeraraghavulu, N. Ch.; et al., 93d:05146** *and* **Ghosh, Subir Kumar; et al., 93f:68093**
Vishwanathan, Sundar Randomized online graph coloring. (English summary) **93k:68080**
Wang, Peng Fei *see* **Hsü, Li Hsing; et al., 93j:68158**
Whaley, Tom Alternative developments of cyclic-permutation algorithms. **93b:05007**
Wu, Chu Tao *see* **Hsü, Li Hsing; et al., 93j:68158**
Xue, Jue *see* **Balas, Egon, 93g:68104**
Yannakakis, Mihalis On the approximation of maximum satisfiability. (*see* **93b:68005**)

68Q22 Parallel and distributed algorithms {For numerical algorithms, see 65Y05, 68Y10.}

Abello, James *see* **Lu, Mi; et al., 93i:68080**
Adamson, P. (*with* Tick, E.) Greedy partitioned algorithms for the shortest-path problem. (English summary)
Afek, Yehuda (*with* Ricklin, Moty) Sparser: a paradigm for running distributed algorithms. (English summary)
Akl, Selim G. *see* **Osiakwan, Constantine N. K., 93a:68052**
Albacea, Eliezer A. A parallel algorithm for edge-coloring of graphs with edge-disjoint cycles. (English summary) **93i:68076**
Amato, Nancy M. Improved processor bounds for parallel algorithms for weighted directed graphs. (English summary)
Apostolico, Alberto Efficient CRCW-PRAM algorithms for universal substring searching. (English summary) **93m:68061**
Atallah, Mikhail J. (*with* Tsay, Jyh Jong) On the parallel-decomposability of geometric problems. (English summary) **93i:68077**
— A faster parallel algorithm for a matrix searching problem. (English summary) **93m:68062**
Bar-Noy, Amotz (*with* Dolev, Danny; Dwork, Cynthia; Strong, H. Raymond) Shifting gears: changing algorithms on the fly to expedite Byzantine agreement. **93f:68036**
Bhattacharya, Prabir *see* **Suraweera, Francis**
Breslauer, Dany (*with* Galil, Zvi) A lower bound for parallel string matching. (English summary) **93j:68064**
Brookes, Stephen (*with* Geva, Shai) Towards a theory of parallel algorithms on concrete data structures. (English summary) **93m:68063**
Burkitt, A. N. *see* **Heermann, D. W., 93b:68030**
Calkin, Neil J. (*with* Frieze, A. M.; Kučera, L.) On the expected performance of a parallel algorithm for finding maximal independent subsets of a random graph. **93d:68027**
Chen, Rong Jaye *see* **Wu, Jer Shyan, 93k:68041**
Chen, Zhi Zhong[2] A fast and efficient parallel algorithm for finding a satisfying truth assignment to a 2-CNF formula. (English summary) **93h:68054**
Colbourn, Charles J. (*with* Stinson, Douglas R.; Teirlinck, Luc) A parallelization of Miller's $n^{\log n}$ isomorphism technique. **93f:68037**
Daniels, Charles J. *see* **Mahanti, Ambuj**
Delcher, Arthur L. (*with* Kasif, Simon) Efficient parallel term matching and anti-unification. (English summary) **93m:68064**
Dolev, Danny *see* **Bar-Noy, Amotz; et al., 93f:68036**
Dwork, Cynthia *see* **Bar-Noy, Amotz; et al., 93f:68036**
Eğecioğlu, Ömer (*with* Koç, Çetin Kaya) A parallel algorithm for generating discrete orthogonal polynomials. **93c:68037**
Frieze, A. M. *see* **Calkin, Neil J.; et al., 93d:68027**
Galil, Zvi *see* **Breslauer, Dany, 93j:68064**
Geva, Shai *see* **Brookes, Stephen, 93m:68063**
Ghosh, Ratan K. *see* **Rajan, Vijayan; et al., (93b:68006)**
Gil, Joseph (*with* Matias, Yossi; Vishkin, Uzi) Towards a theory of nearly constant time parallel algorithms. (English summary) (*see* **93d:68005**)
Gupta, Phalguni *see* **Rajan, Vijayan; et al., (93b:68006)**
Gušev, Marjan (*with* Tasič, Jurij) A method for broadcast elimination. (English summary) (*see* **93f:00016**)
Heermann, D. W. (*with* Burkitt, A. N.) ★ Parallel algorithms in computational science. **93b:68030**
Huntbach, Matthew Parallel branch-and-bound search in Parlog. (English summary)
Ito, Yoshifusa Finite mapping by neural networks and truth functions. (English summary) **93j:68065**
Kaser, Owen *see* **Pawagi, Shaunak, 93m:68067**
Kasif, Simon *see* **Delcher, Arthur L., 93m:68064**
Kim, Junguk L. *see* **Liu, Xiao Qing, 93i:68079**
Kindervater, G. A. P. ★ Exercises in parallel combinatorial computing. **93b:68031**
Klein, Philip (*with* Stein, Clifford) A parallel algorithm for approximating the minimum cycle cover. (English summary) **93k:68040**
Knapp, Edgar Derivation of concurrent programs: two examples. (English summary)
Koç, Çetin Kaya *see* **Eğecioğlu, Ömer, 93c:68037**
Kučera, L. *see* **Calkin, Neil J.; et al., 93d:68027**
Kulkarni, K. H. *see* **Sprague, Alan P., 93c:68038**
Kuzyurin, N. N. A parallel algorithm of complexity $O(\log^2 n)$ for a problem on balancing sets. (Russian) **93d:68028**
Landowne, Elliott *see* **Pan, Victor; et al., 93m:68066**
Levcopoulos, Christos (*with* Petersson, Ola) Matching parentheses in parallel. (English summary) **93i:68078**
Lin, Hua *see* **Lu, Mi; et al., 93i:68080**
Lin, Zheng A distributed fair polling scheme applied to OR-parallel logic programming. (English summary)
Liu, Xiao Qing (*with* Kim, Junguk L.) An efficient parallel sorting algorithm. **93i:68079**
Lu, Mi (*with* Lin, Hua; Abello, James) An efficient parallel algorithm for longest common subsequence problem. (English summary) **93i:68080**
Lucas, Joan M. (*with* Sackrowitz, Marian Gunsher) Efficient parallel algorithms for path problems in directed graphs. **93a:68051**

Mahanti, Ambuj (*with* Daniels, Charles J.) A SIMD approach to parallel heuristic search. (English summary)
Martel, Charles (*with* Park, Arvin; Subramonian, Ramesh) Work-optimal asynchronous algorithms for shared memory parallel computers. (English summary) **93h:68055**
Matias, Yossi *see* **Gil, Joseph; et al.**, (93d:68005)
Miel, George Dense linear iterations on systolic array processors. (English summary)
Olariu, Stephan (*with* Schwing, James L.; Zhang, Jingyuan) Optimal parallel encoding and decoding algorithms for trees. **93m:68065**
Osiakwan, Constantine N. K. (*with* Akl, Selim G.) Parallel computation of matchings in trees. **93a:68052**
Pan, Victor (*with* Sadikou, Akimou; Landowne, Elliott) Polynomial division with a remainder by means of evaluation and interpolation. (English summary) **93m:68066**
Park, Arvin *see* **Martel, Charles; et al.**, 93h:68055
Pawagi, Shaunak (*with* Kaser, Owen) Optimal parallel algorithms for multiple updates of minimum spanning trees. (English summary) **93m:68067**
Petersson, Ola *see* **Levcopoulos, Christos**, 93i:68078
Rajan, Vijayan (*with* Gupta, Phalguni; Ghosh, Ratan K.) Parallel generation of combinations and permutations. (English summary) (*see* **93b:68006**)
Reif, John H. (*with* Sen, Sandeep) Optimal parallel randomized algorithms for three-dimensional convex hulls and related problems. **93f:68038**
Ricklin, Moty *see* **Afek, Yehuda**
Sackrowitz, Marian Gunsher *see* **Lucas, Joan M.**, 93a:68051
Sadikou, Akimou *see* **Pan, Victor; et al.**, 93m:68066
Savage, John E. (*with* Wloka, Markus G.) Parallel graph-embedding heuristics. (English summary) (*see* **93g:65178**)
Schwing, James L. *see* **Olariu, Stephan; et al.**, 93m:68065
Sen, Sandeep *see* **Reif, John H.**, 93f:68038
Shen, Hong² A universal algorithm for parallel k-selection in hypercubes. (English summary) **93i:68081**
Sprague, Alan P. (*with* Kulkarni, K. H.) Optimal parallel algorithms for finding cut vertices and bridges of interval graphs. **93c:68038**
Stein, Clifford *see* **Klein, Philip**, 93k:68040
Stinson, Douglas R. *see* **Colbourn, Charles J.; et al.**, 93f:68037
Strong, H. Raymond *see* **Bar-Noy, Amotz; et al.**, 93f:68036
Subramonian, Ramesh *see* **Martel, Charles; et al.**, 93h:68055
Suraweera, Francis (*with* Bhattacharya, Prabir) An $O(\log m)$ parallel algorithm for the minimum spanning tree problem. (English summary)
Tasič, Jurij *see* **Gušev, Marjan**, (93f:00016)
Teirlinck, Luc *see* **Colbourn, Charles J.; et al.**, 93f:68037
Tick, E. *see* **Adamson, P.**
Tsay, Jyh Jong *see* **Atallah, Mikhail J.**, 93i:68077
Vishkin, Uzi A parallel blocking flow algorithm for acyclic networks. (English summary) **93i:68082**
— *see also* **Gil, Joseph; et al.**, (93d:68005)
Voevodin, V. V. Parallel software from the standpoint of a mathematician. (English summary) **93i:68083**
Wagner, Dorothea (*with* Wagner, Frank O.) An efficient parallel logarithmic time algorithm for the channel routing problem. (English summary) **93g:68052**
Wagner, Frank O. *see* **Wagner, Dorothea**, 93g:68052
Wloka, Markus G. *see* **Savage, John E.**, (93g:65178)
Wu, Jer Shyan (*with* Chen, Rong Jaye) The Towers of Hanoi problem with parallel moves. (English summary) **93k:68041**
Zhang, Jingyuan *see* **Olariu, Stephan; et al.**, 93m:68065

Items with secondary classifications in 68Q22

Adhar, Gur Saran (*with* Peng, Shietung) Parallel algorithms for finding connected, independent and total domination in interval graphs. (*see* **93f:68003**)
Aiello, William *see* **Ogielski, Andrew T.**
Amato, Nancy M. (*with* Preparata, Franco P.) The parallel 3D convex hull problem revisited. **93d:68064**
Apostolico, Alberto Optimal parallel detection of squares in strings. (English summary) **93h:68116**
Arumugam, G. *see* **Samy, A. Antony; et al.**, (93b:68006)
Awerbuch, Baruch (*with* Peleg, David) Routing with polynomial communication-space trade-off. **93e:68095**
Babai, László (*with* Nisan, Noam; Szegedy, Márió) Multiparty protocols, pseudorandom generators for logspace, and time-space trade-offs. (English summary) **93m:68048**
Beidas, Bassem F. (*with* Papavassilopoulos, George P.) Convergence analysis of asynchronous linear iterations with stochastic delays. (English summary) **93k:65117**
Bollman, Dorothy Digit-index permutations. (English summary) **93k:05005**
Boxer, Laurence Finding congruent regions in parallel. (English summary)
Chang, Chih Yung *see* **Sheu, Jang Ping; et al.**, 93i:68049
Chang, Ruei Chuan *see* **Hsu, F. R.; et al.**, 93i:68176
Chang, Shoe Jane *see* **Yu, Ming Shing; et al.**, 93m:05191
Chartrand, Gary (*with* Oellermann, Ortrud R.) ★ Applied and algorithmic graph theory. (English. English summary)
Ch'ên, Chien Hui *see* **Yu, Chang Wu**, **93g:68110** *and* **Hung, Yung Chen**
Chen, Lin² Optimal parallel time bounds for the maximum clique problem on intervals. **93h:68047**
— Efficient parallel recognition of some circular arc graphs. I. (English summary) **93m:05161**
— (*with* Yesha, Yaacov) Efficient parallel algorithms for bipartite permutation graphs. (English summary) **93j:05143**
Chen, Yuh Shyan *see* **Sheu, Jang Ping; et al.**, 93i:68049
Cheng, Siu Wing *see* **Janardan, Ravi**, 93a:68118
Cooperman, Gene (*with* Finkelstein, Larry) Random algorithms for permutation groups. (English summary) **93k:20005**
Cosnard, Michel (*with* Ferreira, Afonso G.) Designing parallel nonnumerical algorithms. (English summary) (*see* **93f:00016**)
Dahlhaus, Elias (*with* Karpiński, Marek; Kelsen, Pierre) An efficient parallel algorithm for computing a maximal independent set in a hypergraph of dimension 3. (English summary) **93e:68097**
Das, Amitabha (*with* Moser, Louise E.; Melliar-Smith, P. M.) A parallel sorting algorithm for a novel model of computation. (English summary)
Datta, Amitava (*with* Srikant, R.; Ramkumar, G. D. S.; Krithivasan, Kamala) Fast parallel algorithms for the maximum empty rectangle problem.
Dehne, Frank (*with* Miller, Russ; Rau-Chaplin, Andrew) Optical clustering on a mesh-connected computer. (English summary) **93g:68135**
— (*with* Ferreira, Afonso G.; Rau-Chaplin, Andrew) Parallel fractional cascading on hypercube multiprocessors. (English summary) **93i:68171**
Devasahayam, M. Paul *see* **Samy, A. Antony; et al.**, (93b:68006)
D'Hollander, Erik H. Partitioning and labeling of loops by unimodular transformations. (English summary) **93f:68030**
Ferreira, Afonso G. *see* **Dehne, Frank; et al.**, **93i:68171** *and* **Cosnard, Michel**, (93f:00016)
Finance, Jean-Pierre *see* **Perrin, Guy-René**
Finkelstein, Larry *see* **Cooperman, Gene**, 93k:20005
Ganguly, Sumit (*with* Silberschatz, Avi; Tsur, Shalom) Parallel bottom-up processing of Datalog queries. (English summary)
Gazit, Hillel A deterministic parallel algorithm for planar graphs isomorphism. (English summary) **93f:05093**
Ghosh, Ratan K. Parallel search algorithms for graphs and trees. (English summary) **93j:68155**
Goodrich, Michael T. (*with* Ó'Dúnlaing, Colm; Yap, Chee-Keng) Constructing the Voronoï diagram of a set of line segments in parallel. (English summary) **93m:68167**
Gustedt, Jens Well-quasi-ordering finite posets (extended abstract). (English summary) (*see* **93m:05004**)
Hagerup, Torben On a compaction theorem of Ragde. (English summary) **93g:68014**
Henderson, Thomas C. ★ Discrete relaxation techniques. **93i:65135**
Hoàng, Chính T. A parallel algorithm for minimum weighted colouring of triangulated graphs. **93m:05183**
Hsu, F. R. (*with* Lee, R. C. T.; Chang, Ruei Chuan) Parallel algorithms for computing the minimum visible vertex distance between two polygons. (English summary) **93i:68176**
Hsū, Lí Hsing (*with* Wang, Peng Fei; Wu, Chu Tao) Parallel algorithms for finding the most vital edge with respect to minimum spanning tree. (English summary) **93j:68158**
Huang, Shou-Hsuan Stephen (*with* Liu, Hong Fei; Viswanathan, Venkatraman) A sublinear parallel algorithm for some dynamic programming problems. (English summary) **93j:90124**
Hung, Yung Chen (*with* Ch'ên, Chien Hui) Distributed algorithms for the quickest path problem. (English summary)
Ibarra, Oscar H. (*with* Kim, Myung Hee) Quadtree building algorithms on an SIMD hypercube. (English summary)
Janardan, Ravi (*with* Cheng, Siu Wing) Efficient distributed algorithms for single-source shortest paths and related problems on plane networks. **93a:68118**
Jiang, Zeng Rong *see* **Li, Xiao Mei**, 93k:65116
Kaldewaij, Anne (*with* Udding, Jan Tijmen) Rank order filters and priority queues. (English summary) **93g:68009**
Kalé, Laxmikant V. *see* **Ramkumar, Balkrishna**
Karpiński, Marek *see* **Dahlhaus, Elias; et al.**, 93e:68097
Kelsen, Pierre *see* **Dahlhaus, Elias; et al.**, 93e:68097
Kézdy, André (*with* McGuinness, Patrick) Sequential and parallel algorithms to find a K_5 minor. **93e:05095**
Khoong, C. M. (*with* Leong, H.-W.) Sorting by distribution in parallel. (English summary) **93m:68038**
Kim, Myung Hee *see* **Ibarra, Oscar H.**
Kolountzakis, Mihail N. (*with* Kutulakos, Kiriakos N.) Fast computation of the Euclidean distance maps for binary images. (English summary) **93g:68140**
Krithivasan, Kamala *see* **Datta, Amitava; et al.**
Kung, H. T. *see* **Wu, I Chen**, 93e:68010
Kutulakos, Kiriakos N. *see* **Kolountzakis, Mihail N.**, 93g:68140
Lee, Kuo Chun *see* **Takefuji, Yoshiyasu; et al.**
Lee, R. C. T. *see* **Hsu, F. R.; et al.**, 93i:68176
Leong, H.-W. *see* **Khoong, C. M.**, 93m:68038
Li, Xiao Mei (*with* Jiang, Zeng Rong) ★ Bingxing suanfa. (Chinese. English and Chinese summaries) [Parallel algorithms] **93k:65116**
Liu, Hong Fei *see* **Huang, Shou-Hsuan Stephen; et al.**, 93j:90124
Liu, Yu Min (*with* Xu, Ji Chao) General algorithms for finding minimal trees. (Chinese. English and Chinese summaries) **93k:05173**
Loyens, Ludovicus Daniël Joseph Carolus ★ A design method for parallel programs. **93f:65099**
Luccio, Fabrizio (*with* Pietracaprina, Andrea; Pucci, Geppino) Analysis and implementation of parallel uniform hashing. **93k:68022**
Mazza, Christian Parallel simulated annealing. **93d:90067**
McGuinness, Patrick *see* **Kézdy, André**, 93e:05095
Melliar-Smith, P. M. *see* **Das, Amitabha; et al.**
Miller, Russ *see* **Dehne, Frank; et al.**, 93g:68135
Moser, Louise E. *see* **Das, Amitabha; et al.**
Mühlenbein, Heinz Parallel genetic algorithms and neural networks as learning machines. (English summary) **93i:68152**
Mulmuley, Ketan (*with* Sen, Sandeep) Dynamic point location in arrangements of hyperplanes. **93m:68035**
Narayanan, H. (*with* Saran, Huzur; Vazirani, Vijay V.) Randomized parallel algorithms for matroid union and intersection, with applications to arboresences and edge-disjoint spanning trees. (*see* **93b:68005**)
Nielsen, Soren S. (*with* Zenios, Stavros A.) A massively parallel algorithm for nonlinear stochastic network problems. (English summary)
Nisan, Noam *see* **Babai, László; et al.**, 93m:68048
Ó'Dúnlaing, Colm *see* **Goodrich, Michael T.; et al.**, 93m:68167
Oellermann, Ortrud R. *see* **Chartrand, Gary**
Ogielski, Andrew T. (*with* Aiello, William) Sparse matrix computations on parallel

processor arrays. (English summary)
Olariu, Stephan (*with* Schwing, James L.; Zhang, Jingyuan) A constant-time channel-assignment algorithm on reconfigurable meshes. (English summary)
Pantziou, Grammati E. (*with* Spirakis, Paul G.; Zaroliagis, Christos D.) Efficient parallel algorithms for shortest path in planar digraphs. **93f:68073**
Papavassilopoulos, George P. *see* **Beidas, Bassem F., 93k:65117**
Peleg, David *see* **Awerbuch, Baruch, 93e:68095**
Peng, Shietung *see* **Adhar, Gur Saran, (93f:68003)**
Perrin, Guy-René (*with* Finance, Jean-Pierre) Communication relations: a paradigm for parallel program design. (English summary)
Pietracaprina, Andrea *see* **Luccio, Fabrizio; et al., 93k:68022**
Preparata, Franco P. *see* **Amato, Nancy M., 93d:68064**
Pucci, Geppino *see* **Luccio, Fabrizio; et al., 93k:68022**
Ramakrishnan, Raghu Parallelism in logic programs. (English summary)
Ramkumar, Balkrishna (*with* Kalé, Laxmikant V.) A join algorithm for combining AND parallel solutions in AND/OR parallel systems. (English summary)
Ramkumar, G. D. S. *see* **Datta, Amitava; et al.**
Rau-Chaplin, Andrew *see* **Dehne, Frank; et al., 93g:68135** *and* **93i:68171**
(Reed, G. M.) *see* **Topology and category theory in computer science, 93h:68004**
Reif, John H. (*with* Spirakis, Paul G.) Expected parallel time and sequential space complexity of graph and digraph problems. **93c:68041**
— (*with* Sen, Sandeep) Optimal randomized parallel algorithms for computational geometry. **93c:68105**
Renegar, James On the computational complexity and geometry of the first-order theory of the reals. I. Introduction. Preliminaries. The geometry of semi-algebraic sets. The decision problem for the existential theory of the reals. **93h:03011a**
— On the computational complexity and geometry of the first-order theory of the reals. II. The general decision problem. Preliminaries for quantifier elimination. **93h:03011b**
— On the computational complexity and geometry of the first-order theory of the reals. III. Quantifier elimination. **93h:03011c**
Rönn, Stefan On the regularity calculus and its role in distributed programming. (English summary) **93k:68067**
(Roscoe, A. W.) *see* **Topology and category theory in computer science, 93h:68004**
Rüb, Christine Line-segment intersection reporting in parallel. **93i:68182**
Samy, A. Antony (*with* Arumugam, G.; Devasahayam, M. Paul; Xavier, C.) A recognition algorithm for the intersection graphs of internally disjoint paths in trees. (*see* **93b:68006**)
Saran, Huzur *see* **Narayanan, H.; et al., (93b:68005)**
Schwab, Stephen A. Extended parallelism in the Gröbner basis algorithm. (English summary)
Schwing, James L. *see* **Olariu, Stephan; et al.**
Sedukhin, S. G. Design and analysis of systolic algorithms for the algebraic path problem. (English summary) **93g:68109**
Sen, Sandeep *see* **Reif, John H., 93c:68105** *and* **Mulmuley, Ketan, 93m:68035**
Sheu, Jang Ping (*with* Chen, Yuh Shyan; Chang, Chih Yung) Fault-tolerant sorting algorithm on hypercube multicomputers. (English summary) **93i:68049**
Silberschatz, Avi *see* **Ganguly, Sumit; et al.**
Spirakis, Paul G. *see* **Reif, John H., 93c:68041** *and* **Pantziou, Grammati E.; et al., 93f:68073**
Srikant, R. *see* **Datta, Amitava; et al.**
Szegedy, Mário *see* **Babai, László; et al., 93m:68048**
Takaoka, Tadao A new upper bound on the complexity of the all pairs shortest path problem. (English summary) **93h:68061**
Takefuji, Yoshiyasu (*with* Tanaka, Toshimitsu; Lee, Kuo Chun) A parallel string search algorithm.
Tanaka, Toshimitsu *see* **Takefuji, Yoshiyasu; et al.**
Thatte, Satish R. A type system for implicit scaling. **93a:68087**
Tseng, Lin Yu *see* **Yu, Ming Shing; et al., 93m:05191**
Tsur, Shalom *see* **Ganguly, Sumit; et al.**
Udding, Jan Tijmen *see* **Kaldewaij, Anne, 93g:68009**
Vakhaniya, N. N. Ordering of operations in the case of parallel machines. (Russian. Russian summary) **93f:90096**
Vasil'ev, N. S. Automated construction of optimal parallel algorithms for calculating arithmetical expressions. (Russian) **93h:68067**
Vazirani, Vijay V. *see* **Narayanan, H.; et al., (93b:68005)**
Viswanathan, Venkatraman *see* **Huang, Shou-Hsuan Stephen; et al., 93j:90124**
Voevodin, V. V. ★ Mathematical foundations of parallel computing. **93j:65230**
(Wachter, R. F.) *see* **Topology and category theory in computer science, 93h:68004**
Wang, Peng Fei *see* **Hsü, Li Hsing; et al., 93j:68158**
Ward, Nigel A parallel approach to syntax for generation. (English summary) **93e:68107**
Wu, Chu Tao *see* **Hsü, Li Hsing; et al., 93j:68158**
Wu, I Chen (*with* Kung, H. T.) Communication complexity for parallel divide-and-conquer. (English summary) **93e:68010**
Xavier, C. *see* **Samy, A. Antony; et al., (93b:68006)**
Xu, Ji Chao *see* **Liu, Yu Min, 93k:05173**
Yang, Cheng-Hsing *see* **Yu, Ming Shing, 93i:68145**
Yap, Chee-Keng *see* **Goodrich, Michael T.; et al., 93m:68167**
Yesha, Yaacov *see* **Chen, Lin[2], 93j:05143**
Yu, Chang Wu (*with* Ch'ên, Chien Hui) The weighted maximum independent set problem in permutation graphs. (English summary) **93g:68110**
Yu, Ming Shing (*with* Yang, Cheng-Hsing) An optimal parallel algorithm for the domatic partition problem on an interval graph given its sorted model. (English summary) **93i:68145**
— (*with* Tseng, Lin Yu; Chang, Shoe Jane) Sequential and parallel algorithms for the maximum-weight independent set problem on permutation graphs. (English summary) **93m:05191**
Zaroliagis, Christos D. *see* **Pantziou, Grammati E.; et al., 93f:68073**
Zenios, Stavros A. *see* **Nielsen, Soren S.**
Zhang, Jingyuan *see* **Olariu, Stephan; et al.**

Items listed otherwise than by author

Oxford ★ Topology and category theory in computer science. **93h:68004**
Symposium:
Topology ★ Topology and category theory in computer science. **93h:68004**
Topology and category theory in computer science ★ Topology and category theory in computer science. **93h:68004**

68Q25 Analysis of algorithms and problem complexity

Alon, Noga (*with* Galil, Zvi; Margalit, Oded) On the exponent of the all pairs shortest path problem. (English summary) **93e:68029**
Arvind, V. (*with* Biswas, Somenath) Edge-deletion graph problems with first-order expressible subgraph properties. **93e:68030**
Astesiano, Egidio (*with* Cerioli, Maura) Partial higher-order specifications. **93g:68053**
Babai, László Deciding finiteness of matrix groups in Las Vegas polynomial time. **93j:68066**
Barannik, A. A. A procedure for estimating the computer resources necessary for the program implementation of finite algorithms. (Russian. Russian summary)
Beaudry, M. (*with* McKenzie, Pierre; Thérien, Denis) The membership problem in aperiodic transformation monoids. (English summary) **93j:68067**
Billionnet, Alain (*with* Sutter, Alain) An efficient algorithm for the 3-satisfiability problem. (English summary) **93f:68039**
Biswas, Somenath *see* **Arvind, V., 93e:68030**
Borodin, Allan (*with* Ruzzo, Walter L.; Tompa, Martin) Lower bounds on the length of universal traversal sequences. (English summary) **93j:68068**
Boyar, Joan (*with* Brassard, Gilles; Peralta, René) Subquadratic zero-knowledge. (English summary) **93e:68031**
Brassard, Gilles *see* **Boyar, Joan; et al., 93e:68031**
Bruck, Jehoshua (*with* Smolensky, Roman) Polynomial threshold functions, AC^0 functions, and spectral norms. **93a:68053**
Bshouty, Nader H. A lower bound for the multiplication of polynomials modulo a polynomial. **93j:68069**
Bugrara, Khaled M. (*with* Purdom, Paul Walton, Jr.) Average time analysis of clause order backtracking. (English summary) **93m:68068**
Buntrock, Gerhard (*with* Damm, Carsten; Hertrampf, Ulrich; Meinel, Christoph) Structure and importance of logspace-MOD class. **93d:68029**
Bürgisser, Peter (*with* Karpiński, Marek; Lickteig, Thomas) Some computational problems in linear algebra as hard as matrix multiplication. **93d:68030**
— (*with* Lickteig, Thomas; Shub, Michael) Test complexity of generic polynomials. (English summary) **93j:68070**
Butkovič, P. (*with* Cuninghame-Green, R. A.) An $O(n^2)$ algorithm for the maximum cycle mean of an $n \times n$ bivalent matrix. **93m:68069**
Bylander, Tom Complexity results for serial decomposability. (English summary) **93k:68042**
Cai, Jiazhen (*with* Paige, R.; Tarjan, Robert Endre) More efficient bottom-up multi-pattern matching in trees. (English summary) **93g:68054**
Canny, John F. *see* **Emiris, Ioannis, (93d:68005)**
Carlier, Jacques *see* **Dubois, Olivier, 93d:68032**
Cerioli, Maura *see* **Astesiano, Egidio, 93g:68053**
Chakrabarti, P. P. (*with* Ghose, S.) A general best first search algorithm in AND/OR graphs. **93i:68084**
Chandru, Vijaya (*with* Hooker, J. N.) Detecting embedded Horn structure in propositional logic. **93c:68039**
Chang, Jui Hsiung Single step graph search problem. **93a:68054**
Chen, Tung Shou (*with* Yang, Wei Pang; Lee, R. C. T.) Amortized analysis of some disk scheduling algorithms: SSTF, SCAN, and N-StepSCAN. (English summary)
Chen, Zhi Zhong[2] (*with* Toda, Seinosuke) On the complexity of computing optimal solutions. **93a:68055**
Cheng, Kam-Hoi *see* **Li, Keqin, 93h:68059**
Cho, Sang (*with* Huỳnh, Dũng T.) The parallel complexity of coarsest set partition problems.
Chor, Benny (*with* Kushilevitz, Eyal) A communication-privacy tradeoff for modular addition. (English summary) **93m:68070**
Chrobak, Marek (*with* Larmore, Lawrence L.) The server problem and on-line games. **93f:68040**
Claus, Volker Complexity measures on permutations. (English summary) **93m:68071**
Codenotti, B. (*with* Leoncini, Mauro) Matrix inversion in RNC^1. **93f:68041**
Coffman, Edward G., Jr. (*with* Shor, Peter W.) Packings in two dimensions: asymptotic average-case analysis of algorithms. (English summary) **93m:68072**
da Costa, Newton C. A. (*with* Doria, Francisco Antonio) On the existence of very difficult satisfiability problems.
Cuninghame-Green, R. A. *see* **Butkovič, P., 93m:68069**
Damm, Carsten *see* **Buntrock, Gerhard; et al., 93d:68029**
Dietzfelbinger, Martin (*with* Maass, Wolfgang) The complexity of matrix transposition on one-tape off-line Turing machines with output tape. (English summary) **93m:68073**
Ding, Yuzheng (*with* Weiss, Mark Allen) Best case lower bounds for Heapsort. (English and German summaries) **93f:68042**
Dolotova, O. A. On the complexity of tests for monotone functions. (Russian) (*see* **93m:00021**)
Doria, Francisco Antonio *see* **da Costa, Newton C. A.**
Douglas, Robert James NP-completeness and degree restricted spanning trees. (English summary) **93i:68085**
Du, Ding Zhu (*with* Ko, Ker-I) A note on best fractions of a computable real number. (English summary) **93j:68071**
Dubois, Olivier Counting the number of solutions for instances of satisfiability. **93d:68031**
— (*with* Carlier, Jacques) Probabilistic approach to the satisfiability problem. **93d:68032**
Emiris, Ioannis (*with* Canny, John F.) A general approach to removing degeneracies. (English summary) (*see* **93d:68005**)
Faigle, Ulrich (*with* Schrader, Rainer; Turán, György) The communication complexity of interval orders. (English summary) **93g:68055**
Faragó, A. (*with* Linder, T.; Lugosi, Gábor) Nearest neighbor search and classification in $O(1)$ time. (Russian summary) **93a:68056**

Fellows, Michael R. (*with* Koblitz, Neal) Self-witnessing polynomial-time complexity and prime factorization. (English summary) **93e:68032**
Fialkow, Lawrence A. (*with* Salas, Héctor) Data exchange and permutation length.
Fischer, Anat (*with* Gilboa, Itzhak; Shpitalni, Moshe) A polynomial algorithm for minimal interval representation. (English summary) **93h:68056**
Franco, John On the occurrence of null clauses in random instances of satisfiability. (English summary) **93m:68074**
Frederickson, Greg N. (*with* Guan, D. J.) Preemptive ensemble motion planning on a tree. (English summary) **93k:68043**
Furuya, Shinji (*with* Miyano, Satoru) NP-complete problems on label updating calculation in ATMS. **93h:68057**
Gál, Anna Lower bounds for the complexity of reliable Boolean circuits with noisy gates. (English summary) **93k:68044**
Galiev, V. I. (*with* Polupanov, A. F.; Shparlinskiĭ, I. E.) Distances from differences of roots of polynomials to the nearest integers. (English summary) **93j:68072**
Galil, Zvi (*with* Italiano, Giuseppe F.) Maintaining the 3-edge-connected components of a graph on-line. (English summary) **93m:68075**
— *see also* **Alon, Noga; et al., 93e:68029**
Gelenbe, Erol Une généralisation probabiliste du problème SAT. (English and French summaries) [A probabilistic generalization of the SAT problem] **93i:68086**
Ghose, S. *see* **Chakrabarti, P. P., 93i:68084**
Gilboa, Itzhak *see* **Fischer, Anat; et al., 93h:68056**
Greenlaw, Raymond The parallel complexity of approximation algorithms for the maximum acyclic subgraph problem. **93a:68057**
Grove, E. F. The harmonic online K-server algorithm is competitive. **93d:68033**
Guan, D. J. *see* **Frederickson, Greg N., 93k:68043**
Gupta, Naresh (*with* Nau, Dana S.) On the complexity of blocks-world planning. (English summary) **93h:68058**
Gutjahr, Walter J. (*with* Pflug, G. Ch.) The limiting common distribution of two leaf heights in a random binary tree. (French summary) **93b:68032**
Habib, Michel (*with* Morvan, M.; Rampon, Jean-Xavier) On the calculation of transitive reduction-closure of orders. (English summary) **93k:68045**
Hambrusch, Susanne E. (*with* Tu, Hung Yi) A framework for 1-D compaction with forbidden region avoidance. **93e:68033**
Hertrampf, Ulrich *see* **Buntrock, Gerhard; et al., 93d:68029**
Hooker, J. N. *see* **Chandru, Vijaya, 93c:68039**
Hoover, H. James Real functions, contraction mappings, and P-completeness. **93d:68034**
Huỳnh, Dũng T. *see* **Cho, Sang**
Impagliazzo, Russell (*with* Nisan, Noam) The effect of random restrictions on formula size. (English summary) **93m:68076**
Italiano, Giuseppe F. *see* **Galil, Zvi, 93m:68075**
Jackson, Philip C., Jr. Proving unsatisfiability for problems with constant cubic sparsity. (English summary) **93k:68046**
Karpiński, Marek *see* **Bürgisser, Peter; et al., 93d:68030**
Keil, J. Mark The complexity of domination problems in circle graphs. (English summary) **93m:68078**
King, Valerie An $\Omega(n^{5/4})$ lower bound on the randomized complexity of graph properties. **93a:68058**
Kirschenhofer, Peter (*with* Prodinger, Helmut) A coin tossing algorithm for counting large numbers of events. (English summary) **93j:68073**
Ko, Ker-I On the computational complexity of integral equations. (English summary) **93m:68079**
— *see also* **Du, Ding Zhu, 93j:68071**
Koblitz, Neal Elliptic curve implementation of zero-knowledge blobs. (English summary) **93m:68080**
— *see also* **Fellows, Michael R., 93e:68032**
Kolpakov, R. M. Estimates for the complexity of the generation of rational numbers of probabilistic switching π-nets. (Russian)
Koutsoupias, Elias (*with* Papadimitriou, Christos H.) On the greedy algorithm for satisfiability. (English summary) **93i:68087**
Kovalëv, M. M. (*with* Moshchenskiĭ, A. V.) Oracle complexity of the maximization of a submodular function. (Russian. English and Russian summaries)
Kozhevnikova, G. P. *see* **Vinokur, A. B.**
Kuper, G. M. (*with* McAloon, K. W.; Palem, K. V.; Perry, K. J.) A note on the parallel complexity of anti-unification. (English summary) **93m:68081**
Kushilevitz, Eyal *see* **Chor, Benny, 93m:68070**
Ladkin, Peter B. (*with* Reinefeld, Alexander) Effective solution of qualitative interval constraint problems. (English summary) **93m:68082**
Lam, Tak-Wah (*with* Tiwari, Prasoon; Tompa, Martin) Trade-offs between communication and space. (English summary) **93i:68088**
Larmore, Lawrence L. *see* **Chrobak, Marek, 93f:68040**
Leavens, Gary T. (*with* Vermeulen, Mike) $3x+1$ search programs. (English summary) **93k:68047**
Lecroq, Thierry A variation on the Boyer-Moore algorithm. **93c:68040**
Lee, R. C. T. *see* **Chen, Tung Shou; et al.**
Leighton, Frank Thomson (*with* Newman, Mark J.; Ranade, Abhiram G.; Schwabe, Eric J.) Dynamic tree embeddings in butterflies and hypercubes. **93f:68043**
Lengauer, Th. (*with* Wagner, Klaus Werner) The correlation between the complexities of the nonhierarchical and hierarchical versions of graph problems. **93d:68035**
Leoncini, Mauro *see* **Codenotti, B., 93f:68041**
Li, Chung-Lun (*with* McCormick, S. Thomas; Simchi-Levi, David) Finding disjoint paths with different path-costs: complexity and algorithms. (English summary) **93g:68056**
Li, Keqin (*with* Cheng, Kam-Hoi) Heuristic algorithms for on-line packing in three dimensions. (English summary) **93h:68059**
Li, Ming[1] (*with* Vitányi, Paul M. B.) Average case complexity under the universal distribution equals worst-case complexity.
Liaw, Heh Tyan (*with* Lin, Chen Shang) On the OBDD-representation of general Boolean functions. **93f:68044**
Lickteig, Thomas *see* **Bürgisser, Peter; et al., 93d:68030** *and* **93j:68070**
Lin, Chen Shang *see* **Liaw, Heh Tyan, 93f:68044**
Linder, T. *see* **Faragó, A.; et al., 93a:68056**
Litow, Bruce On iterated integer product. (English summary) **93e:68034**
Louchard, G. (*with* Randrianarimanana, B.; Schott, René) Dynamic algorithms in D. E. Knuth's model: a probabilistic analysis. **93k:68048**
Lovász, László (*with* Simonovits, Miklós) The mixing rate of Markov chains, an isoperimetric inequality, and computing the volume. **93e:68035**
Lugosi, Gábor *see* **Faragó, A.; et al., 93a:68056**
Maass, Wolfgang *see* **Dietzfelbinger, Martin, 93m:68073**
Mahmoud, Hosam M. ★ Evolution of random search trees. **93f:68045**
Margalit, Oded *see* **Alon, Noga; et al., 93e:68029**
Matoušek, Jiří (*with* Thomas, Robin) On the complexity of finding iso- and other morphisms for partial k-trees. (English summary) **93j:68074**
McAloon, K. W. *see* **Kuper, G. M.; et al., 93m:68081**
McCormick, S. Thomas *see* **Li, Chung-Lun; et al., 93g:68056**
McKenzie, Pierre *see* **Beaudry, M.; et al., 93j:68067**
Meinel, Christoph *see* **Buntrock, Gerhard; et al., 93d:68029**
Miltersen, Peter Bro The complexity of malign measures. (English summary) **93j:68075**
Miyano, Satoru *see* **Furuya, Shinji, 93h:68057**
Morvan, M. *see* **Habib, Michel; et al., 93k:68045**
Moshchenskiĭ, A. V. *see* **Kovalëv, M. M.**
Myers, Gene A Four Russians algorithm for regular expression pattern matching. **93g:68057**
Nakamura, Akira[1] Three-dimensional connected pictures are not recognizable by finite-state acceptors. (English summary) **93h:68060**
Nau, Dana S. *see* **Gupta, Naresh, 93h:68058**
Newman, Mark J. *see* **Leighton, Frank Thomson; et al., 93f:68043**
Nisan, Noam *see* **Impagliazzo, Russell, 93m:68076**
Paige, R. *see* **Cai, Jiazhen; et al., 93g:68054**
Palem, K. V. *see* **Kuper, G. M.; et al., 93m:68081**
Papadimitriou, Christos H. *see* **Koutsoupias, Elias, 93i:68087**
Paterson, Michael S. (*with* Zwick, Uri) Shrinkage of De Morgan formulae under restriction. (English summary) **93g:68058**
— (*with* Zwick, Uri) Shrinkage of De Morgan formulae under restriction. (English summary) **93m:68077**
Peralta, René *see* **Boyar, Joan; et al., 93e:68031**
Perry, K. J. *see* **Kuper, G. M.; et al., 93m:68081**
Pflug, G. Ch. *see* **Gutjahr, Walter J., 93b:68032**
Polupanov, A. F. *see* **Galiev, V. I.; et al., 93j:68072**
Prodinger, Helmut Hypothetical analyses: approximate counting in the style of Knuth, path length in the style of Flajolet. **93j:68076**
— *see also* **Kirschenhofer, Peter, 93j:68073**
Prömel, Hans Jürgen (*with* Steger, Angelika) Coloring clique-free graphs in linear expected time. (English summary) **93m:68083**
Purdom, Paul Walton, Jr. *see* **Bugrara, Khaled M., 93m:68068**
Ramakrishnan, I. V. *see* **Verma, Rakesh M., 93h:68062**
Ramanan, Prakash Testing the optimality of alphabetic trees. **93a:68059**
Rampon, Jean-Xavier *see* **Habib, Michel; et al., 93k:68045**
Ranade, Abhiram G. *see* **Leighton, Frank Thomson; et al., 93f:68043**
Randall, Dana J. Efficient generation of random nonsingular matrices. (English summary) **93i:68089**
Randrianarimanana, B. *see* **Louchard, G.; et al., 93k:68048**
Regan, Kenneth W. Minimum-complexity pairing functions. (English summary) **93i:68090**
Reif, John H. (*with* Spirakis, Paul G.) Expected parallel time and sequential space complexity of graph and digraph problems. **93c:68041**
— (*with* Tate, Stephen R.) On threshold circuits and polynomial computation. (English summary) **93i:68091**
Reinefeld, Alexander *see* **Ladkin, Peter B., 93m:68082**
Ruzzo, Walter L. *see* **Borodin, Allan; et al., 93j:68068**
Salas, Héctor *see* **Fialkow, Lawrence A.**
Saluja, Sanjeev A note on the permanent value problem. (English summary) **93m:68084**
Šćepanović, Radoje On the linear complexity of the recognition of a class of patterns. (Russian) (*see* **93m:00021**)
Schnorr, C.-P. Computation of the Boolean matrix-vector, AND/OR-product in average time $O(m+n\ln n)$. (English summary) **93i:68092**
Schott, René *see* **Louchard, G.; et al., 93k:68048**
Schrader, Rainer *see* **Faigle, Ulrich; et al., 93g:68055**
Schwabe, Eric J. *see* **Leighton, Frank Thomson; et al., 93f:68043**
Shen, Guang Xing Computational complexity of r-circulant systems. (Chinese. English summary) **93i:68093**
Shor, Peter W. *see* **Coffman, Edward G., Jr., 93m:68072**
Shparlinskiĭ, I. E. *see* **Galiev, V. I.; et al., 93j:68072**
Shpitalni, Moshe *see* **Fischer, Anat; et al., 93h:68056**
Shub, Michael *see* **Bürgisser, Peter; et al., 93j:68070**
Simchi-Levi, David *see* **Li, Chung-Lun; et al., 93g:68056**
Simonovits, Miklós *see* **Lovász, László, 93e:68035**
Smolensky, Roman *see* **Bruck, Jehoshua, 93a:68053**
Spinrad, Jeremy P. Doubly lexical ordering of dense 0-1 matrices. (English summary) **93m:68085**
Spirakis, Paul G. *see* **Reif, John H., 93c:68041**
Steger, Angelika *see* **Prömel, Hans Jürgen, 93m:68083**
Stein, Clifford (*with* Wein, Joel) Approximating the minimum-cost maximum flow is P-complete. (English summary) **93e:68036**
Sutter, Alain *see* **Billionnet, Alain, 93f:68039**
Takaoka, Tadao A new upper bound on the complexity of the all pairs shortest path problem. (English summary) **93h:68061**
T'ang, Ch'uan I (*with* Yang, Chieh Jên) On the complexity of some radio network design problems. (English and Chinese summaries) **93f:68046**
Tarannikov, Yu. V. The class of 1-balanced functions and the complexity of its realization. (Russian)
Tarjan, Robert Endre *see* **Cai, Jiazhen; et al., 93g:68054**

Tate, Stephen R. *see* **Reif, John H., 93i:68091**
Thérien, Denis *see* **Beaudry, M.; et al., 93j:68067**
Thomas, Robin *see* **Matoušek, Jiří, 93j:68074**
Tiwari, Prasoon *see* **Lam, Tak-Wah; et al., 93i:68088**
Toda, Seinosuke *see* **Chen, Zhi Zhong[2], 93a:68055**
Tompa, Martin *see* **Lam, Tak-Wah; et al., 93i:68088** *and* **Borodin, Allan; et al., 93j:68068**
Trier, Uwe Additive weights of a special class of nonuniformly distributed backtrack trees. **93i:68094**
Tu, Hung Yi *see* **Hambrusch, Susanne E., 93e:68033**
Turán, György *see* **Faigle, Ulrich; et al., 93g:68055**
Ukkonen, Esko Approximate string-matching with q-grams and maximal matches. **93a:68060**
Verma, Rakesh M. (*with* Ramakrishnan, I. V.) Tight complexity bounds for term matching problems. (English summary) **93h:68062**
Vermeulen, Mike *see* **Leavens, Gary T., 93k:68047**
Vinokur, A. B. (*with* Kozhevnikova, G. P.) Analysis of the computational complexity of algorithms by a method of recognizing their classification properties. (Russian. English and Ukrainian summaries)
Vishwanathan, Sundar An approximation algorithm for the asymmetric travelling salesman problem with distances one and two. (English summary) **93h:68063**
Vitányi, Paul M. B. *see* **Li, Ming[1]**
van Vliet, André An improved lower bound for on-line bin packing algorithms. (English summary) **93j:68077**
Wagner, Klaus Werner *see* **Lengauer, Th., 93d:68035**
Wein, Joel *see* **Stein, Clifford, 93e:68036**
Weiss, Mark Allen *see* **Ding, Yuzheng, 93f:68042**
Werschulz, Arthur G. ★ The computational complexity of differential and integral equations. **93a:68061**
Woeginger, Gerhard J. (*with* Yu, Zhong Liang) On the equal-subset-sum problem. (English summary) **93e:68037**
Yang, Chieh Jên *see* **T'ang, Ch'uan I, 93f:68046**
Yang, Wei Pang *see* **Chen, Tung Shou; et al.**
Yen, Hsu Chun A multiparameter analysis of domino tiling with an application to concurrent systems. **93f:68047**
Yu, Zhong Liang *see* **Woeginger, Gerhard J., 93e:68037**
Yuan, Jin Jiang The NP-hardness of the single machine common due date weighted tardiness problem. (English summary)
Zhang, Zhen Xiang Time complexity of an algorithm for matrix multiplication. (Chinese. English and Chinese summaries)
Zwick, Uri *see* **Paterson, Michael S., 93g:68058** *and* **93m:68077**

Items with secondary classifications in 68Q25

Adler, Ilan (*with* Beling, Peter A.) Polynomial algorithms for LP over a subring of the algebraic integers with applications to LP with circulant matrices. (English summary) **93i:90065**
Afrati, Foto The parallel complexity of single rule logic programs. (English summary) **93h:68015**
Agarwal, Pankaj K. (*with* Edelsbrunner, Herbert; Schwarzkopf, Otfried; Welzl, Emo) Euclidean minimum spanning trees and bichromatic closest pairs. **93a:68146**
— (*with* Matoušek, Jiří) Relative neighborhood graphs in three dimensions. (English summary) **93i:68166**
— (*with* Sharir, Micha) Applications of a new space-partitioning technique. (English summary) **93m:68159**
Akyildiz, I. F. *see* **Cheng, Ying; et al., 93m:68013**
Alon, Noga (*with* Goldreich, Oded; Håstad, Johan; Peralta, René) Simple constructions of almost k-wise independent random variables. **93a:65008**
Alt, Helmut (*with* Fleischer, Rudolf; Kaufmann, Michael; Mehlhorn, Kurt; Näher, Stefan; Schirra, Stefan; Uhrig, Christian) Approximate motion planning and the complexity of the boundary of the union of simple geometric figures. (English summary) **93k:68097**
Andersson, Arne Comments on: "On the balance property of Patricia tries: external path length viewpoint" [Theoret. Comput. Sci. **68** (1989), no. 1, 1–17; MR 91a:68036] by P. Kirschenhofer, H. Prodinger and W. Szpankowski. (English summary) **93k:68021**
Andreae, Thomas Some results on visibility graphs. (English summary) **93k:05142**
Antonelli, Silvano (*with* Pelagatti, Susanna) On the complexity of the mapping problem for massively parallel architectures. (English summary) **93k:68029**
Apostolico, Alberto (*with* Crochemore, M.) Optimal canonization of all substrings of a string. **93a:68121**
— Optimal parallel detection of squares in strings. (English summary) **93h:68116**
— (*with* Atallah, Mikhail J.; Hambrusch, Susanne E.) New clique and independent set algorithms for circle graphs. **93b:05151**
Aronov, Boris (*with* O'Rourke, Joseph) Nonoverlap of the star unfolding. **93h:68135**
Arvind, K. (*with* Pandu Rangan, C.) Connected domination and Steiner set on weighted permutation graphs. **93b:68067**
Atallah, Mikhail J. A faster parallel algorithm for a matrix searching problem. (English summary) **93m:68062**
— *see also* **Apostolico, Alberto; et al., 93b:05151**
Averbuch, Amir (*with* Bshouty, Nader H.; Kaminski, Michael) A classification of algorithms for multiplying polynomials of small degree over finite fields. (English summary) **93k:68051**
Babai, László (*with* Friedl, Katalin) Approximate representation theory of finite groups. (English summary) **93i:68098**
— Computational complexity in finite groups. **93a:20008**
— (*with* Nisan, Noam; Szegedy, Márió) Multiparty protocols, pseudorandom generators for logspace, and time-space trade-offs. (English summary) **93m:68048**
Bagchi, Amitava (*with* Schmeichel, Edward; Hakimi, S. Louis) Sequential information dissemination by packets. **93c:68006**
Banerjee, Subhankar (*with* Harary, Frank) The minimum detour number of a connected graph. (English and Malayan summaries) **93h:05105**
Barthélémy, Jean-Pierre (*with* Cohen, Gérard Denis; Lobstein, Antoine-C.) ★ Complexité algorithmique et problèmes de communications. (French) [Algorithmic complexity and communications problems] **93h:68046**
Bar-Yehuda, Reuven (*with* Goldreich, Oded; Itai, Alon) On the time-complexity of broadcast in multi-hop radio networks: an exponential gap between determinism and randomization.
Bauderon, Michel Infinite hypergraphs. II. Systems of recursive equations. (English and French summaries) **93j:68116**
Baumgarten, Hanna (*with* Jung, Hermann; Mehlhorn, Kurt) Dynamic point location in general subdivisions. (*see* **93b:68005**)
Beichelt, Frank (*with* Tittmann, Peter) A splitting formula for the K-terminal reliability of stochastic networks. **93d:94032**
Bein, Wolfgang W. (*with* Kamburowski, Jerzy; Stallmann, Matthias F. M.) Optimal reduction of two-terminal directed acyclic graphs. (English summary) **93j:68152**
Beling, Peter A. *see* **Adler, Ilan, 93i:90065**
Belleville, Patrice (*with* Shermer, Thomas C.) Probing polygons minimally is hard. (English summary) **93m:68160**
Benavent López, Enrique (*with* Campos, V.; Corberán, Á.; Mota, E.) The capacitated arc routing problem: lower bounds. (English summary) **93h:90032**
Bentley, Jon Louis (*with* Clarkson, Kenneth L.; Levine, David B.) Fast linear expected-time algorithms for computing maxima and convex hulls. (English summary) **93m:68161**
de Berg, Mark T. Dynamic output-sensitive hidden surface removal for c-oriented polyhedra. (English summary) **93i:68167**
— (*with* van Kreveld, Marc; Nilsson, Bengt J.; Overmars, Mark H.) Shortest path queries in rectilinear worlds. (English summary) **93j:68208**
— (*with* Carlsson, Svante; Overmars, Mark H.) A general approach to dominance in the plane. **93e:68127**
Bergen, James R. (*with* Shvaytser, Haim) A probabilistic algorithm for computing Hough transforms. **93e:65005**
Berger, Toby (*with* Hekstra, A.; Orlitsky, Alon) Asymptotic component densities in programmable gate arrays realizing all circuits of a given size. (English summary) **93j:68082**
Berman, Piotr (*with* Ramaiyer, Viswanathan) Improved approximations for the Steiner tree problem. (*see* **93b:68005**)
Bernhardt, Chris (*with* Coven, Ethan M.) A polynomial-time algorithm for deciding the forcing relation on cyclic permutations. (English summary) **93j:58041**
Bezem, Marc Semantics and consistency of rule-based expert systems. **93i:68165**
Bhattacharya, Prabir *see* **Suraweera, Francis**
Bini, Dario (*with* Gemignani, Luca) On the complexity of polynomial zeros. **93c:65066**
Bíró, M. (*with* Hujter, M.; Tuza, Zsolt) Precoloring extension. I. Interval graphs. **93d:05049**
Björner, Anders (*with* Karlander, Johan; Lindström, Bernt) Communication complexity of two decision problems. (English summary) **93f:94001**
Blömer, Johannes Computing sums of radicals in polynomial time. (English summary) **93g:11130**
Board, Raymond The online graph bandwidth problem. (English summary) **93m:68131**
Bodlaender, Hans L. (*with* Kratsch, Dieter) The complexity of coloring games on perfect graphs. (English summary) **93h:90126**
Bondarenko, V. A. Estimates for the complexity of combinatorial optimization problems in a class of algorithms. (Russian)
Borie, Richard B. (*with* Parker, R. Gary; Tovey, Craig A.) Automatic generation of linear-time algorithms from predicate calculus descriptions of problems on recursively constructed graph families. **93d:03017**
Borodin, Allan (*with* Linial, Nathan; Saks, Michael E.) An optimal on-line algorithm for metrical task system. (English summary) **93g:68008**
Böttcher, Ralf (*with* Hecker, Hans-Dietrich) Weitere NP-schwere Probleme für minimale Polygonüberdeckungen. [More NP-hard problems for minimal polygon coverings] **93i:68169**
Breslauer, Dany An on-line string superprimitivity test. (English summary) **93j:68160**
— (*with* Galil, Zvi) A lower bound for parallel string matching. (English summary) **93j:68064**
Brigham, Robert C. *see* **Carrington, Julie R., 93j:05110**
Brightwell, Graham R. (*with* Winkler, Peter M.) Counting linear extensions. **93b:06002**
Bshouty, Nader H. *see* **Averbuch, Amir; et al., 93k:68051**
Bui, Thang Nguyen (*with* Jones, Curt) Finding good approximate vertex and edge partitions is NP-hard. **93h:68111**
Campadelli, Paola (*with* Morpurgo, Anna) Learning classes of linearly separable Boolean functions from positive examples. **93h:68119**
Campos, V. *see* **Benavent López, Enrique; et al., 93h:90032**
Carlsson, Svante *see* **de Berg, Mark T.; et al., 93e:68127**
Carrington, Julie R. (*with* Brigham, Robert C.) Global domination of simple factors. (English summary) **93j:05110**
Cerone, V. *see* **Tempo, Roberto, 93g:93068**
Chakrabarti, P. P. *see* **Sarkar, U. K.; et al.**
Chang, David Renpan *see* **Donald, Bruce Randall, 93j:68086**
Chang, Jui Hsiung *see* **Hsiao, Ju Yuan; et al., 93g:05130**
Chang, Maw Shang (*with* Wang, Fu Hsing) Efficient algorithms for the maximum weight clique and maximum weight independent set problems on permutation graphs. (English summary)
— *see also* **Peng, Shen Lung, 93g:68108**
Chang, Ruei Chuan *see* **Hsu, F. R.; et al., 93g:68137; Hwang, R. Z.; et al., 93k:68103** *and* **93m:65189**
Chazelle, Bernard Triangulating a simple polygon in linear time. **93e:68129**
— (*with* Sharir, Micha; Welzl, Emo) Quasi-optimal upper bounds for simplex range searching and new zone theorems. (English summary) **93j:68209**
— (*with* Edelsbrunner, Herbert; Guibas, Leonidas J.; et al.) Counting and cutting cycles of lines and rods in space. **93m:68164**
— (*with* Edelsbrunner, Herbert) An optimal algorithm for intersecting line segments in the plane. **93h:68139**
Chee, Yeow Meng (*with* Lim, Andrew) The algorithmic complexity of colour switching. (English summary) **93g:68106**
Chen, Calvin C.-Y. (*with* Das, Sajal K.) Breadth-first traversal of trees and integer sorting in

parallel. **93b:68013**

Ch'ên, Chien Hui *see* **Yu, Chang Wu, 93g:68110**

Chen, Lin² Optimal parallel time bounds for the maximum clique problem on intervals. **93h:68047**

Ch'ên, Yen Liang An algorithm for finding the k quickest paths in a network. (English summary) **93h:68112**

Chen, Zhi Zhong² A simple parallel algorithm for computing the diameters of all vertices in a tree and its application. (English summary) **93e:68096**

— A fast and efficient parallel algorithm for finding a satisfying truth assignment to a 2-CNF formula. (English summary) **93h:68054**

Cheng, Siu Wing (*with* Janardan, Ravi) New results on dynamic planar point location. (English summary) **93k:68099**

Cheng, Ying (*with* Hwang, F. K.; Akyildiz, I. F.; Hsu, D. Frank) Routing algorithms for double loop networks. (English summary) **93m:68013**

Chern, Maw Sheng On the computational complexity of reliability redundancy allocation in a series system. (English summary) **93f:90079**

— *see also* **Lin, Kao Chêng, 93m:68136**

Chern, T. C. *see* **Shih, Wei Kuan; et al., 93h:05158**

Chiang, Yi-Jen (*with* Tamassia, Roberto) Dynamization of the trapezoid method for planar point location in monotone subdivisions. (English summary) **93j:68210**

— (*with* Preparata, Franco P.; Tamassia, Roberto) A unified approach to dynamic point location, ray shooting, and shortest paths in planar maps. (English summary) (*see* **93k:05002**)

Chien, Been Chian (*with* Yang, Wei Pang) The worst case analysis of algorithm on multiple stacks manipulation.

Chistov, A. L. Efficient factoring polynomials over local fields and its applications. **93c:11152**

Chiu, Patrick Transforms, finite fields, and fast multiplication. **93c:11113**

Choi, Hyeong-Ah (*with* Esfahanian, Abdol-Hossein) A message-routing strategy for multicomputer systems. (English summary)

— *see also* **Han, Yijie; et al., 93j:68022**

Chrobak, Marek (*with* Eppstein, David) Planar orientations with low out-degree and compaction of adjacency matrices. **93a:68114**

Cimikowski, Robert J. Graph planarization and skewness. (English summary) **93m:05180**

Clark, L. H. (*with* Shahrokhi, Farhad; Székely, László A.) A linear time algorithm for graph partition problems. **93b:68069**

Clarkson, Kenneth L. *see* **Bentley, Jon Louis; et al., 93m:68161**

Coan, Brian A. (*with* Lundelius Welch, Jennifer) Modular construction of a Byzantine agreement protocol with optimal message bit complexity. **93a:68012**

Cohen, Gérard Denis *see* **Barthélémy, Jean-Pierre; et al., 93h:68046**

Corberán, Á. *see* **Benavent López, Enrique; et al., 93h:90032**

Coven, Ethan M. *see* **Bernhardt, Chris, 93j:58041**

Crochemore, M. *see* **Apostolico, Alberto, 93a:68121**

Cucker, Felipe $P_{\mathbb{R}} \neq NC_{\mathbb{R}}$. (English summary) **93m:03068**

Cypher, Robert A lower bound on the size of shellsort sorting networks. (English summary) **93m:68037**

Das, Gautam (*with* Joseph, Deborah) Minimum vertex hulls for polyhedral domains. (English summary) **93j:68211**

Das, Sajal K. *see* **Chen, Calvin C.-Y., 93b:68013**

Datta, Amitava (*with* Srikant, R.; Ramkumar, G. D. S.; Krithivasan, Kamala) Fast parallel algorithms for the maximum empty rectangle problem.

Dechter, Rina (*with* Pearl, Judea) Structure identification in relational data. (English summary) **93j:68201**

Dehne, Frank (*with* Ferreira, Afonso G.; Rau-Chaplin, Andrew) Parallel fractional cascading on hypercube multiprocessors. (English summary) **93i:68171**

De Iaco, Bettina (*with* Luccio, Fabrizio) Finding all the palindromes in a binary tree in linear time and space. **93m:68140**

Dekel, Eliezer (*with* Hu, Jie; Ouyang, Wen) An optimal algorithm for finding compact sets. (English summary) **93h:05151**

Delcher, Arthur L. (*with* Kasif, Simon) Efficient parallel term matching and anti-unification. (English summary) **93m:68064**

De Sarkar, S. C. *see* **Sarkar, U. K.; et al.**

Deville, Yves *see* **Van Hentenryck, Pascal; et al., 93h:68126**

Devillers, Olivier Randomization yields simple $O(n \log^* n)$ algorithms for difficult $\Omega(n)$ problems. **93d:68067**

Devroye, Luc (*with* Szpankowski, Wojciech; Rais, Bonita) A note on the height of suffix trees. **93a:68026**

Dickerson, Matthew T. (*with* Drysdale, R. L. Scot; Sack, Jörg-Rüdiger) Simple algorithms for enumerating interpoint distances and finding k nearest neighbors. (English summary) **93j:68212**

Diks, Krzysztof (*with* Djidjev, Hristo N.; Sýkora, Ondrej; Vrťo, Imrich) Edge separators of planar and outerplanar graphs with applications. (English summary) **93i:05121**

Dixon, Brandon (*with* Rauch, Monika; Tarjan, Robert Endre) Verification and sensitivity analysis of minimum spanning trees in linear time. (English summary) **93j:68153**

Djidjev, Hristo N. (*with* Lingas, Andrzej; Sack, Jörg-Rüdiger) An $O(n \log n)$ algorithm for computing the link center of a simple polygon. **93g:52011**

— *see also* **Diks, Krzysztof; et al., 93i:05121**

Dolev, Danny (*with* Feder, Tomás) Determinism vs. nondeterminism in multiparty communication complexity. (English summary) **93i:68019**

Donald, Bruce Randall The complexity of planar compliant motion planning under uncertainty. (English summary) (*see* **93k:68003**)

— (*with* Chang, David Renpan) On the complexity of computing the homology type of a triangulation. (English summary) **93j:68086**

Donini, Francesco M. (*with* Lenzerini, Maurizio; Nardi, Daniele; Hollunder, Bernhard; Nutt, Werner; Marchetti-Spaccamela, Alberto) The complexity of existential quantification in concept languages. **93a:68138**

Downey, Rodney (*with* Fellows, Michael R.) Fixed-parameter tractability and completeness. **93b:05074**

van den Dries, Lou (*with* Holly, Jan) Quantifier elimination for modules with scalar variables. **93e:03045**

Dror, Moshe Openshop scheduling with machine dependent processing times. (English summary) **93h:90047**

Drysdale, R. L. Scot *see* **Dickerson, Matthew T.; et al., 93j:68212**

Du, Jianzhong (*with* Leung, Joseph Y.-T.) Minimizing mean flow time in two-machine open shops and flow shops. (English summary) **93i:90050**

Dubiner, Moshe (*with* Galil, Zvi; Magen, Edith) Faster tree pattern matching. **93a:68048**

Dunbar, Jean (*with* Laskar, Renu C.) Universal and global irredundancy in graphs. (English summary) **93h:05099**

D'yakonov, E. G. ★ Минимизация вычислительной работы. Асимптотически оптимальные алгоритмы для эллиптических задач. (Russian) [Minimization of computational work. Asymptotically optimal algorithms for elliptic problems] **93e:65136**

Dyer, Martin (*with* Frieze, A. M.) Computing the volume of convex bodies: a case where randomness provably helps. **93a:52004**

Edelsbrunner, Herbert *see* **Agarwal, Pankaj K.; et al., 93a:68146**; **Chazelle, Bernard, 93h:68139** *and* **93m:68164**

Edmonds, Jeff (*with* Impagliazzo, Russell; Rudich, Steven; Sgall, Jiří) Communication complexity towards lower bounds on circuit depth. (English summary) **93g:68035**

Edwards, Keith The complexity of some graph colouring problems. **93d:05051**

Egecioglu, Ömer (*with* Koç, Çetin Kaya) A parallel algorithm for generating discrete orthogonal polynomials. **93c:68037**

Eppstein, David Approximating the minimum weight triangulation. **93e:68099**

— New algorithms for minimum area k-gons. (*see* **93b:68005**)

— (*with* Italiano, Giuseppe F.; Tamassia, Roberto; Tarjan, Robert Endre; Westbrook, Jeffery; Yung, Moti) Maintenance of a minimum spanning forest in a dynamic plane graph. **93a:68027**

— *see also* **Chrobak, Marek, 93a:68114**

Eschen, Elaine M. (*with* Spinrad, Jeremy P.) An $O(n^2)$ algorithm for circular-arc graph recognition. **93k:05168**

Esfahanian, Abdol-Hossein *see* **Choi, Hyeong-Ah**

Esparza, Javier A solution to the covering problem for 1-bounded conflict-free Petri nets using linear programming. **93g:68100**

— (*with* Silva, Manuel) A polynomial-time algorithm to decide liveness of bounded free choice nets. **93h:68105**

Evstigneev, V. A. (*with* Kas'yanov, V. N.) ★ Алгоритмы на деревьях. (Russian) [Algorithms on trees] **93i:05122**

Feder, Tomás A new fixed point approach for stable networks and stable marriages. (English summary) **93j:68154**

— *see also* **Dolev, Danny, 93i:68019**

Fellows, Michael R. (*with* Kratochvíl, Jan; Middendorf, Matthias; Pfeiffer, Frank) Induced minors and related problems. (English summary) (*see* **93m:05004**)

— *see also* **Downey, Rodney, 93b:05074**

Ferreira, Afonso G. *see* **Dehne, Frank; et al., 93i:68171**

Fiat, Amos (*with* Foster, Dean P.; Karloff, Howard; Rabani, Yuval; Ravid, Yiftach; Vishwanathan, Sundar) Competitive algorithms for layered graph traversal. (English summary) **93e:68100**

— (*with* Naor, Moni; Schmidt, Jeanette P.; Siegel, Alan) Nonoblivious hashing. (English summary) **93h:68023**

Flajolet, Philippe (*with* Richmond, L. Bruce) Generalized digital trees and their difference-differential equations. **93f:05086**

Fleischer, Rudolf (*with* Sinha, Bhabani P.; Uhrig, Christian) A lower bound for the worst case of bottom-up-heapsort. (English summary) **93j:68042**

— *see also* **Alt, Helmut; et al., 93k:68097**

Fortune, Steven (*with* Wilfong, Gordon) Planning constrained motion. (English summary) **93m:68165**

Foster, Dean P. *see* **Fiat, Amos; et al., 93e:68100**

Frederickson, Greg N. A note on the complexity of a simple transportation problem. (English summary) **93m:90031**

Friedl, Katalin *see* **Babai, László, 93i:68098**

Frieze, A. M. *see* **Dyer, Martin, 93a:52004**

Füredi, Zoltán (*with* Linial, Nathan) A geometric parallel search problem related to group testing. (English summary) **93g:68019**

Fürer, Martin (*with* Raghavachari, Balaji) Approximating the minimum degree spanning tree to within one from the optimal degree. (*see* **93b:68005**)

Gabow, Harold N. (*with* Westermann, Herbert H.) Forests, frames, and games: algorithms for matroid sums and applications. **93f:90133**

— A representation for crossing set families with applications to submodular flow problems. (English summary) **93m:05182**

Gabrani, Naveen (*with* Shankar, Priti) A note on the reconstruction of a binary tree from its traversals.

Galil, Zvi (*with* Giancarlo, Raffaele) On the exact complexity of string matching: lower bounds. **93a:68049**

— (*with* Giancarlo, Raffaele) On the exact complexity of string matching: upper bounds. **93g:68051**

— (*with* Italiano, Giuseppe F.) Fully dynamic algorithms for 2-edge connectivity. (English summary) **93i:68142**

— *see also* **Dubiner, Moshe; et al., 93a:68048** *and* **Breslauer, Dany, 93j:68064**

Gallo, Giovanni (*with* Mishra, Bhubaneswar) Wu-Ritt characteristic sets and their complexity. **93d:68039**

Gao, Shaodi (*with* Jerrum, Mark; Kaufmann, Michael; Mehlhorn, Kurt; Rülling, Wolfgang; Storb, Christoph) On continuous homotopic one layer routing. (English summary) (*see* **93k:68003**)

Garg, Naveen (*with* Santosh, Vempala S.; Singla, Aman) Improved approximation algorithms for biconnected subgraphs via better lower bounding techniques. (English summary) **93k:05169**

Garg, Vijay Kumar Some optimal algorithms for decomposed partially ordered sets. (English summary) **93h:68109**

Gemignani, Luca *see* **Bini, Dario, 93c:65066**

Ghose, S. *see* **Sarkar, U. K.; et al.**

Ghosh, Subir Kumar (*with* Maheshwari, Anil) An optimal parallel algorithm for computing furthest neighbors in a tree. (English summary) **93j:68156**

Giancarlo, Raffaele *see* **Galil, Zvi, 93a:68049** *and* **93g:68051**
Goldberg, Andrew V. A natural randomization strategy for multicommodity flow and related algorithms. (English summary) **93g:90032**
Goldfarb, Donald (*with* Hao, Jianxiu) Polynomial-time primal simplex algorithms for the minimum cost network flow problem. **93f:90060**
Goldmann, Mikael (*with* Håstad, Johan) A simple lower bound for monotone clique using a communication game. **93a:68115**
Goldreich, Oded *see* **Alon, Noga; et al., 93a:65008** *and* **Bar-Yehuda, Reuven; et al.**
Golumbic, Martin Charles (*with* Shamir, Ron) Algorithms and complexity for reasoning about time. (English summary) **93j:68191**
Goodrich, Michael T. (*with* Ó'Dúnlaing, Colm; Yap, Chee-Keng) Constructing the Voronoĭ diagram of a set of line segments in parallel. (English summary) **93m:68167**
Gottlob, Georg Complexity results for nonmonotonic logics. (English summary) **93i:03034**
Govindan, Ramesh *see* **Pandu Rangan, C., 93d:90030**
Granot, Frieda (*with* Skorin-Kapov, Jadranka) On polynomial solvability of the high multiplicity total weighted tardiness problem. (English summary) **93j:90046**
Greenberg, Ronald (*with* Ja'Ja', Joseph; Krishnamurthy, Sridhar) On the difficulty of Manhattan channel routing. (English summary) **93k:68049**
Grigor'ev, D. Yu. (*with* Karpiński, Marek) An approximation algorithm for the number of zeros of arbitrary polynomials over GF[q]. (English summary) **93h:11141**
Grinchuk, M. I. Complexity of realization of symmetric Boolean functions by switching circuits. (Russian) **93a:94043**
Grossi, Roberto Further comments on the subtree isomorphism for ordered trees: "On the subtree isomorphism problem for ordered trees" [Inform. Process. Lett. 32 (1989), no. 5, 271–273; MR 90k:68139] by E. Mäkinen. **93c:68077**
— A note on the subtree isomorphism for ordered trees and related problems. **93e:68101**
— On finding common subtrees. (English summary) **93m:68132**
Guha, Sumanta Parallel computation of internal and external farthest neighbors in simple polygons. **93f:68094**
Guibas, Leonidas J. (*with* Knuth, Donald E.; Sharir, Micha) Randomized incremental construction of Delaunay and Voronoĭ diagrams. **93e:68130**
— *see also* **Chazelle, Bernard; et al., 93m:68164**
Gupta, Arvind (*with* Impagliazzo, Russell) Computing planar intertwines. (English summary) **93e:05091**
Gupta, Naresh (*with* Nau, Dana S.) Complexity results for blocks-world planning. (English summary) **93j:68175**
Gurevich, Yuri Matrix decomposition problem is complete for the average case. **93b:68038**
Gusfield, Dan (*with* Pitt, Leonard) A bounded approximation for the minimum cost 2-sat problem. **93g:03006**
— *see also* **Naor, Dalit; et al., 93b:05153**
Hagihara, Ken'ichi *see* **Park, Jungho; et al., 93c:68010**
Hajnal, Péter An $\Omega(n^{4/3})$ lower bound on the randomized complexity of graph properties. **93a:05118**
Hakimi, S. Louis *see* **Bagchi, Amitava; et al., 93c:68006**
Halldórsson, Magnús M. A still better performance guarantee for approximate graph coloring. (English summary) **93j:05146**
Halperin, Dan (*with* Sharir, Micha) Improved combinatorial bounds and efficient techniques for certain motion planning problems with three degrees of freedom. **93d:68068**
— (*with* Overmars, Mark H.; Sharir, Micha) Efficient motion planning for an L-shaped object. **93a:68150**
Hambrusch, Susanne E. *see* **Apostolico, Alberto; et al., 93b:05151**
Han, Ching-Chih (*with* Lin, Kwei-Jay) Scheduling real-time computations with separation constraints. **93c:90037**
Han, Xiaofeng (*with* Kelsen, Pierre; Ramachandran, Vijaya; Tarjan, Robert Endre) Computing minimal spanning subgraphs in linear time. **93e:05092**
Han, Yijie (*with* Igarashi, Yoshihide; Truszczyński, Miroslaw) Indexing functions and time lower bounds for sorting on a mesh-connected computer. **93b:68014**
— (*with* Narahari, Bhagirath; Choi, Hyeong-Ah) Mapping a chain task to chained processors. (English summary) **93j:68022**
Hansen, Pierre (*with* Hertz, Alain; Kuplinsky, Julio) Bounded vertex colorings of graphs. (English summary) **93j:05057**
Hao, Jianxiu *see* **Goldfarb, Donald, 93f:90060**
Harary, Frank *see* **Banerjee, Subhankar, 93h:05105**
Hartvigsen, David (*with* Zemel, Eitan) The complexity of lifted inequalities for the knapsack problem. (English summary) **93j:90066**
Håstad, Johan *see* **Alon, Noga; et al., 93a:65008** *and* **Goldmann, Mikael, 93a:68115**
Hattingh, Johannes H. (*with* Henning, Michael A.; Walters, Jakobus L.) On the computational complexity of upper distance fractional domination. (English summary) **93k:05170**
Heath, Lenwood S. (*with* Istrail, Sorin) The pagenumber of genus g graphs is $O(g)$. (English summary) **93k:05171**
— (*with* Rosenberg, Arnold L.) Laying out graphs using queues. (English summary) **93j:68157**
Hecker, Hans-Dietrich *see* **Böttcher, Ralf, 93i:68169**
Heiman, Rafi (*with* Wigderson, Avi) Randomized vs. deterministic decision tree complexity for read-once Boolean functions. **93j:68059**
Heintz, Joos (*with* Recio Muñiz, Tomás J.; Roy, Marie-Françoise) Algorithms in real algebraic geometry and applications to computational geometry. **93f:14029**
Hekstra, A. *see* **Berger, Toby; et al., 93j:68082**
Hell, Pavol (*with* Nešetřil, Jaroslav) The core of a graph. (English summary) **93m:05163**
— (*with* Kirkpatrick, David G.) Algorithms for degree constrained graph factors of minimum deficiency. (English summary) **93m:68133**
Henning, Michael A. *see* **Hattingh, Johannes H.; et al., 93k:05170**
Hershberger, John Minimizing the sum of diameters efficiently. (English summary) **93i:68173**
— Upper envelope onion peeling. (English summary) **93i:68174**
Hertz, Alain *see* **Hansen, Pierre; et al., 93j:05057**
Hoàng, Chính T. A parallel algorithm for minimum weighted colouring of triangulated graphs. **93m:05183**
Hobby, David Finding type sets is NP-hard. **93d:08008**
Hofbauer, Dieter Termination proofs by multiset path ordering simply primitive recursive derivation lengths. (English summary) **93h:68068**
Hollunder, Bernhard *see* **Donini, Francesco M.; et al., 93a:68138**
Holly, Jan *see* **van den Dries, Lou, 93e:03045**
Horiuchi, Kazuo *see* **Makino, Mitsunori; et al., 93b:65078**
Horton, S. B. (*with* Parker, R. Gary) On some results pertaining to Halin graphs. (English summary) **93j:05129**
Hromkovič, Juraj (*with* Lozhkin, S. A.; Rybko, A. I.; Sapozhenko, A. A.; Shkalikova, N. A.) Lower bounds on the area complexity of Boolean circuits. **93g:68042**
Hsiao, Ju Yuan (*with* T'ang, Ch'uan I; Chang, Jui Hsiung) An efficient algorithm for finding a maximum weight 2-independent set on interval graphs. **93g:05130**
Hsu, D. Frank *see* **Cheng, Ying; et al., 93m:68013**
Hsu, F. R. (*with* Lee, R. C. T.; Chang, Ruei Chuan) Special subgraphs of weighted visibility graphs. **93g:68137**
Hsu, Wen-Lian (*with* Tsai, Kuo-Hui) Linear time algorithms on circular-arc graphs. **93a:68117**
— *see also* **Shih, Wei Kuan; et al., 93h:05158**
Hu, Jie *see* **Dekel, Eliezer; et al., 93h:05151**
Huang, Nen Fu On the complexity of two circle strongly connecting problems. (English summary) **93h:05152**
Huang, Shou-Hsuan Stephen (*with* Liu, Hong Fei; Viswanathan, Venkatraman) A sublinear parallel algorithm for some dynamic programming problems. (English summary) **93j:90124**
Hujter, M. *see* **Bíró, M.; et al., 93d:05049**
Huttenlocher, Daniel P. (*with* Kedem, Klara; Kleinberg, Jon M.) Voronoĭ diagrams of rigidly moving sets of points. (English summary) **93k:68102**
Huỳnh, Dũng T. Efficient detectors and constructors for simple languages. **93b:68043**
Hwang, F. K. *see* **Cheng, Ying; et al., 93m:68013**
Hwang, R. Z. (*with* Lee, R. C. T.; Chang, Ruei Chuan) The slab dividing approach to solve the Euclidean P-center problem. (English summary) **93k:68103**
— (*with* Chang, Ruei Chuan; Lee, R. C. T.) The searching over separators strategy to solve some NP-hard problems in subexponential time. (English summary) **93m:65189**
Ibaraki, Toshihide *see* **Nagamochi, Hiroshi, 93d:05096** *and* **93d:05098**
Igarashi, Yoshihide *see* **Han, Yijie; et al., 93b:68014**
Igoshin, V. I. ★ Математическая логика и теория алгоритмов. (Russian. Russian summary) [Mathematical logic and the theory of algorithms] **93m:03002**
Impagliazzo, Russell *see* **Gupta, Arvind, 93e:05091** *and* **Edmonds, Jeff; et al., 93g:68035**
Istrail, Sorin *see* **Heath, Lenwood S., 93k:05171**
Itai, Alon *see* **Bar-Yehuda, Reuven; et al.**
Italiano, Giuseppe F. *see* **Eppstein, David; et al., 93a:68027** *and* **Galil, Zvi, 93i:68142**
Jaillet, Patrick Shortest path problems with node failures. (English summary) **93g:90037**
Ja'Ja', Joseph *see* **Greenberg, Ronald; et al., 93k:68049**
Jamison, Beverly (*with* Olariu, Stephan) Recognizing P_4-sparse graphs in linear time. **93c:68078**
Janardan, Ravi *see* **Cheng, Siu Wing, 93k:68099**
Jansen, Klaus The interconnection problem. (English summary) **93k:68009**
Jerrum, Mark *see* **Gao, Shaodi; et al., (93k:68003)**
Jones, Curt *see* **Bui, Thang Nguyen, 93h:68111**
Jones, James P. Computational complexity of computing winning strategies in polynomial games. (Chinese summary) **93a:03039**
Joseph, Deborah *see* **Das, Gautam, 93j:68211**
Judd, J. Stephen Domination and perpetual evasiveness. (English summary) **93m:05185**
Jung, Hermann *see* **Baumgarten, Hanna; et al., (93b:68005)**
Just, Bettina Generalizing the continued fraction algorithm to arbitrary dimensions. (English summary) **93k:11065**
Kaldewaij, Anne ★ Programming. **93a:68001**
Kamakoti, V. (*with* Pandu Rangan, C.) An optimal algorithm for reconstructing a binary tree.
Kamburowski, Jerzy *see* **Bein, Wolfgang W.; et al., 93j:68152**
Kameda, Tsunehiko *see* **Pilarski, Slawomir, 93k:60169**
Kaminski, Michael *see* **Averbuch, Amir; et al., 93k:68051**
Kandlur, Dilip D. (*with* Shin, Kang G.) Traffic routing for multicomputer networks with virtual cut-through capability. (English summary)
Kannan, Sampath K. (*with* Warnow, Tandy J.) Triangulating 3-colored graphs. **93j:05147**
Kantor, William M. Notes on polynomial-time group theory. **93k:20006**
Kapoor, Sanjiv (*with* Ramesh, H.) Algorithms for generating all spanning trees of undirected, directed and weighted graphs. (English summary) (*see* **93b:68006**)
Kapralski, A. Problems of inclusion and equivalence of digital systems. **93f:68027**
Kapur, Deepak (*with* Narendran, Paliath) Complexity of unification problems with associative-commutative operators. (English summary) **93h:68123**
Karger, David R. (*with* Koller, Daphne; Phillips, Steven J.) Finding the hidden path: time bounds for all-pairs shortest paths. (English summary) **93e:05093**
— Global min-cuts in RNC, and other ramifications of a simple min-cut algorithm. (English summary) **93m:68134**
Karlander, Johan *see* **Björner, Anders; et al., 93f:94001**
Karloff, Howard *see* **Fiat, Amos; et al., 93e:68100**
Karpiński, Marek *see* **Grigor'ev, D. Yu., 93h:11141**
Kashiwagi, Masahide *see* **Makino, Mitsunori; et al., 93b:65078**
Kasif, Simon *see* **Delcher, Arthur L., 93m:68064**
Kas'yanov, V. N. *see* **Evstigneev, V. A., 93i:05122**
Katona, Gyula Y. Searching for f-Hamiltonian circuits. (English summary) **93e:05064**
Kaufmann, Michael (*with* Maley, F. Miller) Parity conditions in homotopic knock-knee routing. (English summary) **93j:68159**
— *see also* **Alt, Helmut; et al., 93k:68097** *and* **Gao, Shaodi; et al., (93k:68003)**
Kedem, Klara *see* **Huttenlocher, Daniel P.; et al., 93k:68102**
Keil, J. Mark (*with* Schaefer, Doug) An optimal algorithm for finding dominating cycles in circular-arc graphs. **93c:05105**
Kelsen, Pierre *see* **Han, Xiaofeng; et al., 93e:05092**
Kézdy, André (*with* McGuinness, Patrick) Sequential and parallel algorithms to find a K_5 minor. **93e:05095**

(Khrapchenko, V. M.) *see* **Nigmatullin, R. G., 93e:94021**

Khuller, Samir (*with* Mitchell, Stephen G.; Vazirani, Vijay V.) Processor efficient parallel algorithms for the two disjoint paths problem and for finding a Kuratowski homeomorph. **93c:05106**

Kimbrel, Tracy (*with* Sinha, Rakesh Kumar) A probabilistic algorithm for verifying matrix products using $O(n^2)$ time and $\log_2 n + O(1)$ random bits.

Kirkpatrick, David G. (*with* Klawe, Maria M.; Tarjan, Robert Endre) Polygon triangulation in $O(n \log\log n)$ time with simple data structures. **93c:68101**

— *see also* **Hell, Pavol, 93m:68133**

(Kirschenhofer, Peter) *see* **Andersson, Arne, 93k:68021**

Klawe, Maria M. (*with* Mumey, Brendan) Upper and lower bounds on constructing alphabetic binary trees. (English summary) **93m:68135**

— *see also* **Kirkpatrick, David G.; et al., 93c:68101**

Klein, Philip (*with* Stein, Clifford) A parallel algorithm for approximating the minimum cycle cover. (English summary) **93k:68040**

Kleinberg, Jon M. *see* **Huttenlocher, Daniel P.; et al., 93k:68102**

Kleine Büning, H. *see* **Stamm-Wilbrandt, H., 93g:68132**

Knuth, Donald E. Efficient representation of perm groups. **93a:20009**

— *see also* **Guibas, Leonidas J.; et al., 93c:68130**

Ko, Ker-I (*with* Tzeng, Wen-Guey) Three Σ_2^p-complete problems in computational learning theory. **93h:68121**

Koç, Çetin Kaya *see* **Eğecioğlu, Ömer, 93c:68037**

Koller, Daphne *see* **Karger, David R.; et al., 93e:05093**

Korach, Ephraim (*with* Tal, Ady) General vertex disjoint paths in series-parallel graphs. (English summary) **93k:05172**

Korst, Jan ★ Periodic multiprocessor scheduling.

Kratochvíl, Jan (*with* Nešetřil, Jaroslav; Zýka, Ondřej) On the computational complexity of Seidel's switching. (English summary) **93j:05156**

— (*with* Poljak, Svatopluk) Compatible 2-factors. **93i:05100**

— *see also* **Fellows, Michael R.; et al., (93m:05004)**

Kratsch, Dieter *see* **Bodlaender, Hans L., 93h:90126**

van Kreveld, Marc *see* **de Berg, Mark T.; et al., 93j:68208**

Krishnamurthy, Sridhar *see* **Greenberg, Ronald; et al., 93k:68049**

Krithivasan, Kamala *see* **Datta, Amitava; et al.**

Křivánek, Mirko Algorithmic and geometric aspects of cluster analysis. **93e:65022**

Kubale, Marek Some results concerning the complexity of restricted colorings of graphs. **93d:05053**

Kulkarni, K. H. *see* **Sprague, Alan P., 93c:68038**

Kunde, Manfred Concentrated regular data streams on grids: sorting and routing near to the bisection bound. (English summary) (*see* **93d:68005**)

— Packet routing on grids of processors. (English summary) **93j:68016**

Kuplinsky, Julio *see* **Hansen, Pierre; et al., 93j:05057**

Kur'erov, Yu. N. On an estimate for the length of a random deduction search tree in multimessage calculi of general type. (Russian. English and Ukrainian summaries) **93h:68125**

(Kuznetsov, S. E.) *see* **Nigmatullin, R. G., 93e:94021**

Kuzyurin, N. N. A parallel algorithm of complexity $O(\log^2 n)$ for a problem on balancing sets. (Russian) **93d:68028**

Lagergren, Jens An upper bound on the size of an obstruction. (English summary) (*see* **93m:05004**)

Laskar, Renu C. *see* **Dunbar, Jean, 93h:05099**

Lassez, Jean-Louis (*with* McAloon, K. W.) A canonical form for generalized linear constraints. **93f:68082**

Lee, Chung-Yee (*with* Liman, Surya Danusaputro) Capacitated two-parallel machines scheduling to minimize sum of job completion times. (English summary) **93i:90054**

Lee, R. C. T. *see* **Hsu, F. R.; et al., 93g:68137**; **Hwang, R. Z.; et al., 93k:68103** *and* **93m:65189**

Lenzerini, Maurizio *see* **Donini, Francesco M.; et al., 93a:68138**

Leung, Joseph Y.-T. *see* **Du, Jianzhong, 93i:90050**

Levine, David B. *see* **Bentley, Jon Louis; et al., 93m:68161**

Li, Chung-Lun (*with* McCormick, S. Thomas; Simchi-Levi, David) The point-to-point delivery and connection problems: complexity and algorithms. **93c:90031**

— (*with* McCormick, S. Thomas; Simchi-Levi, David) On the minimum-cardinality-bounded-diameter and the bounded-cardinality-minimum-diameter edge addition problems. (English summary) **93i:68144**

Liang, Y. Daniel (*with* Rhee, Chongkye) Finding a maximum matching in a circular-arc graph. (English summary) **93k:05132**

Lim, Andrew *see* **Chee, Yeow Meng, 93g:68106**

Liman, Surya Danusaputro *see* **Lee, Chung-Yee, 93i:90054**

Lin, Jyh-Han (*with* Vitter, Jeffrey Scott) Approximation algorithms for geometric median problems. (English summary) **93m:05187**

Lin, Kao Cheng (*with* Chern, Maw Sheng) The most vital edges in the minimum spanning tree problem. (English summary) **93m:68136**

Lin, Kwei-Jay *see* **Han, Ching-Chih, 93c:90037**

Lindell, Steven The invariant problem for binary string structures and the parallel complexity theory of queries. **93h:68048**

Lindström, Bernt *see* **Björner, Anders; et al., 93f:94001**

Lingas, Andrzej *see* **Djidjev, Hristo N.; et al., 93g:52011**

Linial, Nathan *see* **Borodin, Allan; et al., 93g:68008** *and* **Füredi, Zoltán, 93g:68019**

Liu, Hong Fei *see* **Huang, Shou-Hsuan Stephen; et al., 93j:90124**

Liu, Wei Yi An efficient algorithm for processing multi-relation queries in relational databases. **93h:68033**

Lobstein, Antoine-C. *see* **Barthélémy, Jean-Pierre; et al., 93h:68046**

Logachev, A. S. A recursive algorithm for decoding some subsets of first-order Reed-Muller codes. (Russian. Russian summary) **93f:94025**

Lotti, Grazia Fast solution of linear systems with polynomial coefficients over the ring of integers. (English summary) **93m:65192**

Lou, R. D. *see* **Sarrafzadeh, Majid, 93j:68084**

Louchard, G. Robust variations of interpolation search: an asymptotic analysis. (German summary) **93c:68017**

Lozhkin, S. A. *see* **Hromkovič, Juraj; et al., 93g:68042**

Lozinskii, Eliezer L. Counting propositional models. **93a:03040**

Luccio, Fabrizio *see* **De Iaco, Bettina, 93m:68140**

Lundelius Welch, Jennifer *see* **Coan, Brian A., 93a:68012**

Ma, Shao Han (*with* Yu, Hui Zhen) Approximation algorithms for nonconvex covering problems. (Chinese. English summary) **93b:05037**

Magen, Edith *see* **Dubiner, Moshe; et al., 93a:68048**

Maheshwari, Anil *see* **Ghosh, Subir Kumar, 93j:68156**

Maier, Robert S. A path integral approach to data structure evolution. **93a:68028**

Makedon, Fillia (*with* Sheinwald, Dafna; Wolfstahl, Yaron) A simple linear-time algorithm for the recognition of bandwidth-2 biconnected graphs. (English summary) **93m:05188**

(Mäkinen, Erkki) *see* **Grossi, Roberto, 93c:68077**

Makino, Mitsunori (*with* Oishi, Shin'ichi; Kashiwagi, Masahide; Horiuchi, Kazuo) Computational complexity of the homotopy method for calculating solutions of strongly monotonic resistive circuit equations. **93b:65078**

Maley, F. Miller *see* **Kaufmann, Michael, 93j:68159**

Manber, Udi ★ Introduction to algorithms. **93a:68002**

Mannila, Heikki (*with* Räihä, Kari-Jouko) On the complexity of inferring functional dependencies. (English summary) **93i:68052**

Mansour, Yishay (*with* Schieber, Baruch) The intractability of bounded protocols for on-line sequence transmission over non-FIFO channels. (English summary) **93h:68008**

Marchetti-Spaccamela, Alberto *see* **Donini, Francesco M.; et al., 93a:68138**

Markowsky, George Ordering D-classes and computing Schein rank is hard. **93d:20116**

Martel, Charles *see* **Naor, Dalit; et al., 93b:05153**

Masuzawa, Toshimitsu *see* **Park, Jungho; et al., 93c:68010**

Mathé, Peter Random approximation of Sobolev embeddings. **93d:65008**

Matoušek, Jiří (*with* Miller, Nathaly; Pach, János; Sharir, Micha; Sifrony, Shmuel; Welzl, Emo) Fat triangles determine linearly many holes. (English summary) **93i:68180**

— Spanning trees with low crossing number. (French summary) **93a:68154**

— Reporting points in halfspaces. (English summary) **93i:68181**

— On vertical ray shooting in arrangements. (English summary) **93m:68175**

— *see also* **Agarwal, Pankaj K., 93i:68166**

Matula, David W. A linear time $2 + \varepsilon$ approximation algorithm for edge connectivity. (English summary) **93k:05174**

Mayr, Ernst W. Polynomial ideals and applications. (English summary) **93e:13047**

McAloon, K. W. *see* **Lassez, Jean-Louis, 93f:68082**

McCormick, S. Thomas *see* **Li, Chung-Lun; et al., 93c:90031** *and* **93i:68144**

McGuinness, Patrick *see* **Kézdy, André, 93e:05095**

McIlroy, Peter Optimistic sorting and information-theoretic complexity. (English summary) (*see* **93k:05002**)

McKenna, Michael (*with* O'Rourke, Joseph) Arrangements of lines in 3-space: a data structure with applications. (English summary) (*see* **93k:68003**)

Mehlhorn, Kurt (*with* Sharir, Micha; Welzl, Emo) Tail estimates for the space complexity of randomized incremental algorithms. (*see* **93b:68005**)

— *see also* **Alt, Helmut; et al., 93k:68097**; **Baumgarten, Hanna; et al., (93b:68005)** *and* **Gao, Shaodi; et al., (93k:68003)**

Middendorf, Matthias (*with* Pfeiffer, Frank) Weakly transitive orientations, Hasse diagrams and string graphs. (English summary) **93j:05071**

— *see also* **Fellows, Michael R.; et al., (93m:05004)**

Mihail, Milena (*with* Winkler, Peter M.) On the number of Eulerian orientations of a graph. **93f:05059**

Miller, Gary L. (*with* Teng, Shang-Hua; Vavasis, Stephen A.) A unified geometric approach to graph separators. (English summary) **93e:05096**

— (*with* Ramachandran, Vijaya) A new graph triconnectivity algorithm and its parallelization. **93k:05175**

Miller, Nathaly *see* **Matoušek, Jiří; et al., 93i:68180**

Miller, Zevi (*with* Perkel, Manley) The Steiner problem in the hypercube. **93d:05095**

(Minoux, Michel) *see* **Barthélémy, Jean-Pierre; et al., 93h:68046**

Mirzaian, Andranik Hamiltonian triangulations and circumscribing polygons of disjoint line segments. (English summary) **93m:68176**

Mishra, Bhubaneswar (*with* Tarjan, Robert Endre) A linear-time algorithm for finding an ambitus. **93d:05144**

— *see also* **Gallo, Giovanni, 93d:68039**

Mitas, Jutta Tackling the jump number of interval orders. **93j:06003**

Mitchell, Joseph S. B. A new algorithm for shortest paths among obstacles in the plane. (English summary) **93m:68178**

— (*with* Suri, Subhash) Separation and approximation of polyhedral objects. **93f:68097**

Mitchell, Stephen G. *see* **Khuller, Samir; et al., 93c:05106**

Mohar, Bojan 7-critical graphs of bounded genus. (English summary) **93k:05051**

Moran, Shlomo (*with* Warmuth, Manfred K.) Gap theorems for distributed computation. (English summary) **93m:68018**

Morpurgo, Anna *see* **Campadelli, Paola, 93h:68119**

Mota, E. *see* **Benavent López, Enrique; et al., 93h:90032**

Mulder, J. C. (*with* Weijland, W. P.) Verification of an algorithm for log-time sorting by square comparison. (*see* **93g:68090**)

Muller, David E. (*with* Saoudi, Ahmed; Schupp, Paul E.) Alternating automata, the weak monadic theory of trees and its complexity. **93h:03058**

Mumey, Brendan *see* **Klawe, Maria M., 93m:68135**

Myrvold, Wendy J. Counting k-component forests of a graph. (English summary) **93h:05154**

Nagamochi, Hiroshi (*with* Ibaraki, Toshihide) A linear-time algorithm for finding a sparse k-connected spanning subgraph of a k-connected graph. **93d:05096**

— (*with* Ibaraki, Toshihide) Computing edge-connectivity in multigraphs and capacitated graphs. **93d:05098**

Näher, Stefan *see* **Alt, Helmut; et al., 93k:68097**

Naor, Dalit (*with* Gusfield, Dan; Martel, Charles) A fast algorithm for optimally increasing the edge-connectivity. **93b:05153**

Naor, Moni *see* **Fiat, Amos; et al., 93h:68023**

Narahari, Bhagirath *see* **Han, Yijie; et al., 93j:68022**

Nardi, Daniele *see* **Donini, Francesco M.; et al., 93a:68138**

Narendran, Paliath *see* **Kapur, Deepak, 93h:68123**

Nau, Dana S. *see* **Gupta, Naresh**, 93j:68175
Nemirovskiĭ, A. S. *see* **Nesterov, Yu.**, 93b:90062
Nešetřil, Jaroslav *see* **Kratochvíl, Jan; et al.**, 93j:05156 *and* **Hell, Pavol**, 93m:05163
Nesterov, Yu. (*with* Nemirovskiĭ, A. S.) Acceleration and parallelization of the path-following interior point method for a linearly constrained convex quadratic problem. **93b:90062**
Ng, Chung W. (*with* Young, Gilbert H.) Minimizing maximal weighted earliness and tardiness about a common due date. (English summary) **93j:90044**
Nigmatullin, R. G. ★ Сложность булевых функций. (Russian) [Complexity of Boolean functions] **93e:94021**
Nilsson, Bengt J. *see* **de Berg, Mark T.; et al.**, 93j:68208
Nisan, Noam *see* **Babai, László; et al.**, 93m:68048
Novak, Erich (*with* Woźniakowski, Henryk) Relaxed verification for continuous problems. **93f:65103**
Ntafos, Simeon Watchman routes under limited visibility. **93a:68155**
Nurlybaev, A. N. A class of Boolean equations. (Russian) **93d:06014**
(Nurmeev, N.) *see* **Nigmatullin, R. G.**, 93e:94021
Nutt, Werner *see* **Donini, Francesco M.; et al.**, 93a:68138
Ó'Dúnlaing, Colm *see* **Goodrich, Michael T.; et al.**, 93m:68167
Oishi, Shin'ichi *see* **Makino, Mitsunori; et al.**, 93b:65078
Okol'nishnikova, E. A. Lower bounds on complexity for the realization of characteristic functions of binary codes by binary programs. (Russian. Russian summary) **93m:94028**
Olariu, Stephan (*with* Schwing, James L.; Zhang, Jingyuan) Optimal parallel encoding and decoding algorithms for trees. **93m:68065**
— *see also* **Jamison, Beverly**, 93c:68078
Orlin, James B. A faster strongly polynomial minimum cost flow algorithm. (English summary)
Orlitsky, Alon *see* **Berger, Toby; et al.**, 93j:68082
O'Rourke, Joseph *see* **Aronov, Boris**, 93h:68135 *and* **McKenna, Michael**, (93k:68003)
Ouyang, Wen *see* **Dekel, Eliezer; et al.**, 93h:05151
Overmars, Mark H. *see* **Halperin, Dan; et al.**, 93a:68150; **de Berg, Mark T.; et al.**, 93e:68127 *and* 93j:68208
Pach, János *see* **Matoušek, Jiří; et al.**, 93i:68180
Palis, Michael A. (*with* Shende, Sunil M.) Upper bounds on recognition of a hierarchy of non-context-free languages. **93c:68058**
Pan, Victor Complexity of computations with matrices and polynomials. **93g:65179**
Pandu Rangan, C. (*with* Govindan, Ramesh) An $O(n \log n)$ algorithm for a maxmin location problem. **93d:90030**
— *see also* **Arvind, K.**, 93b:68067; **Srinivasan, Aravind**, 93b:68071; **Ramprasad, P. B.**, 93m:05189 *and* **Kamakoti, V.**
Pardalos, Panos M. (*with* Vavasis, Stephen A.) Open questions in complexity theory for numerical optimization.
Park, Jungho (*with* Hagihara, Ken'ichi; Tokura, Nobuki; Masuzawa, Toshimitsu) Efficient distributed algorithm to solve updating minimum spanning tree problem. **93c:68010**
Parker, R. Gary *see* **Borie, Richard B.; et al.**, 93d:03017 *and* **Horton, S. B.**, 93j:05129
Parshina, N. A. The satisfiability problem: some polynomial CNF classes. (Russian. English and Ukrainian summaries) **93j:03023**
Pearl, Judea *see* **Dechter, Rina**, 93j:68201
Pelagatti, Susanna *see* **Antonelli, Silvano**, 93k:68029
Peng, Shen Lung (*with* Chang, Maw Shang) A simple linear time algorithm for the domatic partition problem on strongly chordal graphs. (English summary) **93g:68108**
Peralta, René *see* **Alon, Noga; et al.**, 93a:65008
Perkel, Manley *see* **Miller, Zevi**, 93d:05095
Pevzner, Pavel A. Multiple alignment, communication cost, and graph matching. (English summary) **93j:92024**
Pfeiffer, Frank *see* **Middendorf, Matthias**, 93j:05071 *and* **Fellows, Michael R.; et al.**, (93m:05004)
Phillips, Steven J. *see* **Karger, David R.; et al.**, 93e:05093
Pilarski, Sławomir (*with* Kameda, Tsunehiko) Simple bounds on the convergence rate of an ergodic Markov chain. (English summary) **93k:60169**
Pitt, Leonard *see* **Gusfield, Dan**, 93g:03006
Plaskota, L. Function approximation and integration on the Wiener space with noisy data. (English summary) **93m:65016**
Poljak, Svatopluk *see* **Kratochvíl, Jan**, 93i:05100
Pouzet, Maurice (*with* Woodrow, Robert; Zaguia, Nejib) Generating boxes from ordered sets and graphs. (English summary) **93m:06007**
Preparata, Franco P. (*with* Tamassia, Roberto) Efficient point location in a convex spatial cell-complex. **93c:68104**
— *see also* **Chiang, Yi-Jen; et al.**, (93k:05002)
Prodinger, Helmut External internal nodes in digital search trees via Mellin transforms. (English summary) **93i:68047**
— *see also* **Andersson, Arne**, 93k:68021
Pudlák, Pavel (*with* Rödl, Vojtěch) A combinatorial approach to complexity. (English summary) **93m:68054**
Rabani, Yuval *see* **Fiat, Amos; et al.**, 93e:68100
Raghavachari, Balaji *see* **Fürer, Martin**, (93b:68005)
Räihä, Kari-Jouko *see* **Mannila, Heikki**, 93i:68052
Rais, Bonita *see* **Devroye, Luc; et al.**, 93a:68026
Rajasekaran, Sanguthevar (*with* Reif, John H.) Nested annealing: a provable improvement to simulated annealing. **93b:90055**
Ramachandran, Vijaya *see* **Han, Xiaofeng; et al.**, 93e:05092 *and* **Miller, Gary L.**, 93k:05175
Ramaiyer, Viswanathan *see* **Berman, Piotr**, (93b:68005)
Ramesh, H. *see* **Kapoor, Sanjiv**, (93b:68006)
Ramkumar, G. D. S. *see* **Datta, Amitava; et al.**
Ramprasad, P. B. (*with* Pandu Rangan, C.) A linear algorithm for the all-bidirectional-edges problem on planar graphs. (English summary) **93m:05189**
Rauch, Monika *see* **Dixon, Brandon; et al.**, 93j:68153
Rau-Chaplin, Andrew *see* **Dehne, Frank; et al.**, 93i:68171
Ravid, Yiftach *see* **Fiat, Amos; et al.**, 93e:68100
Raz, Ran (*with* Wigderson, Avi) Monotone circuits for matching require linear depth. (English summary) **93m:68055**
Recio Muñiz, Tomás J. *see* **Heintz, Joos; et al.**, 93f:14029
Rego, Vernon Naive asymptotics for hitting time bounds in Markov chains. (English summary) **93h:60109**
Reif, John H. (*with* Sen, Sandeep) Optimal parallel randomized algorithms for three-dimensional convex hulls and related problems. **93f:68038**
— *see also* **Rajasekaran, Sanguthevar**, 93b:90055
Reischuk, Rüdiger (*with* Schmeltz, Bernd) Reliable computation with noisy circuits and decision trees—a general $n \log n$ lower bound. (English summary) **93h:68041**
Renegar, James Computational complexity of solving real algebraic formulae. **93a:65189**
— (*with* Shub, Michael) Unified complexity analysis for Newton LP methods. **93a:90038**
Ressler, Eugene K. Random list permutations in place. (English summary) **93g:68016**
Rhee, Chongkye *see* **Liang, Y. Daniel**, 93k:05132
Rhee, WanSoo T. (*with* Talagrand, Michel) Packing random items of three colors. (English summary) **93i:60020**
Richmond, L. Bruce *see* **Flajolet, Philippe**, 93f:05086
Rödl, Vojtěch *see* **Pudlák, Pavel**, 93m:68054
Rosenberg, Arnold L. *see* **Heath, Lenwood S.**, 93j:68157
Rosenkrantz, Daniel J. *see* **Yu, Lin**, 93i:68057
Roy, Marie-Françoise *see* **Heintz, Joos; et al.**, 93f:14029
Rudich, Steven *see* **Edmonds, Jeff; et al.**, 93g:68035
Rülling, Wolfgang *see* **Gao, Shaodi; et al.**, (93k:68003)
Ruppert, Jim (*with* Seidel, Raimund) On the difficulty of triangulating three-dimensional nonconvex polyhedra. **93g:68144**
Rybko, A. I. *see* **Hromkovič, Juraj; et al.**, 93g:68042
Sack, Jörg-Rüdiger *see* **Djidjev, Hristo N.; et al.**, 93g:52011 *and* **Dickerson, Matthew T.; et al.**, 93j:68212
Sagiv, Yehoshua (*with* Saraiya, Yatin) Minimizing restricted-fanout queries. (English summary) **93i:68055**
Saks, Michael E. *see* **Borodin, Allan; et al.**, 93g:68008
Sankaranarayana, Ramesh S. (*with* Stewart, Lorna K.) Complexity results for well-covered graphs. **93d:05145**
Santosh, Vempala S. *see* **Garg, Naveen; et al.**, 93k:05169
Saoudi, Ahmed *see* **Muller, David E.; et al.**, 93h:03058
Sapozhenko, A. A. *see* **Hromkovič, Juraj; et al.**, 93g:68042
Saraiya, Yatin *see* **Sagiv, Yehoshua**, 93i:68055
Sarkar, Dilip (*with* Stojmenović, Ivan) Parallel algorithms for separation of two sets of points and recognition of digital convex polygons. (English summary) **93m:68180**
Sarkar, U. K. (*with* Chakrabarti, P. P.; Ghose, S.; De Sarkar, S. C.) A simple 0.5-bounded greedy algorithm for the 0/1 knapsack problem.
Sarrafzadeh, Majid (*with* Wong, Chak Kuen) Bottleneck Steiner trees in the plane. **93c:68080**
— (*with* Lou, R. D.) Maximum k-covering of weighted transitive graphs with applications. (English summary) **93j:68084**
Savel'ev, A. A. A criterion for completeness of systems of operations in programs with finite memory. (Russian) **93i:68034**
Schaefer, Doug *see* **Keil, J. Mark**, 93c:05105
Schieber, Baruch *see* **Mansour, Yishay**, 93h:68008
Schirra, Stefan *see* **Alt, Helmut; et al.**, 93k:68097
Schmeichel, Edward *see* **Bagchi, Amitava; et al.**, 93c:68006
Schmeltz, Bernd *see* **Reischuk, Rüdiger**, 93h:68041
Schmidt, Jeanette P. *see* **Fiat, Amos; et al.**, 93h:68023
Schupp, Paul E. *see* **Muller, David E.; et al.**, 93h:03058
Schwarz, Christian (*with* Smid, Michiel) An $O(n \log n \log \log n)$ algorithm for the on-line closest pair problem. (*see* **93b:68005**)
Schwarzkopf, Otfried *see* **Agarwal, Pankaj K.; et al.**, 93a:68146
Schwing, James L. *see* **Olariu, Stephan; et al.**, 93m:68065
Seidel, Raimund *see* **Ruppert, Jim**, 93g:68144
Sen, Sandeep *see* **Reif, John H.**, 93f:68038
Servatius, Brigitte *see* **Shi, Wei Geng**, 93d:94033
Sgall, Jiří *see* **Edmonds, Jeff; et al.**, 93g:68035
Shahrokhi, Farhad *see* **Clark, L. H.; et al.**, 93b:68069
Shamir, Ron *see* **Golumbic, Martin Charles**, 93j:68191
Shankar, Priti *see* **Gabrani, Naveen**
Sharir, Micha *see* **Halperin, Dan; et al.**, 93a:68150; 93d:68068; **Guibas, Leonidas J.; et al.**, 93e:68130; **Matoušek, Jiří; et al.**, 93i:68180; **Chazelle, Bernard; et al.**, 93j:68209; **Agarwal, Pankaj K.**, 93m:68159 *and* **Mehlhorn, Kurt; et al.**, (93b:68005)
Sheinwald, Dafna *see* **Makedon, Fillia; et al.**, 93m:05188
Shen, Hong^2 A universal algorithm for parallel k-selection in hypercubes. (English summary) **93i:68081**
Shende, Sunil M. *see* **Palis, Michael A.**, 93c:68058
Shermer, Thomas C. *see* **Belleville, Patrice**, 93m:68160
Shi, Wei Geng (*with* Servatius, Brigitte) Improving the reliability of computer communication networks. **93d:94033**
Shih, Wei Kuan (*with* Chern, T. C.; Hsu, Wen-Lian) An $O(n^2 \log n)$ algorithm for the Hamiltonian cycle problem on circular-arc graphs. (English summary) **93h:05158**
Shin, Kang G. *see* **Kandlur, Dilip D.**
Shkalikova, N. A. *see* **Hromkovič, Juraj; et al.**, 93g:68042
Shokrollahi, Mohammad Amin Optimal algorithms for multiplication in certain finite fields using elliptic curves. (English summary) **93m:11138**
Shoup, Victor Fast construction of irreducible polynomials over finite fields. (English summary) **93m:11139**
Shub, Michael *see* **Renegar, James**, 93a:90038
Shvaytser, Haim *see* **Bergen, James R.**, 93e:65005
Siegel, Alan *see* **Fiat, Amos; et al.**, 93h:68023
Sifrony, Shmuel *see* **Matoušek, Jiří; et al.**, 93i:68180
Silva, Manuel *see* **Esparza, Javier**, 93h:68105
Silverman, Robert D. (*with* Wagstaff, Samuel S., Jr.) A practical analysis of the elliptic curve factoring algorithm. **93k:11117**

Simchi-Levi, David *see* **Li, Chung-Lun; et al., 93c:90031** *and* **93i:68144**
Simonson, Shai (*with* Sudborough, Ivan Hal) On the complexity of tree embedding problems.
Sinclair, Alistair ★ Algorithms for random generation and counting. (English. English summary) **93j:65011**
Singla, Aman *see* **Garg, Naveen; et al., 93k:05169**
Sinha, Bhabani P. *see* **Fleischer, Rudolf; et al., 93j:68042**
Sinha, Rakesh Kumar *see* **Kimbrel, Tracy**
Skorin-Kapov, Jadranka *see* **Granot, Frieda, 93j:90046**
Sleator, Daniel D. (*with* Tarjan, Robert Endre; Thurston, William P.) Short encodings of evolving structures. **93m:68110**
Smid, Michiel Maintaining the minimal distance of a point set in polylogarithmic time. **93d:68070**
— *see also* **Schwarz, Christian, (93b:68005)**
Smith, Warren D. How to find Steiner minimal trees in Euclidean d-space. **93a:68064**
Snyder, Timothy Law (*with* Steele, J. Michael) Convex hulls of random walks. **93j:60013**
Spencer, Joel H. The probabilistic method. **93d:68058**
Spingarn, Jonathan E. Complexity of fixed point computation. (English summary) **93j:65232**
Spinrad, Jeremy P. P_4-trees and substitution decomposition. (English summary) **93g:68017**
— *see also* **Eschen, Elaine M., 93k:05168**
Sprague, Alan P. (*with* Kulkarni, K. H.) Optimal parallel algorithms for finding cut vertices and bridges of interval graphs. **93c:68038**
Srikant, R. *see* **Datta, Amitava; et al.**
Srinivasan, Aravind (*with* Pandu Rangan, C.) Efficient algorithms for the minimum weighted dominating clique problem on permutation graphs. **93b:68071**
Stallmann, Matthias F. M. *see* **Bein, Wolfgang W.; et al., 93j:68152**
Stamm-Wilbrandt, H. (*with* Kleine Büning, H.) Evaluating production systems with delete operator is PSPACE-complete. (English summary) **93g:68132**
Steele, J. Michael *see* **Snyder, Timothy Law, 93j:60013**
Stein, Clifford *see* **Klein, Philip, 93k:68040**
Stewart, Iain A. Refining known results on the generalized word problem for free groups. (English summary) **93m:68056**
Stewart, Lorna K. *see* **Sankaranarayana, Ramesh S., 93d:05145**
Stojmenović, Ivan *see* **Sarkar, Dilip, 93m:68180**
Storb, Christoph *see* **Gao, Shaodi; et al., (93k:68003)**
Sudborough, Ivan Hal *see* **Simonson, Shai**
Suraweera, Francis (*with* Bhattacharya, Prabir) An $O(\log m)$ parallel algorithm for the minimum spanning tree problem. (English summary)
Suri, Subhash *see* **Mitchell, Joseph S. B., 93f:68097**
Sýkora, Ondrej (*with* Vrťo, Imrich) Edge separators for graphs of bounded genus with applications. (English summary) **93m:05190**
— *see also* **Diks, Krzysztof; et al., 93i:05121**
Szabo, M. E. On the stochastic complexity of loops in rule-based expert systems. **93b:68087**
Szegedy, Mário *see* **Babai, László; et al., 93m:68048**
Székely, László A. *see* **Clark, L. H.; et al., 93b:68069**
Szpankowski, Wojciech *see* **Devroye, Luc; et al., 93a:68026** *and* **Andersson, Arne, 93k:68021**
Tal, Ady *see* **Korach, Ephraim, 93k:05172**
Talagrand, Michel *see* **Rhee, WanSoo T., 93i:60020**
Tamassia, Roberto *see* **Eppstein, David; et al., 93a:68027; Preparata, Franco P., 93c:68104; Chiang, Yi-Jen, 93j:68210** *and* **(93k:05002)**
T'ang, Ch'uan I *see* **Hsiao, Ju Yuan; et al., 93g:05130**
Tarjan, Robert Endre *see* **Eppstein, David; et al., 93a:68027; Kirkpatrick, David G.; et al., 93c:68101; Mishra, Bhubaneswar, 93d:05144; Han, Xiaofeng; et al., 93e:05092; Dixon, Brandon; et al., 93j:68153** *and* **Sleator, Daniel D.; et al., 93m:68110**
Tempo, Roberto (*with* Cerone, V.) Robust stability: the computational complexity point of view. (English summary) **93g:93068**
Teng, Choh-Man *see* **Van Hentenryck, Pascal; et al., 93h:68126**
Teng, Shang-Hua *see* **Miller, Gary L.; et al., 93e:05096**
Thurston, William P. *see* **Sleator, Daniel D.; et al., 93m:68110**
Tittmann, Peter *see* **Beichelt, Frank, 93d:94032**
Toda, Seinosuke *see* **Watanabe, Osamu[2], 93m:68058**
Tokura, Nobuki *see* **Park, Jungho; et al., 93c:68010**
Tompa, Martin Lower bounds on universal traversal sequences for cycles and other low degree graphs. (English summary) **93k:68079**
Tovey, Craig A. A polynomial-time algorithm for computing the yolk in fixed dimension. (English summary) **93j:90147**
— *see also* **Borie, Richard B.; et al., 93d:03017**
Truszczyński, Mirosław *see* **Han, Yijie; et al., 93b:68014**
Tsai, Kuo-Hui *see* **Hsu, Wen-Lian, 93a:68117**
Tsai, Li-Hui An algorithm for flow time minimization and its asymptotic makespan properties. (English summary) **93i:68030**
— Sequencing to minimize the maximum renewal cumulative cost. (English summary) **93i:90055**
Tsay, Jyh Jong Searching tree structures on a mesh of processors. **93h:68027**
Tuza, Zsolt Graph coloring problems with applications in algebraic logic. **93c:03084**
— *see also* **Bíró, M.; et al., 93d:05049**
Tzeng, Wen-Guey A polynomial-time algorithm for the equivalence of probabilistic automata. **93a:68108**
— *see also* **Ko, Ker-I, 93h:68121**
Uhrig, Christian *see* **Fleischer, Rudolf; et al., 93j:68042** *and* **Alt, Helmut; et al., 93k:68097**
Upfal, Eli An $O(\log N)$ deterministic packet-routing scheme. **93a:68015**
Urabe, Masatsugu (*with* Watanabe, Mamoru) On a counterexample to a conjecture of Mirzaian. (English summary) **93m:68177**
Van Hentenryck, Pascal (*with* Deville, Yves; Teng, Choh-Man) A generic arc-consistency algorithm and its specializations. (English summary) **93h:68126**
Vavasis, Stephen A. Black-box complexity of local minimization. (English summary) **93m:90103**
— *see also* **Miller, Gary L.; et al., 93e:05096** *and* **Pardalos, Panos M.**
Vazirani, Umesh Rapidly mixing Markov chains. **93b:60141**
Vazirani, Vijay V. *see* **Khuller, Samir; et al., 93c:05106**
Vertigan, D. L. (*with* Welsh, D. J. A.) The computational complexity of the Tutte plane: the bipartite case. (English summary) **93k:05041**
Veselý, Vítězslav Algebraic theory of fast mixed-radix transforms. II. Computational complexity and applications. (English summary) **93k:15025**
Vishkin, Uzi A parallel blocking flow algorithm for acyclic networks. (English summary) **93i:68082**
Vishwanathan, Sundar Randomized online graph coloring. (English summary) **93k:68080**
— *see also* **Fiat, Amos; et al., 93e:68100**
Viswanathan, Venkatraman *see* **Huang, Shou-Hsuan Stephen; et al., 93j:90124**
Vitter, Jeffrey Scott *see* **Lin, Jyh-Han, 93m:05187**
Voevodin, V. V. ★ Mathematical foundations of parallel computing. **93j:65230**
Vorob'ev, N. N., Jr. The complexity of deciding consistency of systems of polynomials in exponent inequalities. **93c:68046**
Vrťo, Imrich *see* **Diks, Krzysztof; et al., 93i:05121** *and* **Sýkora, Ondrej, 93m:05190**
Wada, Masami Construction of minimal perfect hashing function based on the approximation of piecewise linear function. (English summary) **93h:68028**
Wagstaff, Samuel S., Jr. *see* **Silverman, Robert D., 93k:11117**
Walters, Jakobus L. *see* **Hattingh, Johannes H.; et al., 93k:05170**
Wang, Fu Hsing *see* **Chang, Maw Shang**
Warmuth, Manfred K. *see* **Moran, Shlomo, 93m:68018**
Warnow, Tandy J. *see* **Kannan, Sampath K., 93j:05147**
Watanabe, Mamoru *see* **Urabe, Masatsugu, 93m:68177**
Watanabe, Osamu[2] (*with* Toda, Seinosuke) Structural analysis of the complexity of inverse functions. (English summary) **93m:68058**
Weijland, W. P. *see* **Mulder, J. C., (93g:68090)**
Welsh, D. J. A. *see* **Vertigan, D. L., 93k:05041**
Welzl, Emo *see* **Agarwal, Pankaj K.; et al., 93a:68146; Matoušek, Jiří; et al., 93i:68180; Chazelle, Bernard; et al., 93j:68209** *and* **Mehlhorn, Kurt; et al., (93b:68005)**
Westbrook, Jeffery *see* **Eppstein, David; et al., 93a:68027**
Westermann, Herbert H. *see* **Gabow, Harold N., 93f:90133**
Wieners-Lummer, Charlotte A Manhattan channel router with good theoretical and practical performance. (English summary) **93i:68097**
Wigderson, Avi *see* **Heiman, Rafi, 93j:68059** *and* **Raz, Ran, 93m:68055**
Wilfong, Gordon Motion planning in the presence of movable obstacles. (English summary) **93m:68181**
— *see also* **Fortune, Steven, 93m:68165**
Winkler, Peter M. *see* **Brightwell, Graham R., 93b:06002** *and* **Mihail, Milena, 93f:05059**
Woeginger, Gerhard J. Finding the closest extreme vertex to a fixed point. **93i:68186**
— The complexity of finding arborescences in hypergraphs.
Wolfstahl, Yaron *see* **Makedon, Fillia; et al., 93m:05188**
Wong, Chak Kuen *see* **Sarrafzadeh, Majid, 93c:68080**
Woodrow, Robert *see* **Pouzet, Maurice; et al., 93m:06007**
Woźniakowski, Henryk Complexity of verification and computation for IBC problems. **93f:65102**
— *see also* **Novak, Erich, 93f:65103**
Yang, Cheng-Hsing *see* **Yu, Ming Shing, 93i:68145**
Yang, Wei Pang *see* **Chien, Been Chian**
Yap, Chee-Keng *see* **Goodrich, Michael T.; et al., 93m:68167**
Young, Gilbert H. *see* **Ng, Chung W., 93j:90044**
Yu, Chang Wu (*with* Ch'ên, Chien Hui) The weighted maximum independent set problem in permutation graphs. (English summary) **93g:68110**
Yu, Hui Zhen *see* **Ma, Shao Han, 93b:05037**
Yu, Lin (*with* Rosenkrantz, Daniel J.) Representability of design objects by ancestor-controlled hierarchical specifications. (English summary) **93i:68057**
Yu, Ming Shing (*with* Yang, Cheng-Hsing) An optimal parallel algorithm for the domatic partition problem on an interval graph given its sorted model. (English summary) **93i:68145**
Yung, Moti *see* **Eppstein, David; et al., 93a:68027**
Zaguia, Nejib *see* **Ponzet, Maurice; et al., 93m:06007**
Zemel, Eitan *see* **Hartvigsen, David, 93j:90066**
Zhang, Jingyuan *see* **Olariu, Stephan; et al., 93m:68065**
Zhang, Shu Hua Polynomial-time algorithms for testing strong isomorphism and computing the automorphism group of R-strongly connected automata. **93a:68106**
Zimmermann, Uwe Negative circuits for flows and submodular flows. **93f:90178**
Zýka, Ondřej *see* **Kratochvíl, Jan; et al., 93j:05156**

Items listed otherwise than by author

Bibliography:
Nigmatullin, R. G. *see* **Nigmatullin, R. G., 93e:94021**
Biography:
Nigmatullin, R. G. *see* **Nigmatullin, R. G., 93e:94021**

68Q30 Algorithmic information theory (Kolmogorov complexity, etc.)

Atteson, Kevin An overview of the minimum description length principle. (*see* **93h:68003**)
Cha, Shin (*with* Chung, In Sang; Kwon, Yong Rae) Complexity measures for concurrent programs based on information-theoretic metrics. (English summary)
Chaitin, Gregory J. Information-theoretic incompleteness. (English summary) **93j:68078**
— LISP program-size complexity. (English summary) **93m:68086a**
— LISP program-size complexity. II, III, IV. (English summary) **93m:68086b**
Chung, In Sang *see* **Cha, Shin; et al.**
Feige, Uriel On the complexity of finite random functions. (English summary) **93j:68079**
Gammerman, A. J. The representation and manipulation of the algorithmic probability measure for problem solving. **93a:68062**
Heinrich, Stefan (*with* Kern, Jörg-Detlef) Parallel information-based complexity. **93a:68063**
Hoffmann, Achim G. Connectionist functionality and the emergent network behavior. **93d:68036**

Kalyanasundaram, Bala (*with* Schnitger, Georg) The probabilistic communication complexity of set intersection. (English summary) **93j:68080**
Kasahara, Masao *see* **Morii, Masakatu, 93j:68081**
Kern, Jörg-Detlef *see* **Heinrich, Stefan, 93a:68063**
Kolmogorov, A. N. (*with* Uspenskiĭ, V. A.) Algorithms and randomness. (Bulgarian) **93e:68038**
Kwon, Yong Rae *see* **Cha, Shin; et al.**
Li, Ming[1] (*with* Vitányi, Paul M. B.) Inductive reasoning and Kolmogorov complexity. **93e:68039**
Lutz, Robert *see* **Musio, Monica**
(Mateev, Pl.) *see* **Kolmogorov, A. N., 93e:68038**
Morii, Masakatu (*with* Kasahara, Masao) Perfect staircase profile of linear complexity for finite sequences. (English summary) **93j:68081**
Musio, Monica (*with* Lutz, Robert) Suites aléatoires et degré de fantaisie. (English and French summaries) [Random sequences and fantasy level]
Packel, Edward W. (*with* Traub, Joseph F.; Woźniakowski, Henryk) Measures of uncertainty and information in computation. **93b:68033**
Razborov, A. A. On the distributional complexity of disjointness. (English summary) **93i:68095**
Schnitger, Georg *see* **Kalyanasundaram, Bala, 93j:68080**
Shen, Shi Yi *see* **Yang, En Hui, 93e:68040** *and* **93f:68048**
Traub, Joseph F. (*with* Woźniakowski, Henryk) Theory and applications of information-based complexity. (*see* **93h:68003**)
— *see also* **Packel, Edward W.; et al., 93b:68033**
Uspenskiĭ, V. A. *see* **Kolmogorov, A. N., 93e:68038**
Vitányi, Paul M. B. *see* **Li, Ming[1], 93e:68039**
Woźniakowski, Henryk *see* **Packel, Edward W.; et al., 93b:68033** *and* **Traub, Joseph F., (93h:68003)**
Yang, En Hui The proof of Levin's conjecture. **93m:68087**
— (*with* Shen, Shi Yi) Chaitin complexity, Shannon information content of a single event and infinite random sequences. I. **93e:68040**
— (*with* Shen, Shi Yi) Chaitin complexity, Shannon information content of a single event, and infinite random sequences. II. **93f:68048**

Items with secondary classifications in 68Q30

Alon, Noga (*with* Goldreich, Oded; Håstad, Johan; Peralta, René) Simple constructions of almost k-wise independent random variables. **93k:94006a**
— (*with* Goldreich, Oded; Håstad, Johan; Peralta, René) Addendum to: "Simple constructions of almost k-wise independent random variables". **93k:94006b**
Babai, László (*with* Nisan, Noam; Szegedy, Márió) Multiparty protocols, pseudorandom generators for logspace, and time-space trade-offs. (English summary) **93m:68048**
Ben-Amram, Amir M. (*with* Galil, Zvi) On pointers versus addresses. (English summary) **93k:68027**
Broglio, Annie (*with* Liardet, Pierre) Predictions with automata. (English summary) **93k:68071**
Chaudhary, Shobha *see* **Tuteja, R. K., 93f:94009**
Chung, Fan R. K. (*with* Tetali, Prasad) Communication complexity and quasi randomness. (English summary) **93k:05181**
da Costa, Newton C. A. (*with* Doria, Francisco Antonio) On the existence of very difficult satisfiability problems.
Doria, Francisco Antonio *see* **da Costa, Newton C. A.**
Duran, B. S. *see* **Martínez-Morales, Manuel**
Edelsbrunner, Herbert (*with* Guibas, Leonidas J.; Sharir, Micha) The complexity of many faces in arrangements of lines and of segments. (English summary) (*see* **93k:68003**)
Galil, Zvi *see* **Ben-Amram, Amir M., 93k:68027**
Goldreich, Oded *see* **Alon, Noga; et al., 93k:94006a** *and* **93k:94006b**
Guibas, Leonidas J. *see* **Edelsbrunner, Herbert; et al., (93k:68003)**
Håstad, Johan *see* **Alon, Noga; et al., 93k:94006a** *and* **93k:94006b**
Kalyanasundaram, Bala (*with* Schnitger, Georg) Communication complexity and lower bounds for sequential computation. (English summary) **93m:68049**
Kolmogorov, A. N. ★ Алгоритм, информация, сложность. (Russian) [Algorithms, information and complexity] **93b:01047**
Lam, Tak-Wah (*with* Ruzzo, Walter L.) Results on communication complexity classes. **93c:68030**
Li, Ming[1] (*with* Longpré, Luc; Vitányi, Paul M. B.) The power of the queue. **93h:68039**
Liardet, Pierre *see* **Broglio, Annie, 93k:68071**
Longpré, Luc *see* **Li, Ming[1]; et al., 93h:68039**
Lovász, László The work of A. A. Razborov. **93e:01012**
Lutz, Jack H. Almost everywhere high nonuniform complexity. **93c:68031**
Măndoiu, Ion Kraft-Chaitin's theorem for free-extensible codes. (English summary) **93m:94017**
Martínez-Morales, Manuel (*with* Duran, B. S.) A test for randomness based on a complexity measure. (English summary)
Nemirovskiĭ, A. S. Information-based complexity of linear operator equations. **93e:65163**
Nisan, Noam *see* **Babai, László; et al., 93m:68048**
Novak, Erich (*with* Woźniakowski, Henryk) Relaxed verification for continuous problems. **93f:65103**
Peralta, René *see* **Alon, Noga; et al., 93k:94006a** *and* **93k:94006b**
Pereverzev, S. V. (*with* Scharipov, C. C.) Information complexity of equations of the second kind with compact operators in Hilbert space. **93e:65082**
Plaskota, L. Function approximation and integration on the Wiener space with noisy data. (English summary) **93m:65016**
Raz, Ran (*with* Wigderson, Avi) Monotone circuits for matching require linear depth. (English summary) **93m:68055**
(Razborov, A. A.) *see* **Lovász, László, 93e:01012**
Rubinstein, Roy S. Self-P-printability and polynomial time Turing equivalence to a tally set. **93a:68045**
Ruzzo, Walter L. *see* **Lam, Tak-Wah, 93c:68030**
Scharipov, C. C. *see* **Pereverzev, S. V., 93e:65082**
Schnitger, Georg *see* **Kalyanasundaram, Bala, 93m:68049**
Sharir, Micha *see* **Edelsbrunner, Herbert; et al., (93k:68003)**
Szegedy, Márió *see* **Babai, László; et al., 93m:68048**
Tang, Shou Wen *see* **Watanabe, Osamu[2], 93h:68053**
Tarazevich, Yu. G. Complexity of the realization of multipoles by plane switching circuits. (Russian)
Tetali, Prasad *see* **Chung, Fan R. K., 93k:05181**
Tuteja, R. K. (*with* Chaudhary, Shobha) Order α-β weighted information energy. (English summary) **93f:94009**
Vitányi, Paul M. B. *see* **Li, Ming[1]; et al., 93h:68039**
Watanabe, Osamu[2] (*with* Tang, Shou Wen) On polynomial-time Turing and many-one completeness in PSPACE. **93h:68053**
Wigderson, Avi *see* **Raz, Ran, 93m:68055**
Winnie, John A. Computable chaos. **93f:58161**
Woźniakowski, Henryk Complexity of verification and computation for IBC problems. **93f:65102**
— *see also* **Novak, Erich, 93f:65103**

68Q35 VLSI algorithms

Berger, Toby (*with* Hekstra, A.; Orlitsky, Alon) Asymptotic component densities in programmable gate arrays realizing all circuits of a given size. (English summary) **93j:68082**
van Berkel,Cornelis Hermanus ★ Handshake circuits: an intermediary between communicating processes and VLSI. **93c:68042**
Budach, Lothar Recursive VLSI-design and fractals. (English summary) **93j:68083**
Cederbaum, Israel (*with* Koren, Israel; Wimer, Shmuel) Balanced block spacing for VLSI layout. (English summary) **93m:68088**
Greenberg, Ronald (*with* Ja'Ja', Joseph; Krishnamurthy, Sridhar) On the difficulty of Manhattan channel routing. (English summary) **93k:68049**
Hekstra, A. *see* **Berger, Toby; et al., 93j:68082**
Ja'Ja', Joseph *see* **Greenberg, Ronald; et al., 93k:68049**
Koren, Israel *see* **Cederbaum, Israel; et al., 93m:68088**
Krishnamurthy, Sridhar *see* **Greenberg, Ronald; et al., 93k:68049**
Law, A. G. *see* **Rezazadeh, A.; et al., 93b:68034**
Lou, R. D. (*with* Sarrafzadeh, Majid; Rim, C. S.; Nakajima, Kazuo; Masuda, Sumio) General circular permutation layout. **93e:68041**
— *see also* **Sarrafzadeh, Majid, 93j:68084**
Masuda, Sumio *see* **Lou, R. D.; et al., 93e:68041**
Nakajima, Kazuo *see* **Lou, R. D.; et al., 93e:68041**
Olariu, Stephan (*with* Schwing, James L.; Zhang, Jingyuan) A constant-time channel-assignment algorithm on reconfigurable meshes. (English summary)
Orlitsky, Alon *see* **Berger, Toby; et al., 93j:68082**
Prikhozhiĭ, A. A. Methods for transforming logical algorithms in very large scale integration computer-aided design systems. (Russian. English and Russian summaries)
Raghavan, Prabhakar Integer programming in VLSI design. (English summary) **93g:68059**
Recski, András Minimax results and polynomial algorithms in VLSI routing. (English summary) **93k:68050**
Reif, John H. Efficient VLSI fault simulation. (English summary) **93i:68096**
Rezazadeh, A. (*with* Zhang, C. N.; Law, A. G.; Weston, J. H.) A role for generalized inverses in designing systolic arrays. **93b:68034**
Rim, C. S. *see* **Lou, R. D.; et al., 93e:68041**
Sarrafzadeh, Majid (*with* Lou, R. D.) Maximum k-covering of weighted transitive graphs with applications. (English summary) **93j:68084**
— *see also* **Lou, R. D.; et al., 93e:68041**
Schwing, James L. *see* **Olariu, Stephan; et al.**
Smith, Warren D. How to find Steiner minimal trees in Euclidean d-space. **93a:68064**
Song, X. Y. Channel routing in a diagonal overlap model. (English summary) **93m:68089**
Takaoka, Tadao (*with* Umehara, Kiyomi) An efficient VLSI algorithm for the all pairs shortest path problem. (English summary)
Umehara, Kiyomi *see* **Takaoka, Tadao**
Vlach, Frank Simplification in a satisfiability checker for VLSI applications. (English summary)
Voss, Stefan Steiner's problem in graphs: heuristic methods. (English summary) **93j:68085**
Weston, J. H. *see* **Rezazadeh, A.; et al., 93b:68034**
Wieners-Lummer, Charlotte A Manhattan channel router with good theoretical and practical performance. (English summary) **93i:68097**
Wimer, Shmuel *see* **Cederbaum, Israel; et al., 93m:68088**
Zhang, C. N. *see* **Rezazadeh, A.; et al., 93b:68034**
Zhang, Jingyuan *see* **Olariu, Stephan; et al.**

Items with secondary classifications in 68Q35

Becker, Bernd (*with* Sparmann, Uwe) Computations over finite monoids and their test complexity. **93a:68016**
Birk, Yitzhak (*with* Lotspiech, Jeffrey B.) On finding nonintersecting straightline connections of grid points to the boundary. (English summary) **93h:68141**
Cypher, Robert Theoretical aspects of VLSI pin limitations. **93c:68024**
Dolinar, Sam (*with* Ko, Tsz-Mei; McEliece, Robert J.) Some VLSI decompositions of the de Bruijn graph. (English summary) **93h:05159**
Hernández Barrera, Antonio (*with* Mesa Henríquez, Antonio; Puerta Balda, Antonio) Placement of orthogonal polygons. (Spanish. English and Spanish summaries)
Hromkovič, Juraj (*with* Monien, Burkhard) The bisection problem for graphs of degree 4 (configuring transputer systems). (English summary) **93k:68030**
— (*with* Lozhkin, S. A.; Rybko, A. I.; Sapozhenko, A. A.; Shkalikova, N. A.) Lower bounds on the area complexity of Boolean circuits. **93g:68042**
Ihler, Edmund (*with* Wagner, Dorothea; Wagner, Frank O.) Modeling hypergraphs by graphs with the same mincut properties. (English summary) **93k:05122**
Iyengar, S. S. *see* **Prasad, Lakshman, 93f:05009**
Johannes, Frank *see* **Kredler, Christian; et al.**
Kaldewaij, Anne (*with* Udding, Jan Tijmen) Rank order filters and priority queues. (English summary) **93g:68009**

Kashiwabara, Toshinobu *see* **Kotani, Ken; et al., 93i:68143**
Kaufmann, Michael (*with* Maley, F. Miller) Parity conditions in homotopic knock-knee routing. (English summary) **93j:68159**
Ko, Tsz-Mei *see* **Dolinar, Sam; et al., 93h:05159**
Kotani, Ken (*with* Masuda, Sumio; Kashiwabara, Toshinobu) An algorithm for embedding a biconnected planar graph to maximize the total sum of vertex- and edge-weights on the exterior window. (English summary) **93i:68143**
Kredler, Christian (*with* Zillober, Christian; Johannes, Frank; Sigl, Georg) An application of preconditioned conjugate gradients to relative placement in chip design. (English summary)
(Lengauer, Th.) *see* **Combinatorial methods in VLSI, 93f:68005**
Levin, A. G. (*with* Rabinovich, E. B.) Approximate algorithms for planarization of hypergraphs. (Russian. English and Russian summaries) **93h:68114**
Lotspiech, Jeffrey B. *see* **Birk, Yitzhak, 93h:68141**
Lozhkin, S. A. *see* **Hromkovič, Juraj; et al., 93g:68042**
Maley, F. Miller *see* **Kaufmann, Michael, 93j:68159**
Masuda, Sumio *see* **Kotani, Ken; et al., 93i:68143**
McEliece, Robert J. *see* **Dolinar, Sam; et al., 93h:05159**
Mesa Henríquez, Antonio *see* **Hernández Barrera, Antonio; et al.**
(Möhring, Rolf H.) *see* **Combinatorial methods in VLSI, 93f:68005**
Monien, Burkhard *see* **Hromkovič, Juraj, 93k:68030**
Nayak, Amiya (*with* Pagli, Linda; Santoro, Nicola) Combinatorial and graph problems arising in the analysis of catastrophic fault patterns. (English summary) **93m:68023**
Pagli, Linda *see* **Nayak, Amiya; et al., 93m:68023**
Prasad, Lakshman (*with* Iyengar, S. S.) An asymptotic equality for the number of necklaces in a shuffle-exchange network. **93f:05009**
Puerta Balda, Antonio *see* **Hernández Barrera, Antonio; et al.**
Rabinovich, E. B. *see* **Levin, A. G., 93h:68114**
Rao, Vasant *see* **Saab, Youssef, 93k:05178**
Rybko, A. I. *see* **Hromkovič, Juraj; et al., 93g:68042**
Saab, Youssef (*with* Rao, Vasant) On the graph bisection problem. (English summary) **93k:05178**
Santoro, Nicola *see* **Nayak, Amiya; et al., 93m:68023**
Sapozhenko, A. A. *see* **Hromkovič, Juraj; et al., 93g:68042**
Shkalikova, N. A. *see* **Hromkovič, Juraj; et al., 93g:68042**
Sigl, Georg *see* **Kredler, Christian; et al.**
Sorkin, Gregory B. Simulated annealing on fractals: theoretical analysis and relevance for combinatorial optimization. **93f:90137**
Sparmann, Uwe *see* **Becker, Bernd, 93a:68016**
Tchuente, Maurice ★ Parallel computation on regular arrays. **93h:65181**
Teo, Kim-Heng (*with* Tuan, Tai Ching) An efficient one-side height minimization algorithm for routing around a rectangle.
Tuan, Tai Ching *see* **Teo, Kim-Heng**
Udding, Jan Tijmen *see* **Kaldewaij, Anne, 93g:68009**
Wagner, Dorothea *see* **Ihler, Edmund; et al., 93k:05122**
Wagner, Frank O. *see* **Ihler, Edmund; et al., 93k:05122**
Zillober, Christian *see* **Kredler, Christian; et al.**

Items listed otherwise than by author

Combinatorial methods in VLSI ★ Combinatorial methods in VLSI. **93f:68005**
Special Issue:
Combinatorial methods in VLSI ★ Combinatorial methods in VLSI. **93f:68005**

68Q40 Symbolic computation, algebraic computation [see also 11Yxx, 12Y05, 13Pxx, 14Qxx, 16–08, 17–08]

Averbuch, Amir (*with* Galil, Zvi; Winograd, Shmuel) Classification of all the minimal bilinear algorithms for computing the coefficients of the product of two polynomials modulo a polynomial. II. The algebra $G[u]/\langle u^n\rangle$. **93a:68065**
— (*with* Bshouty, Nader H.; Kaminski, Michael) A classification of algorithms for multiplying polynomials of small degree over finite fields. (English summary) **93k:68051**
Babai, László (*with* Friedl, Katalin) Approximate representation theory of finite groups. (English summary) **93i:68098**
Berque, David (*with* Cecchini, Ronald; Goldberg, Mark; Rivenburgh, Reid) The SetPlayer system for symbolic computation on power sets. (English summary) **93m:68090**
Bronstein, Manuel On solutions of linear ordinary differential equations in their coefficient field. **93e:68042**
Bshouty, Nader H. (*with* Cleve, Richard; Eberly, Wayne) Size-depth tradeoffs for algebraic formulae. (English summary) **93e:68043**
— *see also* **Averbuch, Amir; et al., 93k:68051**
Burris, Stanley Discriminator varieties and symbolic computation. **93e:68044**
Byts', V. V. (*with* Zulunov, R. M.) Reductional determination of problems in matrix algebra. (Russian) **93b:68035**
Canny, John F. *see* **Manocha, Dinesh, 93m:68094**
Cecchini, Ronald *see* **Berque, David; et al., 93m:68090**
Chang, David Renpan *see* **Donald, Bruce Randall, 93j:68086**
Chen, Rong Jaye (*with* Hou, Yu Song) Nonassociative parallel prefix computation. (English summary) **93i:68099**
Chou, Shang-Ching *see* **Gao, Xiao Shan, 93h:68065**
Clausen, Michael (*with* Dress, Andreas W. M.; Grabmeier, Johannes; Karpiński, Marek) On zero-testing and interpolation of k-sparse multivariate polynomials over finite fields. **93e:68045**
Cleve, Richard *see* **Bshouty, Nader H.; et al., 93e:68043**
Cooklev, T. V. *see* **Dimitrov, V. S.; et al., 93i:68100**
Cooperman, Gene (*with* Finkelstein, Larry) A strong generating test and short presentations for permutation groups. **93d:68037**
Cui, Li Li An abstract operator calculus system for computers. (Chinese. English and Chinese summaries)
Dickerson, Matthew T. The inverse of an automorphism in polynomial time. **93b:68036**
Dimitrov, V. S. (*with* Cooklev, T. V.; Donevski, B. D.) On the multiplication of reduced biquaternions and applications. (English summary) **93i:68100**
Domenjoud, Eric AC unification through order-sorted ACI unification. (English summary) **93m:68091**
Donald, Bruce Randall (*with* Chang, David Renpan) On the complexity of computing the homology type of a triangulation. (English summary) **93j:68086**
Donevski, B. D. *see* **Dimitrov, V. S.; et al., 93i:68100**
Dörre, Jochen (*with* Rounds, William C.) On subsumption and semiunification in feature algebras. **93h:68064**
Dress, Andreas W. M. *see* **Clausen, Michael; et al., 93e:68045**
Duchamp, Gérard (*with* Krob, Daniel) On the partially commutative shuffle product. **93g:68060**
Eberly, Wayne Decomposition of algebras over finite fields and number fields. **93d:68038**
— Decompositions of algebras over **R** and **C**. **93k:68052**
— *see also* **Bshouty, Nader H.; et al., 93e:68043**
Fateman, Richard J. A review of Mathematica. **93f:68049**
Finkelstein, Larry *see* **Cooperman, Gene, 93d:68037**
Fitzpatrick, Patrick (*with* Flynn, John) A Gröbner basis technique for Padé approximation. **93b:68037**
Flynn, John *see* **Fitzpatrick, Patrick, 93b:68037**
Friedl, Katalin *see* **Babai, László, 93i:68098**
Fujise, Tetsuro *see* **Murao, Hirokazu; et al., 93m:68095**
Galil, Zvi *see* **Averbuch, Amir; et al., 93a:68065**
Gallo, Giovanni (*with* Mishra, Bhubaneswar) Wu-Ritt characteristic sets and their complexity. **93d:68039**
Gao, Xiao Shan (*with* Chou, Shang-Ching) Implicitization of rational parametric equations. (English summary) **93h:68065**
Gemmell, Peter (*with* Sudan, Madhu) Highly resilient correctors for polynomials. (English summary) **93h:68066**
Goldberg, Mark *see* **Berque, David; et al., 93m:68090**
Grabmeier, Johannes *see* **Clausen, Michael; et al., 93e:68045**
Grossman, Robert (*with* Larson, Richard G.) Symbolic computation of derivations using labelled trees. **93f:68050**
Gurevich, Yuri Matrix decomposition problem is complete for the average case. **93b:68038**
Horng, Gwoboa (*with* Huang, Ming-Deh A.) Simplifying nested radicals and solving polynomials by radicals in minimum depth. **93g:68061**
Hou, Yu Song *see* **Chen, Rong Jaye, 93i:68099**
Huang, Ming-Deh A. *see* **Horng, Gwoboa, 93g:68061**
Hull, Richard B. (*with* Yoshikawa, Masatoshi) Object identity and query equivalence [equivalences]. **93f:68051**
Jebelean, Tudor An algorithm for exact division. (English summary) **93m:68092**
Kaminski, Michael *see* **Averbuch, Amir; et al., 93k:68051**
Karpiński, Marek *see* **Clausen, Michael; et al., 93e:68045**
Kerber, Adalbert (*with* Kohnert, Axel; Lascoux, Alain) SYMMETRICA, an object oriented computer-algebra system for the symmetric group. (English summary), **93g:68062**
Knowles, Paul H. Integration of a class of transcendental Liouvillian functions with error-functions. I. **93m:68093**
Kobayashi, Hidetsune *see* **Murao, Hirokazu; et al., 93m:68095**
Koepf, Wolfram Power series in computer algebra. (English summary) **93j:68087**
Kohnert, Axel *see* **Kerber, Adalbert; et al., 93g:68062**
Krob, Daniel Expressions rationnelles sur un anneau. [Rational expressions over a ring] **93j:68088**
— *see also* **Duchamp, Gérard, 93g:68060**
Larson, Richard G. *see* **Grossman, Robert, 93f:68050**
Lascoux, Alain *see* **Kerber, Adalbert; et al., 93g:68062**
Lazard, D. Solving zero-dimensional algebraic systems. **93a:68066**
Leon, Jeffrey S. Permutation group algorithms based on partitions. I. Theory and algorithms. **93c:68043**
Limongelli, C. (*with* Temperini, M.) Abstract specification of structures and methods in symbolic mathematical computation. (English summary) **93j:68089**
Llovet, Juan *see* **Sendra, J. Rafael, 93a:68067**
Manocha, Dinesh (*with* Canny, John F.) Multipolynomial resultant algorithms. (English summary) **93m:68094**
Mishra, Bhubaneswar *see* **Gallo, Giovanni, 93d:68039**
Miyahiro, Eiichi *see* **Noda, Matu-Tarow**
Muller, David E. (*with* Preparata, Franco P.) Parallel restructuring and evaluation of expressions. **93c:68044**
Murao, Hirokazu (*with* Kobayashi, Hidetsune; Fujise, Tetsuro) Evaluation of symbolic expression of the first derivative of determinant. (English summary)
— (*with* Kobayashi, Hidetsune; Fujise, Tetsuro) On factorizing the symbolic U-resultant—application of the ddet operator. (English summary) **93m:68095**
Noda, Matu-Tarow (*with* Miyahiro, Eiichi) A hybrid approach for the integration of a rational function.
Preparata, Franco P. *see* **Muller, David E., 93c:68044**
Renegar, James On the computational complexity of approximating solutions for real algebraic formulae. (English summary) **93i:68101**
Rivenburgh, Reid *see* **Berque, David; et al., 93m:68090**
Roanes Lozano, E. *see* **Roanes Macías, E., 93b:68039**
Roanes Macías, E. (*with* Roanes Lozano, E.) Algorithm for a nonramification criterion. (Spanish. English summary) **93b:68039**
Rounds, William C. *see* **Dörre, Jochen, 93h:68064**
Sagalovich, Yu. L. Some peculiarities of a signature analyzer over an extended finite field. (Russian. Russian summary) **93f:68052**
Salomaa, Arto Formal power series: a powerful tool for theoretical informatics. **93i:68102**
Sasaki, Tateaki (*with* Suzuki, Masayuki) Three new algorithms for multivariate polynomial GCD. **93c:68045**
Saux Picart, Philippe ★ Séparation des modules et des arguments des zéros d'un polynôme. (French) [Separation of the moduli and of the arguments of the zeros of a polynomial]
Schwab, Stephen A. Extended parallelism in the Gröbner basis algorithm. (English summary)

Sendra, J. Rafael (*with* Llovet, Juan) An extended polynomial GCD algorithm using Hankel matrices. **93a:68067**
Sudan, Madhu *see* **Gemmell, Peter, 93h:68066**
Suzuki, Masayuki *see* **Sasaki, Tateaki, 93c:68045**
Takayama, Nobuki An approach to the zero recognition problem by Buchberger algorithm. (English summary) **93j:68090**
Talcott, Carolyn Binding structures. **93f:68053**
Temperini, M. *see* **Limongelli, C., 93j:68089**
Ueberberg, Johannes ★ Einführung in die Computeralgebra mit REDUCE. (German. German summary) [Introduction to computer algebra using REDUCE] **93j:68091**
Vasil'ev, N. S. Automated construction of optimal parallel algorithms for calculating arithmetical expressions. (Russian) **93h:68067**
Vorob'ev, N. N., Jr. The complexity of deciding consistency of systems of polynomials in exponent inequalities. **93c:68046**
Winograd, Shmuel *see* **Averbuch, Amir; et al., 93a:68065**
Yoshikawa, Masatoshi *see* **Hull, Richard B., 93f:68051**
Zulunov, R. M. *see* **Byts', V. V., 93b:68035**
Zyuz'kov, V. M. Lambda-trak—a computer algebra language, a system of analytic calculations and a macroprocessor. (Russian. English summary)

Items with secondary classifications in 68Q40

Adams, William W. (*with* Boyle, Ann K.) Some results on Gröbner bases over commutative rings. **93h:13025**
Bachmair, Leo ★ Canonical equational proofs. **93e:68111**
Baum, Ulrich Existence and efficient construction of fast Fourier transforms on supersolvable groups. **93d:20031**
Beauzamy, Bernard Products of polynomials and a priori estimates for coefficients in polynomial decompositions: a sharp result. **93h:11140**
Blaha, Kenneth D. Minimum bases for permutation groups: the greedy approximation. **93d:20008**
Blanc, G. (*with* Bleuzen-Guernalec, N.) Algèbres effectives dans la programmation logique avec contraintes. (English summary) [Effective algebras in constraint logic programming] **93j:68119**
Bleuzen-Guernalec, N. *see* **Blanc, G., 93j:68119**
Blömer, Johannes Computing sums of radicals in polynomial time. (English summary) **93g:11130**
Bosma, Wieb (*with* Cannon, John J.) Structural computation in finite permutation groups. **93i:20003**
Boyle, Ann K. *see* **Adams, William W., 93h:13025**
Bshouty, Nader H. A lower bound for the multiplication of polynomials modulo a polynomial. **93j:68069**
Bürgisser, Peter (*with* Karpiński, Marek; Lickteig, Thomas) Some computational problems in linear algebra as hard as matrix multiplication. **93d:68030**
Burris, Stanley (*with* Lee, Simon) Small models of the high school identities. (English summary) **93h:03050**
Cannon, John J. *see* **Bosma, Wieb, 93i:20003**
Canny, John F. *see* **Manocha, Dinesh, 93d:14090**
Colbourn, Charles J. (*with* Stinson, Douglas R.; Teirlinck, Luc) A parallelization of Miller's $n^{\log n}$ isomorphism technique. **93f:68037**
Collins, George E. (*with* Hong, Hoon) Partial cylindrical algebraic decomposition for quantifier elimination. **93b:03015**
Cox, David A. (*with* Little, John B.; O'Shea, Donal) ★ Ideals, varieties, and algorithms. **93j:13031**
Cucker, Felipe (*with* Montaña, Jose L.; Pardo, Luis M.) Time bounded computations over the reals. **93m:03067**
Dai, Zong Duo Binary sequences derived from ML-sequences over rings. I. Periods and minimal polynomials. (English summary) **93g:68030**
van Emden, M. H. *see* **Lee, J. H. M., 93m:68027**
Faltings, Boi A symbolic approach to qualitative kinematics. (English summary) **93g:68124**
Farkas, Daniel R. (*with* Green, Edward L.) Do subspaces have distinguished bases? **93m:13012**
Fischer, Hans Christoph Automatic differentiation and applications. **93j:65032**
Fischer, Herbert (*with* Schäffler, Stefan; Warsitz, Hubert) Parameter estimation in linear regression models with stationary ARMA(p, q)-errors using automatic differentiation. (English summary) **93i:62080**
Fujisaka, Hisato (*with* Sato, Chikara) An algebraic analysis for bifurcation problems. **93f:34064**
— (*with* Sato, Chikara) Analysis of periodic oscillations with computer algebra. **93h:34003**
Ganzinger, Harald (*with* Stuber, Jürgen) Inductive theorem proving by consistency for first-order clauses. (English summary) **93m:68147**
Green, Edward L. *see* **Farkas, Daniel R., 93m:13012**
Hafner, James Lee (*with* McCurley, Kevin S.) Asymptotically fast triangularization of matrices over rings. **93d:15021**
Heintz, Joos (*with* Recio Muñiz, Tomás J.; Roy, Marie-Françoise) Algorithms in real algebraic geometry and applications to computational geometry. **93f:14029**
Hereman, W. (*with* Zhuang, W.) Symbolic computation of solitons with Macsyma. (English summary) **93m:65003**
Holt, Derek F. The computation of normalizers in permutation groups. **93b:20010**
Hong, Hoon *see* **Collins, George E., 93b:03015**
Kantor, William M. Finding composition factors of permutation groups of degree $n \leq 10^6$. **93d:20009**
— Notes on polynomial-time group theory. **93k:20006**
Karpiński, Marek *see* **Bürgisser, Peter; et al., 93d:68030**
Kramer, Glenn A. ★ Solving geometric constraint systems. **93h:70001**
— A geometric constraint engine. (English summary) **93i:68178**
Lai, Michael *see* **Martin, Ursula, 93e:68114**
Lee, J. H. M. (*with* van Emden, M. H.) Adapting CLP($\mathscr{R}$) to floating-point arithmetic. (English summary) **93m:68027**
Lee, Simon *see* **Burris, Stanley, 93h:03050**
Li, Zi Ming Determinant polynomial sequences. **93k:12001**
Lickteig, Thomas *see* **Bürgisser, Peter; et al., 93d:68030**
Little, John B. *see* **Cox, David A.; et al., 93j:13031**
Lotti, Grazia Fast solution of linear systems with polynomial coefficients over the ring of integers. (English summary) **93m:65192**
Lu, Pei Zhong (*with* Song, Guo Wen; Zhou, Jin Jun) Tensor products with applications to linear recurring sequences. (English and Chinese summaries) **93j:94018**
Malm, Donald E. G. *see* **Subramaniam, T. N., 93i:26008**
Manocha, Dinesh (*with* Canny, John F.) Implicit representation of rational parametric surfaces. **93d:14090**
Martin, Ursula (*with* Lai, Michael) Some experiments with a completion theorem prover. **93e:68114**
Mayr, Ernst W. Polynomial ideals and applications. (English summary) **93e:13047**
McCurley, Kevin S. *see* **Hafner, James Lee, 93d:15021**
Melichar, Bořivoj Formal translation directed by LR parsing. **93e:68106**
Mignotte, Maurice On the product of the largest roots of a polynomial. (English summary) **93h:26023**
Mills, Harry S. D. Symbolically precise solutions to a homogeneous second order matrix ordinary differential equation with Macsyma. (English summary)
Milner, Robin Functions as processes. **93i:03020**
(Miola, Alfonso) *see* **Theoretical issues of design and implementation of symbolic computation systems, 93e:68005**
Montaña, Jose L. *see* **Cucker, Felipe; et al., 93m:03067**
Nikolova, Daniela B. Presentations of groups—computational methods. (*see* **93b:00022**)
O'Shea, Donal *see* **Cox, David A.; et al., 93j:13031**
Pan, Victor Complexity of computations with matrices and polynomials. **93g:65179**
Pardo, Luis M. *see* **Cucker, Felipe; et al., 93m:03067**
Petermann, Uwe How to build in an open theory into connection calculi. (English summary) **93i:68156**
Randall, Dana J. Efficient generation of random nonsingular matrices. (English summary) **93i:68089**
Recio Muñiz, Tomás J. *see* **Heintz, Joos; et al., 93f:14029**
Reif, John H. (*with* Tate, Stephen R.) On threshold circuits and polynomial computation. (English summary) **93i:68091**
Renegar, James On the computational complexity and geometry of the first-order theory of the reals. I. Introduction. Preliminaries. The geometry of semi-algebraic sets. The decision problem for the existential theory of the reals. **93h:03011a**
— On the computational complexity and geometry of the first-order theory of the reals. II. The general decision problem. Preliminaries for quantifier elimination. **93h:03011b**
— On the computational complexity and geometry of the first-order theory of the reals. III. Quantifier elimination. **93h:03011c**
Roanes Lozano, E. *see* **Roanes Macías, E., 93c:15008**
Roanes Macías, E. (*with* Roanes Lozano, E.) Algorithms for computing the rank of Jacobian matrices and the order of ramification. (Spanish. English summary) **93c:15008**
Roy, Marie-Françoise *see* **Heintz, Joos; et al., 93f:14029**
Rubinfeld, Ronitt (*with* Sudan, Madhu) Self-testing polynomial functions efficiently and over rational domains. **93f:68067**
Sato, Chikara *see* **Fujisaka, Hisato, 93f:34064** *and* **93h:34003**
Schäffler, Stefan *see* **Fischer, Herbert; et al., 93i:62080**
Schlosser, Hartmut The rule of Littlewood/Richardson and its treatment by a computer. **93h:05176**
Schwarz, Fritz An algorithm for determining the size of symmetry groups. (English and German summaries) **93k:58240**
Shibata, Katsuyuki Micro-computer Prolog as a handy tool for formal algebraic computations. **93d:68013**
Shoup, Victor Fast construction of irreducible polynomials over finite fields. (English summary) **93m:11139**
Shparlinskiĭ, I. E. A deterministic test for permutation polynomials. (English summary) **93h:11136**
— On bivariate polynomial factorization over finite fields. (English summary) **93k:12008**
Sit, William Y. An algorithm for solving parametric linear systems. **93h:65062**
Song, Guo Wen *see* **Lu, Pei Zhong; et al., 93j:94018**
Stinson, Douglas R. *see* **Colbourn, Charles J.; et al., 93f:68037**
Stuber, Jürgen *see* **Ganzinger, Harald, 93m:68147**
Subramaniam, T. N. (*with* Malm, Donald E. G.) How to integrate rational functions. **93i:26008**
Sudan, Madhu *see* **Rubinfeld, Ronitt, 93f:68067**
Sugie, Noboru *see* **Ying, Jiang Qian**
Tate, Stephen R. *see* **Reif, John H., 93i:68091**
Teirlinck, Luc *see* **Colbourn, Charles J.; et al., 93f:68037**
Toyama, Yoshihito How to prove equivalence of term rewriting systems without induction. **93a:68070**
Tung, Shih Ping Polynomial time algorithms for sentences over number fields. **93g:03037**
Vardi, Ilan ★ Computational recreations in Mathematica. **93e:00002**
Warsitz, Hubert *see* **Fischer, Herbert; et al., 93i:62080**
Weispfenning, Volker Comprehensive Gröbner bases. (English summary) **93h:13029**
Wilf, Herbert S. (*with* Zeilberger, Doron) An algorithmic proof theory for hypergeometric (ordinary and "q") multisum/integral identities. **93k:33010**
Ying, Jiang Qian (*with* Sugie, Noboru) On sorting points along a real algebraic curve. (English summary)
Zeilberger, Doron *see* **Wilf, Herbert S., 93k:33010**
Zhou, Jin Jun *see* **Lu, Pei Zhong; et al., 93j:94018**
Zhuang, W. *see* **Hereman, W., 93m:65003**

Items listed otherwise than by author

Capri ★ Theoretical issues of design and implementation of symbolic computation systems. **93e:68005**
Symposium:
Design and Implementation of Symbolic Computation Systems ★ Theoretical issues of design and implementation of symbolic computation systems. **93e:68005**

Theoretical issues of design and implementation of symbolic computation systems
★ Theoretical issues of design and implementation of symbolic computation systems. **93e:68005**

68Q42 Rewriting systems

Akkerman, G. J. (*with* Baeten, J. C. M.) Term rewriting analysis in process algebra. **93f:68054**
Bachmair, Leo Associative-commutative reduction orderings. (English summary) **93i:68103**
Baeten, J. C. M. *see* **Akkerman, G. J., 93f:68054**
de Boer, Martin J. M. (*with* Lindenmayer, Aristid; Tuza, Zsolt) A periodic division pattern that cannot be generated by DOL systems. **93a:68068**
Burris, Stanley (*with* Lawrence, John W.) Term rewrite rules for finite fields. **93a:68069**
Dare, V. R. *see* **Thomas, Donald G.; et al., 93j:68095**
Dehornoy, Patrick A criterion for proving Noetherianity of a relation. **93e:68046**
Ehrig, Hartmut (*with* Habel, Annegret; Kreowski, Hans-Jörg; Parisi-Presicce, Francesco) Parallelism and concurrency in high-level replacement systems. **93e:68047**
Frougny, Christiane Confluent linear numeration systems. (English summary) **93j:68092**
Gallier, Jean H. (*with* Narendran, Paliath; Plaisted, David A.; Raatz, Stan; Snyder, Wayne) An algorithm for finding canonical sets of ground rewrite rules in polynomial time. (English summary) **93j:68093**
Habel, Annegret *see* **Ehrig, Hartmut; et al., 93e:68047**
Hofbauer, Dieter Termination proofs by multiset path ordering simply primitive recursive derivation lengths. (English summary) **93h:68068**
Kounalis, Emmanuel Testing for the ground (co-)reducibility property in term-rewriting systems. (English summary) **93j:68094**
Kreowski, Hans-Jörg *see* **Ehrig, Hartmut; et al., 93e:68047**
Kurihara, Masahito (*with* Ohuchi, Azuma) Modularity of simple termination of term rewriting systems with shared constructors. (English summary) **93i:68104**
Lafont, Yves (*with* Prouté, Alain) Church-Rosser property and homology of monoids. **93e:68048**
— Diagrammes de Penrose et réécriture en dimension 2. (English summary) [Penrose diagrams and rewriting in dimension 2] **93i:68105**
Laville, Alain Comparison of priority rules in pattern matching and term rewriting. **93g:68063**
Lawrence, John W. *see* **Burris, Stanley, 93a:68069**
Lescanne, Pierre Well rewrite orderings and well quasi-orderings. (English summary) **93k:68053**
Lin, Kai (*with* Sun, Yong Qiang) Confluence of left-linear rewriting systems. (Chinese. English and Chinese summaries) **93e:68049**
Lindenmayer, Aristid *see* **de Boer, Martin J. M.; et al., 93a:68068**
Müller, Fritz Confluence of the lambda calculus with left-linear algebraic rewriting. **93f:68055**
Narendran, Paliath *see* **Gallier, Jean H.; et al., 93j:68093**
Ohuchi, Azuma *see* **Kurihara, Masahito, 93i:68104**
Otto, Friedrich (*with* Zhang, Louxin) Decision problems for finite special string-rewriting systems that are confluent on some congruence class. **93e:68050**
— When is an extension of a specification consistent? Decidable and undecidable cases. **93f:68056**
— The problem of deciding confluence on a given congruence class is tractable for finite special string-rewriting systems. **93f:68057**
Parisi-Presicce, Francesco *see* **Ehrig, Hartmut; et al., 93e:68047**
Pelin, Alex Exact computation sequences. **93e:68051**
Plaisted, David A. *see* **Gallier, Jean H.; et al., 93j:68093**
Prouté, Alain *see* **Lafont, Yves, 93e:68048**
Raatz, Stan *see* **Gallier, Jean H.; et al., 93j:68093**
Reade, C. M. P. Balanced trees with removals: an exercise in rewriting and proof. **93e:68052**
Siromoney, Rani *see* **Thomas, Donald G.; et al., 93j:68095**
Slowinski, Karine Picture words with invisible lines. (English summary) **93k:68054**
Snyder, Wayne *see* **Gallier, Jean H.; et al., 93j:68093**
Subramanian, K. G. *see* **Thomas, Donald G.; et al., 93j:68095**
Sun, Yong Qiang *see* **Lin, Kai, 93e:68049**
Thomas, Donald G. (*with* Dare, V. R.; Subramanian, K. G.; Siromoney, Rani) Derivation sequences of semi-Thue and Thue systems. **93j:68095**
Toyama, Yoshihito How to prove equivalence of term rewriting systems without induction. **93a:68070**
Tuza, Zsolt *see* **de Boer, Martin J. M.; et al., 93a:68068**
Zhang, Louxin *see* **Otto, Friedrich, 93e:68050**
Zhang, Xu Bo Some results on the confluence property of combined term rewriting systems. **93c:68047**

Items with secondary classifications in 68Q42

Bachmair, Leo ★ Canonical equational proofs. **93e:68111**
Bonacina, Maria Paola (*with* Hsiang, Jieh) On rewrite programs: semantics and relationship with Prolog. (English summary) **93i:68126**
Cai, Jiazhen (*with* Paige, R.; Tarjan, Robert Endre) More efficient bottom-up multi-pattern matching in trees. (English summary) **93g:68054**
Dauchet, Max Simulation of Turing machines by a regular rewrite rule. (English summary) **93i:68064**
Han, Jiawei Binding propagation beyond the reach of rule/goal graphs. (English summary)
Hannan, John (*with* Miller, Dale A.) From operational semantics to abstract machines. (English summary) **93m:68113**
Hsiang, Jieh (*with* Kirchner, Hélène; Lescanne, Pierre; Rusinowitch, Michael) The term rewriting approach to automated theorem proving. (English summary) **93m:68148**
— *see also* **Bonacina, Maria Paola, 93i:68126**
Kelemen, Jozef A note on learning, fallibility, and cognitive resources use. (English summary)
Kirchner, Hélène *see* **Hsiang, Jieh; et al., 93m:68148**
Latteux, Michel Some results on semi-commutations. **93g:68064**
Launchbury, John ★ Projection factorisations in partial evaluation. **93a:68025**
Lescanne, Pierre *see* **Hsiang, Jieh; et al., 93m:68148**
Litovsky, Igor (*with* Métivier, Yves) Computing trees with graph rewriting systems with priorities. (English summary) **93m:68108**
Luckhardt, H. Complexity versus the Church-Rosser property and confluence. **93e:03020**
Meseguer, José Conditional rewriting logic as a unified model of concurrency. **93e:68020**
Métivier, Yves *see* **Litovsky, Igor, 93m:68108**
Miller, Dale A. *see* **Hannan, John, 93m:68113**
Mizoguchi, Yoshihiro A graph reduction system using graph terms. **93e:68066**
Narendran, Paliath (*with* Ó'Dúnlaing, Colm; Otto, Friedrich) It is undecidable whether a finite special string-rewriting system presents a group. **93a:20050**
Ó'Dúnlaing, Colm *see* **Narendran, Paliath; et al., 93a:20050**
Otto, Friedrich *see* **Narendran, Paliath; et al., 93a:20050**
Paige, R. *see* **Cai, Jiazhen; et al., 93g:68054**
Rõnn, Stefan On the regularity calculus and its role in distributed programming. (English summary) **93k:68067**
Rusinowitch, Michael *see* **Hsiang, Jieh; et al., 93m:68148**
Sarrafzadeh, Majid (*with* Wong, Chak Kuen) Bottleneck Steiner trees in the plane. **93c:68080**
Tarjan, Robert Endre *see* **Cai, Jiazhen; et al., 93g:68054**
Thatte, Satish R. A type system for implicit scaling. **93a:68087**
Waldmann, Uwe Semantics of order-sorted specifications. **93k:68070**
Wong, Chak Kuen *see* **Sarrafzadeh, Majid, 93c:68080**

68Q45 Formal languages [see also 03D05, 20M35, 94A45]

Aigrain, Philippe (*with* Nivat, Maurice) Suffix, prefix and maximal tree codes. (English summary) **93m:68096**
America, P. H. M. (*with* Rutten, Jan J. M. M.) ★ A parallel object-oriented language: design and semantic foundations. **93a:68071**
Arikawa, Setsuo (*with* Shinohara, Takeshi; Yamamoto, Akihiro) Learning elementary formal systems. **93b:68040**
Barrington, David A. Mix (*with* Compton, Kevin; Straubing, Howard; Thérien, Denis) Regular languages in NC^1. **93k:68055**
Beigel, Richard (*with* Bellare, Mihir; Feigenbaum, Joan; Goldwasser, Shafi) Languages that are easier than their proofs. (English summary) (*see* **93d:68005**)
Bellare, Mihir *see* **Beigel, Richard; et al., (93d:68005)**
Benzaken, Claude ★ Systèmes formels. (French) [Formal systems] **93h:68069**
Bilardi, Gianfranco *see* **Kapur, Shyam, 93i:68109**
Birget, Jean-Camille Intersection and union of regular languages and state complexity. **93k:68056**
Bisschop, J. J. (*with* Kuip, C. A. C.) Hierarchical sets in mathematical programming modeling languages. (English summary)
Boffa, Maurice Une remarque sur les systèmes complets d'identités rationnelles. (English summary) [A remark on complete systems of rational identities] **93b:68041**
Bonopera, Alain (*with* Gaujal, Bruno) Inference of reversible languages. (English summary) **93j:68096**
Book, Ronald V. (*with* Lutz, Jack H.) On languages with very high space-bounded Kolmogorov complexity. (English summary) **93m:68097**
Bovet, Daniel P. (*with* Varricchio, Stefano) On the regularity of languages on a binary alphabet generated by copying systems. (English summary) **93j:68097**
Burn, Geoffrey ★ Lazy functional languages: abstract interpretation and compilation. **93b:68042**
Clerbout, M. (*with* Roos, Y.) Semicommutations and algebraic languages. (English summary) **93j:68098**
Compton, Kevin *see* **Barrington, David A. Mix; et al., 93k:68055**
Culik, Karel, II (*with* Yu, Sheng) Cellular automata, $\omega\omega$-regular sets, and sofic systems. **93e:68053**
Dauchet, Max (*with* Tison, S.) Structural complexity of classes of tree languages. (English summary) **93j:68099**
Devolder, J. (*with* Timmerman, E.) Finitary codes for biinfinite words. (French summary) **93i:68106**
Đỗ Long Vân (*with* Le Saëc, Bertrand; Litovsky, Igor) Stability for the zigzag submonoids. (English and French summaries) **93m:68098**
— *see also* **Phan Trung Huy; et al., 93f:68061**
Dražil, Milan A grammatical inference for C-finite languages. (English summary) **93f:68058**
Duske, J. (*with* Middendorf, Matthias; Parchmann, R.) Indexed counter languages. (French summary) **93a:68072**
Engelfriet, Joost An elementary proof of double Greibach normal form.
Erol, Kutluhan (*with* Nau, Dana S.; Subrahmanian, V. S.) On the complexity of domain-independent planning. (English summary) (*see* **93j:68007**)
Feigenbaum, Joan *see* **Beigel, Richard; et al., (93d:68005)**
Flajolet, Philippe (*with* Gardy, Danièle; Thimonier, Loÿs) Birthday paradox, coupon collectors, caching algorithms and self-organizing search. (English summary) **93i:68107**
Gardy, Danièle *see* **Flajolet, Philippe; et al., 93i:68107**
Garzon, Max Graphical words and languages. **93h:68070**
Gastin, Paul (*with* Ochmański, Edward; Petit, Antoine; Rozoy, Brigitte) Decidability of the star problem in $A^* \times \{b\}^*$. (English summary) **93i:68108**
Gaujal, Bruno *see* **Bonopera, Alain, 93j:68096**
Gire, F. (*with* Nivat, Maurice) Langages algébriques de mots biinfinis. [Algebraic languages of bi-infinite words] **93a:68073**
Goldwasser, Shafi *see* **Beigel, Richard; et al., (93d:68005)**
Guaiana, Giovanna (*with* Restivo, Antonio; Salemi, Sergio) Star-free trace languages. **93c:68048**
Harrison, Michael A. Proving nonmembership in certain families of context free languages. (*see* **93a:68009**)
Hashiguchi, Kosaburo *see* **Yoo, Heekeun, 93h:68074**
Hsü, Sên Chu (*with* Shih, Hui Jan) Some properties of balanced languages. (English summary) **93m:68099**

Hughes, Simon Compile-time garbage collection for higher-order functional languages. (English summary)
Huỳnh, Dũng T. Efficient detectors and constructors for simple languages. **93b:68043**
— Nonuniform complexity and the randomness of certain complete languages. **93h:68071**
Ibarra, Oscar H. (*with* Jiang, Tao[1]; Wang, Hui) A characterization of exponential-time languages by alternating context-free grammars. **93j:68100**
Igarashi, Yoshihide (*with* Osawa, Shingo; Shibata, Yukio) Some language families generated by one-letter languages. **93c:68049**
Ito, Masami[1] (*with* Katsura, Masashi) Dense languages and languages related to primitive words. (*see* **93b:00022**)
— (*with* Jürgensen, Helmut; Shih, Hui Jan; Thierrin, G.) Languages whose n-element subsets are codes. **93f:68059**
Jalobeanu, Cireşica Approximation problems in languages. (English summary) **93m:68100**
Jiang, S. W. (*with* Shih, Hui Jan; Yü, Shih Shêng) Completely disjunctive languages. **93c:68050**
Jiang, Tao[1] *see* **Ibarra, Oscar H.; et al., 93j:68100**
Jürgensen, Helmut *see* **Ito, Masami[1]; et al., 93f:68059**
Kapur, Shyam (*with* Bilardi, Gianfranco) On uniform learnability of language families. **93i:68109**
Katsura, Masashi *see* **Ito, Masami[1]**, (**93b:00022**)
Knuth, Donald E. Context-free multilanguages. (*see* **93a:68009**)
Krob, Daniel Matrix versions of aperiodic K-rational identities. (French summary) **93f:68060**
— Complete systems of $\mathscr{R}$-rational identities. **93e:68054**
— Differentiation of K-rational expressions. **93e:68055**
— Models of a K-rational identity system. (English summary) **93m:68101**
Kuip, C. A. C. *see* **Bisschop, J. J.**
Latteux, Michel Some results on semi-commutations. **93g:68064**
Lehr, S. A result about languages concerning paperfolding sequences. **93c:68051**
Lenzerini, Maurizio (*with* Schaerf, Andrea) Concept languages as query languages. (English summary) **93j:68101**
Le Saëc, Bertrand *see* **Đỗ Long Vân; et al., 93m:68098**
Litovsky, Igor *see* **Đỗ Long Vân; et al., 93m:68098**
Livotsky, Igor *see* **Phan Trung Huy; et al., 93f:68061**
Lutz, Jack H. *see* **Book, Ronald V., 93m:68097**
Mäkinen, Erkki On grammatical inference and derivational complexity of context-free grammars. (English summary) **93m:68102**
Middendorf, Matthias *see* **Duske, J.; et al., 93a:68072**
Miller, Michael I. (*with* O'Sullivan, Joseph A.) Entropies and combinatorics of random branching processes and context-free languages. **93m:68103**
Nau, Dana S. *see* **Erol, Kutluhan; et al., (93j:68007)**
Nguyen Xuan My On Lindenmayer systems and string adjunct schemes. **93c:68052**
Nirmal, Nalinakshi (*with* Rama, R.) Machine characterization of (EOL-EOL) array languages. **93a:68074**
Nivat, Maurice *see* **Gire, F., 93a:68073** *and* **Aigrain, Philippe, 93m:68096**
Ochmański, Edward *see* **Gastin, Paul; et al., 93i:68108**
Osawa, Shingo *see* **Igarashi, Yoshihide; et al., 93c:68049**
O'Sullivan, Joseph A. *see* **Miller, Michael I., 93m:68103**
Parchmann, R. *see* **Duske, J.; et al., 93a:68072**
Păun, Gheorghe (*with* Szijártó, Miklós; Vicolov, Sorina) Further remarks on reduced languages. (English summary) **93j:68102**
— (*with* Szijártó, Miklós) Language characterization by using the filter operation. (English summary) **93g:68065**
— (*with* Petit, Antoine) Generalized reduced languages. (English summary) **93j:68103**
Péladeau, Pierre Sur le produit avec compteur modulo un nombre premier. (English and French summaries) [Counting modulo a prime number product] **93m:68104**
Petit, Antoine *see* **Gastin, Paul; et al., 93i:68108** *and* **Păun, Gheorghe, 93j:68103**
Phan Trung Huy (*with* Livotsky, Igor; Đỗ Long Vân) Which finite monoids are syntactic monoids of rational ω-languages. **93f:68061**
Pierre, Laurent Rational indexes of generators of the cone of context-free languages. **93d:68040**
Pin, Jean-Eric (*with* Straubing, Howard; Thérien, Denis) Some results on the generalized star-height problem. (English summary) **93m:68105**
Pivnitskaya, K. K. A characterization of a class of enumerable languages. (Russian) **93e:68056**
Rama, R. *see* **Nirmal, Nalinakshi, 93a:68074**
Restivo, Antonio *see* **Guaiana, Giovanna; et al., 93c:68048**
Robinson, T. *see* **Siromoney, Rani; et al., (93m:68004)**
Robson, J. M. More languages of generalised star height 1. (English summary) **93j:68104**
Roos, Y. *see* **Clerbout, M., 93j:68098**
Rozoy, Brigitte *see* **Gastin, Paul; et al., 93i:68108**
Rutten, Jan J. M. M. *see* **America, P. H. M., 93a:68071**
Salemi, Sergio *see* **Guaiana, Giovanna; et al., 93c:68048**
Salomaa, Arto Simple reductions between DOL language and sequence equivalence problems. (English summary)
Schaerf, Andrea *see* **Lenzerini, Maurizio, 93j:68101**
Schwer, Sylviane R. The context-freeness of the languages associated with vector addition systems is decidable. **93h:68072**
Sheremet, I. A. Efficient coding of formalized messages. (Russian. English and Ukrainian summaries) **93h:68073**
Shibata, Yukio *see* **Igarashi, Yoshihide; et al., 93c:68049**
Shih, Hui Jan *see* **Jiang, S. W.; et al., 93c:68050**; **Ito, Masami[1]; et al., 93f:68059** *and* **Hsü, Sên Chu, 93m:68099**
Shinohara, Takeshi *see* **Arikawa, Setsuo; et al., 93b:68040**
Shoudai, Takayoshi A P-complete language describable with iterated shuffle. **93i:68110**
Siromoney, Rani (*with* Subramanian, K. G.; Robinson, T.) Map L systems with multiple markers. (English summary) (*see* **93m:68004**)
Straubing, Howard (*with* Weil, Pascal) On a conjecture concerning dot-depth two languages. (English and French summaries) **93j:68105**
— *see also* **Barrington, David A. Mix; et al., 93k:68055** *and* **Pin, Jean-Eric; et al., 93m:68105**
Subrahmanian, V. S. *see* **Erol, Kutluhan; et al., (93j:68007)**
Subramanian, K. G. *see* **Siromoney, Rani; et al., (93m:68004)**
Szijártó, Miklós *see* **Păun, Gheorghe, 93g:68065** *and* **93j:68102**
Takahashi, Masako *see* **Yamasaki, Hideki, 93c:68054**
Thanh, Hoang Chi Behavioural synchronizations of net systems. (English summary) **93m:68106**
Thérien, Denis *see* **Barrington, David A. Mix; et al., 93k:68055** *and* **Pin, Jean-Eric; et al., 93m:68105**
Thierrin, G. *see* **Ito, Masami[1]; et al., 93f:68059**
Thimonier, Loÿs *see* **Flajolet, Philippe; et al., 93i:68107**
Timmerman, E. *see* **Devolder, J., 93i:68106**
Timofeeva, M. K. Action languages. (Russian. Russian summary) **93m:68107**
Tison, S. *see* **Dauchet, Max, 93j:68099**
Urbanek, Friedrich Über eine Klasse von Sprachoperationen und deren Verallgemeinerung auf formale Potenzreihen. [On a class of language operations and their generalization to formal power series] **93c:68053**
Varricchio, Stefano Rational series with coefficients in a commutative ring. **93f:68062**
— *see also* **Bovet, Daniel P., 93j:68097**
Venkateswaran, H. Properties that characterize LOGCFL. **93e:68057**
Vicolov, Sorina A note on fully initial grammars. **93e:68058**
— *see also* **Păun, Gheorghe; et al., 93j:68102**
Wang, Hao[2] FRD-domains and RF-right disjunctive languages. (Chinese. English summary) **93j:68106**
Wang, Hui *see* **Ibarra, Oscar H.; et al., 93j:68100**
Weil, Pascal *see* **Straubing, Howard, 93j:68105**
Yamamoto, Akihiro *see* **Arikawa, Setsuo; et al., 93b:68040**
Yamasaki, Hideki (*with* Takahashi, Masako) On subclasses of ω-regular languages. **93c:68054**
Yang, Liu Ji Isomorphism of languages. (Chinese. English summary) **93c:68055**
Yoo, Heekeun (*with* Hashiguchi, Kosaburo) Extended regular expressions of arbitrary star degrees. **93h:68074**
Yu, Sheng *see* **Culik, Karel, II, 93e:68053**
Yü, Shih Shêng *see* **Jiang, S. W.; et al., 93c:68050**

Items with secondary classifications in 68Q45

Abiteboul, Serge (*with* Vianu, Victor) Datalog extensions for database queries and updates. **93c:68012**
Allouche, Jean-Paul The number of factors in a paperfolding sequence. **93f:11020**
Barua, Rana The Hausdorff-Kuratowski hierarchy of ω-regular languages and a hierarchy of Muller automata. **93k:03036**
Bar-Yehuda, Reuven (*with* Etzion, Tuvi; Moran, Shlomo) Rotating-table games and derivatives of words. (English summary) **93m:68138**
Bauderon, Michel Infinite hypergraphs. II. Systems of recursive equations. (English and French summaries) **93j:68116**
Bertoni, A. (*with* Massazza, P.; Sabadini, N.) Holonomic generating functions and context free languages. (English summary) **93m:03063**
Björner, Anders (*with* Reutenauer, Christophe) Rationality of the Möbius function of subword order. **93k:68081**
Blanchet-Sadri, F. Games, equations and dot-depth two monoids. (English summary) **93h:20073**
Bozapalidis, Symeon Alphabetic tree relations. **93g:68092**
Bruyère, Véronique (*with* De Felice, Clelia) Synchronization and decomposability for a family of codes. (English summary) **93i:94009**
Cauchon, G. Séries de Mal'cev-Neumann sur le groupe libre et questions de rationalité. (English summary) [Mal'tsev-Neumann series on a free group and rationality questions] **93d:20049**
Cohen, Daniel I. A. ★ Introduction to computer theory. **93i:68003**
Corazza, A. (*with* De Mori, R.; Satta, G.) Computation of upper-bounds for stochastic context-free languages. (English summary) (*see* **93j:68007**)
Damphousse, Pierre Automates et langages. (English summary) [Automata and languages] **93g:68093**
Dassow, Jürgen (*with* Păun, Gheorghe) On the succinctness of descriptions of context-free languages by cooperating/distributed grammar systems. (Russian summary) **93i:68111**
— (*with* Hromkovič, Juraj) On synchronized Lindenmayer picture languages. (English summary) (*see* **93m:68004**)
De Felice, Clelia *see* **Bruyère, Véronique, 93i:94009**
Delest, M.-P. Polyominoes and animals: some recent results. **93e:05024**
De Mori, R. *see* **Corazza, A.; et al., (93j:68007)**
Đỗ Long Vân (*with* Le Saëc, Bertrand; Litovsky, Igor) On coding morphisms for zigzag codes. (English and French summaries) **93m:20105**
— (*with* Phan Trung Huy) Varieties of finite monoids and Büchi-McNaughton theorem. **93m:68123**
Dong, Guozhu On datalog linearization of chain queries. **93h:68032**
Duchamp, Gérard (*with* Krob, Daniel) On the partially commutative shuffle product. **93g:68060**
Dvortsovoi, D. V. *see* **Moshchenskii, V. A., 93j:68110**
Engelfriet, Joost (*with* Heyker, Linda) Context-free hypergraph grammars have the same term-generating power as attribute grammars. **93c:68056**
Ésik, Zoltán Varieties of automata and transformation semigroups. **93g:20119**
Etzion, Tuvi *see* **Bar-Yehuda, Reuven; et al., 93m:68138**
Farmer, William M. Simple second-order languages for which unification is undecidable. **93h:03061**
Fiebig, Doris (*with* Fiebig, Ulf-Rainer) Covers for coded systems. (English summary) **93m:54068**
Fiebig, Ulf-Rainer *see* **Fiebig, Doris, 93m:54068**
Fortnow, Lance (*with* Szegedy, Márió) On the power of two-local random reductions. (English summary) **93k:68032**
Foryś, Wit On equality sets of morphisms in topological free monoids. (French summary) **93c:20095**
— A characterization of the +-variety of finite and cofinite languages. **93c:20107**

Freivalds, Rūsiņš Complexity of probabilistic versus deterministic automata. **93b:68060**
Garg, Vijay Kumar (*with* Ragunath, M. T.) Concurrent regular expressions and their relationship to Petri nets. **93h:68106**
Gatterdam, R. W. Algorithms for splicing systems. **93f:92017**
Giorgi, J.-F. (*with* Le Métayer, D.) Continuation-based compilation of functional languages for parallel machines. (English summary) **93j:68057**
Girault-Beauquier, Danièle (*with* Pin, Jean-Eric) Languages and scanners. **93g:20124**
Greibach, Sheila (*with* Shi, Weiping; Simonson, Shai) Single tree grammars. **93g:68067**
Gu, Chang Kang *see* **Zhang, Liang**, **93f:94012**
Harju, T. (*with* Kleijn, H. C. M.; Latteux, Michel) Deterministic sequential functions. (English summary) **93h:68093**
— (*with* Kleijn, H. C. M.; Latteux, Michel) Compositional representation of rational functions. (French summary) **93j:68144**
Henckell, Karsten (*with* Margolis, Stuart W.; Pin, Jean-Eric; Rhodes, John) Ash's type II theorem, profinite topology and Malʹcev products. I. **93h:20064**
Heyker, Linda *see* **Engelfriet, Joost**, **93c:68056**
Homer, Steven (*with* Selman, Alan L.) Oracles for structural properties: the isomorphism problem and public-key cryptography. **93j:68060**
Hromkovič, Juraj *see* **Dassow, Jürgen**, (**93m:68004**)
Ito, Masami[1] (*with* Reis, C. M.) Left dense covers of semigroups. **93h:20066**
Karner, Georg Nivat's theorem for pushdown transducers. **93m:68125**
Kelemen, Jozef A note on learning, fallibility, and cognitive resources use. (English summary)
Kelemenová, Alica Minimal context in regenerative *IL*-systems. **93b:92001**
Kleijn, H. C. M. *see* **Harju, T.; et al.**, **93h:68093** *and* **93j:68144**
Krob, Daniel *see* **Duchamp, Gérard**, **93g:68060**
Kumar, P. Ramesh Biorder relations in languages. (English summary) **93k:20099**
Küster, Gerhard On the Hurwitz product of formal power series and automata. **93b:68056**
Kutylowski, Mirosław Multihead one-way finite automata. **93a:68103**
Lambert, Jean-Luc The local catenativity of DOL-sequences in free commutative monoids is decidable in the binary case. (English and French summaries) **93i:20068**
Latteux, Michel *see* **Harju, T.; et al.**, **93h:68093** *and* **93j:68144**
Le Métayer, D. *see* **Giorgi, J.-F.**, **93j:68057**
Le Saëc, Bertrand *see* **Đỗ Long Vân; et al.**, **93m:20105**
Litovsky, Igor *see* **Đỗ Long Vân; et al.**, **93m:20105**
Margolis, Stuart W. *see* **Henckell, Karsten; et al.**, **93h:20064**
Massazza, P. *see* **Bertoni, A.; et al.**, **93m:03063**
Mazoyer, J. (*with* Reimen, N.) A linear speed-up theorem for cellular automata. (English summary) **93e:68082**
Melichar, Bořivoj Formal translation directed by LR parsing. **93e:68106**
Métivier, Yves (*with* Rozoy, Brigitte) On the star operation in free partially commutative monoids. **93a:20087**
Monti, A. (*with* Parente, D.) Systolic tree with base automata. **93a:68104**
Moran, Shlomo *see* **Bar-Yehuda, Reuven; et al.**, **93m:68138**
Moshchenskiĭ, V. A. (*with* Dvortsovoĭ, D. V.) Context-free and axiomatic grammars. (Russian. Russian summary) **93j:68110**
Palis, Michael A. (*with* Shende, Sunil M.) Upper bounds on recognition of a hierarchy of non-context-free languages. **93c:68058**
Parente, D. *see* **Monti, A.**, **93a:68104**
Păun, Gheorghe (*with* Szakács, M.) On a class of finite automata. (English summary) **93g:68096**
— Anti-Langford sequences without adjacent repetitions. (Romanian. English and Romanian summaries) **93j:68161**
— *see also* **Dassow, Jürgen**, **93i:68111**
Péladeau, Pierre Formulas, numerical predicates and recognizable languages. **93b:68059**
— Logically defined subsets of N^k. **93d:03044**
Pelin, Alex Exact computation sequences. **93e:68051**
Phan Trung Huy *see* **Đỗ Long Vân**, **93m:68123**
Pin, Jean-Eric *see* **Girault-Beauquier, Danièle**, **93g:20124** *and* **Henckell, Karsten; et al.**, **93h:20064**
Ragunath, M. T. *see* **Garg, Vijay Kumar**, **93h:68106**
Régnier, M. Enumeration of bordered words. The language of the laughing cow. (French summary) **93g:68111**
Reimen, N. *see* **Mazoyer, J.**, **93e:68082**
Reis, C. M. *see* **Ito, Masami[1]**, **93h:20066**
Reutenauer, Christophe *see* **Björner, Anders**, **93k:68081**
Rhodes, John *see* **Henckell, Karsten; et al.**, **93h:20064**
Rozoy, Brigitte (*with* Thiagarajan, P. S.) Event structures and trace monoids. (French summary) **93b:68002**
— *see also* **Métivier, Yves**, **93a:20087**
Sabadini, N. *see* **Bertoni, A.; et al.**, **93m:03063**
Saoudi, Ahmed Rational and recognizable infinite tree sets. **93k:68073**
Satta, G. *see* **Corazza, A.; et al.**, (**93j:68007**)
Satyanarayana, M. Uniformly synchronous codes. **93j:94014**
Schwer, Sylviane R. Fine covers of a VAS language. **93e:68090**
Selman, Alan L. *see* **Homer, Steven**, **93j:68060**
Sezinando, Helena The varieties of languages corresponding to the varieties of finite band monoids. **93d:20105**
Shende, Sunil M. *see* **Palis, Michael A.**, **93c:68058**
Shi, Weiping *see* **Greibach, Sheila; et al.**, **93g:68067**
Silva, Pedro V. Rational languages and inverse monoid presentations. (English summary) **93e:20074**
Simonson, Shai *see* **Greibach, Sheila; et al.**, **93g:68067**
Slobodová, Anna Communication for alternating machines. (English summary) **93j:68058**
Szakács, M. *see* **Păun, Gheorghe**, **93g:68096**
Szegedy, Mário *see* **Fortnow, Lance**, **93k:68032**
Thérien, Denis Two-sided wreath product of categories. **93c:18007**
Thiagarajan, P. S. *see* **Rozoy, Brigitte**, **93b:68002**
Ushio, Toshimitsu The augmented language and its application in supervisory control. (English summary) (*see* **93g:93006**)
Vassilakis, Spyros Some economic applications of Scott domains. (English summary) **93i:90027**
Vianu, Victor *see* **Abiteboul, Serge**, **93c:68012**
Zhang, Liang (*with* Gu, Chang Kang) On factorization of finite maximal codes. **93f:94012**

Items listed otherwise than by author

Algebraic theory of codes and combinatorics on words ★ Daisūteki kōdo riron oyobi go no kumiawaseron. (Japanese) [Algebraic theory of codes and combinatorics on words] **93g:94003**
Symposium:
Algebraic Theory of Codes and Combinatorics on Words ★ Daisūteki kōdo riron oyobi go no kumiawaseron. (Japanese) [Algebraic theory of codes and combinatorics on words] **93g:94003**

68Q50 Grammars [see also 03D05]

Chau, H. Lewis (*with* Parker, D. Stott) Narrowing grammar: theory, implementation, and applications. (English summary) **93j:68107**
Chebotarʹ, K. S. A practical approach to the solution of the circulatory problem for attribute grammars. (Russian. English and Moldavian summaries) **93f:68063**
Csuhaj-Varjú, Erzsébet (*with* Dassow, Jürgen) On bounded interpretations of grammar forms. **93a:68075**
— (*with* Dassow, Jürgen; Păun, Gheorghe) Dynamically controlled cooperating/distributed grammar systems. (English summary) **93k:68057**
Dassow, Jürgen (*with* Păun, Gheorghe) On the succinctness of descriptions of context-free languages by cooperating/distributed grammar systems. (Russian summary) **93i:68111**
— *see also* **Csuhaj-Varjú, Erzsébet**, **93a:68075** *and* **93k:68057**
Delest, M.-P. (*with* Fedou, J. M.) Attribute grammars are useful for combinatorics. **93e:68059**
Drášil, Milan (*with* Novotný, Miroslav) A characterization of harmonic languages. (English summary) **93g:68066**
Drewes, Frank NP-completeness of k-connected hyperedge-replacement languages of order k. (English summary) **93k:68058**
Dvortsovoĭ, D. V. *see* **Moshchenskiĭ, V. A.**, **93j:68110**
Ehrenfeucht, Andrzej (*with* Rozenberg, Grzegorz) Grammatical codes of trees. **93b:68044**
Ehrig, Hartmut (*with* Taentzer, Gabriele) From parallel graph grammars to parallel high-level replacement systems. (English summary) (*see* **93m:68004**)
Engelfriet, Joost (*with* Heyker, Linda) Context-free hypergraph grammars have the same term-generating power as attribute grammars. **93c:68056**
Fedou, J. M. *see* **Delest, M.-P.**, **93e:68059**
Fujii, Mamoru *see* **Seki, Hiroyuki; et al.**, **93d:68041**
Greibach, Sheila (*with* Shi, Weiping; Simonson, Shai) Single tree grammars. **93g:68067**
Grönfors, T. (*with* Juhola, M.) Experiments and comparison of inference methods of regular grammars. (English summary)
Hausser, Roland Complexity in left-associative grammar. (English summary) **93j:68108**
Heyker, Linda *see* **Engelfriet, Joost**, **93c:68056**
Hunt, H. B., III *see* **Rosenkrantz, Daniel J.**, **93j:68113**
Isakowitz, T. Can we transform logic programs into attribute grammars? (French summary) **93a:68076**
Joshi, Aravind K. (*with* Schabes, Yves) Tree-adjoining grammars and lexicalized grammars. **93j:68109**
Juhola, M. *see* **Grönfors, T.**
Kari, Jarkko *see* **Sântean, Lila**, **93g:68069**
Kasami, Tadao *see* **Seki, Hiroyuki; et al.**, **93d:68041**
Kauffman, Stuart A. Random grammars: a new class of models for functional integration and transformation in the biological, neural, and social sciences. (English summary) (*see* **93h:68003**)
Kelemen, Jozef (*with* Kelemenová, Alica) A grammar-theoretic treatment of multiagent systems. (English summary) **93h:68075**
Kelemenová, Alica *see* **Kelemen, Jozef**, **93h:68075**
Kindler-Carrère, Frédérique Dérivations parallèles et langages k-adjacents. [Parallel derivations and k-adjacent languages] **93c:68057**
Lampe, Jürgen Ein Lokalitätskonzept für die parallele Sprachverarbeitung mit Attribut-grammatiken. [A concept of locality for attribute-grammar-based language processing]
Litovsky, Igor (*with* Métivier, Yves) Computing trees with graph rewriting systems with priorities. (English summary) **93m:68108**
Mäkinen, Erkki On the generative capacity of context-free matrix grammars over one-letter alphabet. **93g:68068**
Maruyama, Hiroshi Constraint dependency grammar and its weak generative capacity. (English summary) **93m:68109**
Matsumura, Takashi *see* **Seki, Hiroyuki; et al.**, **93d:68041**
Meduna, Alexandr Symbiotic EOL systems. (English summary) **93k:68059**
Métivier, Yves *see* **Litovsky, Igor**, **93m:68108**
Miller, Michael I. (*with* Roysam, Badrinath; Smith, Kurt; Udding, Jan Tijmen) On the equivalence of regular grammars and stochastic constraints: applications to image processing on massively parallel processors. (English summary) **93h:68076**
Moshchenskiĭ, V. A. (*with* Dvortsovoĭ, D. V.) Context-free and axiomatic grammars. (Russian. Russian summary) **93j:68110**
Nakata, Ikuo (*with* Sassa, Masataka) Regular expressions with semantic rules and their application to data structure directed programs. (English summary) **93k:68060**
Nishino, Tetsuro Relating attribute grammars and lexical-functional grammars. (English summary) **93j:68111**
Novotný, Miroslav *see* **Drášil, Milan**, **93g:68066**
Palis, Michael A. (*with* Shende, Sunil M.) Upper bounds on recognition of a hierarchy of non-context-free languages. **93c:68058**
Parker, D. Stott *see* **Chau, H. Lewis**, **93j:68107**
Păun, Gheorghe On the syntactic complexity of parallel communicating grammar systems. **93i:68112**
— *see also* **Dassow, Jürgen**, **93i:68111** *and* **Csuhaj-Varjú, Erzsébet; et al.**, **93k:68057**
Raoult, Jean-Claude A survey of tree transductions. (English summary) **93j:68112**

Rosenkrantz, Daniel J. (*with* Hunt, H. B., III) The complexity of structural containment and equivalence. **93j:68113**
Roysam, Badrinath *see* **Miller, Michael I.; et al., 93h:68076**
Rozenberg, Grzegorz *see* **Ehrenfeucht, Andrzej, 93b:68044**
Sântean, Lila (*with* Kari, Jarkko) The impact of the number of cooperating grammars on the generative power. **93g:68069**
Sassa, Masataka *see* **Nakata, Ikuo, 93k:68060**
Schabes, Yves *see* **Joshi, Aravind K., 93j:68109**
Schneider, Hans-Jürgen On categorical graph grammars integrating structural transformations and operations on labels. (English summary) **93j:68114**
Seki, Hiroyuki (*with* Matsumura, Takashi; Fujii, Mamoru; Kasami, Tadao) On multiple context-free grammars. **93d:68041**
Shende, Sunil M. *see* **Palis, Michael A., 93c:68058**
Shi, Weiping *see* **Greibach, Sheila; et al., 93g:68067**
Shu, Lan On fuzzy type 3 attribute grammars and fuzzy attributed automata. (Chinese. English and Chinese summaries) **93i:68113**
— Pushdown automata accepted fuzzy context-free language. (English and Chinese summaries) **93k:68061**
Simonson, Shai *see* **Greibach, Sheila; et al., 93g:68067**
Sleator, Daniel D. (*with* Tarjan, Robert Endre; Thurston, William P.) Short encodings of evolving structures. **93m:68110**
Smith, Kurt *see* **Miller, Michael I.; et al., 93h:68076**
Taentzer, Gabriele *see* **Ehrig, Hartmut, (93m:68004)**
Takeuchi, Yoshiko *see* **Yoshida, Keiichi**
Tarjan, Robert Endre *see* **Sleator, Daniel D.; et al., 93m:68110**
Thurston, William P. *see* **Sleator, Daniel D.; et al., 93m:68110**
Udding, Jan Tijmen *see* **Miller, Michael I.; et al., 93h:68076**
Vicolov, Sorina Noncentralized parallel grammar systems. (Romanian. English and Romanian summaries) **93j:68115**
Yoshida, Keiichi (*with* Takeuchi, Yoshiko) An algorithm for constructing a semi-LL(2) grammar's parsing table. (English summary)

Items with secondary classifications in 68Q50

Carpenter, Bob Typed feature structures: a generalization of first-order terms. (English summary) (*see* **93i:68009**)
Engelfriet, Joost An elementary proof of double Greibach normal form.
Gorbunov, K. Yu. A recursively enumerable family of context-free grammars that generates the class of unambiguous languages does not exist. (Russian) **93f:03026**
Huỳnh, Dũng T. The complexity of deciding code and monoid properties for regular sets. **93g:68043**
Kelemen, Jozef A note on learning, fallibility, and cognitive resources use. (English summary)
Kelemenová, Alica Minimal context in regenerative IL-systems. **93b:92001**
Kur'erov, Yu. N. Logical formalisms for the representation of knowledge. (Russian. English and Ukrainian summaries) **93k:68094**
Mäkinen, Erkki On grammatical inference and derivational complexity of context-free grammars. (English summary) **93m:68102**
Nguyen Xuan My On Lindenmayer systems and string adjunct schemes. **93c:68052**
Talcott, Carolyn Binding structures. **93f:68053**

68Q52 Parsing [see also 68N20]

Augusteijn, Lex *see* **Leermakers, René; et al., 93i:68115**
Bauderon, Michel Infinite hypergraphs. II. Systems of recursive equations. (English and French summaries) **93j:68116**
Eisner, Jason M. *see* **Jones, Mark A., (93j:68007)**
Fisher, Anthony J. A "yo-yo" parsing algorithm for a large class of van Wijngaarden grammars. (English summary) **93f:68064**
Hesselink, Wim H. LR-parsing derived. (English summary) **93j:68117**
Hutton, Graham Higher-order functions for parsing. (English summary) **93h:68077**
Jones, Mark A. (*with* Eisner, Jason M.) A probabilistic parser applied to software testing documents. (English summary) (*see* **93j:68007**)
Kruseman Aretz, Frans E. J. *see* **Leermakers, René; et al., 93i:68115**
Leermakers, René Recursive ascent parsing: from Earley to Marcus. (English summary) **93i:68114**
— (*with* Augusteijn, Lex; Kruseman Aretz, Frans E. J.) A functional LR parser. (English summary) **93i:68115**

Items with secondary classifications in 68Q52

Melichar, Bořivoj Formal translation directed by LR parsing. **93e:68106**

68Q55 Semantics [see also 03B70, 06B35]

Aczel, Peter (*with* Lunnon, Rachel) Universes and parameters. (*see* **92m:68006**)
Alferes, José Júlio *see* **Pereira, Luís Moniz; et al., 93j:68124** *and* **(93i:68007)**
Aparício, Joaquim Nunes *see* **Pereira, Luís Moniz; et al., 93j:68124** *and* **(93i:68007)**
Balbiani, Philippe Modal logic and negation as failure. **93a:68077**
— A modal semantics of negation in logic programming. (English summary) **93e:68060**
Baratella, Stefano A completeness result for allowed semi-strict programs with respect to well-behaved and allowed query clauses. **93g:68070**
Barbanera, Franco (*with* Dezani-Ciancaglini, Mariangiola) Intersection and union types. **93g:68071**
Belmesk, M. (*with* Habbas, Z.) A process calculus with shared variables. (English summary) **93j:68118**
Blanc, G. (*with* Bleuzen-Guernalec, N.) Algèbres effectives dans la programmation logique avec contraintes. (English summary) [Effective algebras in constraint logic programming] **93j:68119**
Bleuzen-Guernalec, N. *see* **Blanc, G., 93j:68119**
de Boer, Frank S. (*with* Kok, Joost N.; Palamidessi, Catuscia; Rutten, Jan J. M. M.) From failure to success: comparing a denotational and a declarative semantics for Horn clause logic. (English summary) **93i:68116**
Broy, Manfred Operational and denotational semantics with explicit concurrency. (English summary) **93e:68061**
Bruce, Kim B. (*with* Di Cosmo, Roberto; Longo, Giuseppe[1]) Provable isomorphisms of types. **93g:68072**
Casley, Ross (*with* Crew, Roger F.; Meseguer, José; Pratt, Vaughan) Temporal structures. **93i:68117**
Cherief, Ferroudja Investigations of back and forth bisimulations on prime event structures. (English summary) **93i:68118**
Cockett, J. R. B. (*with* Seely, R. A. G.) Weakly distributive categories. (English summary) (*see* 93d:68001)
Cousot, Patrick (*with* Cousot, Radhia) Abstract interpretation and application to logic programs. **93g:68073**
Cousot, Radhia *see* **Cousot, Patrick, 93g:68073**
Crew, Roger F. *see* **Casley, Ross; et al., 93i:68117**
Crole, Roy L. (*with* Pitts, Andrew M.) New foundations for fixpoint computations: FIX-hyperdoctrines and the FIX-logic. **93c:68059**
Curien, Pierre-Louis Sequentiality and full abstraction. (English summary) **93i:68119**
— (*with* Ghelli, Giorgio) Coherence of subsumption, minimum typing and type-checking in $F_{\leq}$. **93i:68120**
Delahaye, J.-P. Les interprétations partielles et leurs applications á la programmation logique. [Partial interpretations and their applications to logic programming] (*see* **93d:68003**)
Dezani-Ciancaglini, Mariangiola *see* **Barbanera, Franco, 93g:68071**
Diaconescu, Răzvan Contraction algebras and unification of (infinite) terms. **93h:68078**
Di Cosmo, Roberto *see* **Bruce, Kim B.; et al., 93g:68072**
Dionne, Robert (*with* Mays, Eric; Oles, Frank J.) A non-well-founded approach to terminological cycles. (English summary) **93k:68062**
Droste, Manfred (*with* Göbel, Rüdiger) Universal information systems. **93a:68078**
— Finite axiomatizations for universal domains. **93g:68074**
Fitting, Melvin C. Well-founded semantics, generalized. (English summary) **93m:68111**
Freyd, Peter J. (*with* Mulry, Philip S.; Rosolini, G.; Scott, Dana S.) Extensional PERs. **93f:68065**
German, Steven M. Semantics and reasoning with free procedures. **93m:68112**
Ghelli, Giorgio *see* **Curien, Pierre-Louis, 93i:68120**
Göbel, Rüdiger *see* **Droste, Manfred, 93a:68078**
Habbas, Z. *see* **Belmesk, M., 93j:68118**
Hannan, John (*with* Miller, Dale A.) From operational semantics to abstract machines. (English summary) **93m:68113**
Harper, Robert Constructing type systems over an operational semantics. (English summary) **93i:68121**
He, Jifeng *see* **Martin, C. E.; et al., 93e:68064**
Heckmann, Reinhold Power domain constructions. **93a:68079**
Hilken, Barney P. (*with* Rydeheard, David E.) Towards a categorical semantics of type classes. **93k:68063**
Hoare, C. A. R. *see* **Martin, C. E.; et al., 93e:68064**
Hughes, John (*with* Launchbury, John) Relational reversal of abstract interpretation. (English summary) **93h:68079**
Hyland, J. M. E. First steps in synthetic domain theory. **93g:68075**
Ida, Tetsuo (*with* Nakamura, Atsushi; Suzuki, Taro; Nakagawa, Koji) Abstract machine approach to operational semantics of Prolog. (English summary) **93m:68114**
Jacobs, Bart Semantics of the second order lambda calculus. **93c:68060**
Janicki, Ryszard (*with* Koutny, Maciej) Invariant semantics of nets with inhibitor arcs. **93a:68080**
Jensen, Thomas P. Strictness analysis in logical form. **93a:68081**
Jiang, Ying Le sémantique continue du lambda calcul est incompatible avec l'existence d'un rétraction universelle. (English summary) [The Scott semantics of lambda calculus is incompatible with the existence of a universal retraction] **93c:68061**
Jiang, Yue Jun A first step towards autoepistemic logic programming. (Russian summary) **93a:68082**
Kakas, A. C. (*with* Mancarella, P.) Preferred extensions are partial stable models. (English summary) **93i:68122**
Kamareddine, Fairouz A system at the cross-roads of functional and logic programming. (English summary) **93k:68064**
Kaminski, Michael (*with* Tiomkin, Michael) Finite and circular path models for branching time logics. **93e:68062**
Katz, Shmuel (*with* Peled, Doron) Defining conditional independence using collapses. (English summary) **93g:68076**
Kearney, Peter (*with* Staples, John) An extensional fixed-point semantics for nondeterministic data flow. **93a:68083**
Kelly, G. M. On clubs and data-type constructors. **93j:68120**
Kok, Joost N. *see* **de Boer, Frank S.; et al., 93i:68116**
Koutny, Maciej *see* **Janicki, Ryszard, 93a:68080**
Krivine, Jean-Louis Lambda-calcul, évaluation paresseuse et mise en mémoire. (English summary) [Lambda calculus, lazy evaluation and storage] **93a:68084**
Laenens, E. (*with* Vermeir, D.) A fixpoint semantics for ordered logic. **93a:68085**
Launchbury, John *see* **Hughes, John, 93h:68079**
Lawson, Jimmie D. Order and strongly sober compactifications. (*see* **93h:68004**)
Leung, A. K. T. (*with* Mishra, Prateek) Reasoning about simple and exhaustive demand in higher-order lazy languages. **93b:68045**
Li, Wei[3] A type-theoretic approach to program development. **93c:68062**
Longo, Giuseppe[1] *see* **Bruce, Kim B.; et al., 93g:68072**
Lunnon, Rachel Many sorted universes, SRDs, and injective sums. **93g:68077**
— *see also* **Aczel, Peter, (92m:68006)**
Madry, Małgorzata λ-representability of integer, word and tree functions. (English summary) **93m:68115**
Mairson, Harry G. Quantifier elimination and parametric polymorphism in programming languages. (English summary) **93g:68078**

Mäkinen, Erkki Remarks on the structural grammatical inference problem for context-free grammars.
Mancarella, P. *see* **Kakas, A. C., 93i:68122**
Martin, C. E. (*with* Hoare, C. A. R.; He, Jifeng) Pre-adjunctions in order enriched categories. **93e:68064**
Martí-Oliet, Narciso (*with* Meseguer, José) From Petri nets to linear logic through categories: a survey. **93e:68063**
Mason, Ian A. (*with* Talcott, Carolyn) Inferring the equivalence of functional programs that mutate data. (English summary) **93m:68116**
Mays, Eric *see* **Dionne, Robert; et al., 93k:68062**
Mazurkiewicz, Antoni W. (*with* Rabinovich, A.; Trakhtenbrot, B. A.) Connectedness and synchronization. **93e:68065**
Meseguer, José *see* **Martí-Oliet, Narciso, 93e:68063** *and* **Casley, Ross; et al., 93i:68117**
Miller, Dale A. *see* **Hannan, John, 93m:68113**
Mishra, Prateek *see* **Leung, A. K. T., 93b:68045**
Mizoguchi, Yoshihiro A graph reduction system using graph terms. **93e:68066**
Mogensen, Torben Æ. Efficient self-interpretation in lambda calculus. (English summary) **93j:68121**
Montanari, Ugo (*with* Rossi, Francesca) True concurrency in concurrent constraint programming. (English summary) **93j:68122**
Mulry, Philip S. *see* **Freyd, Peter J.; et al., 93f:68065**
Nakagawa, Koji *see* **Ida, Tetsuo; et al., 93m:68114**
Nakamura, Atsushi *see* **Ida, Tetsuo; et al., 93m:68114**
Narayana, K. T. *see* **Shade, Eric, 93i:68124**
Obtułowicz, Adam The idea of polymorphism: an algebraic approach. (English summary) **93g:68079**
O'Hearn, Peter W. (*with* Tennent, R. D.) Semantics of local variables. (English summary) **93i:68123**
Ohtsuka, Hiroshi A proof of the substitution lemma in de Bruijn's notation.
Oles, Frank J. *see* **Dionne, Robert; et al., 93k:68062**
Palamidessi, Catuscia *see* **de Boer, Frank S.; et al., 93i:68116**
Palsberg, Jens (*with* Schwartzbach, Michael I.) Safety analysis versus type inference for partial types. (English summary) **93g:68080**
— Normal forms have partial types. (English summary)
Panangaden, Prakash (*with* Taylor, Kim) Concurrent common knowledge: defining agreement for asynchronous systems. (English summary) **93j:68123**
Paulin-Mohring, Christine Réalisabilité et extraction de programmes. [Realizability and extraction of programs] (*see* **93d:68003**)
Peled, Doron *see* **Katz, Shmuel, 93g:68076**
Pereira, Luís Moniz (*with* Aparício, Joaquim Nunes; Alferes, José Júlio) Counterfactual reasoning based on revising assumptions. (English summary) **93j:68124**
— (*with* Alferes, José Júlio; Aparício, Joaquim Nunes) Adding closed world assumptions to well founded semantics. (English summary) (*see* **93i:68007**)
Phoa, Wesley Building domains from graph models. (English summary) **93j:68125**
Pitts, Andrew M. *see* **Crole, Roy L., 93c:68059**
Plotkin, Gordon A semantics for type checking. **93a:68086**
Pratt, Vaughan *see* **Casley, Ross; et al., 93i:68117**
Rabinovich, A. *see* **Mazurkiewicz, Antoni W.; et al., 93e:68065**
Renardel de Lavalette, Gerard R. Strictness analysis via abstract interpretation for recursively defined types. **93g:68081**
Roscoe, A. W. An alternative order for the failures model. (English summary) **93j:68126**
Rosenthal, Kimmo I. Girard quantaloids. **93e:68067**
Rosolini, G. *see* **Freyd, Peter J.; et al., 93f:68065**
Rossi, Francesca *see* **Montanari, Ugo, 93j:68122**
Rutten, Jan J. M. M. (*with* Zucker, J. I.) A semantic approach to fairness. **93k:68065**
— Processes as terms: non-well-founded models for bisimulation. (English summary) **93h:68080**
— *see also* **de Boer, Frank S.; et al., 93i:68116**
Rydeheard, David E. *see* **Hilken, Barney P., 93k:68063**
Scholefield, D. (*with* Zedan, H. S. M.) Weakest precondition semantics for time and concurrency. (English summary) **93h:68081**
Schwartzbach, Michael I. Interpretations of recursively defined types. (English summary) **93g:68082**
— *see also* **Palsberg, Jens, 93g:68080**
Scott, Dana S. *see* **Freyd, Peter J.; et al., 93f:68065**
Seely, R. A. G. *see* **Cockett, J. R. B., (93d:68001)**
Shade, Eric (*with* Narayana, K. T.) Real-time semantics for shared-variable concurrency. (English summary) **93i:68124**
Smith, Geoffrey S. *see* **Volpano, Dennis M., 93a:68088**
Snelting, Gregor The calculus of context relations. **93e:68068**
Spreen, Dieter A characterization of effective topological spaces. II. (*see* **93h:68004**)
Staples, John *see* **Kearney, Peter, 93a:68083**
Strauss, A. *see* **Vauzeilles, J., 93d:68043**
Streicher, Thomas ★ Semantics of type theory. **93d:68042**
— Dependence and independence results for (impredicative) calculi of dependent types. **93f:68066**
Suzuki, Taro *see* **Ida, Tetsuo; et al., 93m:68114**
Talcott, Carolyn *see* **Mason, Ian A., 93m:68116**
Taylor, Kim *see* **Panangaden, Prakash, 93j:68123**
Tekko, Jaanus A formal model for the language LSD and the calculus CSD. (Russian. English and Estonian summaries) **93h:68082**
Tennent, R. D. *see* **O'Hearn, Peter W., 93i:68123**
Thatte, Satish R. A type system for implicit scaling. **93a:68087**
Thiopoulos, Constantin Towards a logic of semiotic systems. (French summary) **93c:68063**
Tiomkin, Michael *see* **Kaminski, Michael, 93e:68062**
Trakhtenbrot, B. A. *see* **Mazurkiewicz, Antoni W.; et al., 93e:68065**
Vauzeilles, J. (*with* Strauss, A.) Intuitionistic three-valued logic and logic programming. (French summary) **93d:68043**
Vermeir, D. *see* **Laenens, E., 93a:68085**
Volpano, Dennis M. (*with* Smith, Geoffrey S.) On the complexity of ML typability with overloading. **93a:68088**
(Wirsing, Martin) *see* **Streicher, Thomas, 93d:68042**
Yoon, D. H. H. The categorical framework of object-oriented concurrent systems. (English summary) **93g:68083**
Zedan, H. S. M. *see* **Scholefield, D., 93h:68081**
Zhang, Guo Qiang dI-domains as prime information systems. (English summary) **93j:68127**
— Stable neighbourhoods. **93e:68069**
Zierer, Hans Relation algebraic domain constructions. **93a:68089**
Zucker, J. I. *see* **Rutten, Jan J. M. M., 93k:68065**

Items with secondary classifications in 68Q55

Abramsky, Samson Domain theory in logical form. **93e:03040**
Ageron, Pierre The logic of structures. **93e:03083**
America, P. H. M. (*with* Rutten, Jan J. M. M.) ★ A parallel object-oriented language: design and semantic foundations. **93a:68071**
Asperti, Andrea (*with* Longo, Giuseppe[1]) ★ Categories, types, and structures. **93i:18001**
— (*with* Martini, Simone) Categorical models of polymorphism. **93i:03017**
(Baeten, J. C. M.) *see* **Applications of process algebra, 93g:68090**
de Bakker, J. W. (*with* Rutten, Jan J. M. M.) Concurrency semantics based on metric domain equations. (*see* **93h:68004**)
— (*with* Warmerdam, J. H. A.) Four domains for concurrency. **93a:68036**
Banerjee, Debasish A technique for solving a class of quadratic FP equations. (English summary) **93i:68033**
Baraki, Gebreselassie A note on abstract interpretation of polymorphic functions. **93a:68024**
Baral, Chitta R. (*with* Subrahmanian, V. S.) Stable and extension class theory for logic programs and default logics. **93h:68016**
Barba Escriba, Juan A modal embedding for partial information semantics.
Barbuti, Roberto (*with* Giacobazzi, Roberto) A bottom-up polymorphic type inference in logic programming. (English summary) **93m:68028**
Barendregt, Henk Introduction to generalized type systems. **93e:03019**
Bartha, Miklós Foundations of a theory of synchronous systems. **93m:68119**
Beierle, Christoph (*with* Meyer, Gregor; Semle, Heiner) Extending the Warren abstract machine to polymorphic order-sorted resolution. (English summary) (*see* **93i:68009**)
— Logic programming with typed unification and its realization on an abstract machine. (English summary)
van Benthem, Johan General dynamics. **93b:68072**
Benveniste, Albert (*with* Le Guernic, Paul; Sorel, Yves; Sorine, Michel) A denotational theory of synchronous reactive systems. **93g:68034**
Berry, Gérard (*with* Boudol, Gérard) The chemical abstract machine. **93e:68018**
Best, Eike (*with* Koutny, Maciej) Petri net semantics of priority systems. **93e:68019**
Blass, Andreas A game semantics for linear logic. **93e:03041**
Boiten, Eerke A. Improving recursive functions by inverting the order of evaluation. **93c:68011**
Bonacina, Maria Paola (*with* Hsiang, Jieh) On rewrite programs: semantics and relationship with Prolog. (English summary) **93i:68126**
Bossi, A. (*with* Gabbrielli, Maurizio; Levi, Giorgio; Meo, M. C.) Contributions to the semantics of open logic programs. (English summary) (*see* **93i:68007**)
Boudol, Gérard *see* **Berry, Gérard, 93e:68018**
Bozapalidis, Symeon Alphabetic tree relations. **93g:68092**
Burn, Geoffrey ★ Lazy functional languages: abstract interpretation and compilation. **93b:68042**
Caines, Peter E. *see* **Wang, Suning, (93g:93006)**
Carpenter, Bob ★ The logic of typed feature structures. **93j:68001**
Casanova, M. A. (*with* Hemerly, A. S.; Guerreiro, R. A. de T.) Explaining SLDNF resolution with nonnormal defaults. (English summary) **93i:68037**
Căzănescu, Virgil Emil (*with* Ştefănescu, Gheorghe) A general result on abstract flowchart schemes with applications to the study of accessibility, reduction and minimization. **93g:68010**
Cialdea, Marta Resolution for some first-order modal systems. **93e:03018**
Coquand, Thierry An introduction to type theory. (*see* **93d:68003**)
Cury, F. Catégories lax-localement-cartésiennes et catégories localement cartésiennes: un exemple de suffisante complétude connexe de sémantiques initiales. [Lax-locally Cartesian and locally Cartesian categories: an example of sufficient connected completeness of initial semantics] **93b:18003**
Darondeau, Philippe (*with* Nolte, Doris; Priese, Lutz; Yoccoz, Serge) Fairness, distances and degrees. **93f:68024**
Debray, Saumya K. *see* **Giacobazzi, Roberto; et al., (93i:68007)**
Denecker, Marc (*with* De Schreye, Danny) On the duality of abduction and model generation. (English summary) **93j:68028**
De Schreye, Danny *see* **Denecker, Marc, 93j:68028**
Devillers, Raymond Maximality preserving bisimulation. **93i:68129**
Dezani-Ciancaglini, Mariangiola (*with* Hindley, J. Roger) Intersection types for combinatory logic. **93i:03018**
Dimitrovici, C. *see* **Grosse-Rhode, M., 93j:68130**
Droste, Manfred (*with* Göbel, Rüdiger) A categorical theorem on universal objects and its application in abelian group theory and computer science. **93g:18003**
Egidi, Lavinia (*with* Honsell, Furio; Ronchi Della Rocca, Simona) Operational, denotational and logical descriptions: a case study. **93i:68036**
Engelfriet, Joost (*with* Heyker, Linda) Context-free hypergraph grammars have the same term-generating power as attribute grammars. **93c:68056**
Filippenko, I. (*with* Morris, F. L.) Domains for logic programming. **93m:68029**
(Fourman, M. P.) *see* **Applications of categories in computer science, 93d:68001**
Gabbrielli, Maurizio (*with* Levi, Giorgio) Unfolding and fixpoint semantics of concurrent constraint logic programs. (English summary) **93m:68030**
— *see also* **Bossi, A.; et al., (93i:68007)**
Giacobazzi, Roberto (*with* Debray, Saumya K.; Levi, Giorgio) A generalized semantics for constraint logic programs. (English summary) (*see* **93i:68007**)

— *see also* **Barbuti, Roberto**, 93m:68028
Gil, Bernhard Complete extension of general logic programs. **93e:68012**
Girard, Jean-Yves Introduction à la logique linéaire. [Introduction to linear logic] (*see* **93d:68003**)
Göbel, Rüdiger *see* **Droste, Manfred**, **93g:18003**
Goguen, Joseph A. Types as theories. (*see* **93h:68004**)
Gray, John W. Products in PER: an elementary treatment of the semantics of the polymorphic lambda calculus. **93b:03017**
Grosse-Rhode, M. (*with* Dimitrovici, C.) Algebraic specification of action trees and recursive processes. (English summary) **93j:68130**
Grue, Klaus E. Map theory. **93j:03011**
Guerreiro, R. A. de T. *see* **Casanova, M. A.; et al.**, **93i:68037**
Heckmann, Reinhold Lower and upper power domain constructions commute on all cpos. **93a:06007**
Hemerly, A. S. *see* **Casanova, M. A.; et al.**, **93i:68037**
Henzinger, Thomas A. Sooner is safer than later. (English summary) **93e:68071**
Hesselink, Wim H. ★ Programs, recursion and unbounded choice. **93f:68002**
Heyker, Linda *see* **Engelfriet, Joost**, **93c:68056**
Hindley, J. Roger *see* **Dezani-Ciancaglini, Mariangiola**, **93i:03018**
Hirata, Kouichi On Russellian propositions. **93i:03038**
Hirokawa, Sachio Principal type assignment to lambda terms. **93a:03013**
Honsell, Furio *see* **Egidi, Lavinia; et al.**, **93i:68036**
Hooman, J. J. M. (*with* Ramesh, S.; de Roever, W. P.) A compositional axiomatization of Statecharts. (English summary) **93h:68085**
Hsiang, Jieh *see* **Bonacina, Maria Paola**, **93i:68126**
Huet, Gérard Introduction au λ-calcul typé. [Introduction to typed λ-calculus] (*see* **93d:68003**)
Hughes, John (*with* Launchbury, John) Projections for polymorphic first-order strictness analysis. (English summary) **93g:68013**
Jacobs, Bart (*with* Margaria, Ines; Zacchi, Maddalena) Filter models with polymorphic types. **93j:03012**
Jay, C. Barry *see* **Steffen, B.; et al.**, **93g:68089**
(Johnstone, Peter T.) *see* **Applications of categories in computer science**, **93d:68001**
Kanchanasut, Kanchana (*with* Stuckey, Peter J.) Transforming normal logic programs to constraint logic programs. (English summary) **93h:68019**
Katz, Shmuel (*with* Peled, Doron) Verification of distributed programs using representative interleaving sequences. (English summary) **93g:68085**
Kemp, David B. (*with* Stuckey, Peter J.) Semantics of logic programs with aggregates. (English summary) (*see* **93i:68009**)
Knobel, A. Constructive λ-models. **93b:03018**
Koutny, Maciej *see* **Best, Eike**, **93e:68019**
Krivine, Jean-Louis ★ Lambda-calcul. (French) [Lambda calculus] **93i:03019**
Kwiatkowska, Marta Z. On topological characterization of behavioural properties. (*see* **93h:68004**)
Lafont, Yves Calcul des séquents et déduction naturelle. [Sequent calculus and natural deduction] (*see* **93d:68003**)
Lamarche, François Quantitative domains and infinitary algebras. **93d:03022**
Larsen, Kim G. (*with* Liu, Xin Xin) Compositionality through an operational semantics of contexts. **93h:68087**
Launchbury, John *see* **Hughes, John**, **93g:68013**
Lee, Peter *see* **Pfenning, Frank**, **93a:03015**
Le Guernic, Paul *see* **Benveniste, Albert; et al.**, **93g:68034**
Leischner, Martin On the compactness theorem of propositional temporal logics. **93e:03029**
Levi, Giorgio *see* **Gabbrielli, Maurizio**, **93m:68030**; **Bossi, A.; et al.**, (**93i:68007**) *and* **Giacobazzi, Roberto; et al.**, (**93i:68007**)
Lincoln, Patrick (*with* Mitchell, John C.; Scedrov, Andre; Shankar, Natarajan) Decision problems for propositional linear logic. **93e:03042b**
— (*with* Mitchell, John C.; Scedrov, Andre; Shankar, Natarajan) Decision problems for propositional linear logic. **93e:03042a**
Liu, L. Y. *see* **Shyamasundar, R. K.**
Liu, Xin Xin *see* **Larsen, Kim G.**, **93h:68087**
Lobo, Jorge (*with* Minker, Jack; Rajasekar, Arcot) ★ Foundations of disjunctive logic programming. **93i:68160**
Longo, Giuseppe[1] *see* **Asperti, Andrea**, **93i:18001**
Maher, Michael J. A transformation system for deductive database modules with perfect model semantics. (English summary) **93m:68044**
Marek, Wiktor (*with* Nerode, A.; Remmel, Jeffrey B.) How complicated is the set of stable models of a recursive logic program? **93g:68012**
— (*with* Subrahmanian, V. S.) The relationship between stable, supported, default and autoepistemic semantics for general logic programs. (English summary) **93j:68031**
Margaria, Ines *see* **Jacobs, Bart; et al.**, **93j:03012**
Martini, Simone Categorical models for nonextensional λ-calculi and combinatory logic. (English summary) **93m:03021**
— *see also* **Asperti, Andrea**, **93i:03017**
Martí-Oliet, Narciso (*with* Meseguer, José) From Petri nets to linear logic. **93c:68076**
McCune, William W. (*with* Wos, Larry) The absence and the presence of fixed point combinators. **93a:03014**
Meinke, Karl Universal algebra in higher types. **93m:03061**
Mendler, M. *see* **Steffen, B.; et al.**, **93g:68089**
Meo, M. C. *see* **Bossi, A.; et al.**, (**93i:68007**)
Meseguer, José Conditional rewriting logic as a unified model of concurrency. **93e:68020**
— *see also* **Martí-Oliet, Narciso**, **93c:68076**
Meyer, Gregor *see* **Beierle, Christoph; et al.**, (**93i:68009**)
Miller, Dale A. A logic programming language with lambda-abstraction, function variables, and simple unification. **93b:68011**
Milner, Robin (*with* Parrow, Joachim; Walker, David James) Modal logics for mobile processes. **93b:68049**
— Functions as processes. **93i:03020**
Minker, Jack *see* **Lobo, Jorge; et al.**, **93i:68160**
Mitchell, John C. *see* **Lincoln, Patrick; et al.**, **93e:03042a** *and* **93e:03042b**
Morris, F. L. *see* **Filippenko, I.**, **93m:68029**
Mosses, Peter D. ★ Action semantics. **93i:68002**
Mukai, Kuniaki CLP(AFA): coinductive semantics of Horn clauses with compact constraints. **93i:68039**
Mukund, Madhavan (*with* Thiagarajan, P. S.) A logical characterization of well branching event structures. **93e:68021**
Nakata, Ikuo (*with* Sassa, Masataka) Regular expressions with semantic rules and their application to data structure directed programs. (English summary) **93k:68060**
Nerode, A. *see* **Marek, Wiktor; et al.**, **93g:68012**
Ng, Raymond T. (*with* Subrahmanian, V. S.) Relating Dempster-Shafer theory to stable semantics. (English summary) **93m:68032**
Nolte, Doris *see* **Darondeau, Philippe; et al.**, **93f:68024**
Orgun, Mehmet A. (*with* Wadge, William W.) Towards a unified theory of intensional logic programming. (English summary) **93m:68152**
Otto, Friedrich When is an extension of a specification consistent? Decidable and undecidable cases. **93f:68056**
Panangaden, Prakash (*with* Shanbhogue, Vasant) The expressive power of indeterminate dataflow primitives. **93f:68014**
Parrow, Joachim *see* **Milner, Robin; et al.**, **93b:68049**
Peled, Doron *see* **Katz, Shmuel**, **93g:68085**
Pfenning, Frank (*with* Lee, Peter) Metacircularity in the polymorphic λ-calculus. **93a:03015**
Phan Minh Dung On the relations between stable and well-founded semantics of logic programs. (English summary) **93h:68021**
Pieper, F. T. A. M. Data machines and standards, or the functional specification of information systems. (English summary) **93j:68133**
(Pitts, Andrew M.) *see* **Applications of categories in computer science**, **93d:68001**
Priese, Lutz *see* **Darondeau, Philippe; et al.**, **93f:68024**
Prijatelj, Andreja Lambek calculus with restricted contraction and expansion. **93f:03037**
Rajasekar, Arcot *see* **Lobo, Jorge; et al.**, **93i:68160**
Ramesh, S. *see* **Hooman, J. J. M.; et al.**, **93h:68085**
(Reed, G. M.) *see* **Topology and category theory in computer science**, **93h:68004**
Remmel, Jeffrey B. *see* **Marek, Wiktor; et al.**, **93g:68012**
Révész, György E. A list-oriented extension of the lambda-calculus satisfying the Church-Rosser theorem. **93d:03023**
de Roever, W. P. *see* **Hooman, J. J. M.; et al.**, **93h:68085**
Ronchi Della Rocca, Simona *see* **Egidi, Lavinia; et al.**, **93i:68036**
(Roscoe, A. W.) *see* **Topology and category theory in computer science**, **93h:68004**
Rozoy, Brigitte (*with* Thiagarajan, P. S.) Event structures and trace monoids. (French summary) **93b:68002**
Rutten, Jan J. M. M. *see* **America, P. H. M.**, **93a:68071** *and* **de Bakker, J. W.**, (**93h:68004**)
Salibra, Antonino A general theory of algebras with quantifiers. **93h:03084**
Sassa, Masataka *see* **Nakata, Ikuo**, **93k:68060**
Sato, Taisuke Equivalence-preserving first-order unfold/fold transformation systems. (English summary) **93k:68019**
Scedrov, Andre *see* **Lincoln, Patrick; et al.**, **93e:03042a** *and* **93e:03042b**
Semle, Heiner *see* **Beierle, Christoph; et al.**, (**93i:68009**)
Sestoft, P. *see* **Søndergaard, H.**
Shanbhogue, Vasant *see* **Panangaden, Prakash**, **93f:68014**
Shankar, Natarajan *see* **Lincoln, Patrick; et al.**, **93e:03042a** *and* **93e:03042b**
Shepherdson, J. C. Unfold/fold transformations of logic programs. **93e:68013**
Shyamasundar, R. K. (*with* Liu, L. Y.) Compositional priority specification in real-time distributed systems.
Smyth, Michael B. Totally bounded spaces and compact ordered spaces as domains of computation. (*see* **93h:68004**)
Søndergaard, H. (*with* Sestoft, P.) Nondeterminism in functional languages. (English summary)
Sorel, Yves *see* **Benveniste, Albert; et al.**, **93g:68034**
Sorine, Michel *see* **Benveniste, Albert; et al.**, **93g:68034**
Ştefănescu, Gheorghe *see* **Căzănescu, Virgil Emil**, **93g:68010**
Steffen, B. (*with* Jay, C. Barry; Mendler, M.) Compositional characterization of observable program properties. (English and French summaries) **93g:68089**
Stirling, Colin (*with* Walker, David James) Local model checking in the modal mu-calculus. **93a:03029**
Stransky, Jan A lattice for abstract interpretation of dynamic (LISP-like) structures. (English summary) **93j:68037**
Streicher, Thomas Independence of the induction principle and the axiom of choice in the pure calculus of constructions. (English summary) **93k:03013**
Stuckey, Peter J. *see* **Kanchanasut, Kanchana**, **93h:68019** *and* **Kemp, David B.**, (**93i:68009**)
Subrahmanian, V. S. Mechanical proof procedures for many-valued lattice-based logic programming. (English summary)
— Paraconsistent disjunctive deductive databases. **93b:68017**
— *see also* **Baral, Chitta R.**, **93h:68016**; **Marek, Wiktor**, **93j:68031** *and* **Ng, Raymond T.**, **93m:68032**
Thiagarajan, P. S. *see* **Rozoy, Brigitte**, **93b:68002** *and* **Mukund, Madhavan**, **93e:68021**
Troelstra, A. S. ★ Lectures on linear logic. **93i:03083**
Ullman, Jeffrey D. The interface between language theory and database theory. **93g:68028**
Vaandrager, Frits W. Process algebra semantics of POOL. (*see* **93g:68090**)
(Wachter, R. F.) *see* **Topology and category theory in computer science**, **93h:68004**
Wadge, William W. *see* **Orgun, Mehmet A.**, **93m:68152**
Walker, David James *see* **Stirling, Colin**, **93a:03029** *and* **Milner, Robin; et al.**, **93b:68049**
Walters, R. F. C. An imperative language based on distributive categories. (English summary) **93g:68011**
Wang, Suning (*with* Caines, Peter E.) On a conditional observer and controller logic (COCOLOG) for finite machines and its automatic reasoning methodology. (English summary) (*see* **93g:93006**)
Warmerdam, J. H. A. *see* **de Bakker, J. W.**, **93a:68036**
Weibel, Trudy Extension of combinatory logic to a theory of combinatory representation. **93g:03014**

Wos, Larry *see* **McCune, William W., 93a:03014**
Yoccoz, Serge *see* **Darondeau, Philippe; et al., 93f:68024**
Zacchi, Maddalena *see* **Jacobs, Bart; et al., 93j:03012**
Zimmer, Ralf Martin ★ Zur Pragmatik eines operationalisierten λ-Kalküls als Basis für interaktive Reduktionssysteme. (German) [On the pragmatics of an operationalized λ-calculus as the basis for interactive reduction systems] **93e:68001**

Items listed otherwise than by author

Applications of categories in computer science ★ Applications of categories in computer science. **93d:68001**
Applications of process algebra ★ Applications of process algebra. **93g:68090**
Durham ★ Applications of categories in computer science. **93d:68001**
Oxford ★ Topology and category theory in computer science. **93h:68004**
Symposium:
Applications of Categories in Computer Science ★ Applications of categories in computer science. **93d:68001**
Topology ★ Topology and category theory in computer science. **93h:68004**
Topology and category theory in computer science ★ Topology and category theory in computer science. **93h:68004**

68Q60 Specification and verification of programs [see also 03B70]

Abadi, Martín (*with* Lamport, Leslie) The existence of refinement mappings. **93a:68090**
Abramsky, Samson Abstract interpretation, logical relations, and Kan extensions. **93i:68125**
Auziņš, Andrejs (*with* Bārzdiņš, Jānis; Bičevskis, Jānis; Čerāns, Kārlis; Kalniņš, Audris) Automatic construction of test sets: theoretical approach. **93h:68083**
(Baeten, J. C. M.) *see* **Applications of process algebra, 93g:68090**
Ball, William E. *see* **Gamble, Rose F.; et al., 93j:68129**
Bārzdiņš, Jānis *see* **Auziņš, Andrejs; et al., 93h:68083**
Baudinet, Marianne Proving termination properties of Prolog programs: a semantic approach. (English summary) **93j:68128**
Bergstra, J. A. (*with* Klop, J. W.) An introduction to process algebra. (*see* **93g:68090**)
Bičevskis, Jānis *see* **Auziņš, Andrejs; et al., 93h:68083**
Bird, Richard S. Functional pearls: two greedy algorithms.
Bloom, Stephen L. (*with* Ésik, Zoltán) Floyd-Hoare logic in iteration theories. **93c:68064**
Bochmann, Gregor V. *see* **Luo, Gang; et al., 93h:68088**
Bonacina, Maria Paola (*with* Hsiang, Jieh) On rewrite programs: semantics and relationship with Prolog. (English summary) **93i:68126**
Boreale, M. (*with* Inverardi, P.; Nesi, M.) Complete sets of axioms for finite basic LOTOS behavioural equivalences.
Bouajjani, A. (*with* Fernandez, J.-C.; Halbwachs, N.; Raymond, P.; Ratel, C.) Minimal state graph generation. **93a:68091**
Boudol, Gérard (*with* Larsen, Kim G.) Graphical versus logical specifications. (English summary) **93i:68127**
Bradfield, Julian Charles ★ Verifying temporal properties of systems. **93i:68128**
— (*with* Stirling, Colin) Local model checking for infinite state spaces. **93e:68070**
Bruynooghe, Maurice (*with* De Schreye, Danny; Martens, Bern) A general criterion for avoiding infinite unfolding during partial deduction of logic programs. (English summary) (*see* **93i:68009**)
— *see also* **Martens, Bern; et al., (93i:68007)**
Burch, J. R. (*with* Clarke, E. M.; McMillan, K. L.; Dill, D. L.; Hwang, L. J.) Symbolic model checking: 10^{20} states and beyond. **93c:68065**
Čerāns, Kārlis *see* **Auziņš, Andrejs; et al., 93h:68083**
Clarke, E. M. *see* **Burch, J. R.; et al., 93c:68065**
Darondeau, Philippe (*with* Yoccoz, Serge) Proof systems for infinite behaviours. **93g:68084**
Dart, Philip W. (*with* Zobel, Justin) Efficient run-time type checking of typed logic programs. (English summary) **93h:68084**
Das, Anindya *see* **Luo, Gang; et al., 93h:68088**
De Schreye, Danny *see* **Bruynooghe, Maurice; et al., (93i:68009)** *and* **Martens, Bern; et al., (93i:68007)**
Devillers, Raymond Maximality preserving bisimulation. **93i:68129**
Dill, D. L. *see* **Burch, J. R.; et al., 93c:68065**
Dimitrovici, C. *see* **Grosse-Rhode, M., 93j:68130**
Ésik, Zoltán *see* **Bloom, Stephen L., 93c:68064**
Feferman, Solomon Proofs of termination and the "91" function. **93a:68092**
Feng, Yu Lin *see* **Zhao, Xu Dong, 93e:68074**
Fernandez, J.-C. *see* **Bouajjani, A.; et al., 93a:68091**
Fiadeiro, José (*with* Sernadas, Amílcar) Logics of modal terms for systems specification. **93a:68094**
— (*with* Maibaum, T.) Temporal reasoning over deontic specifications. **93b:68046**
Fribourg, Laurent Automatic generation of simplification lemmas for inductive proofs. (English summary) (*see* **93i:68009**)
Fujii, Hiroshi *see* **Hiraishi, Hiromi; et al., 93e:68072**
Galmiche, Didier Program development in constructive type theory. **93c:68066**
Gamble, Rose F. (*with* Roman, Gruia-Catalin; Ball, William E.) Formal verification of pure production system programs. (English summary) **93j:68129**
Grosse-Rhode, M. (*with* Dimitrovici, C.) Algebraic specification of action trees and recursive processes. (English summary) **93j:68130**
Halbwachs, N. *see* **Bouajjani, A.; et al., 93a:68091**
Hamaguchi, Kiyoharu (*with* Hiraishi, Hiromi; Yajima, Shuzo) ω-regular temporal logic and its model checking problem. (English summary) **93i:68130**
— *see also* **Hiraishi, Hiromi; et al., 93e:68072**
Hennicker, Rolf A semi-algorithm for algebraic implementation proofs. (English summary) **93j:68131**
Henzinger, Thomas A. Sooner is safer than later. (English summary) **93e:68071**
Hiraishi, Hiromi (*with* Hamaguchi, Kiyoharu; Fujii, Hiroshi; Yajima, Shuzo) Regular temporal logic expressively equivalent to finite automata and its application to logic design verification. (English summary) **93e:68072**
— *see also* **Hamaguchi, Kiyoharu; et al., 93i:68130**
Holzbaur, Christian *see* **Mozetič, Igor, 93m:68118**
Hooman, J. J. M. (*with* de Roever, W. P.) An introduction to compositional methods for concurrency and their application to real-time. **93d:68044**
— (*with* Ramesh, S.; de Roever, W. P.) A compositional axiomatization of Statecharts. (English summary) **93h:68085**
Hsiang, Jieh *see* **Bonacina, Maria Paola, 93i:68126**
Hwang, L. J. *see* **Burch, J. R.; et al., 93c:68065**
Inverardi, P. *see* **Boreale, M.; et al.**
(Jähnichen, Stefan) *see* **Weber, Matthias, 93a:68097**
Jain, Anurag *see* **Malhotra, Vishv Mohan, 93g:68087**
Jay, C. Barry *see* **Steffen, B.; et al., 93g:68089**
Jongejan, Jan H. Correctness of transformations on register transfers. (English summary) **93h:68086**
Joseph, Mathai *see* **Pandya, Paritosh K., 93a:68096**
Kalniņš, Audris *see* **Auziņš, Andrejs; et al., 93h:68083**
Katz, Shmuel (*with* Peled, Doron) Verification of distributed programs using representative interleaving sequences. (English summary) **93g:68085**
Kinber, E. B. On complete sets of samples for generalized regular expressions. **93a:68095**
Klop, J. W. *see* **Bergstra, J. A., (93g:68090)**
Knuth, Donald E. Textbook examples of recursion. **93a:68093**
Kossen, L. (*with* Weijland, W. P.) Correctness proofs for systolic algorithms: palindromes and sorting. (*see* **93g:68090**)
Koutny, Maciej Axiom system induced by CTL* logic. **93b:68047**
Koymans, C. P. J. (*with* Mulder, J. C.) A modular approach to protocol verification using process algebra. (*see* **93g:68090**)
Kröger, Fred (*with* Merz, Stephan) Temporal logic and recursion. **93b:68048**
Kurki-Suonio, Reino Operational specification with joint actions: serializable databases. (English summary) **93g:68086**
Lam, Simon S. (*with* Shankar, A. Udaya) Specifying modules to satisfy interfaces: a state transition system approach. (English summary) **93j:68132**
Lamport, Leslie Critique of the Lake Arrowhead Three.
— *see also* **Abadi, Martín, 93a:68090**
Larsen, Kim G. (*with* Liu, Xin Xin) Compositionality through an operational semantics of contexts. **93h:68087**
— (*with* Milner, Robin) A compositional protocol verification using relativized bisimulation.
— *see also* **Boudol, Gérard, 93i:68127**
Liu, Xin Xin *see* **Larsen, Kim G., 93h:68087**
Lundy, G. M. Specification and analysis of a composition of protocols. (English summary) **93m:68117**
Luo, Gang (*with* Bochmann, Gregor V.; Das, Anindya; Wu, Cheng) Failure-equivalent transformation of transition systems to avoid internal actions. (English summary) **93h:68088**
Maibaum, T. *see* **Fiadeiro, José, 93b:68046**
Malhotra, Vishv Mohan (*with* Jain, Anurag) On generating functional programs from PROLOG specifications. (English summary) **93g:68087**
Manna, Zohar (*with* Pnueli, Amir) ★ The temporal logic of reactive and concurrent systems. **93e:68073**
Martelli, Maurizio (*with* Tricomi, Chiara) A new Sldnf-tree.
Martens, Bern (*with* De Schreye, Danny; Bruynooghe, Maurice) Sound and complete partial deduction with unfolding based on well-founded measures. (English summary) (*see* **93i:68007**)
— *see also* **Bruynooghe, Maurice; et al., (93i:68009)**
Mauw, S. Process algebra as a tool for the specification and verification of CIM-architectures. (*see* **93g:68090**)
McMillan, K. L. *see* **Burch, J. R.; et al., 93c:68065**
Mendler, M. *see* **Steffen, B.; et al., 93g:68089**
Merz, Stephan *see* **Kröger, Fred, 93b:68048**
Milner, Robin (*with* Parrow, Joachim; Walker, David James) Modal logics for mobile processes. **93b:68049**
— *see also* **Larsen, Kim G.**
Mozetič, Igor (*with* Holzbaur, Christian) Integrating numerical and qualitative models within constraint logic programming. (English summary) **93m:68118**
Mulder, J. C. On the Amoeba protocol. (*see* **93g:68090**)
— *see also* **Koymans, C. P. J., (93g:68090)**
Nesi, M. *see* **Boreale, M.; et al.**
(Nordström, Bengt) *see* **Programming logic, 93h:68089**
Pachl, Jan Corrigendum: "A simple proof of a completeness result for leads-to in the UNITY logic" [Inform. Process. Lett. **41** (1992), no. 1, 35–38].
Pandya, Paritosh K. (*with* Joseph, Mathai) P-A logic—a compositional proof system for distributed programs. **93a:68096**
Parigot, Michel Recursive programming with proofs. **93g:68088**
Parrow, Joachim *see* **Milner, Robin; et al., 93b:68049**
Peled, Doron *see* **Katz, Shmuel, 93g:68085**
Penczek, Wojciech On undecidability of propositional temporal logics on trace systems. **93k:68066**
Pieper, F. T. A. M. Data machines and standards, or the functional specification of information systems. (English summary) **93j:68133**
Plümer, Lutz Automatic termination proofs for Prolog programs operating on nonground terms. (English summary) **93j:68134**
— Automatic verification of GHC-programs: termination. (English summary) **93j:68135**
Pnueli, Amir *see* **Manna, Zohar, 93e:68073**
Power, A. J. (*with* Wells, Charles Frederick) A formalism for the specification of essentially-algebraic structures in 2-categories. **93c:68067**
Ramesh, S. *see* **Hooman, J. J. M.; et al., 93h:68085**
Ratel, C. *see* **Bouajjani, A.; et al., 93a:68091**
Raymond, P. *see* **Bouajjani, A.; et al., 93a:68091**
Robinson, Peter J. Soundness of opening schemes for window inference. (English summary) **93j:68136**

de Roever, W. P. *see* **Hooman, J. J. M., 93d:68044** *and* **93h:68085**
Roman, Gruia-Catalin *see* **Gamble, Rose F.; et al., 93j:68129**
Rönn, Stefan On the regularity calculus and its role in distributed programming. (English summary) **93k:68067**
Rubinfeld, Ronitt (*with* Sudan, Madhu) Self-testing polynomial functions efficiently and over rational domains. **93f:68067**
Sagiv, Yehoshua A termination test for logic programs. (English summary) **93j:68137**
Sannella, Donald (*with* Sokołowski, Stefan Andrzej; Tarlecki, Andrzej) Toward formal development of programs from algebraic specifications: parameterisation revisited. (English summary) **93i:68131**
Sernadas, Amílcar *see* **Fiadeiro, José, 93a:68094**
Shankar, A. Udaya *see* **Lam, Simon S., 93j:68132**
Sokołowski, Stefan Andrzej *see* **Sannella, Donald; et al., 93i:68131**
Steffen, B. (*with* Jay, C. Barry; Mendler, M.) Compositional characterization of observable program properties. (English and French summaries) **93g:68089**
Stirling, Colin *see* **Bradfield, Julian Charles, 93e:68070**
Sudan, Madhu *see* **Rubinfeld, Ronitt, 93f:68067**
Takayama, Yukihide Extraction of redundancy-free programs from constructive natural deduction proofs. **93c:68068**
Tarlecki, Andrzej *see* **Sannella, Donald; et al., 93i:68131**
Tricomi, Chiara *see* **Martelli, Maurizio**
Vaandrager, Frits W. Two simple protocols. (*see* **93g:68090**)
— Some observations on redundancy in a context. (*see* **93g:68090**)
Valmari, Antti A stubborn attack on state explosion. **93b:68050**
Walker, David James *see* **Milner, Robin; et al., 93b:68049**
Weber, Matthias ★ A meta-calculus for formal system development. **93a:68097**
Weijland, W. P. *see* **Kossen, L., (93g:68090)**
Wells, Charles Frederick *see* **Power, A. J., 93c:68067**
Wu, Cheng *see* **Luo, Gang; et al., 93h:68088**
Yajima, Shuzo *see* **Hiraishi, Hiromi; et al., 93e:68072** *and* **Hamaguchi, Kiyoharu; et al., 93i:68130**
Yoccoz, Serge *see* **Darondeau, Philippe, 93g:68084**
Zhao, Xu Dong (*with* Feng, Yu Lin) Automatic and hierarchical verification for concurrent systems. **93e:68074**
Zobel, Justin *see* **Dart, Philip W., 93h:68084**

Items listed otherwise than by author

Applications of process algebra ★ Applications of process algebra. **93g:68090**
Bâstad ★ Programming logic. **93h:68089**
Programming logic ★ Programming logic. **93h:68089**
Workshop:
Programming Logic ★ Programming logic. **93h:68089**

Items with secondary classifications in 68Q60

Akkerman, G. J. (*with* Baeten, J. C. M.) Term rewriting analysis in process algebra. **93f:68054**
Anisimov, N. A. An algebra of regular macronets for formal specification of communication protocols. (Russian summary) **93c:68075**
Antoniou, Grigoris *see* **Sperschneider, V., 93a:03002**
Babai, László (*with* Fortnow, Lance) Arithmetization: a new method in structural complexity theory. **93c:68027**
— (*with* Fortnow, Lance; Lund, Carsten) Addendum to: "Nondeterministic exponential time has two-prover interactive protocols" [Comput. Complexity **1** (1991), no. 1, 3–40; MR 92h:68031]. **93c:68027**
Baeten, J. C. M. *see* **Akkerman, G. J., 93f:68054**
Beigel, Richard (*with* Bellare, Mihir; Feigenbaum, Joan; Goldwasser, Shafi) Languages that are easier than their proofs. (English summary) (*see* **93d:68005**)
Bellare, Mihir *see* **Beigel, Richard; et al., (93d:68005)**
Berghammer, Rudolf (*with* Kempf, Peter; Schmidt, Gunther W.; Ströhlein, Thomas) Relation algebra and logic of programs. **93d:03065**
Bergstra, J. A. A process creation mechanism in process algebra. (*see* **93g:68090**)
Boiten, Eerke A. Improving recursive functions by inverting the order of evaluation. **93c:68011**
Bossi, A. (*with* Valentini, Silvio) An intuitionistic theory of types with assumptions of high-arity variables. **93g:03008**
Brumfitt, P. J. MetaMorph—a formal methods toolkit with application to the design of digital hardware. (English summary) **93j:68025**
Carpenter, Bob ★ The logic of typed feature structures. **93j:68001**
Casley, Ross (*with* Crew, Roger F.; Meseguer, José; Pratt, Vaughan) Temporal structures. **93i:68117**
Chebotar', K. S. A practical approach to the solution of the circulatory problem for attribute grammars. (Russian. English and Moldavian summaries) **93f:68063**
Crew, Roger F. *see* **Casley, Ross; et al., 93i:68117**
Dam, Mads *R*-generability, and definability in branching time logics. **93h:03032**
Debray, Saumya K. Efficient dataflow analysis of logic programs. (English summary) **93h:68018**
Feigenbaum, Joan *see* **Beigel, Richard; et al., (93d:68005)**
Fortnow, Lance *see* **Babai, László, 93c:68027**
Gavilanes-Franco, Antonio (*with* Lucio-Carrasco, Francisca) A first order logic for partial functions. **93c:03029**
Goldwasser, Shafi *see* **Beigel, Richard; et al., (93d:68005)**
Gries, David Binary to decimal, one more time. **93c:68036**
Hannan, John (*with* Miller, Dale A.) From operational semantics to abstract machines. (English summary) **93m:68113**
He, Jifeng *see* **Martin, C. E.; et al., 93e:68064**
Hesselink, Wim H. ★ Programs, recursion and unbounded choice. **93f:68002**
Hilken, Barney P. (*with* Rydeheard, David E.) Indexed categories for program development. (French summary) **93d:18012**
Hoare, C. A. R. *see* **Martin, C. E.; et al., 93e:68064**
Isakowitz, T. Can we transform logic programs into attribute grammars? (French summary) **93a:68076**
Jiang, Yue Jun A first step towards autoepistemic logic programming. (Russian summary) **93a:68082**
Kanamori, Tadashi (*with* Kawamura, Tadashi) Abstract interpretation based on OLDT resolution. (English summary) **93j:68035**
Katz, Shmuel (*with* Peled, Doron) Defining conditional independence using collapses. (English summary) **93g:68076**
Kawamura, Tadashi *see* **Kanamori, Tadashi, 93j:68035**
Kempf, Peter *see* **Berghammer, Rudolf; et al., 93d:03065**
Knijnenburg, P. M. W. (*with* van Leeuwen, Jan) On models for propositional dynamic logic. **93h:03033**
van Leeuwen, Jan *see* **Knijnenburg, P. M. W., 93h:03033**
Li, Wei[3] A type-theoretic approach to program development. **93c:68062**
Lucio-Carrasco, Francisca *see* **Gavilanes-Franco, Antonio, 93c:03029**
Lund, Carsten *see* **Babai, László; et al.**
Marcus, Leo (*with* Menas, Telis) Expressibility of output equals input. Negative and positive results. (English summary) **93m:03052**
Martin, C. E. (*with* Hoare, C. A. R.; He, Jifeng) Pre-adjunctions in order enriched categories. **93e:68064**
Mason, Ian A. (*with* Talcott, Carolyn) Inferring the equivalence of functional programs that mutate data. (English summary) **93m:68116**
Menas, Telis *see* **Marcus, Leo, 93m:03052**
Meseguer, José *see* **Casley, Ross; et al., 93i:68117**
Miller, Dale A. *see* **Hannan, John, 93m:68113**
de Moor, Oege Inductive data types for predicate transformers. **93k:68069**
Mosses, Peter D. ★ Action semantics. **93i:68002**
Mowbray, Miranda Finitary logics for some CCS observational bisimulations. **93h:03034**
Mulder, J. C. (*with* Weijland, W. P.) Verification of an algorithm for log-time sorting by square comparison. (*see* **93g:68090**)
Nakayama, Hideaki Program transformation under the principle of proof as program. (English summary) **93m:68031**
Nepeivoda, N. N. A bridge between constructive logic and computer programming. **93e:03043**
Nguyen, Thanh Tung A relational model of demonic nondeterministic programs. **93g:68039**
Peled, Doron *see* **Katz, Shmuel, 93g:68076**
Phan Minh Dung Acyclic disjunctive logic programs with abductive procedure as proof procedure. (English summary) (*see* **93i:68007**)
Poole, David Lynton Logic programming, abduction and probability. (English summary) **93j:68032**
Pratt, Vaughan *see* **Casley, Ross; et al., 93i:68117**
Rydeheard, David E. *see* **Hilken, Barney P., 93d:18012**
Sain, Ildikó Temporal logics need their clocks. **93c:03024**
Schmidt, Gunther W. *see* **Berghammer, Rudolf; et al., 93d:03065**
Sperschneider, V. (*with* Antoniou, Grigoris) ★ Logic: a foundation for computer science. **93a:03002**
Ströhlein, Thomas *see* **Berghammer, Rudolf; et al., 93d:03065**
Szałas, Andrzej Axiomatizing fixpoint logics. **93a:03030**
Takayama, Yukihide Defining concurrent processes constructively. (English summary) (*see* **93i:68007**)
Talcott, Carolyn *see* **Mason, Ian A., 93m:68116**
Tatsuta, Makoto Realizability interpretation of coinductive definitions and program synthesis with streams. (English summary) (*see* **93i:68007**)
Thorne, Mike Back to the future: mathematical logic and computers. (*see* **93g:00019**)
Toyama, Yoshihito How to prove equivalence of term rewriting systems without induction. **93a:68070**
Vaandrager, Frits W. Process algebra semantics of POOL. (*see* **93g:68090**)
Valentini, Silvio *see* **Bossi, A., 93g:03008**
Weijland, W. P. *see* **Mulder, J. C., (93g:68090)**

68Q65 Abstract data types; algebraic specification

Astesiano, Egidio (*with* Giovini, Alessandro; Reggio, Gianna) Observational structures and their logic. **93e:68075**
Bartha, Miklós Foundations of a theory of synchronous systems. **93m:68119**
Baugh, J. W., Jr. Using formal methods to specify the functional properties of engineering software. (English summary)
Byts', V. V. (*with* Zulunov, R. M.) Specification of levels of description of data types. (Russian) **93h:68090**
Carpenter, Bob Typed feature structures: a generalization of first-order terms. (English summary) (*see* **93i:68009**)
Ehrich, Hans-Dieter (*with* Gogolla, Martin; Lipeck, Udo Walter) ★ Algebraische Spezifikation abstrakter Datentypen. (German) [Algebraic specification of abstract data types] **93a:68098**
Feferman, Solomon A new approach to abstract data types. I. Informal development. **93m:68120**
Giovini, Alessandro *see* **Astesiano, Egidio; et al., 93e:68075**
Gogolla, Martin *see* **Ehrich, Hans-Dieter; et al., 93a:68098**
Gong, Chun *see* **Wing, Jeannette M., 93i:68133**
Gray, John W. Order-enriched sketches for typed lambda calculi. **93h:68091**
Kasami, Tadao *see* **Seki, Hiroyuki; et al.**
Kozics, Sándor Definition of abstract data types in different programming languages. (Hungarian. English and Hungarian summaries)
Li, Chuan Xiang *see* **Li, Zhong Zhang; et al., 93m:68121**
Li, Zhong Zhang (*with* Li, Chuan Xiang; Wang, Han Fei) Some problems in partial abstract data type. (English summary) **93m:68121**
Lin, Hui Min "Inductionless induction" and relative completeness. **93k:68068**
Lipeck, Udo Walter *see* **Ehrich, Hans-Dieter; et al., 93a:68098**
MacDonald, John L. Concretely functorial programming. **93h:68092**

Matsumura, Takashi *see* **Seki, Hiroyuki; et al.**
de Moor, Oege Inductive data types for predicate transformers. **93k:68069**
Moss, Lawrence S. (*with* Thatte, Satish R.) Modal logic and algebraic specifications. (English summary) **93m:68122**
Mulry, Philip S. Monads and algebras in the semantics of partial data types. **93d:68045**
Nabika, Eiji *see* **Seki, Hiroyuki; et al.**
Oles, Frank J. When is a category of many-sorted algebras Cartesian closed? (English summary) **93j:68138**
Reggio, Gianna *see* **Astesiano, Egidio; et al., 93e:68075**
Schoett, Oliver Two impossibility theorems on behaviour specification of abstract data types. (English summary) **93g:68091**
Seki, Hiroyuki (*with* Kasami, Tadao; Nabika, Eiji; Matsumura, Takashi) A method for translating natural language program specifications into algebraic specifications. (English summary)
Talcott, Carolyn A theory for program and data type specification. (English summary) **93i:68132**
Thatte, Satish R. *see* **Moss, Lawrence S., 93m:68122**
Tucker, J. V. (*with* Zucker, J. I.) Projections of semicomputable relations on abstract data types. **93d:68046**
— (*with* Zucker, J. I.) Deterministic and nondeterministic computation, and Horn programs, on abstract data types. **93c:68069**
Vickers, Steven Geometric theories and databases. (English summary) **93j:68139**
Waldmann, Uwe Semantics of order-sorted specifications. **93k:68070**
Wang, Han Fei *see* **Li, Zhong Zhang; et al., 93m:68121**
Wing, Jeannette M. (*with* Gong, Chun) Testing and verifying concurrent objects. (English summary) **93i:68133**
Yurchenko, V. V. ★ Функциональные сети. (Russian. English and Russian summaries) [Functional networks]
Zucker, J. I. *see* **Tucker, J. V., 93c:68069** *and* **93d:68046**
Zulunov, R. M. *see* **Byts', V. V., 93h:68090**

Items with secondary classifications in 68Q65

Bruce, Kim B. (*with* Di Cosmo, Roberto; Longo, Giuseppe[1]) Provable isomorphisms of types. **93g:68072**
Burstall, Rod M. *see* **Goguen, Joseph A., 93h:03056**
Dauchet, Max (*with* Tison, S.) Structural complexity of classes of tree languages. (English summary) **93j:68099**
Di Cosmo, Roberto *see* **Bruce, Kim B.; et al., 93g:68072**
Duchamp, Gérard (*with* Krob, Daniel) On the partially commutative shuffle product. **93g:68060**
Goguen, Joseph A. (*with* Burstall, Rod M.) Institutions: abstract model theory for specification and programming. **93h:03056**
Hébert, Michel Syntactic characterization of closure under connected limits. **93e:03050**
Hilken, Barney P. (*with* Rydeheard, David E.) Towards a categorical semantics of type classes. **93k:68063**
Kasangian, S. (*with* Vigna, S.) Introducing a calculus of trees. **93d:68050**
Kawamura, Tadashi Logic program synthesis from first order logic specifications. (English summary) **93j:68029**
Krob, Daniel *see* **Duchamp, Gérard, 93g:68060**
Limongelli, C. (*with* Temperini, M.) Abstract specification of structures and methods in symbolic mathematical computation. (English summary) **93j:68089**
Longo, Giuseppe[1] *see* **Bruce, Kim B.; et al., 93g:68072**
Mairson, Harry G. Outline of a proof theory of parametricity. **93g:03013**
Manca, Vincenzo (*with* Salibra, Antonino) On the power of equational logic: applications and extensions. **93f:03017**
— (*with* Salibra, Antonino) Soundness and completeness of the Birkhoff equational calculus for many-sorted algebras with possibly empty carrier sets. **93f:03018**
Parigot, Michel Recursive programming with proofs. **93g:68088**
Pelin, Alex Exact computation sequences. **93e:68051**
(Reed, G. M.) *see* **Topology and category theory in computer science, 93h:68004**
(Roscoe, A. W.) *see* **Topology and category theory in computer science, 93h:68004**
Rydeheard, David E. *see* **Hilken, Barney P., 93k:68063**
Salibra, Antonino *see* **Manca, Vincenzo, 93f:03017** *and* **93f:03018**
Schoenmakers, Berry ★ Data structures and amortized complexity in a functional setting. (English. Dutch summary) **93i:68035**
Streicher, Thomas ★ Semantics of type theory. **93d:68042**
Talcott, Carolyn Binding structures. **93f:68053**
Temperini, M. *see* **Limongelli, C., 93j:68089**
Tison, S. *see* **Dauchet, Max, 93j:68099**
Vigna, S. *see* **Kasangian, S., 93d:68050**
(Wachter, R. F.) *see* **Topology and category theory in computer science, 93h:68004**
(Wirsing, Martin) *see* **Streicher, Thomas, 93d:68042**
Zhang, Ming Hua Data types with errors and exceptions. (English summary) **93i:68045**

Items listed otherwise than by author

Oxford ★ Topology and category theory in computer science. **93h:68004**
Symposium:
Topology ★ Topology and category theory in computer science. **93h:68004**
Topology and category theory in computer science ★ Topology and category theory in computer science. **93h:68004**

68Q68 Automata theory, general [see also 03D05]

Dömösi, P. (*with* Kovács, B.) Simulation on finite networks of automata. **93e:68076**
Gössel, Michael ★ Automatentheorie für Ingenieure. (German) [Automata theory for engineers] **93d:68047**
Kovács, B. *see* **Dömösi, P., 93e:68076**
Weber, Andreas Distance automata having large finite distance or finite ambiguity. (English summary) **93j:68140**

Items with secondary classifications in 68Q68

Aslanova, N. Kh. (*with* Faradzhev, R. G.) On the block approach to problems in the theory of sequential machines. (Russian) **93b:93067**
Bertrand-Mathis, Anne Nombres de Perron et questions de rationnalité. [Perron numbers and problems of rationality] **93e:11120a**
— Nombres de Perron et problèmes de rationnalité. [Perron numbers and problems of rationality] **93e:11120b**
Faradzhev, R. G. *see* **Aslanova, N. Kh., 93b:93067**
Gollmann, D. Automata theory and cryptanalysis. **93a:94023**
Harju, T. (*with* Kleijn, H. C. M.; Latteux, Michel) Compositional representation of rational functions. (French summary) **93j:68144**
Huỳnh, Dũng T. The complexity of deciding code and monoid properties for regular sets. **93g:68043**
Klarner, David A. (*with* Post, K. A.) Some fascinating integer sequences. (English summary) **93i:11031**
Kleijn, H. C. M. *see* **Harju, T.; et al., 93j:68144**
Latteux, Michel *see* **Harju, T.; et al., 93j:68144**
Post, K. A. *see* **Klarner, David A., 93i:11031**

68Q70 Algebraic theory of automata [see also 18B20, 20M35]

Arnold, André An extension of the notions of traces and of asynchronous automata. (French summary) **93c:68070**
Babcsányi, I. On output behaviour of Mealy-automata. **93e:68077**
— On the simplicity of cyclic Mealy-automata. **93b:68051**
— $(t; m, n)$-commutative automata. **93d:68048**
Barkalov, A. A. (*with* Yusifov, S. I.; Das, D. K.) ★ *PR*-автоматы: функционирование, оптимизация, выбор метода синтеза. (Russian. Russian summary) [*PR*-automata: functioning, optimization, choice of design method]
Bartha, Miklós An algebraic model of synchronous systems. **93b:68052**
Birget, Jean-Camille Positional simulation of two-way automata: proof of a conjecture of R. Kannan and generalizations. (English summary) **93j:68141**
Borisenko, V. I. Sufficient conditions for the equivalence of three-tape automata. (Russian. English and Ukrainian summaries) **93b:68053**
Bozapalidis, Symeon Alphabetic tree relations. **93g:68092**
Broglio, Annie (*with* Liardet, Pierre) Predictions with automata. (English summary) **93k:68071**
Buevich, V. A. On τ-completeness in the class of determinate functions. (Russian) **93j:68142**
Chernyi, D. E. *see* **Spivak, M. A., 93e:68084**
Chirkov, M. K. On matrix methods for optimization of generalized automata. **93e:68078**
Damphousse, Pierre Automates et langages. (English summary) [Automata and languages] **93g:68093**
Đặng Huy Ruận An upper bound on the finite automaton complexity of a set of superwords defined by a generalized regular function. (Russian) (*see* **93m:00021**)
Das, D. K. *see* **Barkalov, A. A.; et al.**
Đỗ Long Vân (*with* Phan Trung Huy) Varieties of finite monoids and Büchi-McNaughton theorem. **93m:68123**
Dömösi, P. (*with* Gécseg, F.) Simulation and representation by ν_l^*-products of automata. **93d:68049**
Edwards, William R., Jr. *see* **Greenblatt, Bruce, 93a:68099**
Frougny, Christiane Representations of numbers and finite automata. **93b:68054**
Fülöp, Zoltán Decidability questions in monoids generated by tree transformation classes. (Hungarian. English and Hungarian summaries) **93g:68094**
Gécseg, F. (*with* Imreh, B.) Finite isomorphically complete systems. **93b:68055**
— *see also* **Dömösi, P., 93d:68049**
Gleason, Andrew Semigroups of shift register counting matrices. **93e:68079**
Gobechia, M. I. On the triangular multiplication of bi-automata. (Russian. English and Georgian summaries) **93e:68080**
Goldwurm, Massimiliano Probabilistic estimation of the number of prefixes of a trace. **93c:68071**
Gramatges, R. Processing of sequences by definite and group automata. (Russian) (*see* **93m:00021**)
Greenblatt, Bruce (*with* Edwards, William R., Jr.) Semigroup automaton structure by homomorphism and domain partition. **93a:68099**
Gremal'skii, A. A. (*with* Roshkovan, A. G.; Tsarigradskii, S. V.) Design of pseudorandom test sequences for finite automata. (Russian. English, Russian and Moldavian summaries)
— (*with* Roshkovan, A. G.; Tsarigradskii, S. V.) Estimation of the quality of pseudorandom test sequences with respect to an automaton model of a discrete device. (Russian. English, Russian and Moldavian summaries)
Gunawardena, Jeremy Causal automata. (English summary) **93j:68143**
Harju, T. (*with* Kleijn, H. C. M.; Latteux, Michel) Deterministic sequential functions. (English summary) **93h:68093**
— (*with* Kleijn, H. C. M.; Latteux, Michel) Compositional representation of rational functions. (French summary) **93j:68144**
Hromkovič, Juraj (*with* Inoue, Katsushi; Itō, Akira; Takanami, Itsuo) On the power of two-dimensional synchronized alternating finite automata. **93a:68100**
— (*with* Inoue, Katsushi) A note on realtime one-way synchronized alternating one-counter automata. (English summary) **93k:68072**
Imreh, B. *see* **Gécseg, F., 93b:68055**
Inoue, Katsushi *see* **Hromkovič, Juraj; et al., 93a:68100** *and* **93k:68072**
Itō, Akira *see* **Hromkovič, Juraj; et al., 93a:68100**
Kaminski, Michael (*with* Pinter, Shlomit S.) Finite automata on directed graphs. **93m:68124**
Karner, Georg Nivat's theorem for pushdown transducers. **93m:68125**
Kasangian, S. (*with* Vigna, S.) Introducing a calculus of trees. **93d:68050**
Kilibarda, G. A new proof of the Budach-Podkolzin theorem. (Russian) **93a:68101**
Klarlund, Nils Progress measures for complementation of ω-automata with applications to temporal logic. (English summary) **93i:68134**
Kleijn, H. C. M. *see* **Harju, T.; et al., 93h:68093** *and* **93j:68144**

Kolář, Miroslav Substitutions, finite automata and number systems. (English summary) **93h:68094**

Kovács, Tibor Inducibility of the n-factor composition of frontier-to-root tree transformation. **93e:68081**

Kozlovskiĭ, V. A. Local failures of an automaton and their detection. (Russian) **93a:68102**

Kudryavtsev, G. Yu. Distinguishability of vertices of automaton labyrinths by finite automata. (Russian) **93j:68145**

— On the solution time for labyrinth problems by finite automata. (Russian) **93i:68135**

Küster, Gerhard On the Hurwitz product of formal power series and automata. **93b:68056**

Kutyłowski, Mirosław Multihead one-way finite automata. **93a:68103**

Latteux, Michel *see* **Harju, T.; et al., 93h:68093** *and* **93j:68144**

Leung, Hing On some decision problems in finite automata. **93b:68057**

Levin, Vitaliĭ Il'ich Calculation of dynamical processes in discrete automata with indeterminate parameters by means of nondeterministic infinite-valued logic. (Russian. English and Ukrainian summaries)

Liardet, Pierre *see* **Broglio, Annie, 93k:68071**

de Luca, Aldo (*with* Varricchio, Stefano) On noncounting regular classes. **93i:68136**

Mazoyer, J. (*with* Reimen, N.) A linear speed-up theorem for cellular automata. (English summary) **93e:68082**

Monti, A. (*with* Parente, D.) Systolic tree with base automata. **93a:68104**

Nagy, Attila Boolean-type rectractable automata with traps. **93b:68058**

Oehmke, Robert H. Minimal congruences on automata. **93h:68095**

— On semisimplicity for automata. **93g:68095**

Parente, D. *see* **Monti, A., 93a:68104**

Păun, Gheorghe (*with* Szakács, M.) On a class of finite automata. (English summary) **93g:68096**

Peeva, Ketty G. Equivalence, reduction and minimization of finite automata over semirings. **93a:68105**

Péladeau, Pierre Formulas, numerical predicates and recognizable languages. **93b:68059**

Phan Trung Huy *see* **Đỗ Long Vân, 93m:68123**

Pinter, Shlomit S. *see* **Kaminski, Michael, 93m:68124**

Podelski, Andreas A monoid approach to tree automata. (English summary) **93j:68146**

Puskás, Csaba (*with* Tanaka, Genjiro) Remarks on stable Mealy automata. (English summary) **93g:68097**

Reimen, N. *see* **Mazoyer, J., 93e:68082**

Rosenthal, Kimmo I. Quantaloidal nuclei, the syntactic congruence and tree automata. **93e:68083**

Roshkovan, A. G. *see* **Gremal'skiĭ, A. A.; et al.**

Rystsov, I. K. A quadratic bound for the length of a resetting word in a regular automaton. (Russian. English and Russian summaries) **93h:68096**

— On the rank of a finite automaton. (Russian. English, Russian and Ukrainian summaries) **93h:68097**

Saoudi, Ahmed Rational and recognizable infinite tree sets. **93k:68073**

Seidl, Helmut Ambiguity and valuedness. (English summary) **93h:68098**

— *see also* **Weber, Andreas, 93d:68051**

Shapiro, Michael David Deterministic and nondeterministic asynchronous automatic structures. (English summary) **93i:68137**

Sherenzon, V. L. Strong connectivity of the direct product of automata. (Russian) (*see* **93f:00017**)

Simonnet, Pierre Automate d'arbres infinis et choix borélien. (English and French summaries) [Automata on infinite trees and Borelian choice] **93j:68147**

Spivak, M. A. (*with* Chernyi, D. E.) Simple unconditional experiments with two-input automata. (Russian) **93e:68084**

Sytnik, A. A. Enumeration in the reconstruction of the behavior of automata. (Russian)

Szakács, M. *see* **Păun, Gheorghe, 93g:68096**

Takanami, Itsuo *see* **Hromkovič, Juraj; et al., 93a:68100**

Tanaka, Genjiro *see* **Puskás, Csaba, 93g:68097**

Thomas, Wolfgang Infinite trees and automaton-definable relations over ω-words. (English summary) **93k:68074**

Timoshkin, A. I. Some classes of structural automata that can be tested by two input sets. (Russian. German and Estonian summaries) **93i:68138**

Todorovich, D. On the equivalence of the states of asynchronous automata. (Russian) (*see* **93m:00021**)

Tsarigradskiĭ, S. V. *see* **Gremal'skiĭ, A. A.; et al.**

Vágvölgyi, Sándor Top-down tree transducers with two-way tree walking look-ahead. **93g:68098**

Varricchio, Stefano *see* **de Luca, Aldo, 93i:68136**

Vigna, S. *see* **Kasangian, S., 93d:68050**

Weber, Andreas (*with* Seidl, Helmut) On the degree of ambiguity of finite automata. **93d:68051**

— On the lengths of values in a finite transducer. (English summary) **93j:68148**

Yusifov, S. I. *see* **Barkalov, A. A.; et al.**

Zhang, Shu Hua Polynomial-time algorithms for testing strong isomorphism and computing the automorphism group of R-strongly connected automata. **93a:68106**

— Efficient simplicity testing of automata. **93c:68072**

Items with secondary classifications in 68Q70

Barua, Rana The Hausdorff-Kuratowski hierarchy of ω-regular languages and a hierarchy of Muller automata. **93k:03036**

Birget, Jean-Camille Intersection and union of regular languages and state complexity. **93k:68056**

Björner, Anders (*with* Reutenauer, Christophe) Rationality of the Möbius function of subword order. **93k:68081**

Bonopera, Alain (*with* Gaujal, Bruno) Inference of reversible languages. (English summary) **93j:68096**

Cannon, James W. *see* **Epstein, David B. A.; et al., 93i:20036**

Carlstrom, Ian F. Foreground automata. (English summary) **93j:68054**

Castagnoli, Giuseppe (*with* Rasetti, Mario; Vincenzi, Antonio) Steady, simultaneous quantum computation: a paradigm for the investigation of nondeterministic and nonrecursive computation. (English summary) **93i:81020**

Chasovskikh, A. A. Completeness in the class of linear automata. (Russian) **93b:03063**

Chen, Rong Jaye (*with* Hou, Yu Song) Nonassociative parallel prefix computation. (English summary) **93i:68099**

Clay, J. R. (*with* Fong, Yuen) On syntactic nearrings of even dihedral groups. **93k:16082**

Cohen, Daniel I. A. ★ Introduction to computer theory. **93i:68003**

Cosnard, Michel (*with* Tchuente, Maurice; Tindo, Gilbert) Sequences generated by neuronal automata with memory. **93b:92002**

Culik, Karel, II (*with* Yu, Sheng) Cellular automata, $\omega\omega$-regular sets, and sofic systems. **93e:68053**

Epstein, David B. A. (*with* Cannon, James W.; Holt, Derek F.; Levy, Silvio V. F.; Paterson, Michael S.; Thurston, William P.) ★ Word processing in groups. **93i:20036**

Ésik, Zoltán Varieties of automata and transformation semigroups. **93g:20119**

Fong, Yuen (*with* Huang, F. K.; K'o, Wên Fêng) Syntactic linear[near]-rings associated with groups semiautomata. **93i:16061**

— *see also* **Clay, J. R., 93k:16082**

Freivalds, Rūsiņš Complexity of probabilistic versus deterministic automata. **93b:68060**

Garzon, Max Graphical words and languages. **93h:68070**

Gaujal, Bruno *see* **Bonopera, Alain, 93j:68096**

Girault-Beauquier, Danièle (*with* Pin, Jean-Eric) Languages and scanners. **93g:20124**

Gunawardena, Jeremy Geometric logic, causality and event structures. **93b:03043**

Holt, Derek F. *see* **Epstein, David B. A.; et al., 93i:20036**

Hou, Yu Song *see* **Chen, Rong Jaye, 93i:68099**

Hromkovič, Juraj (*with* Inoue, Katsushi; Rovan, Branislav; Slobodová, Anna; Takanami, Itsuo; Wagner, Klaus Werner) On the power of one-way synchronized alternating machines with small space. **93f:68026**

Huang, F. K. *see* **Fong, Yuen; et al., 93i:16061**

Inoue, Katsushi *see* **Hromkovič, Juraj; et al., 93f:68026**

Karhumäki, J. Equations over finite sets of words and equivalence problems in automata theory. **93d:20119**

Kireeva, A. V. Some correspondences between the lattice of subautomata and the lattice of congruences of an automaton. (Russian) (*see* **92m:06001**)

K'o, Wên Fêng *see* **Fong, Yuen; et al., 93i:16061**

Le Saëc, Bertrand (*with* Pin, Jean-Eric; Weil, Pascal) Semigroups with idempotent stabilizers and applications to automata theory. **93d:20120**

Levy, Silvio V. F. *see* **Epstein, David B. A.; et al., 93i:20036**

Makarov, V. V. On element orders of an automaton permutation group. (Russian)

Métivier, Yves (*with* Rozoy, Brigitte) On the star operation in free partially commutative monoids. **93a:20087**

Muller, David E. (*with* Saoudi, Ahmed; Schupp, Paul E.) Alternating automata, the weak monadic theory of trees and its complexity. **93h:03058**

Nakamura, Akira[1] Three-dimensional connected pictures are not recognizable by finite-state acceptors. (English summary) **93h:68060**

Paterson, Michael S. *see* **Epstein, David B. A.; et al., 93i:20036**

Pedersen, John Cellular automata as algebraic systems. **93h:68104**

Perrin, Dominique (*with* Schützenberger, Marcel-Paul) Synchronizing prefix codes and automata and the road coloring problem. (English summary) **93i:94010**

— On positive matrices. **93f:15018**

Peters, James F., III (*with* Starling, A. Gregory; Ramanna, Sheela) Concrete and abstract categories of concurrent timed automata. (English summary) **93k:18007**

Pieper, F. T. A. M. Data machines and standards, or the functional specification of information systems. (English summary) **93j:68133**

Pin, Jean-Eric *see* **Le Saëc, Bertrand; et al., 93d:20120** *and* **Girault-Beauquier, Danièle, 93g:20124**

Ramanna, Sheela *see* **Peters, James F., III; et al., 93k:18007**

Rasetti, Mario *see* **Castagnoli, Giuseppe; et al., 93i:81020**

Reutenauer, Christophe *see* **Björner, Anders, 93k:68081**

Rovan, Branislav *see* **Hromkovič, Juraj; et al., 93f:68026**

Rozoy, Brigitte *see* **Métivier, Yves, 93a:20087**

Saoudi, Ahmed *see* **Muller, David E.; et al., 93h:03058**

Schupp, Paul E. *see* **Muller, David E.; et al., 93h:03058**

Schützenberger, Marcel-Paul *see* **Perrin, Dominique, 93i:94010**

Schwer, Sylviane R. Fine covers of a VAS language. **93e:68090**

Shu, Lan On fuzzy type 3 attribute grammars and fuzzy attributed automata. (Chinese. English and Chinese summaries) **93i:68113**

— Pushdown automata accepted fuzzy context-free language. (English and Chinese summaries) **93k:68061**

Silva, Pedro V. Rational languages and inverse monoid presentations. (English summary) **93e:20074**

Simonnet, Pierre Un théorème de séparation sur les ensembles rationnels de mots infinis. (English and French summaries) [A separation theorem for rational sets of infinite words] **93m:03064**

Slobodová, Anna *see* **Hromkovič, Juraj; et al., 93f:68026**

Starling, A. Gregory *see* **Peters, James F., III; et al., 93k:18007**

Takanami, Itsuo *see* **Hromkovič, Juraj; et al., 93f:68026**

Tchuente, Maurice *see* **Cosnard, Michel; et al., 93b:92002**

Thathachar, M. A. L. Stochastic automata and learning systems. (English summary)

Thurston, William P. *see* **Epstein, David B. A.; et al., 93i:20036**

Tindo, Gilbert *see* **Cosnard, Michel; et al., 93b:92002**

Vardi, Moshe Y. Automata theory for database theoreticians. **93b:68018**

Vincenzi, Antonio *see* **Castagnoli, Giuseppe; et al., 93i:81020**

Wagner, Klaus Werner *see* **Hromkovič, Juraj; et al., 93f:68026**

Weil, Pascal *see* **Le Saëc, Bertrand; et al., 93d:20120**

Wen, Zhi Xiong (*with* Wen, Zhi Ying) Some studies on the (p, q)-type sequences. **93g:11022**

Wen, Zhi Ying *see* **Wen, Zhi Xiong, 93g:11022**

Westerdale, T. H. Quasimorphisms or queasymorphisms? Modeling finite automaton environments. **93d:65013**

Yu, Sheng *see* **Culik, Karel, II, 93e:68053**

Zhou, Guang Fu A Boolean matrix description of the centralizer of the subgroup in the symmetric semigroup. **93a:20097**

68Q75 Stochastic and nondeterministic automata

Chebotarev, A. N. Automata interaction. (Russian. English and Ukrainian summaries) **93h:68099**

Freivalds, Rūsiņš Complexity of probabilistic versus deterministic automata. **93b:68060**

Jiang, Tao[1] (*with* McDowell, Edward; Ravikumar, B.) The structure and complexity of minimal NFAs over a unary alphabet. **93c:68073**

McDowell, Edward *see* **Jiang, Tao[1]; et al., 93c:68073**

Mubarakzyanov, R. G. On the ε-modeling of the behavior of probabilistic automata. (Russian) **93a:68107**

Ravikumar, B. *see* **Jiang, Tao[1]; et al., 93c:68073**

Tzeng, Wen-Guey A polynomial-time algorithm for the equivalence of probabilistic automata. **93a:68108**

Wang, Jie[1] A note on two-way probabilistic automata. (English summary) **93i:68139**

Items with secondary classifications in 68Q75

Adamatskii, A. I. Identification of probabilistic cellular automata. (Russian) **93b:68061**

Baccelli, François Ergodic theory of stochastic Petri networks. **93a:68110**

Hofestädt, Ralf *see* **Hörkens, Ulrich, (93e:00021)**

Hörkens, Ulrich (*with* Hofestädt, Ralf) Cellular automata simulation shell. (English summary) (*see* **93e:00021**)

Ivanov, Nikolai Nikolaevich[2] Conditions for the existence of a limit probability distribution of markings in timed stochastic Petri nets. (Russian. Russian summary) **93h:68107**

Ivanov, V. A. Discrimination of contiguous hypotheses based on randomly transformed realization. (Russian) (*see* **93b:60003**)

Maes, Christian An invitation to probabilistic cellular automata. (English summary) **93k:82050**

Monti, Carlo M. (*with* Viaro, Umberto) State observation and error detection analysis in finite automata for coding systems. (English summary)

Nakano, Jun *see* **Tokuyama, Takeshi, (93b:68005)**

Tokuyama, Takeshi (*with* Nakano, Jun) Efficient algorithms for the Hitchcock transportation problem. (*see* **93b:68005**)

Viaro, Umberto *see* **Monti, Carlo M.**

Weber, Andreas Distance automata having large finite distance or finite ambiguity. (English summary) **93j:68140**

68Q80 Tessellation automata, iterative arrays, cellular structures

Adamatskii, A. I. Identification of probabilistic cellular automata. (Russian) **93b:68061**

Anantharam, Venkat *see* **Gharavi, Reza, 93h:68102**

Armentrout, Steven L. *see* **Reggia, James A.; et al.**

Bagnoli, Franco Boolean derivatives and computation of cellular automata. **93h:68100**

Bays, Carter A new candidate rule for the game of three-dimensional life. **93m:68126**

Botelho, Fernanda (*with* Garzon, Max) On dynamical properties of neural networks. **93h:68101**

Chou, Hui-Hsien *see* **Reggia, James A.; et al.**

Crutchfield, James P. *see* **Hanson, James E., 93i:68140**

Das, Aloke K. (*with* Sanyal, A.; Pal Chaudhuri, P.) On characterization of cellular automata with matrix algebra. **93b:68062**

— (*with* Nayak, Tapas K.; Pal Chaudhuri, P.) On characterization of state transition graph of additive cellular automata based on depth. **93k:68075**

Garzon, Max *see* **Botelho, Fernanda, 93h:68101**

Gharavi, Reza (*with* Anantharam, Venkat) Effect of noise on long-term memory in cellular automata with asynchronous delays between the processors. **93h:68102**

Goles Ch., Eric (*with* Kiwi, Marcos) One-dimensional sand piles, cellular automata and related models. **93c:68074**

Hanson, James E. (*with* Crutchfield, James P.) The attractor-basin portrait of a cellular automaton. **93i:68140**

Hofestädt, Ralf *see* **Hörkens, Ulrich, (93e:00021)**

Hörkens, Ulrich (*with* Hofestädt, Ralf) Cellular automata simulation shell. (English summary) (*see* **93e:00021**)

Jen, Erica Aperiodicity in one-dimensional cellular automata. **93d:68052**

Kawahara, Yasuo *see* **Lee, Hyen Yeal, 93f:68068**

Kiwi, Marcos *see* **Goles Ch., Eric, 93c:68074**

Layman, John W. Dynamics of multicellular automata with unbounded memory. (English summary) **93j:68149**

Lee, Hyen Yeal (*with* Kawahara, Yasuo) On dynamical behaviors of cellular automata ca-60. **93f:68068**

Levine, Lenore Regular language invariance under one-dimensional cellular automaton rules. **93f:68069**

Li, Wentian Phenomenology of nonlocal cellular automata. (English summary) **93h:68103**

Makowiec, Danuta The classification of homogeneous and symmetric cellular automata. (English summary)

Nayak, Tapas K. *see* **Das, Aloke K.; et al., 93k:68075**

Pal Chaudhuri, P. *see* **Das, Aloke K.; et al., 93b:68062** *and* **93k:68075**

Pedersen, John Cellular automata as algebraic systems. **93h:68104**

Peng, Yun *see* **Reggia, James A.; et al.**

Reggia, James A. (*with* Armentrout, Steven L.; Chou, Hui-Hsien; Peng, Yun) Simple systems that exhibit self-directed replication. (English summary)

Sanyal, A. *see* **Das, Aloke K.; et al., 93b:68062**

Szepietowski, Andrzej Two-dimensional on-line tessellation acceptors are not closed under complement. **93b:68063**

Voorhees, Burton Geometry and arithmetic of a simple cellular automaton. **93g:68099**

— Determination of fixed points and shift cycles for nearest neighbor cellular automata. **93a:68109**

Willson, Stephen J. Calculating growth rates and moments for additive cellular automata. **93b:68064**

Items with secondary classifications in 68Q80

Albin, Peter Approximations of cooperative equilibria in multi-person prisoners' dilemma played by cellular automata. (English summary) **93g:90093**

Bagnoli, Franco (*with* Rechtman, Raúl; Ruffo, Stefano) General algorithm for two-dimensional totalistic cellular automata.

Bruschi, M. (*with* Santini, Paolo Maria; Ragnisco, Orlando) Integrable cellular automata. (English summary) **93f:58122**

Culik, Karel, II *see* **Hurd, Lyman P.; et al., 93f:58124**

Durrett, Richard (*with* Steif, Jeffrey E.) Some rigorous results for the Greenberg-Hastings model. **93h:60162**

Ferber, Reginald Cellular automata are the continuous self-mappings of configuration spaces. (English summary) **93j:58068**

Goertzel, Ben On the structural complexity of sequences, images, and automata. (English summary) **93k:68109**

Goles Ch., Eric Sand piles, combinatorial games and cellular automata. (English summary) **93j:58069**

't Hooft, Gerard (*with* Isler, Karl; Kalitzin, S.) Quantum field-theoretic behavior of a deterministic cellular automaton. (English summary) **93m:81150**

Hurd, Lyman P. (*with* Kari, Jarkko; Culik, Karel, II) The topological entropy of cellular automata is uncomputable. (English summary) **93f:58124**

Isler, Karl *see* **'t Hooft, Gerard; et al., 93m:81150**

Jiang, Zhuhan An energy-conserved solitonic cellular automaton. **93g:58071**

Kalitzin, S. *see* **'t Hooft, Gerard; et al., 93m:81150**

Kari, Jarkko *see* **Hurd, Lyman P.; et al., 93f:58124**

Kostin, M. D. Cellular automata for quantum systems. (English summary) **93k:82063**

Maes, Christian An invitation to probabilistic cellular automata. (English summary) **93k:82050**

Malinetskii, G. G. (*with* Shakaeva, M. S.) Analysis of a family of cellular automata that model oscillatory chemical reactions. (Russian. English summary) **93d:65012**

— (*with* Shakaeva, M. S.) On a cellular automaton that models oscillating chemical reactions on a surface. (Russian)

Mycielski, Jan (*with* Niwiński, Damian) Cellular automata on trees, a model for parallel computation. **93g:68045**

Niwiński, Damian *see* **Mycielski, Jan, 93g:68045**

Ragnisco, Orlando *see* **Bruschi, M.; et al., 93f:58122**

Rechtman, Raúl *see* **Bagnoli, Franco; et al.**

Ruffo, Stefano *see* **Bagnoli, Franco; et al.**

Santini, Paolo Maria *see* **Bruschi, M.; et al., 93f:58122**

Shakaeva, M. S. *see* **Malinetskii, G. G., 93d:65012**

Shereshevskii, M. A. Lyapunov exponents for one-dimensional cellular automata. **93e:58100**

Steif, Jeffrey E. *see* **Durrett, Richard, 93h:60162**

Taborda Duarte, J. *see* **Vilela Mendes, R., 93b:92006**

Tchuente, Maurice ★ Parallel computation on regular arrays. **93h:65181**

Tyson, John J. *see* **Weimar, Jörg R.; et al., 93b:65199** *and* **93b:65200**

Vilela Mendes, R. (*with* Taborda Duarte, J.) Vector fields and neural networks. **93b:92006**

Watson, Layne T. *see* **Weimar, Jörg R.; et al., 93b:65199** *and* **93b:65200**

Weimar, Jörg R. (*with* Tyson, John J.; Watson, Layne T.) Diffusion and wave propagation in cellular automaton models of excitable media. **93b:65199**

— (*with* Tyson, John J.; Watson, Layne T.) Third generation cellular automaton for modeling excitable media. **93b:65200**

68Q90 Transition nets

Ajmone Marsan, M. *see* **Simone, C.**

Alla, H. *see* **Zerhouni, N.**

Anisimov, N. A. An algebra of regular macronets for formal specification of communication protocols. (Russian summary) **93c:68075**

Baccelli, François (*with* Bambos, Nicholas; Walrand, Jean) On flows in stochastic marked graphs. (English summary) **93f:68070**

— (*with* Konstantopoulos, Panagiotis) Estimates of cycle times in stochastic Petri nets. **93f:68071**

— Ergodic theory of stochastic Petri networks. **93a:68110**

— (*with* Liu, Zhen) Comparison properties of stochastic decision free Petri nets. (English summary) **93k:68076**

Bagga, Kunwarjit S. (*with* Owens, Frank W.) Some graph-theoretic properties of deadlocks and traps in Petri nets. **93d:68053**

Bambos, Nicholas *see* **Baccelli, François; et al., 93f:68070**

Best, Eike (*with* Desel, Jörg; Esparza, Javier) Traps characterize home states in free choice systems. (English summary) **93e:68085**

Buchholz, Peter A hierarchical view of GCSPNs and its impact on qualitative and quantitative analysis.

Campos, Javier *see* **Silva, Manuel; et al., 93h:68108**

Colom, J. M. *see* **Silva, Manuel; et al., 93h:68108**

Desel, Jörg *see* **Best, Eike; et al., 93e:68085**

DiCesare, Frank *see* **Guo, Dian Long; et al., 93m:68127** *and* **Jeng, Mu Der**

Esparza, Javier A solution to the covering problem for 1-bounded conflict-free Petri nets using linear programming. **93g:68100**

— (*with* Silva, Manuel) A polynomial-time algorithm to decide liveness of bounded free choice nets. **93h:68105**

— *see also* **Best, Eike; et al., 93e:68085**

Ferscha, A. A Petri net approach for performance oriented parallel program design.

Garg, Vijay Kumar (*with* Ragunath, M. T.) Concurrent regular expressions and their relationship to Petri nets. **93h:68106**

Guo, Dian Long (*with* DiCesare, Frank; Zhou, Meng Chu) A moment generating function based approach for evaluating extended stochastic Petri nets. (English summary) **93m:68127**

Haas, Peter J. (*with* Shedler, Gerald S.) Stochastic Petri nets: modeling power and limit theorems. (English summary) **93e:68086**

Henderson, W. (*with* Lucic, D.) Aggregation and disaggregation through insensitivity in stochastic Petri nets. (English summary) **93k:68077**

Hisamura, Tomiji *see* **Ohta, Atsushi, 93j:68150** *and* **93m:68129**

Holloway, Lawrence E. (*with* Krogh, Bruce H.) On closed-loop liveness of discrete-event systems under maximally permissive control. **93e:68087**
Ivanov, Nikolai Nikolaevich² Conditions for the existence of a limit probability distribution of markings in timed stochastic Petri nets. (Russian. Russian summary) **93h:68107**
Jasinevichius, R. Neural-type continuous Petri net concept for system modeling and simulation. (English summary) (*see* **93e:00021**)
Jávor, A. Petri nets and AI in simulation. (English summary) (*see* **93e:00021**)
Jeng, Mu Der (*with* DiCesare, Frank) A review of synthesis techniques for Petri nets with applications to automated manufacturing systems. (English summary)
Konstantopoulos, Panagiotis *see* **Baccelli, François**, **93f:68071**
Korczyński, Waldemar An axiomatic characterization of a class of Petri nets. **93a:68111**
Krogh, Bruce H. *see* **Holloway, Lawrence E.**, **93e:68087**
Laftit, Saïd (*with* Proth, Jean-Marie; Xie, Xiao-Lan) Optimization of invariant criteria for event graphs. **93d:68054**
Lambert, Jean-Luc A structure to decide reachability in Petri nets. **93i:68141**
Lee, Ho Soo (*with* Schor, Marshall I.) Match algorithms for generalized Rete networks. **93e:68088**
Li, Ren Hou *see* **Zhang, Lan**, **93a:68113**
Liu, Zhen *see* **Baccelli, François**, **93k:68076**
Lu, Ru Qian P/R nets and process concepts. I. **93g:68101**
— P/R nets and process concepts. II. (English summary) **93m:68128**
Lucic, D. *see* **Henderson, W.**, **93k:68077**
Martí-Oliet, Narciso (*with* Meseguer, José) From Petri nets to linear logic. **93c:68076**
Meseguer, José *see* **Martí-Oliet, Narciso**, **93c:68076**
Murata, Tadao *see* **Silva, Manuel**, **93m:68130**
Nielsen, Mogens (*with* Rozenberg, Grzegorz; Thiagarajan, P. S.) Elementary transition systems and refinement. (English summary) **93g:68102**
— (*with* Rozenberg, Grzegorz; Thiagarajan, P. S.) Elementary transition systems. **93g:68103**
Ohta, Atsushi (*with* Hisamura, Tomiji) On the monotonicity of liveness with respect to the increase of the token count in Petri nets. (Japanese. English summary) **93j:68150**
— (*with* Hisamura, Tomiji) POC net, a subclass of Petri nets, and its application to timed Petri nets. (English summary) **93m:68129**
Owens, Frank W. *see* **Bagga, Kunwarjit S.**, **93d:68053**
Pelz, E. Normalization of place/transition-systems preserves net behaviour. (French summary) **93e:68089**
Proth, Jean-Marie *see* **Laftit, Saïd; et al.**, **93d:68054**
Ragunath, M. T. *see* **Garg, Vijay Kumar**, **93h:68106**
Rozenberg, Grzegorz *see* **Nielsen, Mogens; et al.**, **93g:68102** *and* **93g:68103**
Schor, Marshall I. *see* **Lee, Ho Soo**, **93e:68088**
Schwer, Sylviane R. Fine covers of a VAS language. **93e:68090**
Shedler, Gerald S. *see* **Haas, Peter J.**, **93e:68086**
Silva, Manuel (*with* Colom, J. M.; Campos, Javier) Linear algebraic techniques for the analysis of Petri nets. (English summary) **93h:68108**
— (*with* Murata, Tadao) B-fairness and structural B-fairness in Petri net models of concurrent systems. **93m:68130**
— *see also* **Esparza, Javier**, **93h:68105**
Simone, C. (*with* Ajmone Marsan, M.) The application of EB-equivalence rules to the structural reduction of GSPN models.
Smith, Einar On net systems generated by process foldings. **93e:68091**
Thiagarajan, P. S. *see* **Nielsen, Mogens; et al.**, **93g:68102** *and* **93g:68103**
Ţiplea, Ferucio Laurenţiu On place restricted Petri nets. **93b:68065**
Walrand, Jean *see* **Baccelli, François; et al.**, **93f:68070**
Xie, Xiao-Lan *see* **Laftit, Saïd; et al.**, **93d:68054**
Zech, Wiesław Homomorphisms of ordinary Petri P/T nets. (Polish. English summary) **93a:68112**
Zerhouni, N. (*with* Alla, H.) Sur l'analyse des lignes de fabrication par réseaux de Petri continus. (English and French summaries) [Manufacturing-lines analysis using continuous Petri nets]
Zhang, Lan (*with* Li, Ren Hou) A reachability analysis algorithm for generalized stochastic Petri nets. (Chinese. English summary) **93a:68113**
Zhou, Meng Chu *see* **Guo, Dian Long; et al.**, **93m:68127**

Items with secondary classifications in 68Q90

Best, Eike (*with* Koutny, Maciej) Petri net semantics of priority systems. **93e:68019**
Bochmann, Gregor V. *see* **Luo, Gang; et al.**, **93h:68088**
Campbell, Bruce W. *see* **Franceschetti, Donald R.; et al.**
Čapkovič, František A representation of rule-based types of reasoning by means of an abstract dynamic system development. (Polish summary) **93e:68125**
Chang, Chin Fu *see* **Chen, Shyi Ming; et al.**, **93h:68128**
Chen, Shyi Ming (*with* Ke, Jyh Sheng; Chang, Chin Fu) Fuzzy reasoning based on fuzzy Petri nets. **93h:68128**
Das, Anindya *see* **Luo, Gang; et al.**, **93h:68088**
Esparza, Javier (*with* Silva, Manuel) Compositional synthesis of live and bounded free choice Petri nets. **93a:68037**
Franceschetti, Donald R. (*with* Jones, D. Wayne; Campbell, Bruce W.; Hanneken, John W.) Hamming sets, Ising sets, cellular automata, neural nets, and the random walk. (English summary)
Hanneken, John W. *see* **Franceschetti, Donald R.; et al.**
Huang, Zhi Tong *see* **Wang, Jia Cun**
Ichikawa, Atsunobu Petri net representation and control of discrete event systems. (English summary) (*see* **93f:93007**)
Jones, D. Wayne *see* **Franceschetti, Donald R.; et al.**
Josko, Bernhard A context dependent equivalence relation between Kripke structures. **93a:68039**
Ke, Jyh Sheng *see* **Chen, Shyi Ming; et al.**, **93h:68128**
Koutny, Maciej *see* **Best, Eike**, **93e:68019**
Latteux, Michel Some results on semi-commutations. **93g:68064**
Luo, Gang (*with* Bochmann, Gregor V.; Das, Anindya; Wu, Cheng) Failure-equivalent transformation of transition systems to avoid internal actions. (English summary) **93h:68088**
Martí-Oliet, Narciso (*with* Meseguer, José) From Petri nets to linear logic through categories: a survey. **93e:68063**
Meseguer, José *see* **Martí-Oliet, Narciso**, **93e:68063**
Peng, Wuxu (*with* Purushothaman, S.) Analysis of a class of communicating finite state machines. (English summary) **93h:68009**
Pivnitskaya, K. K. A characterization of a class of enumerable languages. (Russian) **93e:68056**
Purushothaman, S. *see* **Peng, Wuxu**, **93h:68009**
Silva, Manuel *see* **Esparza, Javier**, **93a:68037**
Thanh, Hoang Chi Behavioural synchronizations of net systems. (English summary) **93m:68106**
Varaiya, Pravin Process models for discrete event systems. **93a:93073**
Wang, Jia Cun (*with* Huang, Zhi Tong) A new method for the time delay analysis of systems modeled by stochastic Petri nets. (Chinese. English and Chinese summaries)
Wu, Cheng *see* **Luo, Gang; et al.**, **93h:68088**

68Q99 None of the above, but in this section

Emde, Anna-Maria (*with* Schinzel, Britta) Aggregating inductive expertise on partial recursive functions. **93d:68055**
Schinzel, Britta *see* **Emde, Anna-Maria**, **93d:68055**
Sergeraert, Francis Functional coding and effective homology. **93e:68092**

Items with secondary classifications in 68Q99

Anisov, A. M. ★ Время и компьютер. (Russian) [Time and the computer] **93k:00008**
Dhagat, Aditi (*with* Gács, Péter; Winkler, Peter M.) On playing "twenty questions" with a liar. **93f:68022**
Gács, Péter *see* **Dhagat, Aditi; et al.**, **93f:68022**
Skordev, Dimit′r G. On the reduction of polyadic recursive programs to monadic ones. (English and Russian summaries) **93i:03064**
Winkler, Peter M. *see* **Dhagat, Aditi; et al.**, **93f:68022**

68Rxx Discrete mathematics in relation to computer science

68R05 Combinatorics

Asano, Tetsuo (*with* Bhattacharya, Binay; Keil, J. Mark; Yao, Foong Frances) Clustering algorithms based on minimum and maximum spanning trees. (English summary) (*see* **93k:68003**)
Bhattacharya, Binay *see* **Asano, Tetsuo; et al.**, (**93k:68003**)
Bousquet-Mélou, Mireille Une bijection entre les polyominos convexes dirigés et les mots de Dyck bilatères. (English summary) [A bijection between convex directed polyominoes and bilateral Dyck words] **93d:68056**
Eliahou, Shalom (*with* Kervaire, Michel; Saffari, Bahman) On Golay polynomial pairs. **93b:68066**
Garg, Vijay Kumar Some optimal algorithms for decomposed partially ordered sets. (English summary) **93h:68109**
Keil, J. Mark *see* **Asano, Tetsuo; et al.**, (**93k:68003**)
Kervaire, Michel *see* **Eliahou, Shalom; et al.**, **93b:68066**
Monma, Clyde L. (*with* Paterson, Michael S.; Suri, Subhash; Yao, Foong Frances) Computing Euclidean maximum spanning trees. (English summary) (*see* **93k:68003**)
Paterson, Michael S. *see* **Monma, Clyde L.; et al.**, (**93k:68003**)
Ruskey, Frank (*with* Savage, Carla; Wang, Terry Min Yih) Generating necklaces. (English summary) **93j:68151**
Saffari, Bahman *see* **Eliahou, Shalom; et al.**, **93b:68066**
Savage, Carla *see* **Ruskey, Frank; et al.**, **93j:68151**
Sharary, Ahmad (*with* Zaguia, Nejib) On a setup optimization problem for interval orders. (English summary) **93h:68110**
Shasha, Dennis *see* **Zhang, Kaizhong; et al.**, **93e:68094**
Sprugnoli, Renzo The generation of binary trees as a numerical problem. **93d:68057**
Statman, Rick *see* **Zhang, Kaizhong; et al.**, **93e:68094**
Suri, Subhash *see* **Monma, Clyde L.; et al.**, (**93k:68003**)
Tsay, Jong Chuang (*with* Yuan, Shyan Ming) Some combinatorial aspects of parallel algorithm design for matrix multiplication. **93e:68093**
Wang, Terry Min Yih *see* **Ruskey, Frank; et al.**, **93j:68151**
Yao, Foong Frances *see* **Monma, Clyde L.; et al.**, (**93k:68003**) *and* **Asano, Tetsuo; et al.**, (**93k:68003**)
Yuan, Shyan Ming *see* **Tsay, Jong Chuang**, **93e:68093**
Zaguia, Nejib *see* **Sharary, Ahmad**, **93h:68110**
Zhang, Kaizhong (*with* Statman, Rick; Shasha, Dennis) On the editing distance between unordered labeled trees. **93e:68094**

Items with secondary classifications in 68R05

Berque, David (*with* Cecchini, Ronald; Goldberg, Mark; Rivenburgh, Reid) The SetPlayer system for symbolic computation on power sets. (English summary) **93m:68090**
Camerini, P. M. (*with* Galbiati, G.; Maffioli, F.) Random pseudo-polynomial algorithms for exact matroid problems. **93c:68034**
Cameron, Helen (*with* Wood, Derick) A note on the path length of red-black trees. **93d:05066**
Cecchini, Ronald *see* **Berque, David; et al.**, **93m:68090**
Chazelle, Bernard (*with* Edelsbrunner, Herbert; Guibas, Leonidas J.; et al.) Counting and cutting cycles of lines and rods in space. **93m:68164**
Delest, M.-P. (*with* Fedou, J. M.) Attribute grammars are useful for combinatorics. **93e:68059**
Diekert, Volker Some mathematical aspects of trace theory. (English summary) **93f:68035**
Edelsbrunner, Herbert *see* **Chazelle, Bernard; et al.**, **93m:68164**

Ehrenfeucht, Andrzej (*with* Rozenberg, Grzegorz) Grammatical codes of trees. **93b:68044**
Eliahou, Shalom (*with* Kervaire, Michel) Barker sequences and difference sets. **93i:11018**
Fedou, J. M. *see* **Delest, M.-P., 93e:68059**
Filimonov, P. E. On the ordering in $\mathbf{R}^n$ of a set of permutations. (Russian. Russian summary) **93j:05003**
Fujishige, Satoru (*with* Zhang, Xiaodong) New algorithms for the intersection problem of submodular systems. (English summary) **93m:90032**
Fukuda, Komei (*with* Matsui, Tomomi) Finding all minimum-cost perfect matchings in bipartite graphs. **93c:05104**
Galbiati, G. *see* **Camerini, P. M.; et al., 93c:68034**
Gardy, Danièle Méthode de col et lois limites en analyse combinatoire. [The saddle method and limit laws in combinatorial analysis] **93f:60012**
Ghosh, Ratan K. *see* **Rajan, Vijayan; et al., (93b:68006)**
Goldberg, Mark *see* **Berque, David; et al., 93m:68090**
Guibas, Leonidas J. *see* **Chazelle, Bernard; et al., 93m:68164**
Gupta, Phalguni *see* **Rajan, Vijayan; et al., (93b:68006)**
Hromkovič, Juraj (*with* Monien, Burkhard) The bisection problem for graphs of degree 4 (configuring transputer systems). (English summary) **93k:68030**
— (*with* Lozhkin, S. A.; Rybko, A. I.; Sapozhenko, A. A.; Shkalikova, N. A.) Lower bounds on the area complexity of Boolean circuits. **93g:68042**
Huntbach, Matthew Parallel branch-and-bound search in Parlog. (English summary)
Kervaire, Michel *see* **Eliahou, Shalom, 93i:11018**
Knuth, Donald E. Textbook examples of recursion. **93a:68093**
Leighton, Frank Thomson (*with* Newman, Mark J.; Ranade, Abhiram G.; Schwabe, Eric J.) Dynamic tree embeddings in butterflies and hypercubes. **93f:68043**
Li, Chung-Lun (*with* McCormick, S. Thomas; Simchi-Levi, David) The point-to-point delivery and connection problems: complexity and algorithms. **93c:90031**
Lozhkin, S. A. *see* **Hromkovič, Juraj; et al., 93g:68042**
Maffioli, F. *see* **Camerini, P. M.; et al., 93c:68034**
Matsui, Tomomi *see* **Fukuda, Komei, 93c:05104**
McCormick, S. Thomas *see* **Li, Chung-Lun; et al., 93c:90031**
Monien, Burkhard *see* **Hromkovič, Juraj, 93k:68030**
Newman, Mark J. *see* **Leighton, Frank Thomson; et al., 93f:68043**
Perrin, Dominique On positive matrices. **93f:15018**
Pirillo, Giuseppe Sur les produits directs de semi-groupes répétitifs. (English summary) [On direct products of repetitive semigroups] **93c:20108**
Plambeck, Thane E. Daisies, Kayles, and the Sibert-Conway decomposition in misère octal games. **93c:90108**
Pudlák, Pavel (*with* Rödl, Vojtěch) A combinatorial approach to complexity. (English summary) **93m:68054**
Rajan, Vijayan (*with* Gupta, Phalguni; Ghosh, Ratan K.) Parallel generation of combinations and permutations. (English summary) (*see* **93b:68006**)
Ranade, Abhiram G. *see* **Leighton, Frank Thomson; et al., 93f:68043**
Rivenburgh, Reid *see* **Berque, David; et al., 93m:68090**
Rödl, Vojtěch *see* **Pudlák, Pavel, 93m:68054**
Roelants van Baronaigien, D. (*with* Ruskey, Frank) Generating permutations with given ups and downs. **93b:05005**
Rosenkrantz, Daniel J. *see* **Yu, Lin, 93i:68057**
Rozenberg, Grzegorz *see* **Ehrenfeucht, Andrzej, 93b:68044**
Ruskey, Frank *see* **Roelants van Baronaigien, D., 93b:05005**
Rybko, A. I. *see* **Hromkovič, Juraj; et al., 93g:68042**
Salomaa, Arto A deterministic algorithm for modular knapsack problems. **93a:68050**
Sapozhenko, A. A. *see* **Hromkovič, Juraj; et al., 93g:68042**
Schwabe, Eric J. *see* **Leighton, Frank Thomson; et al., 93f:68043**
Shkalikova, N. A. *see* **Hromkovič, Juraj; et al., 93g:68042**
Simchi-Levi, David *see* **Li, Chung-Lun; et al., 93c:90031**
Sinclair, Alistair ★ Algorithms for random generation and counting. (English. English summary) **93j:65011**
Sundar, Rajamani On the deque conjecture for the splay algorithm. **93m:68041**
Vertigan, D. L. (*with* Welsh, D. J. A.) The computational complexity of the Tutte plane: the bipartite case. (English summary) **93k:05041**
van Vliet, André An improved lower bound for on-line bin packing algorithms. (English summary) **93j:68077**
Welsh, D. J. A. *see* **Vertigan, D. L., 93k:05041**
Wen, Zhi Xiong (*with* Wen, Zhi Ying) Some studies on the (p, q)-type sequences. **93g:11022**
Wen, Zhi Ying *see* **Wen, Zhi Xiong, 93g:11022**
Wood, Derick *see* **Cameron, Helen, 93d:05066**
Yen, Hsu Chun A multiparameter analysis of domino tiling with an application to concurrent systems. **93f:68047**
Yu, Lin (*with* Rosenkrantz, Daniel J.) Representability of design objects by ancestor-controlled hierarchical specifications. (English summary) **93i:68057**
Zhang, Xiaodong *see* **Fujishige, Satoru, 93m:90032**

68R10 Graph theory [see also 05Cxx, 90B10, 90B35, 90C35]

Aldous, David J. Greedy search on the binary tree with random edge-weights. (English summary) **93k:68078**
Arvind, K. (*with* Pandu Rangan, C.) Connected domination and Steiner set on weighted permutation graphs. **93b:68067**
Awerbuch, Baruch (*with* Peleg, David) Routing with polynomial communication-space trade-off. **93e:68095**
Balas, Egon (*with* Xue, Jue) Addendum: "Minimum weighted coloring of triangulated graphs, with application to maximum weight vertex packing and clique finding in arbitrary graphs" [SIAM J. Comput. **20** (1991), no. 2, 209–221; MR 92h:68069]. **93g:68104**
Bein, Wolfgang W. (*with* Kamburowski, Jerzy; Stallmann, Matthias F. M.) Optimal reduction of two-terminal directed acyclic graphs. (English summary) **93j:68152**
Bitar, Javier (*with* Goles Ch., Eric) Parallel chip firing games on graphs. **93b:68068**
Board, Raymond The online graph bandwidth problem. (English summary) **93m:68131**
Boppana, Ravi (*with* Halldórsson, Magnús M.) Approximating maximum independent sets by excluding subgraphs. **93g:68105**
Boxer, Laurence Finding congruent regions in parallel. (English summary)
Bui, Thang Nguyen (*with* Jones, Curt) Finding good approximate vertex and edge partitions is NP-hard. **93h:68111**
Chang, Maw Shang (*with* Wang, Fu Hsing) Efficient algorithms for the maximum weight clique and maximum weight independent set problems on permutation graphs. (English summary)
— *see also* **Peng, Shen Lung, 93g:68108**
Chee, Yeow Meng (*with* Lim, Andrew) The algorithmic complexity of colour switching. (English summary) **93g:68106**
Ch'ên, Chien Hui *see* **Yu, Chang Wu, 93g:68110** *and* **Hung, Yung Chen**
Ch'ên, Yen Liang An algorithm for finding the k quickest paths in a network. (English summary) **93h:68112**
Chen, Zhi Zhong² A simple parallel algorithm for computing the diameters of all vertices in a tree and its application. (English summary) **93e:68096**
Cheng, Siu Wing *see* **Janardan, Ravi, 93a:68118**
Chern, Maw Sheng *see* **Lin, Kao Chêng, 93m:68136**
Chrobak, Marek (*with* Eppstein, David) Planar orientations with low out-degree and compaction of adjacency matrices. **93a:68114**
Ciurea, E. Un algorithme et un programme pour plus court chemins entre toutes paires de sommets. (Romanian summary) [An algorithm and a program for shortest paths between all pairs of vertices]
Clark, L. H. (*with* Shahrokhi, Farhad; Székely, László A.) A linear time algorithm for graph partition problems. **93b:68069**
Cohen, Gérard Denis *see* **Zémor, Gilles, 93h:68115**
Dahlhaus, Elias (*with* Karpiński, Marek; Kelsen, Pierre) An efficient parallel algorithm for computing a maximal independent set in a hypergraph of dimension 3. (English summary) **93e:68097**
Day, Khaled (*with* Tripathi, Anand) Arrangement graphs: a class of generalized star graphs. (English summary) **93e:68098**
Deng, Haiyong *see* **Sen, Arunabha; et al.**
Dixon, Brandon (*with* Rauch, Monika; Tarjan, Robert Endre) Verification and sensitivity analysis of minimum spanning trees in linear time. (English summary) **93j:68153**
Edelsbrunner, Herbert (*with* Guibas, Leonidas J.; Sharir, Micha) The complexity of many faces in arrangements of lines and of segments. (English summary) (*see* **93k:68003**)
Eppstein, David Approximating the minimum weight triangulation. **93e:68099**
— *see also* **Chrobak, Marek, 93a:68114**
Feder, Tomás A new fixed point approach for stable networks and stable marriages. (English summary) **93j:68154**
Fiat, Amos (*with* Foster, Dean P.; Karloff, Howard; Rabani, Yuval; Ravid, Yiftach; Vishwanathan, Sundar) Competitive algorithms for layered graph traversal. (English summary) **93e:68100**
Foster, Dean P. *see* **Fiat, Amos; et al., 93e:68100**
Galil, Zvi (*with* Italiano, Giuseppe F.) Fully dynamic algorithms for 2-edge connectivity. (English summary) **93i:68142**
Ghosh, Ratan K. Parallel search algorithms for graphs and trees. (English summary) **93j:68155**
Ghosh, Subir Kumar (*with* Maheshwari, Anil) An optimal parallel algorithm for computing furthest neighbors in a tree. (English summary) **93j:68156**
Goldmann, Mikael (*with* Håstad, Johan) A simple lower bound for monotone clique using a communication game. **93a:68115**
Goles Ch., Eric *see* **Bitar, Javier, 93b:68068**
Golovach, P. A. Minimal trees with a given search number. (Russian. English and Ukrainian summaries)
Grossi, Roberto Further comments on the subtree isomorphism for ordered trees: "On the subtree isomorphism problem for ordered trees" [Inform. Process. Lett. **32** (1989), no. 5, 271–273; MR 90k:68139] by E. Mäkinen. **93c:68077**
— A note on the subtree isomorphism for ordered trees and related problems. **93e:68101**
— On finding common subtrees. (English summary) **93m:68132**
Gu, Shou Huai An algorithm for the Chinese postman problem. (Chinese. English summary)
Guha, Sumanta *see* **Sen, Arunabha; et al.**
Guibas, Leonidas J. *see* **Edelsbrunner, Herbert; et al., (93k:68003)**
Habel, Annegret (*with* Kreowski, Hans-Jörg; Vogler, Walter) Decidable boundedness problems for sets of graphs generated by hyperedge-replacement. **93a:68116**
Haddad, Lucien (*with* Rödl, Vojtěch) On the complexity of coloring areflexive relations. (English summary) **93h:68113**
Halldórsson, Magnús M. (*with* Szegedy, Mário) Lower bounds for on-line graph coloring. (*see* **93b:68005**)
— *see also* **Boppana, Ravi, 93g:68105**
Håstad, Johan *see* **Goldmann, Mikael, 93a:68115**
Heath, Lenwood S. (*with* Rosenberg, Arnold L.) Laying out graphs using queues. (English summary) **93j:68157**
— (*with* Pemmaraju, Sriram V.; Trenk, Ann) Stack and queue layouts of directed acyclic graphs. (English summary) (*see* **93m:05005**)
Hell, Pavol (*with* Kirkpatrick, David G.) Algorithms for degree constrained graph factors of minimum deficiency. (English summary) **93m:68133**
Hsieh, Hsien Fen *see* **Hsu, Su Chu; et al., 93b:68070**
Hsū, Li Hsing (*with* Wang, Peng Fei; Wu, Chu Tao) Parallel algorithms for finding the most vital edge with respect to minimum spanning tree. (English summary) **93j:68158**
Hsu, Su Chu (*with* Hsieh, Hsien Fen; Huang, Shing Tsaan) A fully-pipelined systolic algorithm for finding bridges on an undirected connected graph. **93b:68070**
Hsu, Wen-Lian (*with* Tsai, Kuo-Hui) Linear time algorithms on circular-arc graphs. **93a:68117**
Huang, Shing Tsaan *see* **Hsu, Su Chu; et al., 93b:68070**
Hung, Yung Chen (*with* Ch'ên, Chien Hui) Distributed algorithms for the quickest path problem. (English summary)
Italiano, Giuseppe F. *see* **Galil, Zvi, 93i:68142**
Jamison, Beverly (*with* Olariu, Stephan) Recognizing P_4-sparse graphs in linear time.

93c:68078

Janardan, Ravi (*with* Cheng, Siu Wing) Efficient distributed algorithms for single-source shortest paths and related problems on plane networks. **93a:68118**

Jones, Curt *see* **Bui, Thang Nguyen, 93h:68111**

Kamburowski, Jerzy *see* **Bein, Wolfgang W.; et al., 93j:68152**

Kannan, Sampath K. (*with* Naor, Moni; Rudich, Steven) Implicit representation of graphs. (English summary) **93g:68107**

Kapoor, Sanjiv (*with* Ramesh, H.) Algorithms for generating all spanning trees of undirected, directed and weighted graphs. (English summary) (*see* **93b:68006**)

Karger, David R. Global min-cuts in RNC, and other ramifications of a simple min-cut algorithm. (English summary) **93m:68134**

Karloff, Howard *see* **Fiat, Amos; et al., 93e:68100**

Karp, Richard M. Three-stage generalized connectors. **93e:68102**

Karpiński, Marek *see* **Dahlhaus, Elias; et al., 93e:68097**

Kashiwabara, Toshinobu *see* **Kotani, Ken; et al., 93i:68143**

Kaufmann, Michael (*with* Maley, F. Miller) Parity conditions in homotopic knock-knee routing. (English summary) **93j:68159**

Kelsen, Pierre *see* **Dahlhaus, Elias; et al., 93e:68097**

Kirkpatrick, David G. *see* **Hell, Pavol, 93m:68133**

Klawe, Maria M. (*with* Mumey, Brendan) Upper and lower bounds on constructing alphabetic binary trees. (English summary) **93m:68135**

Korsh, James F. Counting and randomly generating binary trees.

Kotani, Ken (*with* Masuda, Sumio; Kashiwabara, Toshinobu) An algorithm for embedding a biconnected planar graph to maximize the total sum of vertex- and edge-weights on the exterior window. (English summary) **93i:68143**

Kovalenko, N. S. (*with* Ovseets, M. I.; Yaznevich, M. I.) Vector algorithms for finding distances in graphs and their realization on a vector-pipeline computer. (Russian. English summary)

Kreowski, Hans-Jörg *see* **Habel, Annegret; et al., 93a:68116**

Kumar, P. Sreenivasa *see* **Veeraraghavulu, N. Ch.; et al.**

Kundu, Sukhamay A new variant of the A^*-algorithm which closes a node at most once. **93a:68119**

Levin, A. G. (*with* Rabinovich, E. B.) Approximate algorithms for planarization of hypergraphs. (Russian. English and Russian summaries) **93h:68114**

Li, Chung-Lun (*with* McCormick, S. Thomas; Simchi-Levi, David) On the minimum-cardinality-bounded-diameter and the bounded-cardinality-minimum-diameter edge addition problems. (English summary) **93i:68144**

Lim, Andrew *see* **Chee, Yeow Meng, 93g:68106**

Lin, Kao Chêng (*with* Chern, Maw Sheng) The most vital edges in the minimum spanning tree problem. (English summary) **93m:68136**

Machado, Arlene Fortunato (*with* Perin, Clovis) A generalization of the selection problem in digraphs. (English summary) **93m:68137**

Maheshwari, Anil *see* **Ghosh, Subir Kumar, 93j:68156**

(Mäkinen, Erkki) *see* **Grossi, Roberto, 93c:68077**

Maley, F. Miller *see* **Kaufmann, Michael, 93j:68159**

Manacher, Glenn K. (*with* Mankus, Terrance A.) Incorporating negative-weight vertices in certain vertex-search graph algorithms.

Mankus, Terrance A. *see* **Manacher, Glenn K.**

Masuda, Sumio *see* **Kotani, Ken; et al., 93i:68143**

Masuyama, Shigeru (*with* Naito, Shozo) Deciding whether graph G has page number one is in NC. (English summary)

McCormick, S. Thomas *see* **Li, Chung-Lun; et al., 93i:68144**

Mumey, Brendan *see* **Klawe, Maria M., 93m:68135**

Nabebin, A. A. ★ Алгоритмы на графах и их ПРОЛОГ-программы. (Russian. Russian summary) [Algorithms on graphs and their PROLOG programs] **93f:68072**

Nagumo, Masahiko *see* **Nishitani, Yasuaki; et al., 93a:68120**

Naito, Shozo *see* **Masuyama, Shigeru**

Naor, Moni *see* **Kannan, Sampath K.; et al., 93g:68107**

Nishitani, Yasuaki (*with* Shimizu, Kensuke; Nagumo, Masahiko) Graph representation of logic functions to design two-level MOS networks. **93a:68120**

Olariu, Stephan *see* **Jamison, Beverly, 93c:68078**

Ovseets, M. I. *see* **Kovalenko, N. S.; et al.**

Pandu Rangan, C. *see* **Arvind, K., 93b:68067** *and* **Srinivasan, Aravind, 93b:68071**

Pantziou, Grammati E. (*with* Spirakis, Paul G.; Zaroliagis, Christos D.) Efficient parallel algorithms for shortest path in planar digraphs. **93f:68073**

Papadimitriou, Christos H. (*with* Yannakakis, Mihalis) Shortest paths without a map. **93c:68079**

Paschos, V. Th. A $(\Delta/2)$-approximation algorithm for the maximum independent set problem. (English summary)

Peleg, David *see* **Awerbuch, Baruch, 93e:68095**

Pemmaraju, Sriram V. *see* **Heath, Lenwood S.; et al., (93m:05005)**

Peng, Shen Lung (*with* Chang, Maw Shang) A simple linear time algorithm for the domatic partition problem on strongly chordal graphs. (English summary) **93g:68108**

Perin, Clovis *see* **Machado, Arlene Fortunato, 93m:68137**

Plesník, Ján Heuristics for the Steiner problem in graphs. (English summary) **93e:68103**

Rabani, Yuval *see* **Fiat, Amos; et al., 93e:68100**

Rabinovich, E. B. *see* **Levin, A. G., 93h:68114**

Ramesh, H. *see* **Kapoor, Sanjiv, (93b:68006)**

Rauch, Monika *see* **Dixon, Brandon; et al., 93j:68153**

Ravid, Yiftach *see* **Fiat, Amos; et al., 93e:68100**

Rödl, Vojtěch *see* **Haddad, Lucien, 93h:68113**

Rosenberg, Arnold L. *see* **Heath, Lenwood S., 93j:68157**

Rudich, Steven *see* **Kannan, Sampath K.; et al., 93g:68107**

Sarrafzadeh, Majid (*with* Wong, Chak Kuen) Bottleneck Steiner trees in the plane. **93c:68080**

Sedukhin, S. G. Design and analysis of systolic algorithms for the algebraic path problem. (English summary) **93g:68109**

Sen, Arunabha (*with* Deng, Haiyong; Guha, Sumanta) On a graph partition problem with application to VLSI layout.

Shahrokhi, Farhad *see* **Clark, L. H.; et al., 93b:68069**

Sharir, Micha *see* **Edelsbrunner, Herbert; et al., (93k:68003)**

Sharkovskaya, E. A. *see* **Voitishin, Yu. V.**

Shimizu, Kensuke *see* **Nishitani, Yasuaki; et al., 93a:68120**

Simchi-Levi, David *see* **Li, Chung-Lun; et al., 93i:68144**

Simon, Klaus ★ Effiziente Algorithmen für perfekte Graphen. (German) [Efficient algorithms for perfect graphs] **93f:68074**

Simonson, Shai (*with* Sudborough, Ivan Hal) On the complexity of tree embedding problems.

Spencer, Joel H. The probabilistic method. **93d:68058**

Spirakis, Paul G. *see* **Pantziou, Grammati E.; et al., 93f:68073**

Srinivasan, Aravind (*with* Pandu Rangan, C.) Efficient algorithms for the minimum weighted dominating clique problem on permutation graphs. **93b:68071**

Stallmann, Matthias F. M. *see* **Bein, Wolfgang W.; et al., 93j:68152**

Sudborough, Ivan Hal *see* **Simonson, Shai**

Szegedy, Márió *see* **Halldórsson, Magnús M., (93b:68005)**

Székely, László A. *see* **Clark, L. H.; et al., 93b:68069**

Tarjan, Robert Endre *see* **Dixon, Brandon; et al., 93j:68153**

Tompa, Martin Lower bounds on universal traversal sequences for cycles and other low degree graphs. (English summary) **93k:68079**

Trenk, Ann *see* **Heath, Lenwood S.; et al., (93m:05005)**

Tripathi, Anand *see* **Day, Khaled, 93e:68098**

Tsai, Kuo-Hui *see* **Hsu, Wen-Lian, 93a:68117**

Veeraraghavulu, N. Ch. (*with* Kumar, P. Sreenivasa; Veni Madhavan, C. E.) A linear-time algorithm for isomorphism of a subclass of chordal graphs.

Veni Madhavan, C. E. *see* **Veeraraghavulu, N. Ch.; et al.**

Vishwanathan, Sundar Randomized online graph coloring. (English summary) **93k:68080**

— *see also* **Fiat, Amos; et al., 93e:68100**

Vogler, Walter *see* **Habel, Annegret; et al., 93a:68116**

Voitishin, Yu. V. (*with* Sharkovskaya, E. A.) An algorithm for solving the problem of the packing of vertices of a graph. (Russian. English and Ukrainian summaries)

Wang, Fu Hsing *see* **Chang, Maw Shang**

Wang, Peng Fei *see* **Hsū, Li Hsing; et al., 93j:68158**

Woeginger, Gerhard J. The complexity of finding arborescences in hypergraphs.

Wong, Chak Kuen *see* **Sarrafzadeh, Majid, 93c:68080**

Wu, Chu Tao *see* **Hsū, Li Hsing; et al., 93j:68158**

Xue, Jue *see* **Balas, Egon, 93g:68104**

Yang, Cheng-Hsing *see* **Yu, Ming Shing, 93i:68145**

Yannakakis, Mihalis *see* **Papadimitriou, Christos H., 93c:68079**

Yaznevich, M. I. *see* **Kovalenko, N. S.; et al.**

Yu, Chang Wu (*with* Ch'ên, Chien Hui) The weighted maximum independent set problem in permutation graphs. (English summary) **93g:68110**

Yu, Ming Shing (*with* Yang, Cheng-Hsing) An optimal parallel algorithm for the domatic partition problem on an interval graph given its sorted model. (English summary) **93i:68145**

Zaroliagis, Christos D. *see* **Pantziou, Grammati E.; et al., 93f:68073**

Zémor, Gilles (*with* Cohen, Gérard Denis) Application of coding theory to interconnection networks. (English summary) **93h:68115**

Items with secondary classifications in 68R10

Acketa, Dragan M. *see* **Novak, Ladislav A.; et al., 93b:05154**

Adamson, P. (*with* Tick, E.) Greedy partitioned algorithms for the shortest-path problem. (English summary)

Adhar, Gur Saran (*with* Peng, Shietung) Parallel algorithms for finding connected, independent and total domination in interval graphs. (*see* **93f:68003**)

Agarwal, Pankaj K. (*with* Matoušek, Jiří) Relative neighborhood graphs in three dimensions. **93d:05140**

Akl, Selim G. *see* **Osiakwan, Constantine N. K., 93a:68052**

Albacea, Eliezer A. A parallel algorithm for edge-coloring of graphs with edge-disjoint cycles. (English summary) **93i:68076**

Aleš, J. (*with* Bačik, R.) Strong elimination ordering of the total graph of a tree. (English summary) **93g:05128**

Allwright, James New (Δ, D) graphs discovered by heuristic search. (English summary) **93i:05119**

Althöfer, Ingo (*with* Das, Gautam; Dobkin, David P.; Joseph, Deborah; Soares, José) On sparse spanners of weighted graphs. (English summary) **93h:05161**

Amin, Ashok T. (*with* Slater, Peter J.) Neighborhood domination with parity restrictions in graphs. (English summary) **93j:05141**

Andersson, Arne Comments on: "On the balance property of Patricia tries: external path length viewpoint" [Theoret. Comput. Sci. **68** (1989), no. 1, 1–17; MR 91a:68036] by P. Kirschenhofer, H. Prodinger and W. Szpankowski. (English summary) **93k:68021**

Andreae, Thomas Some results on visibility graphs. (English summary) **93k:05142**

Anily, S. (*with* Hassin, Refael) The swapping problem. **93c:05057**

Apostolico, Alberto (*with* Atallah, Mikhail J.; Hambrusch, Susanne E.) New clique and independent set algorithms for circle graphs. **93b:05151**

Arumugam, G. *see* **Samy, A. Antony; et al., (93b:68006)**

Arvind, V. (*with* Biswas, Somenath) Edge-deletion graph problems with first-order expressible subgraph properties. **93e:68030**

Atallah, Mikhail J. *see* **Apostolico, Alberto; et al., 93b:05151**

Aurenhammer, Franz (*with* Hagauer, Johann) Computing equivalence classes among the edges of a graph with applications. (English summary) **93k:05167**

Bačik, R. *see* **Aleš, J., 93g:05128**

Bagga, Kunwarjit S. (*with* Owens, Frank W.) Some graph-theoretic properties of deadlocks and traps in Petri nets. **93d:68053**

Balas, Egon (*with* Fischetti, Matteo) The fixed-outdegree 1-arborescence polytope. (English summary) **93m:90088**

Banerjee, Subhankar (*with* Harary, Frank) The minimum detour number of a connected graph. (English and Malayan summaries) **93h:05105**

Bang-Jensen, Jørgen (*with* Hell, Pavol; MacGillivray, Gary) On the complexity of colouring by superdigraphs of bipartite graphs. (English summary) **93m:68051**

— (*with* Manoussakis, Yannis; Thomassen, Carsten) A polynomial algorithm for Hamiltonian-connectedness in semicomplete digraphs. **93d:05141**

— (*with* Thomassen, Carsten) A polynomial algorithm for the 2-path problem for semicomplete digraphs. **93i:05120**

Bangov, Ivan P. Computer-assisted structure generation from a gross formula. IV. Fighting against graph-isomorphism disease. (English summary)

Bautz, M. *see* **Biess, G., 93m:05076**

Becker, U. (*with* Hotz, Günter) Folding-free coverings and graph embeddings. (English summary) **93g:54019**

Beichelt, Frank (*with* Tittmann, Peter) A splitting formula for the K-terminal reliability of stochastic networks. **93d:94032**

Benavent López, Enrique (*with* Campos, V.; Corberán, Á.; Mota, E.) The capacitated arc routing problem: lower bounds. (English summary) **93h:90032**

Berger, Toby (*with* Hekstra, A.; Orlitsky, Alon) Asymptotic component densities in programmable gate arrays realizing all circuits of a given size. (English summary) **93j:68082**

Berman, Piotr (*with* Ramaiyer, Viswanathan) Improved approximations for the Steiner tree problem. (*see* **93b:68005**)

Beth, Thomas (*with* Hatz, Volker) Design machines: algebraically well described interconnection networks. (English summary) **93f:68029**

Bettayeb, Said *see* **Shen, Xiao Jun; et al., 93k:05054**

Bhattacharya, Prabir *see* **Suraweera, Francis**

Biess, G. (*with* Bautz, M.) A heuristical polynomial algorithm for orbits of nondirected, connected finite digraphs with at least two vertices. (English summary) **93m:05076**

Birk, Yitzhak (*with* Lotspiech, Jeffrey B.) On finding nonintersecting straightline connections of grid points to the boundary. (English summary) **93h:68141**

Bíró, M. (*with* Hujter, M.; Tuza, Zsolt) Precoloring extension. I. Interval graphs. **93d:05049**

Biswas, Somenath *see* **Arvind, V., 93e:68030**

de Boer, Martin J. M. (*with* Lindenmayer, Aristid; Tuza, Zsolt) A periodic division pattern that cannot be generated by DOL systems. **93a:68068**

Bonizzoni, P. (*with* Mauri, Giancarlo; Pighizzini, G.; Sabadini, N.) Recognizing sets of labelled acyclic graphs. (English summary) **93h:68042**

Borie, Richard B. (*with* Parker, R. Gary; Tovey, Craig A.) Algorithms for recognition of regular properties and decomposition of recursive graph families. **93e:05090**

— (*with* Parker, R. Gary; Tovey, Craig A.) Automatic generation of linear-time algorithms from predicate calculus descriptions of problems on recursively constructed graph families. **93d:03017**

Borodin, Allan (*with* Ruzzo, Walter L.; Tompa, Martin) Lower bounds on the length of universal traversal sequences. (English summary) **93j:68068**

Bouajjani, A. (*with* Fernandez, J.-C.; Halbwachs, N.; Raymond, P.; Ratel, C.) Minimal state graph generation. **93a:68091**

Brigham, Robert C. *see* **Carrington, Julie R., 93j:05110**

Cai, Yang (*with* Kong, M. C.) Generating all maximal cliques and related problems for certain perfect graphs. (English summary) **93j:05142**

Calkin, Neil J. (*with* Frieze, A. M.; Kučera, L.) On the expected performance of a parallel algorithm for finding maximal independent subsets of a random graph. **93d:68027**

Campbell, S. R. (*with* Ellingham, M. N.; Royle, Gordon F.) A characterisation of well-covered cubic graphs. (English summary) **93m:05160**

Campos, V. *see* **Benavent López, Enrique; et al., 93h:90032**

Carrington, Julie R. (*with* Brigham, Robert C.) Global domination of simple factors. (English summary) **93j:05110**

Cederbaum, Israel (*with* Koren, Israel; Wimer, Shmuel) Balanced block spacing for VLSI layout. (English summary) **93m:68088**

Chakrabarti, P. P. (*with* Ghose, S.) A general best first search algorithm in AND/OR graphs. **93i:68084**

Chan, Mee Yee Embedding of grids into optimal hypercubes. **93c:68003**

Chang, Chên Hua *see* **Li, Hsün Ming, 93i:90043**

Chang, Jui Hsiung Single step graph search problem. **93a:68054**

— *see also* **Hsiao, Ju Yuan; et al., 93g:05130**

Chang, Ruei Chuan *see* **Hsu, F. R.; et al., 93g:68137**

Chang, Shoe Jane *see* **Yu, Ming Shing; et al., 93m:05191**

Chartrand, Gary (*with* Oellermann, Ortrud R.) ★ Applied and algorithmic graph theory. (English. English summary)

Chen, Lin[2] (*with* Yesha, Yaacov) Efficient parallel algorithms for bipartite permutation graphs. (English summary) **93j:05143**

Cheriyan, Joseph (*with* Reif, John H.) Directed s-t numberings, rubber bands, and testing digraph k-vertex connectivity. **93h:05149**

Chern, T. C. *see* **Shih, Wei Kuan; et al., 93h:05158**

Choi, Hyeong-Ah (*with* Esfahanian, Abdol-Hossein) A message-routing strategy for multicomputer systems. (English summary)

Chu, Jeff Optimal algorithm for the nearest common dominator problem. (English summary) **93h:05150**

Collins, Oliver (*with* Dolinar, Sam; McEliece, Robert J.; Pollara, Fabrizio) A VLSI decomposition of the de Bruijn graph. (English summary) **93g:05132**

Cong, Bin *see* **Shen, Xiao Jun; et al., 93k:05054**

Corberán, Á. *see* **Benavent López, Enrique; et al., 93h:90032**

Cowen, R. H. Hypergraph satisfiability. (English summary) **93k:03011**

Cozzens, Margaret B. (*with* Roberts, Fred S.) Greedy algorithms for T-colorings of complete graphs and the meaningfulness of conclusions about them. (English summary) **93i:05059**

Csima, J. (*with* Lovász, László) A matching algorithm for regular bipartite graphs. **93a:05100**

Cvetković, Dragoš (*with* Milosavljević, Milan; Dimitrijević, Vladimir) An algorithm for M asymmetric travelling salesman problem on a bandwidth-limited graph. **93b:90071**

Dahlhaus, Elias (*with* Karpiński, Marek) Perfect matching for regular graphs is AC^0-hard for the general matching problem. **93g:05113**

Das, Gautam *see* **Althöfer, Ingo; et al., 93h:05161**

Das, Sajal K. Designing recursive networks combinatorially. **93c:68004**

— (*with* Deo, Narsingh; Prasad, Sushil) Reverse binary digraphs and graphs. (English summary) **93d:05057**

De Agostino, Sergio (*with* Petreschi, Rossella) On PV_{chunk} operations and matrogenic graphs. **93f:68031**

Dehne, Frank (*with* Miller, Russ; Rau-Chaplin, Andrew) Optical clustering on a mesh-connected computer. (English summary) **93g:68135**

Dekel, Eliezer (*with* Hu, Jie; Ouyang, Wen) An optimal algorithm for finding compact sets. (English summary) **93h:05151**

Deo, Narsingh *see* **Das, Sajal K.; et al., 93d:05057**

Deogun, Jitender S. (*with* Steiner, George) Hamiltonian cycle is polynomial on cocomparability graphs. (English summary) **93f:05058**

De Prisco, Roberto (*with* De Santis, Alfredo) On binary search trees. (English summary) **93k:68023**

De Santis, Alfredo *see* **De Prisco, Roberto, 93k:68023**

De Simone, Caterina (*with* Sassano, Antonio) Stability number of bull- and chair-free graphs. (English summary) **93j:05144**

Devasahayam, M. Paul *see* **Samy, A. Antony; et al., (93b:68006)**

Di Battista, Giuseppe (*with* Tamassia, Roberto; Tollis, Ioannis G.) Area requirement and symmetry display of planar upward drawings. **93i:05053**

Diks, Krzysztof (*with* Pelc, Andrzej) Almost safe gossiping in bounded degree networks. **93j:05092**

— (*with* Djidjev, Hristo N.; Sýkora, Ondrej; Vrťo, Imrich) Edge separators of planar and outerplanar graphs with applications. (English summary) **93i:05121**

Dimitrijević, Vladimir *see* **Cvetković, Dragoš; et al., 93b:90071**

Ding, Bin A clustering dynamic state method for maximal trees in fuzzy graph theory. (Chinese. English summary) **93i:05126**

Djidjev, Hristo N. *see* **Diks, Krzysztof; et al., 93i:05121**

Dobkin, David P. *see* **Althöfer, Ingo; et al., 93h:05161**

Dolinar, Sam *see* **Collins, Oliver; et al., 93g:05132**

Domke, Gayla S. *see* **Knisely, J.; et al., 93j:05040**

Dömösi, P. (*with* Kovács, B.) Simulation on finite networks of automata. **93e:68076**

Douglas, Robert James NP-completeness and degree restricted spanning trees. (English summary) **93i:68085**

Drewes, Frank NP-completeness of k-connected hyperedge-replacement languages of order k. (English summary) **93k:68058**

Du, Ding Zhu (*with* Hwang, F. K.) An approach for proving lower bounds: solution of Gilbert-Pollak's conjecture on Steiner ratio. **93a:90075**

— (*with* Hsu, D. Frank; Peck, G. W.) Connectivity of consecutive-d digraphs. (English summary) **93g:05089**

Edelsbrunner, Herbert (*with* Guibas, Leonidas J.; Hershberger, John; et al.) Implicitly representing arrangements of lines or segments. (English summary) (*see* **93k:68003**)

Edwards, Keith The complexity of some graph colouring problems. **93d:05051**

Ehrenfeucht, Andrzej (*with* Rozenberg, Grzegorz) Angular 2-structures. **93h:05163**

Ehrig, Hartmut (*with* Taentzer, Gabriele) From parallel graph grammars to parallel high-level replacement systems. (English summary) (*see* **93m:68004**)

Ellingham, M. N. *see* **Campbell, S. R.; et al., 93m:05160**

Eppstein, David (*with* Italiano, Giuseppe F.; Tamassia, Roberto; Tarjan, Robert Endre; Westbrook, Jeffery; Yung, Moti) Maintenance of a minimum spanning forest in a dynamic plane graph. **93a:68027**

Erdős, Paul (*with* Gallai, Tibor; Tuza, Zsolt) Covering the cliques of a graph with vertices. (English summary) **93h:05124**

Eschen, Elaine M. (*with* Spinrad, Jeremy P.) An $O(n^2)$ algorithm for circular-arc graph recognition. **93k:05168**

Esfahanian, Abdol-Hossein *see* **Choi, Hyeong-Ah**

Etzion, Tuvi *see* **Goldfeld, David, 93j:68012**

Evstigneev, V. A. (*with* Kas'yanov, V. N.) ★ Алгоритмы на деревьях. (Russian) [Algorithms on trees] **93i:05122**

Fellows, Michael R. (*with* Kratochvíl, Jan; Middendorf, Matthias; Pfeiffer, Frank) Induced minors and related problems. (English summary) (*see* **93m:05004**)

Fernandez, J.-C. *see* **Bouajjani, A.; et al., 93a:68091**

Fischetti, Matteo *see* **Balas, Egon, 93m:90088**

Foldes, Stephan Conditions for the separability of objects in two-dimensional velocity fields. (English summary) **93m:05079**

Fonlupt, Jean (*with* Mahjoub, A. R.; Uhry, J.-P.) Compositions in the bipartite subgraph polytope. (English summary) **93g:05129**

Fouks, Jean-Denis Tseitin's formulas revisited. **93m:68146**

Fournier, Irène (*with* Germa, Anne; Hudry, Olivier) Utilisation des scores dans des méthodes exactes déterminant les ordres médians de tournois. (English and French summaries) [On the use of scores in exact methods computing the median orders of tournaments] **93j:05068**

Frederickson, Greg N. Ambivalent data structures for dynamic 2-edge-connectivity and k smallest spanning trees. (English summary) **93i:68043**

— (*with* Guan, D. J.) Preemptive ensemble motion planning on a tree. (English summary) **93k:68043**

Fricke, Gerd (*with* Laskar, Renu C.) Strong matchings on trees. (English summary) **93k:05127**

Frieze, A. M. *see* **Calkin, Neil J.; et al., 93d:68027**

Gabow, Harold N. (*with* Westermann, Herbert H.) Forests, frames, and games: algorithms for matroid sums and applications. **93f:90133**

— A representation for crossing set families with applications to submodular flow problems. (English summary) **93m:05182**

Gabrani, Naveen (*with* Shankar, Priti) A note on the reconstruction of a binary tree from its traversals.

Galil, Zvi (*with* Italiano, Giuseppe F.) Maintaining the 3-edge-connected components of a graph on-line. (English summary) **93m:68075**

Gallai, Tibor *see* **Erdős, Paul; et al., 93h:05124**

Garg, Naveen (*with* Santosh, Vempala S.; Singla, Aman) Improved approximation algorithms for biconnected subgraphs via better lower bounding techniques. (English summary) **93k:05169**

Gavril, F. *see* **Urrutia, Jorge, 93d:05060**

Gazit, Hillel A deterministic parallel algorithm for planar graphs isomorphism. (English

summary) **93f:05093**

Germa, Anne *see* **Fournier, Irène; et al., 93j:05068**

Ghafoor, Arif Connectivity, persistence and fault diagnosis of interconnection networks based on O_k and $2O_k$ graphs. (English summary) **93g:05091**

Ghose, S. *see* **Chakrabarti, P. P., 93i:68084**

Ghosh, Subrata *see* **Mahanti, Ambuj; et al., (93j:68007)**

Girou, Mike *see* **Shen, Xiao Jun; et al., 93k:05054**

Goldfeld, David (*with* Etzion, Tuvi) UPP graphs and UMFA networks—architecture for parallel systems. (English summary) **93j:68012**

Goldmann, Mikael *see* **Håstad, Johan, 93e:68025**

Greenlaw, Raymond The parallel complexity of approximation algorithms for the maximum acyclic subgraph problem. **93a:68057**

Griggs, Jerrold R. (*with* Yeh, Roger K.) Labelling graphs with a condition at distance 2. (English summary) **93h:05141**

Guan, D. J. *see* **Frederickson, Greg N., 93k:68043**

Guibas, Leonidas J. (*with* Knuth, Donald E.; Sharir, Micha) Randomized incremental construction of Delaunay and Voronoĭ diagrams. **93e:68130**

— *see also* **Edelsbrunner, Herbert; et al., (93k:68003)**

Gupta, Arvind (*with* Impagliazzo, Russell) Computing planar intertwines. (English summary) **93e:05091**

Gutjahr, Walter J. (*with* Pflug, G. Ch.) The asymptotic contour process of a binary tree is a Brownian excursion. **93i:60017**

Habib, Michel (*with* Morvan, M.; Rampon, Jean-Xavier) On the calculation of transitive reduction-closure of orders. (English summary) **93k:68045**

Hagauer, Johann *see* **Aurenhammer, Franz, 93k:05167**

Hagihara, Ken'ichi *see* **Park, Jungho; et al., 93c:68010**

Hajnal, Péter An $\Omega(n^{4/3})$ lower bound on the randomized complexity of graph properties. **93a:05118**

Halbwachs, N. *see* **Bouajjani, A.; et al., 93a:68091**

Halldórsson, Magnús M. A still better performance guarantee for approximate graph coloring. (English summary) **93j:05146**

Hambrusch, Susanne E. *see* **Apostolico, Alberto; et al., 93b:05151**

Hamburger, Peter (*with* Pippert, Raymond E.; Weakley, W. Douglas) On a leverage problem in the hypercube. **93d:05117**

Han, Xiaofeng (*with* Kelsen, Pierre; Ramachandran, Vijaya; Tarjan, Robert Endre) Computing minimal spanning subgraphs in linear time. **93e:05092**

Hansen, Pierre (*with* Hertz, Alain; Kuplinsky, Julio) Bounded vertex colorings of graphs. (English summary) **93j:05057**

Harary, Frank *see* **Banerjee, Subhankar, 93h:05105**

Harel, David Hamiltonian paths in infinite graphs. (English summary) **93d:68023**

Hartvigsen, David (*with* Mardon, Russell) When do short cycles generate the cycle space? (English summary) **93j:05093**

Hassin, Refael *see* **Anily, S., 93c:05057**

Håstad, Johan (*with* Goldmann, Mikael) On the power of small-depth threshold circuits. **93e:68025**

Hatz, Volker *see* **Beth, Thomas, 93f:68029**

Heath, Lenwood S. (*with* Istrail, Sorin) The pagenumber of genus g graphs is $O(g)$. (English summary) **93k:05171**

— (*with* Leighton, Frank Thomson; Rosenberg, Arnold L.) Comparing queues and stacks as mechanisms for laying out graphs. **93d:05150**

Heijmans, Henk J. A. M. (*with* Vincent, Luc) Graph morphology in image analysis. (*see* **93f:68100**)

Hekstra, A. *see* **Berger, Toby; et al., 93j:68082**

Hell, Pavol *see* **Bang-Jensen, Jørgen; et al., 93m:68051**

Hérault, Laurent (*with* Niez, Jean-Jacques) Neural networks & combinatorial optimization: a study of NP-complete graph problems. (English summary) (*see* **93i:68010**)

Hershberger, John *see* **Edelsbrunner, Herbert; et al., (93k:68003)**

Hertz, Alain *see* **Hansen, Pierre; et al., 93j:05057**

Hilbers, Peter A. J. ★ Processor networks and aspects of the mapping problem. **93c:68025**

Hoàng, Chính T. A parallel algorithm for minimum weighted colouring of triangulated graphs. **93m:05183**

Hochstrasser, Bernhard A note on Winkler's algorithm for factoring a connected graph. (English summary) **93m:05152**

Höfting, Franz (*with* Wanke, Egon) Polynomial algorithms for minimum cost paths in periodic graphs. (English summary) **93m:05184**

Hohberg, Walter The decomposition of graphs into k-connected components. (English summary) **93m:05117**

Hopcroft, John E. (*with* Kahn, Peter J.) A paradigm for robust geometric algorithms.

Horton, S. B. (*with* Parker, R. Gary) On some results pertaining to Halin graphs. (English summary) **93j:05129**

Hotz, Günter *see* **Becker, U., 93g:54019**

Hromkovič, Juraj (*with* Monien, Burkhard) The bisection problem for graphs of degree 4 (configuring transputer systems). (English summary) **93k:68030**

Hsiao, Ju Yuan (*with* T'ang, Ch'uan I; Chang, Jui Hsiung) An efficient algorithm for finding a maximum weight 2-independent set on interval graphs. **93g:05130**

Hsu, D. Frank *see* **Du, Ding Zhu; et al., 93g:05089**

Hsu, F. R. (*with* Lee, R. C. T.; Chang, Ruei Chuan) Special subgraphs of weighted visibility graphs. **93g:68137**

Hsū, Li Hsing *see* **Jan, Rong Hong; et al., 93i:05123**

Hsu, Wen-Lian *see* **Shih, Wei Kuan; et al., 93h:05158**

Hu, Jie *see* **Dekel, Eliezer; et al., 93h:05151**

Hu, Qing *see* **Shen, Xiao Jun; et al., 93k:05054**

Hu, Xiao Dong (*with* Hwang, F. K.) Reliabilities of chordal rings. **93k:05100**

Huang, Ke (*with* Wu, Jie) Optimal fault-tolerant ring networks. (English summary) **93m:68024**

Hudry, Olivier *see* **Fournier, Irène; et al., 93j:05068**

Hujter, M. *see* **Bíró, M.; et al., 93d:05049**

Hutton, Michael D. (*with* Lubiw, Anna) Upward planar drawing of single source acyclic digraphs. (English summary) (*see* **93m:05005**)

Hwang, F. K. *see* **Du, Ding Zhu, 93a:90075** *and* **Hu, Xiao Dong, 93k:05100**

Ibaraki, Toshihide *see* **Nagamochi, Hiroshi, 93d:05096; 93d:05097** *and* **93d:05098**

Impagliazzo, Russell *see* **Gupta, Arvind, 93e:05091**

Istrail, Sorin *see* **Heath, Lenwood S., 93k:05171**

Italiano, Giuseppe F. *see* **Eppstein, David; et al., 93a:68027** *and* **Galil, Zvi, 93m:68075**

Jan, Rong Hong (*with* Hsū, Li Hsing; Lee, Yueh-Ying) The most vital edges with respect to the number of spanning trees in two-terminal series-parallel graphs. (English summary) **93i:05123**

Jansen, Klaus The interconnection problem. (English summary) **93k:68009**

Jha, Pranava K. (*with* Slutzki, Giora) Convex-expansions algorithms for recognition and isometric embedding of median graphs. (English summary) **93m:05165**

Joseph, Deborah *see* **Althöfer, Ingo; et al., 93h:05161**

Judd, J. Stephen Domination and perpetual evasiveness. (English summary) **93m:05185**

Juvan, Martin (*with* Mohar, Bojan) Optimal linear labelings and eigenvalues of graphs. **93e:05086**

Kahn, Peter J. *see* **Hopcroft, John E.**

Kamakoti, V. (*with* Pandu Rangan, C.) An optimal algorithm for reconstructing a binary tree.

Kaminski, Michael (*with* Pinter, Shlomit S.) Finite automata on directed graphs. **93m:68124**

Kanal, Laveen N. *see* **Mahanti, Ambuj; et al., (93j:68007)**

Kannan, Sampath K. (*with* Warnow, Tandy J.) Triangulating 3-colored graphs. **93j:05147**

Karadžić, Žarko *see* **Novak, Ladislav A.; et al., 93b:05154**

Karger, David R. (*with* Koller, Daphne; Phillips, Steven J.) Finding the hidden path: time bounds for all-pairs shortest paths. (English summary) **93e:05093**

Karpiński, Marek *see* **Dahlhaus, Elias, 93g:05113**

Kaser, Owen *see* **Pawagi, Shaunak, 93m:68067**

Kashiwabara, Toshinobu (*with* Masuda, Sumio) An algorithm for testing the planarity of a hierarchical graph. (English summary) **93h:05153**

Kas'yanov, V. N. *see* **Evstigneev, V. A., 93i:05122**

Katona, Gyula Y. Searching for f-Hamiltonian circuits. (English summary) **93e:05064**

Kaufmann, Michael (*with* Mehlhorn, Kurt) On local routing of two-terminal nets. **93e:05094**

Keil, J. Mark (*with* Schaefer, Doug) An optimal algorithm for finding dominating cycles in circular-arc graphs. **93c:05105**

— The complexity of domination problems in circle graphs. (English summary) **93m:68078**

Kelsen, Pierre *see* **Han, Xiaofeng; et al., 93e:05092**

Kennes, Robert Computational aspects of the Möbius transformation of graphs. **93m:68156**

Kézdy, André (*with* McGuinness, Patrick) Sequential and parallel algorithms to find a K_5 minor. **93e:05095**

Khuller, Samir (*with* Schieber, Baruch) On independent spanning trees. (English summary) **93f:05035**

— (*with* Mitchell, Stephen G.; Vazirani, Vijay V.) Processor efficient parallel algorithms for the two disjoint paths problem and for finding a Kuratowski homeomorph. **93c:05106**

King, Valerie An $\Omega(n^{5/4})$ lower bound on the randomized complexity of graph properties. **93a:68058**

Kinnersley, Nancy G. The vertex separation number of a graph equals its path-width. (English summary) **93d:05143**

Kireeva, A. V. Congruences and automorphisms of root trees. (Russian) **93g:05040**

Kirschenhofer, Peter Enumeration of trees. **93h:05058**

— *see also* **Andersson, Arne, 93k:68021**

Klawe, Maria M. (*with* Leighton, Frank Thomson) A tight lower bound on the size of planar permutation networks. (English summary) **93h:05101**

Klein, Philip (*with* Stein, Clifford) A parallel algorithm for approximating the minimum cycle cover. (English summary) **93k:68040**

Knisely, J. (*with* Wallis, C.; Domke, Gayla S.) The partitioned graph isomorphism problem. (English summary) **93j:05040**

Knuth, Donald E. (*with* Raghunathan, Arvind) The problem of compatible representatives. **93h:90076**

— *see also* **Guibas, Leonidas J.; et al., 93e:68130**

Koller, Daphne *see* **Karger, David R.; et al., 93e:05093**

Kong, M. C. *see* **Cai, Yang, 93j:05142**

Korach, Ephraim (*with* Tal, Ady) General vertex disjoint paths in series-parallel graphs. (English summary) **93k:05172**

Koren, Israel *see* **Cederbaum, Israel; et al., 93m:68088**

Kovács, B. *see* **Dömösi, P., 93e:68076**

Kratochvíl, Jan (*with* Nešetřil, Jaroslav; Zýka, Ondřej) On the computational complexity of Seidel's switching. (English summary) **93j:05156**

— *see also* **Fellows, Michael R.; et al., (93m:05004)**

Kubale, Marek Some results concerning the complexity of restricted colorings of graphs. **93d:05053**

Kučera, L. *see* **Calkin, Neil J.; et al., 93d:68027**

Kulkarni, K. H. *see* **Sprague, Alan P., 93c:68038**

Kumar, P. Sreenivasa *see* **Veeraraghavulu, N. Ch.; et al., 93d:05146**

Kuplinsky, Julio *see* **Hansen, Pierre; et al., 93j:05057**

Kur'erov, Yu. N. On an estimate for the length of a random deduction search tree in multimessage calculi of general type. (Russian. English and Ukrainian summaries) **93h:68125**

Lagergren, Jens An upper bound on the size of an obstruction. (English summary) (*see* **93m:05004**)

Laskar, Renu C. *see* **Fricke, Gerd, 93k:05127**

Latifi, Shahram (*with* Zheng, Si-Qing) On Hamiltonian paths between two vertices in hypercube graphs. (English summary) **93j:05102**

Läuchli, Peter ★ Algorithmische Graphentheorie. (German) [Algorithmic graph theory] **93m:05186**

Lee, Der Tsai *see* **Lou, R. D.; et al., 93d:68024**

Lee, R. C. T. *see* **Hsu, F. R.; et al., 93g:68137**

Lee, Yueh-Ying *see* **Jan, Rong Hong; et al., 93i:05123**

Leighton, Frank Thomson *see* **Heath, Lenwood S.; et al., 93d:05150** *and* **Klawe, Maria M., 93h:05101**

Lengauer, Th. (*with* Wagner, Klaus Werner) The correlation between the complexities of the nonhierarchical and hierarchical versions of graph problems. **93d:68035**

Levcopoulos, Christos (*with* Lingas, Andrzej) There are planar graphs almost as good as the complete graphs and almost as cheap as minimum spanning trees. (English summary) **93i:05124**

Li, Chung-Lun (*with* McCormick, S. Thomas; Simchi-Levi, David) Finding disjoint paths with different path-costs: complexity and algorithms. (English summary) **93g:68056**

Li, Hsün Ming (*with* Chang, Chên Hua) Set to set broadcasting in communication networks. (English summary) **93i:90043**

Liang, Y. Daniel (*with* Rhee, Chongkye) Finding a maximum matching in a circular-arc graph. (English summary) **93k:05132**

Lin, Fêng Ch'ing *see* **Wang, Feng Hsu**, **93k:68011**

Lin, Jyh-Han (*with* Vitter, Jeffrey Scott) Approximation algorithms for geometric median problems. (English summary) **93m:05187**

Lindenmayer, Aristid *see* **de Boer, Martin J. M.; et al., 93a:68068**

Lingas, Andrzej *see* **Levcopoulos, Christos**, **93i:05124**

Litovsky, Igor (*with* Métivier, Yves) Computing trees with graph rewriting systems with priorities. (English summary) **93m:68108**

Liu, Yu Min (*with* Xu, Ji Chao) General algorithms for finding minimal trees. (Chinese. English and Chinese summaries) **93k:05173**

— *see also* **Xu, Ji Chao**, **93m:05128**

Lotspiech, Jeffrey B. *see* **Birk, Yitzhak**, **93h:68141**

Lou, R. D. (*with* Sarrafzadeh, Majid; Lee, Der Tsai) An optimal algorithm for the maximum two-chain problem. **93d:68024**

— *see also* **Sarrafzadeh, Majid**, **93j:68084**

Loulou, Richard Minimal cut cover of a graph with an application to the testing of electronic boards. (English summary) **93h:05160**

Lovász, László The work of A. A. Razborov. **93e:01012**

— *see also* **Csima, J., 93a:05100**

Lubiw, Anna *see* **Hutton, Michael D.**, (**93m:05005**)

Ma, Eva (*with* Narahari, Bhagirath; Tao, Lixin) Optimal embedding of 2-D torus into ring. **93e:05025**

MacGillivray, Gary *see* **Bang-Jensen, Jørgen; et al., 93m:68051**

Mahanti, Ambuj (*with* Ghosh, Subrata; Nau, Dana S.; Pal, Asim K.; Kanal, Laveen N.) Performance of IDA* on trees and graphs. (English summary) (*see* **93j:68007**)

Mahjoub, A. R. *see* **Fonlupt, Jean; et al., 93g:05129**

Makedon, Fillia (*with* Sheinwald, Dafna; Wolfstahl, Yaron) A simple linear-time algorithm for the recognition of bandwidth-2 biconnected graphs. (English summary) **93m:05188**

Manber, Rachel *see* **Narasimhan, Giri**, **93i:05062**

Manber, Udi *see* **Wu, Sun**, **93g:05131**

Manoussakis, Yannis *see* **Bang-Jensen, Jørgen; et al., 93d:05141**

Marathe, Madhav V. (*with* Ravi, R.; Pandu Rangan, C.) Generalized vertex covering in interval graphs. (English summary) **93d:05119**

Mardon, Russell *see* **Hartvigsen, David**, **93j:05093**

Masuda, Sumio *see* **Kashiwabara, Toshinobu**, **93h:05153**

Masuzawa, Toshimitsu *see* **Park, Jungho; et al., 93c:68010**

Matoušek, Jiří (*with* Thomas, Robin) On the complexity of finding iso- and other morphisms for partial k-trees. (English summary) **93j:68074**

— *see also* **Agarwal, Pankaj K., 93d:05140**

Matula, David W. A linear time $2+\epsilon$ approximation algorithm for edge connectivity. (English summary) **93k:05174**

Matúš, F. On equivalence of Markov properties over undirected graphs. **93g:60105**

Mauri, Giancarlo *see* **Bonizzoni, P.; et al., 93h:68042**

McCormick, S. Thomas *see* **Li, Chung-Lun; et al., 93g:68056**

McEliece, Robert J. *see* **Collins, Oliver; et al., 93g:05132**

McGuinness, Patrick *see* **Kézdy, André**, **93e:05095**

Mehlhorn, Kurt *see* **Kaufmann, Michael**, **93e:05094**

Métivier, Yves *see* **Litovsky, Igor**, **93m:68108**

Middendorf, Matthias (*with* Pfeiffer, Frank) Weakly transitive orientations, Hasse diagrams and string graphs. (English summary) **93j:05071**

— *see also* **Fellows, Michael R.; et al., (93m:05004)**

Miller, Gary L. (*with* Teng, Shang-Hua; Vavasis, Stephen A.) A unified geometric approach to graph separators. (English summary) **93e:05096**

— (*with* Ramachandran, Vijaya) A new graph triconnectivity algorithm and its parallelization. **93k:05175**

Miller, Russ *see* **Dehne, Frank; et al., 93g:68135**

Miller, Zevi (*with* Perkel, Manley) The Steiner problem in the hypercube. **93d:05095**

Milosavljević, Milan *see* **Cvetković, Dragoš; et al., 93h:90071**

Mishra, Bhubaneswar (*with* Tarjan, Robert Endre) A linear-time algorithm for finding an ambitus. **93d:05144**

Mitchell, Stephen G. *see* **Khuller, Samir; et al., 93c:05106**

Mizuno, Masaaki *see* **Neilsen, Mitchell L., 93j:68018**

Mohar, Bojan 7-critical graphs of bounded genus. (English summary) **93k:05051**

— *see also* **Juvan, Martin**, **93e:05086**

Monien, Burkhard *see* **Hromkovič, Juraj**, **93k:68030**

Monma, Clyde L. (*with* Suri, Subhash) Transitions in geometric minimum spanning trees. **93g:68142**

Morgenstern, Moshe Explicit construction of natural bounded concentrators. (English summary) **93f:68013**

Morvan, M. *see* **Habib, Michel; et al., 93k:68045**

Moscarini, M. Doubly chordal graphs, Steiner trees, and connected domination. (English summary) **93h:05135**

Mota, E. *see* **Benavent López, Enrique; et al., 93h:90032**

Myrvold, Wendy J. Counting k-component forests of a graph. (English summary) **93h:05154**

Nagamochi, Hiroshi (*with* Ibaraki, Toshihide) A linear-time algorithm for finding a sparse k-connected spanning subgraph of a k-connected graph. **93d:05096**

— (*with* Ibaraki, Toshihide) A linear time algorithm for computing 3-edge-connected components in a multigraph. **93d:05097**

— (*with* Ibaraki, Toshihide) Computing edge-connectivity in multigraphs and capacitated graphs. **93d:05098**

Narahari, Bhagirath *see* **Ma, Eva; et al., 93e:05025**

Narasimhan, Giri (*with* Manber, Rachel) Stability number and chromatic number of tolerance graphs. **93i:05062**

Narayanan, H. (*with* Saran, Huzur; Vazirani, Vijay V.) Randomized parallel algorithms for matroid union and intersection, with applications to arboresences and edge-disjoint spanning trees. (*see* **93b:68005**)

Nau, Dana S. *see* **Mahanti, Ambuj; et al., (93j:68007)**

Neilsen, Mitchell L. (*with* Mizuno, Masaaki) Coterie join algorithm. (English summary) **93j:68018**

Nešetřil, Jaroslav *see* **Kratochvíl, Jan; et al., 93j:05156**

Niez, Jean-Jacques *see* **Hérault, Laurent**, (**93i:68010**)

Nir, Danny *see* **Shapiro, Jacob; et al., 93h:05157**

Novak, Ladislav A. (*with* Karadžić, Žarko; Acketa, Dragan M.) A space optimal algorithm for enumerating spanning trees of a connected graph. (Serbo-Croatian summary) **93b:05154**

Oellermann, Ortrud R. *see* **Chartrand, Gary**

Olariu, Stephan (*with* Schwing, James L.; Zhang, Jingyuan) A constant-time channel-assignment algorithm on reconfigurable meshes. (English summary)

Orlitsky, Alon *see* **Berger, Toby; et al., 93j:68082**

Osiakwan, Constantine N. K. (*with* Akl, Selim G.) Parallel computation of matchings in trees. **93a:68052**

Ouyang, Wen *see* **Dekel, Eliezer; et al., 93h:05151**

Owens, Frank W. *see* **Bagga, Kunwarjit S., 93d:68053**

Pal, Asim K. *see* **Mahanti, Ambuj; et al., (93j:68007)**

Pandu Rangan, C. *see* **Marathe, Madhav V.; et al., 93d:05119** *and* **Kamakoti, V.**

Park, Jungho (*with* Hagihara, Ken'ichi; Tokura, Nobuki; Masuzawa, Toshimitsu) Efficient distributed algorithm to solve updating minimum spanning tree problem. **93c:68010**

Parker, R. Gary *see* **Borie, Richard B.; et al., 93d:03017**; **93e:05090** *and* **Horton, S. B., 93j:05129**

Pawagi, Shaunak (*with* Kaser, Owen) Optimal parallel algorithms for multiple updates of minimum spanning trees. (English summary) **93m:68067**

Pearl, Judea *see* **Verma, Thomas**, **93f:68089**

Pearson, David Spencer (*with* Vazirani, Vijay V.) Efficient sequential and parallel algorithms for maximal bipartite sets. (English summary) **93h:05155**

Peck, G. W. *see* **Du, Ding Zhu; et al., 93g:05089**

Pelc, Andrzej *see* **Diks, Krzysztof**, **93j:05092**

Peng, Shietung *see* **Adhar, Gur Saran**, (**93f:68003**)

Perkel, Manley *see* **Miller, Zevi**, **93d:05095**

Petrenyuk, A. Ya. Enumeration of minimal tree decompositions of complete graphs. **93i:05102**

Petreschi, Rossella *see* **De Agostino, Sergio**, **93f:68031**

Pevzner, Pavel A. Multiple alignment, communication cost, and graph matching. (English summary) **93j:92024**

Pfeiffer, Frank *see* **Middendorf, Matthias**, **93j:05071** *and* **Fellows, Michael R.; et al., (93m:05004)**

Pflug, G. Ch. *see* **Gutjahr, Walter J., 93i:60017**

Phillips, Steven J. *see* **Karger, David R.; et al., 93e:05093**

Pighizzini, G. *see* **Bonizzoni, P.; et al., 93h:68042**

Pinter, Shlomit S. *see* **Kaminski, Michael**, **93m:68124**

Pippert, Raymond E. *see* **Hamburger, Peter; et al., 93d:05117**

Pisanski, Tomaž *see* **Žerovnik, Janez**, **93m:05192**

Plesník, Ján Worst-case relative performances of heuristics for the Steiner problem in graphs. **93c:05040**

Plummer, Michael D. Matching theory—a sampler: from Dénes König to the present. **93d:05120**

Podelski, Andreas A monoid approach to tree automata. (English summary) **93j:68146**

Poljak, Svatopluk On existence theorems. (English summary) **93j:05150**

Pollara, Fabrizio *see* **Collins, Oliver; et al., 93g:05132**

Prasad, Sushil *see* **Das, Sajal K.; et al., 93d:05057**

Priesler, Miri (*with* Tarsi, Michael) On the decomposition of graphs into copies of $P_3 \cup tK_2$. (English summary) **93m:05155**

Prodinger, Helmut External internal nodes in digital search trees via Mellin transforms. (English summary) **93i:68047**

— *see also* **Andersson, Arne**, **93k:68021**

Prömel, Hans Jürgen (*with* Steger, Angelika) Coloring clique-free graphs in linear expected time. (English summary) **93m:68083**

Proskurowski, Andrzej Graph reductions, and techniques for finding minimal forbidden minors. (English summary) (*see* **93m:05004**)

Pudlák, Pavel (*with* Rödl, Vojtěch) A combinatorial approach to complexity. (English summary) **93m:68054**

Raghunathan, Arvind *see* **Knuth, Donald E., 93h:90076**

Ramachandran, Vijaya *see* **Han, Xiaofeng; et al., 93e:05092** *and* **Miller, Gary L., 93k:05175**

Ramaiyer, Viswanathan *see* **Berman, Piotr**, (**93b:68005**)

Rampon, Jean-Xavier *see* **Habib, Michel; et al., 93k:68045**

Ratel, C. *see* **Bouajjani, A.; et al., 93a:68091**

Rau-Chaplin, Andrew *see* **Dehne, Frank; et al., 93g:68135**

Ravi, R. *see* **Marathe, Madhav V.; et al., 93d:05119**

Raymond, P. *see* **Bouajjani, A.; et al., 93a:68091**

Raz, Ran (*with* Wigderson, Avi) Monotone circuits for matching require linear depth. (English summary) **93m:68055**

(Razborov, A. A.) *see* **Lovász, László, 93e:01012**

Reif, John H. *see* **Cheriyan, Joseph**, **93h:05149**

Rhee, Chongkye *see* **Liang, Y. Daniel**, **93k:05132**

Roberts, Fred S. *see* **Cozzens, Margaret B., 93i:05059**

Rödl, Vojtěch *see* **Pudlák, Pavel, 93m:68054**

Rosenberg, Arnold L. *see* **Heath, Lenwood S.; et al., 93d:05150**

Royle, Gordon F. *see* **Campbell, S. R.; et al., 93m:05160**

Rozenberg, Grzegorz *see* **Ehrenfeucht, Andrzej**, **93h:05163**

Ruhe, Günther ★ Algorithmic aspects of flows in networks. **93a:90003**
Ruzzo, Walter L. *see* **Borodin, Allan; et al., 93j:68068**
Sabadini, N. *see* **Bonizzoni, P.; et al., 93h:68042**
Samy, A. Antony (*with* Arumugam, G.; Devasahayam, M. Paul; Xavier, C.) A recognition algorithm for the intersection graphs of internally disjoint paths in trees. (*see* **93b:68006**)
Šándorová, Ľubica (*with* Trenkler, Marián) On a generalization of perfect b-matching. (Slovak summary) **93a:05092**
Sankaranarayana, Ramesh S. (*with* Stewart, Lorna K.) Complexity results for well-covered graphs. **93d:05145**
Santosh, Vempala S. *see* **Garg, Naveen; et al., 93k:05169**
Saran, Huzur (*with* Vazirani, Vijay V.) Finding k-cuts within twice the optimal. (English summary) **93e:05097**
— *see also* **Narayanan, H.; et al.,** (**93b:68005**)
Sarrafzadeh, Majid (*with* Lou, R. D.) Maximum k-covering of weighted transitive graphs with applications. (English summary) **93j:68084**
— *see also* **Lou, R. D.; et al., 93d:68024**
Sassano, Antonio *see* **De Simone, Caterina, 93j:05144**
Schaefer, Doug *see* **Keil, J. Mark, 93c:05105**
Schieber, Baruch *see* **Khuller, Samir, 93f:05035**
Schwing, James L. *see* **Olariu, Stephan; et al.**
Seese, Detlef Interpretability and tree automata: a simple way to solve algorithmic problems on graphs closely related to trees. **93j:68062**
Shankar, Priti *see* **Gabrani, Naveen**
Shapiro, Jacob (*with* Waxman, Jerry; Nir, Danny) Level graphs and approximate shortest path algorithms. (English summary) **93h:05157**
Sharary, Ahmad (*with* Zaguia, Nejib) On a setup optimization problem for interval orders. (English summary) **93h:68110**
Sharir, Micha *see* **Guibas, Leonidas J.; et al., 93e:68130**
Shasha, Dennis *see* **Zhang, Kaizhong; et al., 93e:68094**
Sheinwald, Dafna *see* **Makedon, Fillia; et al., 93m:05188**
Shen, Xiao Jun (*with* Hu, Qing; Cong, Bin; Sudborough, Ivan Hal; Girou, Mike; Bettayeb, Said) The 4-star graph is not a subgraph of any hypercube. (English summary) **93k:05054**
Shih, Wei Kuan (*with* Chern, T. C.; Hsu, Wen-Lian) An $O(n^2 \log n)$ algorithm for the Hamiltonian cycle problem on circular-arc graphs. (English summary) **93h:05158**
Simchi-Levi, David *see* **Li, Chung-Lun; et al., 93g:68056**
Simić, Slobodan K. An algorithm to recognize a generalized line graph and output its root graph. **93a:05120**
Singla, Aman *see* **Garg, Naveen; et al., 93k:05169**
Slater, Peter J. *see* **Amin, Ashok T., 93j:05141**
Sleator, Daniel D. (*with* Tarjan, Robert Endre; Thurston, William P.) Short encodings of evolving structures. **93m:68110**
Slutzki, Giora *see* **Jha, Pranava K., 93m:05165**
Smith, Warren D. How to find Steiner minimal trees in Euclidean d-space. **93a:68064**
Snyder, Timothy Law On the exact location of Steiner points in general dimension. **93f:90176**
Soares, José *see* **Althöfer, Ingo; et al., 93h:05161**
Spinrad, Jeremy P. P_4-trees and substitution decomposition. (English summary) **93g:68017**
— *see also* **Eschen, Elaine M., 93k:05168**
Sprague, Alan P. (*with* Kulkarni, K. H.) Optimal parallel algorithms for finding cut vertices and bridges of interval graphs. **93c:68038**
Statman, Rick *see* **Zhang, Kaizhong; et al., 93e:68094**
Steger, Angelika *see* **Prömel, Hans Jürgen, 93m:68083**
Stein, Clifford *see* **Klein, Philip, 93k:68040**
Steiner, George *see* **Deogun, Jitender S., 93f:05058**
Stewart, Lorna K. *see* **Sankaranarayana, Ramesh S., 93d:05145**
Sudborough, Ivan Hal *see* **Shen, Xiao Jun; et al., 93k:05054**
Suraweera, Francis (*with* Bhattacharya, Prabir) An $O(\log m)$ parallel algorithm for the minimum spanning tree problem. (English summary)
Suri, Subhash *see* **Monma, Clyde L., 93g:68142**
Swamy, M. N. S. *see* **Thulasiraman, K., 93f:05002**
Sýkora, Ondrej (*with* Vrťo, Imrich) Edge separators for graphs of bounded genus with applications. (English summary) **93m:05190**
— *see also* **Diks, Krzysztof; et al., 93i:05121**
(Szpankowski, Wojciech) *see* **Andersson, Arne, 93k:68021**
Taentzer, Gabriele *see* **Ehrig, Hartmut,** (**93m:68004**)
Tal, Ady *see* **Korach, Ephraim, 93k:05172**
Tamassia, Roberto *see* **Eppstein, David; et al., 93a:68027** *and* **Di Battista, Giuseppe; et al., 93i:05053**
Tamura, Akihisa (*with* Tamura, Yoshiko) Degree constrained tree embedding into points in the plane. (English summary) **93j:05151**
Tamura, Yoshiko *see* **Tamura, Akihisa, 93j:05151**
T'ang, Ch'uan I *see* **Hsiao, Ju Yuan; et al., 93g:05130**
Tao, Lixin *see* **Ma, Eva; et al., 93e:05025**
Tarjan, Robert Endre *see* **Eppstein, David; et al., 93a:68027**; **Mishra, Bhubaneswar, 93d:05144**; **Han, Xiaofeng; et al., 93e:05092** *and* **Sleator, Daniel D.; et al., 93m:68110**
Tarsi, Michael *see* **Priesler, Miri, 93m:05155**
Teng, Shang-Hua *see* **Miller, Gary L.; et al., 93e:05096**
Thomas, Robin *see* **Matoušek, Jiří, 93j:68074**
Thomassen, Carsten *see* **Bang-Jensen, Jørgen; et al., 93d:05141** *and* **93i:05120**
Thulasiraman, K. (*with* Swamy, M. N. S.) ★ Graphs: theory and algorithms. **93f:05002**
Thurston, William P. *see* **Sleator, Daniel D.; et al., 93m:68110**
Tick, E. *see* **Adamson, P.**
Tittmann, Peter *see* **Beichelt, Frank, 93d:94032**
Tokura, Nobuki *see* **Park, Jungho; et al., 93c:68010**
Tollis, Ioannis G. *see* **Di Battista, Giuseppe; et al., 93i:05053**
Tompa, Martin *see* **Borodin, Allan; et al., 93j:68068**
Tovey, Craig A. *see* **Borie, Richard B.; et al., 93d:03017** *and* **93e:05090**
Trenkler, Marián *see* **Šándorová, Ľubica, 93a:05092**
Trier, Uwe Additive weights of a special class of nonuniformly distributed backtrack trees. **93i:68094**
Trubin, V. A. Strength of a network, its amplification and packing of trees. (Russian. English and Ukrainian summaries) **93a:90023**
Tseng, Lin Yu *see* **Yu, Ming Shing; et al., 93m:05191**
Tuza, Zsolt Graph coloring in linear time. **93f:05045**
— *see also* **de Boer, Martin J. M.; et al., 93a:68068**; **Bíró, M.; et al., 93d:05049** *and* **Erdős, Paul; et al., 93h:05124**
Uhry, J.-P. *see* **Fonlupt, Jean; et al., 93g:05129**
Urrutia, Jorge (*with* Gavril, F.) An algorithm for fraternal orientation of graphs. **93d:05060**
Vavasis, Stephen A. *see* **Miller, Gary L.; et al., 93e:05096**
Vazirani, Vijay V. *see* **Khuller, Samir; et al., 93c:05106**; **Saran, Huzur, 93e:05097**; **Pearson, David Spencer, 93h:05155** *and* **Narayanan, H.; et al., (93b:68005)**
Veeraraghavulu, N. Ch. (*with* Kumar, P. Sreenivasa; Veni Madhavan, C. E.) A linear-time algorithm for isomorphism of a subclass of chordal graphs. (English summary) **93d:05146**
Veltkamp, Remco C. The γ-neighborhood graph. **93h:05137**
Veni Madhavan, C. E. *see* **Veeraraghavulu, N. Ch.; et al., 93d:05146**
Verma, Thomas (*with* Pearl, Judea) Causal networks: semantics and expressiveness. **93f:68089**
Vincent, Luc *see* **Heijmans, Henk J. A. M.,** (**93f:68100**)
Vishwanathan, Sundar An approximation algorithm for the asymmetric travelling salesman problem with distances one and two. (English summary) **93h:68063**
Vitter, Jeffrey Scott *see* **Lin, Jyh-Han, 93m:05187**
Voss, Stefan Steiner's problem in graphs: heuristic methods. (English summary) **93j:68085**
Vrťo, Imrich *see* **Diks, Krzysztof; et al., 93i:05121** *and* **Sýkora, Ondrej, 93m:05190**
Wagner, Klaus Werner *see* **Lengauer, Th., 93d:68035**
Wallis, C. *see* **Knisely, J.; et al., 93j:05040**
Wang, Feng Hsu (*with* Lin, Fêng Ch'ing) On constructing multiple spanning trees in a hypercube. (English summary) **93k:68011**
Wanke, Egon *see* **Höfting, Franz, 93m:05184**
Warnow, Tandy J. *see* **Kannan, Sampath K., 93j:05147**
Waxman, Jerry *see* **Shapiro, Jacob; et al., 93h:05157**
Weakley, W. Douglas *see* **Hamburger, Peter; et al., 93d:05117**
Westbrook, Jeffery *see* **Eppstein, David; et al., 93a:68027**
Westermann, Herbert H. *see* **Gabow, Harold N., 93f:90133**
Wigderson, Avi *see* **Raz, Ran, 93m:68055**
Williams, Kenneth L. Determining bandwidth sum for certain graph sums. (English summary) **93m:05175**
Wimer, Shmuel *see* **Cederbaum, Israel; et al., 93m:68088**
Wolfstahl, Yaron *see* **Makedon, Fillia; et al., 93m:05188**
Wu, Jie *see* **Huang, Ke, 93m:68024**
Wu, Sun (*with* Manber, Udi) Path-matching problems. **93g:05131**
Xavier, C. *see* **Samy, A. Antony; et al.,** (**93b:68006**)
Xu, Ji Chao (*with* Liu, Yu Min) All optimal solutions to the 0-1 bottleneck problem. (Chinese. English summary) **93m:05128**
— *see also* **Liu, Yu Min, 93k:05173**
Yannakakis, Mihalis On the approximation of maximum satisfiability. (*see* **93b:68005**)
Yeh, Roger K. *see* **Griggs, Jerrold R., 93h:05141**
Yesha, Yaacov *see* **Chen, Lin^2, 93j:05143**
Yu, Ming Shing (*with* Tseng, Lin Yu; Chang, Shoe Jane) Sequential and parallel algorithms for the maximum-weight independent set problem on permutation graphs. (English summary) **93m:05191**
Yung, Moti *see* **Eppstein, David; et al., 93a:68027**
Zaguia, Nejib *see* **Sharary, Ahmad, 93h:68110**
Žerovnik, Janez (*with* Pisanski, Tomaž) Computing the diameter in multiple-loop networks. (English summary) **93m:05192**
Zhang, Jingyuan *see* **Olariu, Stephan; et al.**
Zhang, Kaizhong (*with* Statman, Rick; Shasha, Dennis) On the editing distance between unordered labeled trees. **93e:68094**
Zheng, Si-Qing *see* **Latifi, Shahram, 93j:05102**
Zhu, Shao Wen A method for generating all directed trees. (Chinese. English and Chinese summaries) **93m:05058**
Zimmermann, Uwe Negative circuits for flows and submodular flows. **93f:90178**
Zýka, Ondřej *see* **Kratochvíl, Jan; et al., 93j:05156**

68R15 Combinatorics on words

Allison, L. Lazy dynamic-programming can be eager. (English summary)
Apostolico, Alberto (*with* Crochemore, M.) Optimal canonization of all substrings of a string. **93a:68121**
— Optimal parallel detection of squares in strings. (English summary) **93h:68116**
— (*with* Szpankowski, Wojciech) Self-alignments in words and their applications. (English summary) **93c:68081**
Bar-Yehuda, Reuven (*with* Etzion, Tuvi; Moran, Shlomo) Rotating-table games and derivatives of words. (English summary) **93m:68138**
Bird, Richard S. The smallest upravel. **93f:68075**
Björner, Anders (*with* Reutenauer, Christophe) Rationality of the Möbius function of subword order. **93k:68081**
Bousquet-Mélou, Mireille The number of minimal word chains computing the Thue-Morse word. (English summary) **93m:68139**
Breslauer, Dany An on-line string superprimitivity test. (English summary) **93j:68160**
Cohen, D. A. (*with* Scott, E. A.) Rationality of division orderings. (English summary) **93k:68082**
Crochemore, M. *see* **Apostolico, Alberto, 93a:68121**
Dehornoy, Patrick Problème de mots dans les gerbes libres. (English summary) [The word problem in free sheaves] **93i:68146**
De Iaco, Bettina (*with* Luccio, Fabrizio) Finding all the palindromes in a binary tree in linear time and space. **93m:68140**
Etzion, Tuvi *see* **Bar-Yehuda, Reuven; et al., 93m:68138**
Ferenczi, Sébastien Tiling the Morse sequence. **93e:68104**
Kása, Z. Computing the d-complexity of words. **93c:68082**

Luccio, Fabrizio *see* **De Iaco, Bettina, 93m:68140**
Mignosi, F. (*with* Pirillo, Giuseppe) Repetitions in the Fibonacci infinite word. (French summary) **93c:68083**
Moran, Shlomo *see* **Bar-Yehuda, Reuven; et al., 93m:68138**
Mossé, Brigitte Puissances de mots et reconnaissabilité des points fixes d'une substitution. [Powers of words and recognizability of the fixed points of a substitution] **93f:68076**
Moulin Ollagnier, Jean Proof of Dejean's conjecture for alphabets with 5, 6, 7, 8, 9, 10 and 11 letters. (French summary) **93f:68077**
Păun, Gheorghe Anti-Langford sequences without adjacent repetitions. (Romanian. English and Romanian summaries) **93j:68161**
Pirillo, Giuseppe *see* **Mignosi, F., 93c:68083**
Régnier, M. Enumeration of bordered words. The language of the laughing cow. (French summary) **93g:68111**
Restivo, Antonio A note on renewal systems. **93e:68105**
Reutenauer, Christophe *see* **Björner, Anders, 93k:68081**
Roth, Peter Every binary pattern of length six is avoidable on the two-letter alphabet. **93c:68084**
Scott, E. A. *see* **Cohen, D. A., 93k:68082**
Séébold, Patrice Fibonacci morphisms and Sturmian words. **93c:68085**
Szpankowski, Wojciech *see* **Apostolico, Alberto, 93c:68081**

Items with secondary classifications in 68R15

Abello, James *see* **Lu, Mi; et al., 93i:68080**
Aigrain, Philippe (*with* Nivat, Maurice) Suffix, prefix and maximal tree codes. (English summary) **93m:68096**
Allouche, Jean-Paul The number of factors in a paperfolding sequence. **93f:11020**
— (*with* Morton, Patrick; Shallit, Jeffrey) Pattern spectra, substring enumeration, and automatic sequences. **93i:11030**
Bendor-Samuel, A. *see* **Currie, J. D., 93h:03057**
Bousquet-Mélou, Mireille Une bijection entre les polyominos convexes dirigés et les mots de Dyck bilatères. (English summary) [A bijection between convex directed polyominoes and bilateral Dyck words] **93d:68056**
Crochemore, M. (*with* Goralčík, P.) Mutually avoiding ternary words of small exponent. **93c:05017**
— *see also* **Néraud, J., 93d:68026**
Currie, J. D. (*with* Bendor-Samuel, A.) Words without near-repetitions. **93h:03057**
Delest, M.-P. Polyominoes and animals: some recent results. **93e:05024**
Du, Ding Zhu *see* **Jiang, Tao[1]; et al., 93j:68225**
Frougny, Christiane Systèmes de numération linéaires et θ-représentations. (English summary) [Linear numeration systems and θ-representations] **93g:11013**
Gardy, Danièle (*with* Gouyou-Beauchamps, D.) Enumerating Davenport-Schinzel sequences. (English and French summaries) **93k:05011**
Goldwurm, Massimiliano Probabilistic estimation of the number of prefixes of a trace. **93c:68071**
Goralčík, P. *see* **Crochemore, M., 93c:05017**
Gouyou-Beauchamps, D. *see* **Gardy, Danièle, 93k:05011**
Ito, Masami[1] (*with* Jürgensen, Helmut; Shih, Hui Jan; Thierrin, G.) Languages whose n-element subsets are codes. **93f:68059**
Jiang, Tao[1] (*with* Li, Ming[1]; Du, Ding Zhu) A note on shortest superstrings with flipping. (English summary) **93j:68225**
Jürgensen, Helmut *see* **Ito, Masami[1]; et al., 93f:68059**
Lacaze, Jacqueline Parties reconnaissables de monoïdes définis par générateurs et relations. (English and French summaries) [Recognizable subsets of monoids defined by generators and relations] **93k:20084**
Li, Ming[1] *see* **Jiang, Tao[1]; et al., 93j:68225**
Lin, Hua *see* **Lu, Mi; et al., 93i:68080**
Lu, Mi (*with* Lin, Hua; Abello, James) An efficient parallel algorithm for longest common subsequence problem. (English summary) **93i:68080**
Marché, Claude The word problem of ACD-ground theories is undecidable. **93i:03061**
Morton, Patrick *see* **Allouche, Jean-Paul; et al., 93i:11030**
Néraud, J. (*with* Crochemore, M.) A string-matching interpretation of the equation $x^m y^n = z^p$. **93d:68026**
Nivat, Maurice *see* **Aigrain, Philippe, 93m:68096**
Shallit, Jeffrey *see* **Allouche, Jean-Paul; et al., 93i:11030**
Shih, Hui Jan *see* **Ito, Masami[1]; et al., 93f:68059**
Skubiszewski, Marcin Binary periodic synchronizing sequences. **93d:94003**
Strehl, Volker Cycle counting for isomorphism types of endofunctions. **93m:05014**
Thierrin, G. *see* **Ito, Masami[1]; et al., 93f:68059**
Wen, Zhi Xiong (*with* Wen, Zhi Ying) Marches sur les arbres homogènes suivant une suite substitutive. (French summary) [Walks on homogeneous trees following a substitution sequence] **93m:11023**
Wen, Zhi Ying *see* **Wen, Zhi Xiong, 93m:11023**

Items listed otherwise than by author

Algebraic theory of codes and combinatorics on words ★ Daisūteki kōdo riron oyobi go no kumiawaseron. (Japanese) [Algebraic theory of codes and combinatorics on words] **93g:94003**
Symposium:
Algebraic Theory of Codes and Combinatorics on Words ★ Daisūteki kōdo riron oyobi go no kumiawaseron. (Japanese) [Algebraic theory of codes and combinatorics on words] **93g:94003**

68R99 None of the above, but in this section

Items with secondary classifications in 68R99

Ganter, Bernhard (*with* Reuter, Klaus) Finding all closed sets: a general approach. **93b:06010**
Goldfarb, Donald (*with* Hao, Jianxiu) Polynomial-time primal simplex algorithms for the minimum cost network flow problem. **93f:90060**
Gustedt, Jens Well-quasi-ordering finite posets (extended abstract). (English summary) (*see* **93m:05004**)
Hao, Jianxiu *see* **Goldfarb, Donald, 93f:90060**
Kasangian, S. (*with* Vigna, S.) Introducing a calculus of trees. **93d:68050**
Koblitz, Neal Elliptic curve implementation of zero-knowledge blobs. (English summary) **93m:68080**
Logunov, P. L. Asymptotic properties of random matrices that are expressed in terms of conditional probabilities. (Russian) **93e:60066**
Reuter, Klaus *see* **Ganter, Bernhard, 93b:06010**
Vigna, S. *see* **Kasangian, S., 93d:68050**

68S05 Mathematical linguistics [see also 03B65, 92K20]

van Benthem, Johan General dynamics. **93b:68072**
Melichar, Bořivoj Formal translation directed by LR parsing. **93e:68106**
Ward, Nigel A parallel approach to syntax for generation. (English summary) **93e:68107**

Items with secondary classifications in 68S05

Böttner, Michael State transition semantics. (English summary) **93k:03029**
Devlin, Keith ★ Logic and information. **93c:68094**
Ehrenfeucht, Andrzej (*with* Rozenberg, Grzegorz) Grammatical codes of trees. **93b:68044**
Materna, Pavel (*with* Pala, Karel; Zlatuška, Jiří) ★ Logická analýza přirozeného jazyka. (Czech) [Logical analysis of natural language] **93c:03036**
Pala, Karel *see* **Materna, Pavel; et al., 93c:03036**
Purdy, William C. Surface reasoning. **93a:03027**
Rozenberg, Grzegorz *see* **Ehrenfeucht, Andrzej, 93b:68044**
Ruzsa, Imre ★ Intensional logic revisited. **93c:03037**
Zlatuška, Jiří *see* **Materna, Pavel; et al., 93c:03036**

68Txx Artificial intelligence [see also 92J40]

(Kirsh, David) *see* **Foundations of artificial intelligence, 93d:68059**
(Partridge, Derek) *see* **Foundations of artificial intelligence, 93b:68073**
Whittle, Peter A construction for processes with history-dependent transition intensities. (English summary) (*see* **93f:60003**)
(Wilks, Yorick) *see* **Foundations of artificial intelligence, 93b:68073**

Items listed otherwise than by author

Foundations of artificial intelligence ★ The foundations of artificial intelligence. **93b:68073**
— ★ Foundations of artificial intelligence. **93d:68059**

Items with secondary classifications in 68Txx

Ftáčnik, Milan *see* **Kelemen, Jozef; et al.**
Kalaš, Ivan *see* **Kelemen, Jozef; et al.**
Kelemen, Jozef (*with* Ftáčnik, Milan; Kalaš, Ivan; Mikulecký, Peter) ★ Základy umelej inteligencie. (Slovak. Slovak summary) [Fundamentals of artificial intelligence]
Mikulecký, Peter *see* **Kelemen, Jozef; et al.**

68T01 General

Balogh, Imre (*with* Slator, Brian M.) Annotated bibliography on the foundations of AI. (*see* **93b:68073**)
Banerji, Ranan AI, computer science and education: a position paper. (*see* **93b:68073**)
Boden, Margaret A. Has AI helped psychology? (*see* **93b:68073**)
Bundy, Alan (*with* Ohlsson, Stellan) The nature of AI principles: a debate in the AISB Quarterly. (*see* **93b:68073**)
— What kind of field is AI? (*see* **93b:68073**)
Campbell, J. A. Three novelties of AI: theories, programs and rational reconstructions. (*see* **93b:68073**)
Chandrasekaran, B. What kind of information processing is intelligence? A perspective on AI paradigms and a proposal. (*see* **93b:68073**)
Dietrich, Eric Programs in the search for intelligent machines: the mistaken foundations of AI. (*see* **93b:68073**)
Dreyfus, Hubert L. *see* **Dreyfus, Stuart E., (93b:68073)**
Dreyfus, Stuart E. (*with* Dreyfus, Hubert L.) Towards a reconciliation of phenomenology and AI. (*see* **93b:68073**)
Gorskaya, A. D. Expert systems: the relationship between relevant and essential. (Russian) (*see* **93m:03039**)
Hewitt, Carl The challenge of open systems. (*see* **93b:68073**)
Ishida, Yoshiteru A qualitative analysis on dynamical systems: sign structure. **93m:68141**
Kelemen, Jozef (*with* Păun, Gheorghe) Generative paradigm in the study of complex symbol systems: some variants of grammar systems. (English summary)
Kraus, Sarit (*with* Wilkenfeld, Jonathan) The function of time in cooperative negotiations. (English summary) (*see* **93i:68011**)
Kukla, Rebecca Cognitive models and representation. (English summary)
Marr, David Artificial intelligence: a personal view. (*see* **93b:68073**)
McCarthy, John We need better standards for AI research. (*see* **93b:68073**)
Michie, Donald Turing's test and conscious thought. (English summary)
Narayanan, Ajit ★ On being a machine. Vol. 1. **93h:68117a**
— ★ On being a machine. Vol. 2. **93h:68117b**
Needham, Roger M. Is there anything special about artificial intelligence? (*see* **93b:68073**)
Ohlsson, Stellan *see* **Bundy, Alan, (93b:68073)**
Partridge, Derek What's in an AI program? A concept-learning cognitive language understander by any other name will behave the same. (*see* **93b:68073**)
— (*with* Wilks, Yorick) Does AI have a methodology different from software engineering? (*see* **93b:68073**)
Păun, Gheorghe *see* **Kelemen, Jozef**
Pollack, Martha E. The uses of plans. **93k:68083**
Schank, Roger C. What is AI, anyway? (*see* **93b:68073**)

Simon, Thomas W. Artificial methodology meets philosophy. (*see* **93b:68073**)
Slator, Brian M. *see* **Balogh, Imre**, (**93b:68073**)
Smolensky, Paul Connectionism and the foundations of AI. (*see* **93b:68073**)
Sparck Jones, Karen What sort of a thing is an AI experiment? (*see* **93b:68073**)
Wilkenfeld, Jonathan *see* **Kraus, Sarit**, (**93i:68011**)
Wilks, Yorick One small head: models and theories. (*see* **93b:68073**)
— Some comments on Smolensky and Fodor. (*see* **93b:68073**)
— *see also* **Partridge, Derek**, (**93b:68073**)
Winograd, Terry Thinking machines: Can there be? Are we? (*see* **93b:68073**)

Items with secondary classifications in 68T01

Kelemen, Jozef (*with* Kelemenová, Alica) A grammar-theoretic treatment of multiagent systems. (English summary) **93h:68075**
Kelemenová, Alica *see* **Kelemen, Jozef**, **93h:68075**
(McCarthy, John) *see* **Thomason, Richmond H.**, **93j:03006**
Nguyen, Hung T. On combining uncertainty measures. (*see* **93c:90002**)
(Penrose, Roger) *see* **Sloman, Aaron**, **93h:00011**
Sloman, Aaron The emperor's real mind: review of R. Penrose's *The emperor's new mind* [Oxford Univ. Press, New York, 1989; MR 91c:00010]. (English summary) **93h:00011**
Stefanov, Stefan Z. General theory of intelligent systems. (English summary)
Thomason, Richmond H. Logicism, AI, and common sense: John McCarthy's program in philosophical perspective. **93j:03006**

68T05 Learning and adaptive systems

Aha, David W. *see* **Albert, Marc K.**, **93j:68162**
Albert, Marc K. (*with* Aha, David W.) Analyses of instance-based learning algorithms. (English summary) **93j:68162**
Angluin, Dana *see* **Dean, Thomas; et al.**, (**93j:68007**)
Anthony, Martin (*with* Biggs, Norman) ★Computational learning theory. **93f:68078**
— *see also* **Shawe-Taylor, John; et al.**, **93j:68167**
Aubin, Jean-Pierre (*with* Seube, Nicolas) Apprentissage adaptatif de lois de rétroaction de systèmes contrôlés par résaux de neurones. (English summary) [Adaptive learning of feedback control laws by neural networks] **93e:68108**
Baldi, Pierre *see* **Venkatesh, Santosh S.**, **93a:68123**
Balter, B. M. (*with* Popova, I. V.) Neural networks with feedback from the current pattern to neuron response and threshold: recognition of correlated and nonbinary patterns. (Russian. English and Russian summaries)
Baram, Yoram (*with* Sal'ee, Dror) Lower bounds on the capacities of binary and ternary networks storing sparse random vectors. (English summary) **93i:68147**
Bārzdiņš, Guntis *see* **Bārzdiņš, Jānis**, **93h:68118**
Bārzdiņš, Jānis (*with* Bārzdiņš, Guntis) Rapid construction of algebraic axioms from samples. **93h:68118**
Basye, Kenneth *see* **Dean, Thomas; et al.**, (**93j:68007**)
Biggs, Norman (*with* Brightwell, Graham R.; Tsoubelis, D.) Theoretical and practical studies of a competitive learning process. (English summary)
— *see also* **Anthony, Martin**, **93f:68078** *and* **Shawe-Taylor, John; et al.**, **93j:68167**
Blum, Avrim Rank-r decision trees are a subclass of r-decision lists.
Board, Raymond (*with* Pitt, Leonard) On the necessity of Occam algorithms. **93e:68109**
Borodyanskiĭ, Yu. M. Nonalgorithmizable discrete procedures. (Russian. English and Ukrainian summaries)
Brightwell, Graham R. *see* **Biggs, Norman; et al.**
Caianiello, Eduardo R. (*with* Ceccarelli, Michele; Marinaro, Maria) Can spurious states be useful? **93c:68086**
Campadelli, Paola (*with* Morpurgo, Anna) Learning classes of linearly separable Boolean functions from positive examples. **93h:68119**
Case, John (*with* Jain, Sanjay[1]; Sharma, Arun) On learning limiting programs. **93i:68148**
Ceccarelli, Michele *see* **Caianiello, Eduardo R.; et al.**, **93c:68086**
Chen, Wen Tsuen (*with* Hsieh, Kuen Rong) A neural sorting network with $O(1)$ time complexity.
Cheng, Yi Min *see* **Guo, Li[2]; et al.**
Chu, Yen Ping (*with* Hsieh, C. M.) An artificial neural network model with modified perceptron algorithm. (English summary) **93h:68120**
Churchland, Paul M. Representation and high-speed computation in neural networks. (*see* **93b:68073**)
Comon, P. Classification supervisée par réseaux multicouches. (English and French summaries) [Supervised classification by multilayer networks]
Dean, Thomas (*with* Angluin, Dana; Basye, Kenneth; et al.) Inferring finite automata with stochastic output functions and an application to map learning. (English summary) (*see* **93j:68007**)
Dechter, Rina *see* **Pinkas, Gadi**, **93k:68085**
Dollas, Apostolos *see* **Thint, Marcus P.; et al.**
Dumitrescu, D. Fuzzy training procedures. I. (English summary)
Etzioni, Oren A structural theory of explanation-based learning. (English summary)
Fischer, Paul (*with* Simon, Hans-Ulrich) On learning ring-sum-expansions. **93a:68122**
Fontana, Walter Functional self-organization in complex systems. (English summary) (*see* **93h:68003**)
Fujioka, Ryosuke *see* **Ishibuchi, Hisao; et al.**
Gasarch, William I. (*with* Smith, Carl H.) Learning via queries. (English summary) **93k:68084**
Gol'tsev, A. D. Structured neural-like network with training intended for texture image segmentation. (Russian. English and Ukrainian summaries)
Greiner, Russell (*with* Jurišica, Igor) A statistical approach to solving the EBL utility problem. (English summary) (*see* **93j:68007**)
Gu, Qian Ping (*with* Maruoka, Akira) Learning monotone Boolean functions by uniformly distributed examples. **93g:68112**
Guo, Li[2] (*with* Jin, Da Sheng; Cheng, Yi Min) Design and implementation of discrete-time neural networks. (Chinese. English and Chinese summaries)
Haussler, David (*with* Kearns, Michael J.; Littlestone, Nick; Warmuth, Manfred K.) Equivalence of models for polynomial learnability. **93b:68074**
— Decision-theoretic generalizations of the PAC model for neural net and other learning applications. (English summary) **93i:68149**
Helmbold, David (*with* Sloan, Robert; Warmuth, Manfred K.) Learning integer lattices. **93d:68060**
Hirsh, Haym Polynomial-time learning with version spaces. (English summary) (*see* **93j:68007**)
Hong Tuan, R. Abstraction hierarchy in neural networks: a rigorous treatment. (English summary) (*see* **93i:68010**)
Hoppensteadt, F. C. Signal processing by model neural networks. (English summary)
Hsieh, C. M. *see* **Chu, Yen Ping**, **93h:68120**
Hsieh, Kuen Rong *see* **Chen, Wen Tsuen**
Idestam-Almquist, Peter Learning missing clauses by inverse resolution. (English summary) (*see* **93i:68007**)
Ishibuchi, Hisao (*with* Fujioka, Ryosuke; Tanaka, Hideo) Possibility and necessity pattern classification using neural networks. (English summary)
Jain, Sanjay[1] *see* **Case, John; et al.**, **93i:68148**
Jin, Da Sheng *see* **Guo, Li[2]; et al.**
Jurišica, Igor *see* **Greiner, Russell**, (**93j:68007**)
Kearns, Michael J. Oblivious PAC learning of concept hierarchies. (English summary) **93j:68163**
— *see also* **Haussler, David; et al.**, **93b:68074**
Kelemen, Jozef A note on learning, fallibility, and cognitive resources use. (English summary)
Kern, Walter Learning convex bodies under uniform distribution. (English summary) **93i:68150**
Ko, Ker-I (*with* Tzeng, Wen-Guey) Three Σ_2^p-complete problems in computational learning theory. **93h:68121**
Koinuma, Hideyuki *see* **Sakai, Ken-ichiro; et al.**
Kowalczyk, Adam On rough models of history records. (*see* **93a:41001**)
Koyama, Kenji *see* **Tsukada, Yasuyuki**, (**93j:68003**)
Lee, Kuo Chun *see* **Takefuji, Yoshiyasu**, **93g:68115**
Li, Xiao Zhong (*with* Luo, Cheng Zhong) A class of fuzzy neurons and their applications. (Chinese. English and Chinese summaries)
Littlestone, Nick *see* **Haussler, David; et al.**, **93b:68074**
Liu, Chang Xiao *see* **Liu, Jun; et al.**
Liu, Jun (*with* Wang, Zhao Ming; Liu, Chang Xiao) A study on relations between inputs and outputs of neurons and computational properties of neural networks. (Chinese. English and Chinese summaries)
Lowry, Michael R. Symmetry as bias: rediscovering special relativity. (English summary) (*see* **93j:68007**)
Luo, Cheng Zhong *see* **Li, Xiao Zhong**
Marinaro, Maria *see* **Caianiello, Eduardo R.; et al.**, **93c:68086**
Maruoka, Akira *see* **Gu, Qian Ping**, **93g:68112** *and* **Takimoto, Eiji**, **93j:68168**
Mathur, Anoop *see* **Samad, Tariq**
Mizraji, Eduardo Vector logics: the matrix-vector representation of logical calculus. (English summary) **93i:68151**
Morisue, Mititada *see* **Sakai, Ken-ichiro; et al.**
Morpurgo, Anna *see* **Campadelli, Paola**, **93h:68119**
Mühlenbein, Heinz Parallel genetic algorithms and neural networks as learning machines. (English summary) **93i:68152**
Narazaki, Hiroshi (*with* Ralescu, Anca L.) Towards the "ideal" solution in a learning problem with different T-norm operators. (English summary)
Natarajan, B. K. Probably approximate learning over classes of distributions. **93m:68142**
Neal, Radford M. Connectionist learning of belief networks.
Nishino, Tetsuro Learning logic formulas and programs based on their models. (English summary) **93j:68164**
Obradovic, Zoran (*with* Parberry, Ian) Computing with discrete multi-valued neurons. (English summary) **93j:68165**
Parberry, Ian *see* **Obradovic, Zoran**, **93j:68165**
Parisi, Giorgio On the classification of learning machines. (English summary) **93g:68113**
Pinkas, Gadi (*with* Dechter, Rina) An improved connectionist activation function for energy minimization. (English summary) **93k:68085**
Pitt, Leonard *see* **Board, Raymond**, **93e:68109**
Popova, I. V. *see* **Balter, B. M.**
Ralescu, Anca L. *see* **Narazaki, Hiroshi**
Ruan, Jiong A stability analysis of Hopfield's continuous neural networks with asymmetric weighted matrices. (Chinese. English and Chinese summaries)
Saad, D. Training recurrent neural networks via trajectory modification. **93g:68114**
Sakai, Ken-ichiro (*with* Morisue, Mititada; Koinuma, Hideyuki) Simulation of neural network digital adder and multiplier.
Sal'ee, Dror *see* **Baram, Yoram**, **93i:68147**
Samad, Tariq (*with* Mathur, Anoop) Parameter estimation for process control with neural networks. (English summary)
Sastry, P. S. Stochastic networks for constraint satisfaction and optimization. (English summary)
Schapire, Robert E. ★The design and analysis of efficient learning algorithms. **93j:68166**
Seube, Nicolas *see* **Aubin, Jean-Pierre**, **93e:68108**
Sharma, Arun *see* **Case, John; et al.**, **93i:68148**
Shawe-Taylor, John (*with* Anthony, Martin; Biggs, Norman) Bounding sample size with the Vapnik-Chervonenkis dimension. (English summary) **93j:68167**
Simon, Hans-Ulrich *see* **Fischer, Paul**, **93a:68122**
Sloan, Robert *see* **Helmbold, David; et al.**, **93d:68060**
Smith, Carl H. *see* **Gasarch, William I.**, **93k:68084**
Takefuji, Yoshiyasu (*with* Lee, Kuo Chun) Neural network computing for knight's tour problems. (English summary) **93g:68115**
Takimoto, Eiji (*with* Maruoka, Akira) Relationships between PAC-learning algorithms and weak Occam algorithms. (English summary) **93j:68168**
Tanaka, Hideo *see* **Ishibuchi, Hisao; et al.**
Tani, Jun Proposal of chaotic steepest descent method for neural networks and analysis of their dynamics. (English summary)

Thathachar, M. A. L. Stochastic automata and learning systems. (English summary)
Thint, Marcus P. (*with* Wang, Paul P.; Dollas, Apostolos) Nonparametric graded data processing with back-error propagation networks. (English summary)
Tsoubelis, D. *see* **Biggs, Norman; et al.**
Tsukada, Yasuyuki (*with* Koyama, Kenji) A knowledge transfer model: from zero-knowledge toward full-knowledge. (English summary) (*see* **93j:68003**)
Tzeng, Wen-Guey *see* **Ko, Ker-I, 93h:68121**
Venkatesh, Santosh S. (*with* Baldi, Pierre) Programmed interactions in higher-order neural networks: the outer-product algorithm. **93a:68123**
Vidyasagar, M. An analysis of the equilibria of neural networks with linear interconnections. (English summary)
Wang, Paul P. *see* **Thint, Marcus P.; et al.**
Wang, Zhao Ming *see* **Liu, Jun; et al.**
Warmuth, Manfred K. *see* **Haussler, David; et al., 93b:68074** *and* **Helmbold, David; et al., 93d:68060**
Wu, Xin Dong Optimization problems in extension matrixes. (English summary)
York, Jeremy Use of the Gibbs sampler in expert systems.
— Addendum: "Use of the Gibbs sampler in expert systems" [Artificial Intelligence **56** (1992), no. 1, 115–130].
Yoshida, Toshinobu Rapid learning method for multilayered neural networks using two-dimensional conjugate gradient search. (English summary) **93e:68110**

Items with secondary classifications in 68T05

Achasova, S. M. ★ Вычисления на нейронных сетях. (Russian. English summary) [Computations on neural networks] **93i:92004**
Aibara, Tsunehiro *see* **Izumida, Masanori; et al., 93i:92006**
Apolloni, Bruno (*with* de Falco, Diego) Probabilistic aspects of machine learning. **93a:82045**
(Baum, Eric B.) *see* **Computational learning & cognition, 93m:68001**
Bilardi, Gianfranco *see* **Kapur, Shyam, 93i:68109**
Billings, S. A. *see* **Chen, Sheng[2], 93f:93013**
Bonopera, Alain (*with* Gaujal, Bruno) Inference of reversible languages. (English summary) **93j:68096**
Bramley, R. *see* **Saarinen, S.; et al.**
Bulsari, Abhay Training artificial neural networks for fuzzy logic. (English summary) **93m:92003**
Chen, Fu Chuang (*with* Khalil, Hassan K.) Adaptive control of nonlinear systems using neural networks. **93f:93074**
Chen, Sheng[2] (*with* Billings, S. A.) Neural networks for nonlinear dynamic system modelling and identification. (English summary) **93f:93013**
Chu, Yen Ping A neural-based Boolean function generator. (English summary) **93k:92001**
Coolen, A. C. C. (*with* Lenders, L. G. V. M.) Dual processes in neural network models. I. Neural dynamics versus dynamics of learning. **93f:82037a**
— (*with* Lenders, L. G. V. M.) Dual processes in neural network models. II. Analysis of zero-temperature fixed-point equations. **93f:82037b**
Cui, Xianzhong (*with* Shin, Kang G.) Design of a general purpose MIMO predictor with neural networks. (English summary) (*see* **93g:93004**)
Cybenko, G. *see* **Saarinen, S.; et al.**
Delgado, Miguel (*with* González Muñoz, Antonio) An inductive learning procedure to identify fuzzy systems. (English summary)
Diamond, Phil (*with* Fomenko, I. V.) Robustness of representations in multilayer feedforward neural networks. (English summary) **93m:41020**
Dong, Dawei W. (*with* Hopfield, John J.) Dynamic properties of neural networks with adapting synapses. (English summary) **93g:92003**
de Falco, Diego *see* **Apolloni, Bruno, 93a:82045**
Fomenko, I. V. *see* **Diamond, Phil, 93m:41020**
Fukuda, Toshio *see* **Watanabe, Keigo; et al., (93g:93004)**
Galushkin, A. I. (*with* Sudarikov, V. A.; Shabanov, E. V.) Neuromathematics: methods for solving problems on neurocomputers. (Russian. English summary) **93b:68020**
Gasarch, William I. (*with* Pleszkoch, Mark G.; Solovay, Robert) Learning via queries in [+, <]. **93j:03024**
Gaujal, Bruno *see* **Bonopera, Alain, 93j:68096**
Gawthrop, P. J. *see* **Hunt, K. J.; et al., 93i:93002** *and* **Sbarbaro, D.; et al., (93g:93004)**
Girosi, Federico Some extensions of radial basis functions and their applications in artificial intelligence. (English summary) **93j:65041**
Goles Ch., Eric (*with* Martínez, Servet A.) Automata networks and optimization. (English summary) **93f:92007**
Gol'tsev, A. D. ★ Нейроподобная сеть с ансамблевой организацией, предназначенная для текстурной сегментации изображений. (Russian. Russian summary) [A neural-like network with ensemble organization intended for texture segmentation of images]
González Muñoz, Antonio *see* **Delgado, Miguel**
Grujić, Ljubomir T. *see* **Guddanti, Suresh; et al., (93g:93004)** *and* **Michel, Anthony N., (93g:93004)**
Guddanti, Suresh (*with* Mounfield, William Pratt, Jr.; Grujić, Ljubomir T.) Stability of an asynchronous TMS neutral network. (English summary) (*see* **93g:93004**)
Hérault, Laurent (*with* Niez, Jean-Jacques) Neural networks & combinatorial optimization: a study of NP-complete graph problems. (English summary) (*see* **93i:68010**)
Hoffmann, Achim G. Connectionist functionality and the emergent network behavior. **93d:68036**
Hopfield, John J. *see* **Dong, Dawei W., 93g:92003**
Hunt, K. J. (*with* Sbarbaro, D.; Żbikowski, R.; Gawthrop, P. J.) Neural networks for control systems—a survey. (English summary) **93i:93002**
— *see also* **Sbarbaro, D.; et al., (93g:93004)**
Huntsberger, T. L. Data fusion: a neural networks implementation. (*see* **93g:68002**)
Ikai, T. *see* **Kawamura, Y., 93h:92006**
Ishibuchi, Hisao (*with* Tanaka, Hideo) Fuzzy regression analysis using neural networks. (English summary)
Ivanov, S. K. *see* **Zuev, Yu. A.**
Izumida, Masanori (*with* Murakami, Kenji; Aibara, Tsunehiro) Analysis of neural network energy functions using standard forms. (English summary) **93i:92006**
Jeffries, Clark ★ Code recognition and set selection with neural networks. **93i:68067**
Jordan, J. S. The exponential convergence of Bayesian learning in normal form games. **93f:90215**
Jordan, Michael I. Constrained supervised learning. (English summary) **93h:92046**
Kapur, Shyam (*with* Bilardi, Gianfranco) On uniform learnability of language families. **93i:68109**
Kawamura, Y. (*with* Ikai, T.) A relation between neural network learning and control theory. (English summary) **93h:92006**
Khalil, Hassan K. *see* **Chen, Fu Chuang, 93f:93074**
Kuznetsov, O. P. Holographic models of information processing in neural networks. (Russian)
Lamy, D. Modelling and sensitivity analysis of neural networks. (English summary) (*see* **93g:93004**)
Lenders, L. G. V. M. *see* **Coolen, A. C. C., 93f:82037a** *and* **93f:82037b**
Li, Ming[1] (*with* Vitányi, Paul M. B.) Inductive reasoning and Kolmogorov complexity. **93e:68039**
Martínez, Servet A. *see* **Goles Ch., Eric, 93f:92007**
Matsuoka, Kiyotoshi Absolute stability of neural networks. **93a:92001**
Michel, Anthony N. (*with* Grujić, Ljubomir T.) Modeling and qualitative analysis of continuous-time neural networks under pure structural variations. (English summary) (*see* **93g:93004**)
Morris, A. Julian *see* **Wang, Zhenni; et al., 93i:92008**
Mounfield, William Pratt, Jr. *see* **Guddanti, Suresh; et al., (93g:93004)**
Murakami, Kenji *see* **Izumida, Masanori; et al., 93i:92006**
Muselli, Marco (*with* Ridella, Sandro) Global optimization of functions with the interval genetic algorithm. **93f:90155**
von Neumann, John The cybernetical movement: von Neumann's letter to Norbert Wiener, 1946. **93k:01053**
Niez, Jean-Jacques *see* **Hérault, Laurent, (93i:68010)**
Osherson, Daniel N. (*with* Stob, Michael; Weinstein, Scott) A universal inductive inference machine. **93g:03025**
Pao, Yoh-Han (*with* Phillips, Stephen M.; Sobajic, Dejan J.) Neural-net computing and the intelligent control of systems. (English summary) **93h:93046**
Phillips, Stephen M. *see* **Pao, Yoh-Han; et al., 93h:93046**
Pleszkoch, Mark G. *see* **Gasarch, William I.; et al., 93j:03024**
Ridella, Sandro *see* **Muselli, Marco, 93f:90155**
Roque Da Silva Filho, Antônio C. Analysis of the equilibrium properties of a continuous neural network made of excitatory and inhibitory neurons. (English summary) **93j:92006**
Saarinen, S. (*with* Bramley, R.; Cybenko, G.) Ill-conditioning in neural network training problems. (English summary)
Salveter, Sharon *see* **Siegel, Michael; et al.**
Sbarbaro, D. (*with* Hunt, K. J.; Gawthrop, P. J.) Designing nonlinear controllers using connectionist networks. (English summary) (*see* **93g:93004**)
— *see also* **Hunt, K. J.; et al., 93i:93002**
Sciore, Edward *see* **Siegel, Michael; et al.**
Shabanov, E. V. *see* **Galushkin, A. I.; et al., 93b:68020**
Shin, Kang G. *see* **Cui, Xianzhong, (93g:93004)**
Siegel, Michael (*with* Sciore, Edward; Salveter, Sharon) A method for automatic rule derivation to support semantic query optimization. (English summary)
Sobajic, Dejan J. *see* **Pao, Yoh-Han; et al., 93h:93046**
Solovay, Robert *see* **Gasarch, William I.; et al., 93j:03024**
Sontag, Eduardo D. Feedforward nets for interpolation and classification. **93f:92009**
Stob, Michael *see* **Osherson, Daniel N.; et al., 93g:03025**
Sudarikov, V. A. *see* **Galushkin, A. I.; et al., 93b:68020**
Taborda Duarte, J. *see* **Vilela Mendes, R., 93b:92006**
Tan, Shao Hua (*with* Vandewalle, Joos) Principles of dynamical neural network structure and adaptive learning. **93b:92004**
Tanaka, Hideo *see* **Ishibuchi, Hisao**
Tham, Ming T. *see* **Wang, Zhenni; et al., 93i:92008**
Tzafestas, Spyros G. *see* **Watanabe, Keigo; et al., (93g:93004)**
Vandewalle, Joos *see* **Tan, Shao Hua, 93b:92004**
Venkatesh, Santosh S. Robustness in neural computation: random graphs and sparsity. **93e:92004**
Vidyasagar, M. Improved neural networks for analog-to-digital conversion. **93b:92005**
Vilela Mendes, R. (*with* Taborda Duarte, J.) Vector fields and neural networks. **93b:92006**
Vitányi, Paul M. B. *see* **Li, Ming[1], 93e:68039**
Vogt, H. (*with* Zippelius, A.) Invariant recognition in Potts glass neural networks. **93c:82044**
Wang, Zhenni (*with* Tham, Ming T.; Morris, A. Julian) Multilayer feedforward neural networks: a canonical form approximation of nonlinearity. (English summary) **93i:92008**
Watanabe, Keigo (*with* Fukuda, Toshio; Tzafestas, Spyros G.) An adaptive control for CARMA systems using linear neural networks. (English summary) (*see* **93g:93004**)
Weinstein, Scott *see* **Osherson, Daniel N.; et al., 93g:03025**
(Wiener, Norbert) *see* **von Neumann, John, 93k:01053**
Żbikowski, R. *see* **Hunt, K. J.; et al., 93i:93002**
Zippelius, A. *see* **Vogt, H., 93c:82044**
Zuev, Yu. A. (*with* Ivanov, S. K.) "Accelerated" perceptron and self-learning procedures in weighted voting. (Russian)

Items listed otherwise than by author

Computational learning & cognition ★ Computational learning & cognition. **93m:68001**
Correspondence:
von Neumann, John–Wiener, Norbert *see* **von Neumann, John, 93k:01053**
Princeton, NJ ★ Computational learning & cognition. **93m:68001**
Symposium:
Computational Learning and Cognition ★ Computational learning & cognition. **93m:68001**

68T10 Pattern recognition, speech recognition {For cluster analysis, see 62H30.}

Chang, S. C. *see* **Du, Min Wen**, **93f:68079**

Chatterji, B. N. *see* **Parthasarathy, Guturu**, **93g:68116**

Cheng, Li Jun (*with* Pan, Shen Tian) An optimal method for fuzzy cluster analysis. (Chinese. English and Chinese summaries)

Cherepnin, A. A. Estimates for the regularity of recognition and classification problems. (Russian. Russian summary)

Corazza, A. (*with* De Mori, R.; Satta, G.) Computation of upper-bounds for stochastic context-free languages. (English summary) (*see* **93j:68007**)

De Mori, R. *see* **Corazza, A.; et al.**, (**93j:68007**)

Du, Min Wen (*with* Chang, S. C.) A model and a fast algorithm for multiple errors spelling correction. **93f:68079**

Dumitrescu, D. (*with* Pop, H.) A preliminary bibliography on fuzzy clustering and related fields. (Romanian summary) **93m:68143**

Espino, V. *see* **de Korvin, A.; et al.**

Gafurov, D. Z. ★ Отделимость образов в пространстве объектов. (Russian. English summary) [Separability of images in an object space] **93i:68153**

Gaponenko, I. V. (*with* Muchnik, I. B.) Construction of decision rules in a pattern recognition problem using expect information. (Russian. Russian summary)

Guénoche, Alain Hiérarchies conceptuelles de données binaires. (English and French summaries) [Conceptual clustering of binary attributes]

Guo, Chun Biao *see* **Xie, Wei Xin; et al.**

Hadjitodorov, S. T. *see* **Kissiov, V. T.**

Hirota, Kaoru *see* **Pedrycz, Witold**, (**93c:90002**)

Hudak, Michael J. RCE classifiers: theory and practice. (English summary)

Ikeda, Katsuo *see* **Zhang, Hongbin; et al.**, **93j:68169**

Ikegami, Takashi (*with* Tsuda, Ichiro) Measuring complexity: a relative aspect of pattern recognition. **93b:68075**

Karnaukhov, V. M. (*with* Onishchenko, A. M.) Attribute selection from reference descriptions of normal three-dimensional sets. (Russian) **93c:68087**

Kissiov, V. T. (*with* Hadjitodorov, S. T.) A fuzzy version of the K-NN method. (English summary)

Klasa, S. L. Fourier fractals and shapes. **93a:68124**

Kleyle, R. *see* **de Korvin, A.; et al.**

de Korvin, A. (*with* Espino, V.; Kleyle, R.) Using multiple sources of information to recognize and classify objects. (English summary)

Krivosheev, O. V. An approach to the solution of pattern recognition problems based on a set of features of various types. (Russian. Russian summary) (*see* **93m:60009**)

Lim, H. *see* **Schneider, Moti; et al.**, **93g:68117**

Liu, Xiao Fan *see* **Xie, Wei Xin; et al.**

Lorents, A. Statistical properties of the integral standards method. (Russian. English, Russian and Latvian summaries) (*see* **93f:00009**)

Mazurov, Vl. D. Decomposition in committee pattern recognition constructions. (Russian. Russian summary) **93f:68080**

Mertzios, B. G. Shape discrimination and classification in robotic vision using scaled normalized central moments. (English summary) (*see* **93f:93005**)

Minoh, Michihiko *see* **Zhang, Hongbin; et al.**, **93j:68169**

Moons, Theo *see* **Van Gool, Luc; et al.**, **93i:68154**

Muchnik, I. B. *see* **Gaponenko, I. V.**

Mukhamedgaliev, A. F. Construction of compact subsets in problems on committee synthesis of taxonomy algorithms. (Russian) **93a:68125**

Onishchenko, A. M. *see* **Karnaukhov, V. M.**, **93c:68087**

Oosterlinck, André *see* **Van Gool, Luc; et al.**, **93i:68154**

Pan, Shen Tian *see* **Cheng, Li Jun**

Pardo Llorente, Julio Ángel (*with* Taneja, Inder Jeet) On the probability of error in fuzzy discrimination problems.

Parthasarathy, Guturu (*with* Chatterji, B. N.) A quadratic classifier for high-dimensional, periodic-measurement pattern-recognition problems. **93g:68116**

Pauwels, Eric *see* **Van Gool, Luc; et al.**, **93i:68154**

Pedrycz, Witold (*with* Hirota, Kaoru) Probabilistic sets in classification and pattern recognition. (*see* **93c:90002**)

Ponce de León Sentí, Eunice Effective formulas for the computation of $\Gamma_j(S)$ in the model of voting algorithms. (Spanish. English and Spanish summaries)

Pop, H. *see* **Dumitrescu, D.**, **93m:68143**

Satta, G. *see* **Corazza, A.; et al.**, (**93j:68007**)

Schneider, Moti (*with* Lim, H.; Shoaff, W.) The utilization of fuzzy sets in the recognition of imperfect strings. (English summary) **93g:68117**

Shoaff, W. *see* **Schneider, Moti; et al.**, **93g:68117**

Squillante, Massimo (*with* Ventre, Aldo G. S.) On the analytic setting of C-calculus. **93g:68118**

Taneja, Inder Jeet *see* **Pardo Llorente, Julio Ángel**

Tsuda, Ichiro *see* **Ikegami, Takashi**, **93b:68075**

Valev, Venceslav A method for the transformation of real training information into k-valued information in pattern recognition problems. (Russian. English and Russian summaries)

Van Gool, Luc (*with* Moons, Theo; Pauwels, Eric; Oosterlinck, André) Invariant based object recognition. (English summary) **93i:68154**

Vasil'ev, V. I. A man-machine system for the synthesis of spaces in the process of pattern recognition training. (Russian. Russian summary)

Ventre, Aldo G. S. *see* **Squillante, Massimo**, **93g:68118**

Xie, Wei Xin (*with* Guo, Chun Biao; Liu, Xiao Fan) A fuzzy region feature method in fuzzy pyramid data structures. (Chinese. English and Chinese summaries)

Yang, Miin Shen (*with* Yu, Kai Fun) On existence and strong consistency of a class of fuzzy c-means clustering procedures. (English summary)

Yu, Kai Fun *see* **Yang, Miin Shen**

Zhang, Hongbin (*with* Minoh, Michihiko; Ikeda, Katsuo) An efficient algorithm for point pattern matching using ordered lists. (English summary) **93j:68169**

Items with secondary classifications in 68T10

Agarwal, Pankaj K. (*with* Matoušek, Jiří) Relative neighborhood graphs in three dimensions. (English summary) **93i:68166**

Aleksanyan, A. A. ★ Дизъюнктивные нормальные формы над линейными функциями. (Russian) [Disjunctive normal forms over linear functions] **93h:06024**

Angluin, Dana *see* **Dean, Thomas; et al.**, (**93j:68007**)

Apostolico, Alberto Efficient CRCW-PRAM algorithms for universal substring searching. (English summary) **93m:68061**

Basye, Kenneth *see* **Dean, Thomas; et al.**, (**93j:68007**)

Bergen, James R. (*with* Shvaytser, Haim) A probabilistic algorithm for computing Hough transforms. **93e:65005**

Bonopera, Alain (*with* Gaujal, Bruno) Inference of reversible languages. (English summary) **93j:68096**

Bui, Tien Dai *see* **Li, Zi-Cai; et al.**, **93i:68188**

Burshtein, David (*with* Della Pietra, Vincent; Kanevsky, Dimitri; Nádas, Arthur) Minimum impurity partitions. (English summary) **93i:62054**

Dean, Thomas (*with* Angluin, Dana; Basye, Kenneth; et al.) Inferring finite automata with stochastic output functions and an application to map learning. (English summary) (*see* **93j:68007**)

Della Pietra, Vincent *see* **Burshtein, David; et al.**, **93i:62054**

Faragó, A. (*with* Linder, T.; Lugosi, Gábor) Nearest neighbor search and classification in $O(1)$ time. (Russian summary) **93a:68056**

Gaujal, Bruno *see* **Bonopera, Alain**, **93j:68096**

Gewali, Laxmi P. (*with* Keil, J. Mark; Ntafos, Simeon) On covering orthogonal polygons with star-shaped polygons. **93b:68021**

Gimel'farb, G. L. (*with* Zalesnyi, A. V.) ★ Цифровая обработка изображений, представленных моделями марковских случайных полей. (Russian. Russian summary) [Digital processing of images that are represented by Markov random field models] **93g:68147**

Gol'tsev, A. D. Structured neural-like network with training intended for texture image segmentation. (Russian. English and Ukrainian summaries)

Hall, Richard W. Tests for connectivity preservation for parallel reduction operators. (English summary) **93m:68183**

Kanevsky, Dimitri *see* **Burshtein, David; et al.**, **93i:62054**

Keil, J. Mark *see* **Gewali, Laxmi P.; et al.**, **93b:68021**

Kolountzakis, Mihail N. (*with* Kutulakos, Kiriakos N.) Fast computation of the Euclidean distance maps for binary images. (English summary) **93g:68140**

Kuncheva, Ludmila Ilieva Fuzzy rough sets: application to feature selection. (English summary) **93h:04003**

Kutulakos, Kiriakos N. *see* **Kolountzakis, Mihail N.**, **93g:68140**

Lee, Ho Soo (*with* Schor, Marshall I.) Match algorithms for generalized Rete networks. **93e:68088**

Li, Zi-Cai (*with* Bui, Tien Dai; Tang, Yuan Yan; Suen, Ching Yun) ★ Computer transformation of digital images and patterns. **93i:68188**

Linder, T. *see* **Faragó, A.; et al.**, **93a:68056**

Lugosi, Gábor *see* **Faragó, A.; et al.**, **93a:68056**

Matoušek, Jiří *see* **Agarwal, Pankaj K.**, **93i:68166**

Nádas, Arthur *see* **Burshtein, David; et al.**, **93i:62054**

Ntafos, Simeon *see* **Gewali, Laxmi P.; et al.**, **93b:68021**

Pong, Simon W. L. (*with* Venetsanopoulos, Anastasios N.) Rotationally invariant pecstrum: a rotationally invariant object descriptor based on mathematical morphology. (English summary)

Ramakrishnan, I. V. *see* **Verma, Rakesh M.**, **93h:68062**

Rodenacker, Karsten Applications of topology for evaluating pictorial structures. (English summary) **93k:68110**

Šćepanović, Radoje On the linear complexity of the recognition of a class of patterns. (Russian) (*see* **93m:00021**)

Schor, Marshall I. *see* **Lee, Ho Soo**, **93e:68088**

Seifert, Benedict G. Binary classifiers, perceptrons and connectedness in metric spaces and graphs. (English summary) **93k:92004**

Shvaytser, Haim *see* **Bergen, James R.**, **93e:65005**

Stahs, Thomas (*with* Wahl, Friedrich) Recognition of polyhedral objects under perspective views. (English summary) **93g:68145**

Suen, Ching Yun *see* **Li, Zi-Cai; et al.**, **93i:68188**

Tang, Yuan Yan *see* **Li, Zi-Cai; et al.**, **93i:68188**

Venetsanopoulos, Anastasios N. *see* **Pong, Simon W. L.**

Verma, Rakesh M. (*with* Ramakrishnan, I. V.) Tight complexity bounds for term matching problems. (English summary) **93h:68062**

Voronin, Yu. A. ★ Начала теории сходства. (Russian) [Elements of similarity theory] **93c:00005**

Wahl, Friedrich *see* **Stahs, Thomas**, **93g:68145**

Zalesnyi, A. V. *see* **Gimel'farb, G. L.**, **93g:68147**

68T15 Theorem proving [see also 03B35]

Adi, Mohamed (*with* Kirchner, Claude) AC-unification race: the system solving approach, implementation and benchmarks. (English summary) **93j:68170**

Aiello, William (*with* Håstad, Johan) Relativized perfect zero knowledge is not BPP. **93b:68076**

(Aigner, Martin) *see* **Eusterbrock, Jutta**, **93m:68145**

Avron, Arnon (*with* Honsell, Furio; Mason, Ian A.; Pollack, Robert) Using typed lambda calculus to implement formal systems on a machine. (English summary) **93j:68171**

Bachmair, Leo ★ Canonical equational proofs. **93e:68111**

Barker-Plummer, Dave Gazing: an approach to the problem of definition and lemma use. **93k:68086**

Benanav, Dan Recognizing unnecessary clauses in resolution based systems. (English summary) **93g:68119**

Boyar, Joan (*with* Friedl, Katalin; Lund, Carsten) Practical zero-knowledge proofs: giving hints and using deficiencies. (English summary) **93m:68144**

Boy de la Tour, Thierry An optimality result for clause form translation. (English summary) **93j:68172**
Boyle, James M. *see* **Wos, Larry; et al., 93a:68129**
Cho, Jung Wan *see* **Kim, Byeong Man; et al., 93j:68177** *and* **93j:68178**
Christian, Jim Flatterms, discrimination nets, and fast term rewriting. (English summary)
Coldwell, Jo *see* **Wrightson, Graham**
Despeyroux, Joëlle Theo: an interactive proof development system. (English summary) **93j:68173**
Domenjoud, Eric A technical note on AC-unification. The number of minimal unifiers of the equation $\alpha x_1 + \cdots + \alpha x_p \doteq_{AC} \beta y_1 + \cdots + \beta y_q$. **93a:68126**
Dougherty, Daniel J. (*with* Johann, Patricia) An improved general *E*-unification method. (English summary) **93i:68155**
Dubois, Didier (*with* Lang, Jérôme; Prade, Henri) Advances in automated reasoning using possibilistic logic. (*see* **93g:68133**)
Eusterbrock, Jutta Errata to: "Selecting the top three elements" [Discrete Appl. Math. **4** (1982), no. 4, 247–267; MR 83k:68023] by M. Aigner: a result of a computer-assisted proof search. (English summary) **93m:68145**
Feige, Uriel (*with* Shamir, Adi) Multi-oracle interactive protocols with constant space verifiers. **93j:68174**
Fermüller, Christian Deciding some Horn clause sets by resolution. **93c:68088**
Fouks, Jean-Denis Tseitin's formulas revisited. **93m:68146**
Friedl, Katalin *see* **Boyar, Joan; et al., 93m:68144**
Ganzinger, Harald (*with* Stuber, Jürgen) Inductive theorem proving by consistency for first-order clauses. (English summary) **93m:68147**
Geddis, Donald F. *see* **Ginsberg, Matthew L., (93i:68011)**
Ginsberg, Matthew L. (*with* Geddis, Donald F.) Is there any need for domain-dependent control information? (*see* **93i:68011**)
Givan, Robert *see* **McAllester, David A., 93j:68179**
Goerdt, Andreas Unrestricted resolution versus *N*-resolution. **93c:68089**
Goguen, Joseph A. (*with* Stevens, Andrew; Hilberdink, Hendrik; Hobley, Keith) 2OBJ: a metalogical framework theorem prover based on equational logic. (English summary)
Gupta, Naresh (*with* Nau, Dana S.) Complexity results for blocks-world planning. (English summary) **93j:68175**
Hall, Robert J. Comparing parameter schemes for propositional reasoning: an empirical study. **93f:68081**
Hanna, F. K. *see* **Ritchie, G. D., (93b:68073)**
Håstad, Johan *see* **Aiello, William, 93b:68076**
Hilberdink, Hendrik *see* **Goguen, Joseph A.; et al.**
Hines, Larry M. Completeness of a prover for dense linear orders. **93e:68112**
Hobley, Keith *see* **Goguen, Joseph A.; et al.**
Honsell, Furio *see* **Avron, Arnon; et al., 93j:68171**
Hooker, J. N. Solving the incremental satisfiability problem. (English summary) **93h:68122**
Hsiang, Jieh (*with* Kirchner, Hélène; Lescanne, Pierre; Rusinowitch, Michael) The term rewriting approach to automated theorem proving. (English summary) **93m:68148**
Hu, Yun Fa A goal-type driven method of solving Horn logic with equality. **93e:68113**
Inoue, Katsumi *see* **Ohta, Yoshihiko, (93i:68007)**
Johann, Patricia *see* **Dougherty, Daniel J., 93i:68155**
Kapur, Deepak (*with* Narendran, Paliath) Complexity of unification problems with associative-commutative operators. (English summary) **93h:68123**
Kaufmann, Matt An extension of the Boyer-Moore theorem prover to support first-order quantification. (English summary) **93j:68176**
Kim, Byeong Man (*with* Lee, Sang-Ho; Maeng, Seung Ryoul; Cho, Jung Wan) A new algorithm for subsumption test. (English summary) **93j:68177**
— (*with* Cho, Jung Wan) A new subsumption method in the connection graph proof procedure. (English summary) **93j:68178**
Kirchner, Claude *see* **Adi, Mohamed, 93j:68170**
Kirchner, Hélène *see* **Hsiang, Jieh; et al., 93m:68148**
Lai, Michael *see* **Martin, Ursula, 93e:68114**
Lang, Jérôme *see* **Dubois, Didier; et al., (93g:68133)**
Lee, Sang-Ho *see* **Kim, Byeong Man; et al., 93j:68177**
Lee, Shie-Jue (*with* Plaisted, David A.) Eliminating duplication with the hyper-linking strategy. (English summary) **93g:68120**
Lescanne, Pierre *see* **Hsiang, Jieh; et al., 93m:68148**
Li, Chuan Zhong *see* **Yang, Lu; et al., 93j:68181**
Lund, Carsten *see* **Boyar, Joan; et al., 93m:68144**
Lusk, Ewing *see* **Wos, Larry; et al., 93a:68129**
Maeng, Seung Ryoul *see* **Kim, Byeong Man; et al., 93j:68177**
Manna, Zohar (*with* Stickel, Mark E.; Waldinger, Richard) Monotonicity properties in automated deduction. **93a:68127**
Martin, Ursula (*with* Lai, Michael) Some experiments with a completion theorem prover. **93e:68114**
Mason, Ian A. *see* **Avron, Arnon; et al., 93j:68171**
McAllester, David A. (*with* Givan, Robert) Natural language syntax and first-order inference. **93j:68179**
McCune, William W. Experiments with discrimination-tree indexing and path indexing for term retrieval. (English summary) **93h:68124**
McMichael, Alan F. Mechanization of analytic reasoning about sets. (English summary) **93m:68149**
Miller, Dale A. Unification under a mixed prefix. (English summary) **93g:68121**
Narendran, Paliath *see* **Kapur, Deepak, 93h:68123**
Nau, Dana S. *see* **Gupta, Naresh, 93j:68175**
Nie, Xumin (*with* Plaisted, David A.) A semantic backward chaining proof system. **93b:68077**
Nipkow, Tobias Combining matching algorithms: the regular case. **93a:68128**
Nutt, Werner The unification hierarchy is undecidable. **93g:68122**
Ohta, Yoshihiko (*with* Inoue, Katsumi) A forward-chaining hypothetical reasoner based on upside-down meta-interpretation. (English summary) (*see* **93i:68007**)
Overbeek, Ross *see* **Wos, Larry; et al., 93a:68129**
Petermann, Uwe How to build in an open theory into connection calculi. (English summary) **93i:68156**
Plaisted, David A. *see* **Nie, Xumin, 93b:68077** *and* **Lee, Shie-Jue, 93g:68120**
Pollack, Robert *see* **Avron, Arnon; et al., 93j:68171**
Prade, Henri *see* **Dubois, Didier; et al., (93g:68133)**
Protsenko, V. S. (*with* Yurchishin, V. V.) Specification of a method for modifying refutation search trees by means of VDM. (Russian. English summary)
Ritchie, G. D. (*with* Hanna, F. K.) AM: a case study in AI methodology. (*see* **93b:68073**)
Rusinowitch, Michael *see* **Hsiang, Jieh; et al., 93m:68148**
Russinoff, David M. A mechanical proof of quadratic reciprocity. **93b:68078**
Shamir, Adi *see* **Feige, Uriel, 93j:68174**
Socher, Rolf How to avoid the derivation of redundant clauses in reasoning systems. (English summary) **93g:68123**
Stachniak, Zbigniew Resolution approximation of first-order logics. **93c:68090**
Stevens, Andrew *see* **Goguen, Joseph A.; et al.**
Stickel, Mark E. A Prolog technology theorem prover: a new exposition and implementation in Prolog. (English summary) **93j:68180**
— *see also* **Manna, Zohar; et al., 93a:68127**
Stuber, Jürgen *see* **Ganzinger, Harald, 93m:68147**
Waldinger, Richard *see* **Manna, Zohar; et al., 93a:68127**
Weyhrauch, Richard W. Prolegomena to a theory of mechanized formal reasoning. (*see* **93b:68073**)
Wos, Larry (*with* Overbeek, Ross; Lusk, Ewing; Boyle, James M.) ★ Automated reasoning. **93a:68129**
— The problem of reasoning from inequalities.
— The problem of demodulation during inference rule application. (English summary)
— The problem of demodulator adjunction. (English summary)
— The problem of demodulating across argument and literal boundaries. (English summary)
— The problem of selecting an approach based on prior success. (English summary)
Wrightson, Graham (*with* Coldwell, Jo) A truncation technique for clausal analytic tableaux.
Wu, Wen Jun Equations-solving and theorems-proving zero-set formulation and ideal formulation. (*see* **93b:00022**)
Yang, Lu (*with* Zhang, Jing Zhong; Li, Chuan Zhong) ★ A prover for parallel numerical verification of a class of constructive geometry theorems. **93j:68181**
Yurchishin, V. V. *see* **Protsenko, V. S.**
Zhang, Jing Zhong *see* **Yang, Lu; et al., 93j:68181**

Items with secondary classifications in 68T15

Auffray, Yves (*with* Enjalbert, Patrice) Modal theorem proving: an equational viewpoint. (English summary) **93i:03016**
Baaz, Matthias Automatisches Beweisen für endlichwertige Logiken. (English summary) [Automatic theorem proving for finite-valued logics] **93k:03024**
Bachmair, Leo Associative-commutative reduction orderings. (English summary) **93i:68103**
Bittel, Oliver ★ Ein tableaubasierter Theorembeweiser für die intuitionistische Logik. (German) [A tableau-based theorem prover for intuitionistic logic] **93h:03013**
Blum, Manuel (*with* De Santis, Alfredo; Micali, Silvio; Persiano, Giuseppe) Noninteractive zero-knowledge. **93c:68028**
Brumfitt, P. J. MetaMorph—a formal methods toolkit with application to the design of digital hardware. (English summary) **93j:68025**
Bugrara, Khaled M. (*with* Purdom, Paul Walton, Jr.) Average time analysis of clause order backtracking. (English summary) **93m:68068**
Burris, Stanley Discriminator varieties and symbolic computation. **93e:68044**
Burstall, Rod M. *see* **Goguen, Joseph A., 93h:03056**
Catach, Laurent TABLEAUX: a general theorem prover for modal logics. **93d:03020**
Cialdea, Marta Resolution for some first-order modal systems. **93e:03018**
Davis, Martin (*with* Fechter, Ronald) A free variable version of the first-order predicate calculus. **93i:03009**
Delcher, Arthur L. (*with* Kasif, Simon) Efficient parallel term matching and anti-unification. (English summary) **93m:68064**
De Santis, Alfredo *see* **Blum, Manuel; et al., 93c:68028**
Dietrich, Roland ★ Vergleichende Analyse von Inferenzsystemen. (German) [Comparative analysis of inference systems] **93g:03009**
Domenjoud, Eric AC unification through order-sorted ACI unification. (English summary) **93m:68091**
Eder, Elmar ★ Relative complexities of first order calculi. **93f:03007**
Edwald, Tryggvi The *t*-variable method in Gentzen-style automatic theorem proving. **93a:03011**
Enjalbert, Patrice *see* **Auffray, Yves, 93i:03016**
Fechter, Ronald *see* **Davis, Martin, 93i:03009**
Fitting, Melvin C. Destructive modal resolution. **93e:03024**
Franco, John On the occurrence of null clauses in random instances of satisfiability. (English summary) **93m:68074**
Gallier, Jean H. (*with* Narendran, Paliath; Raatz, Stan; Snyder, Wayne) Theorem proving using equational matings and rigid *E*-unification. **93a:03012**
Gao, Xiao Shan Transformation theorems among Cayley-Klein geometries. (English summary) **93j:51018**
Goguen, Joseph A. (*with* Burstall, Rod M.) Institutions: abstract model theory for specification and programming. **93h:03056**
(Goos, Gerhard) *see* **Dietrich, Roland, 93g:03009**
Hein, James Completions of perpetual logic programs. **93c:68013**
Hou, Xiao Rong *see* **Zhang, Jing Zhong; et al., (93b:00022)**
(Jähnichen, Stefan) *see* **Bittel, Oliver, 93h:03013**
Kamareddine, Fairouz A system at the cross-roads of functional and logic programming. (English summary) **93k:68064**
Kasif, Simon *see* **Delcher, Arthur L., 93m:68064**
Kuper, G. M. (*with* McAloon, K. W.; Palem, K. V.; Perry, K. J.) A note on the parallel complexity of anti-unification. (English summary) **93m:68081**
Lescanne, Pierre Well rewrite orderings and well quasi-orderings. (English summary) **93k:68053**
Ligęza, Antoni Extensible frame logic. A modification of first order logic incorporating variable arity terms. (English summary)

McAloon, K. W. *see* **Kuper, G. M.; et al., 93m:68081**
McCune, William W. (*with* Wos, Larry) The absence and the presence of fixed point combinators. **93a:03014**
— Automated discovery of new axiomatizations of the left group and right group calculi. (English summary)
Micali, Silvio *see* **Blum, Manuel; et al., 93c:68028**
Miller, Dale A. *see* **Nadathur, Gopalan, 93h:68020**
Nadathur, Gopalan (*with* Miller, Dale A.) Higher-order Horn clauses. **93h:68020**
Narendran, Paliath *see* **Gallier, Jean H.; et al., 93a:03012**
Noel, P. A. J. Experimenting with Isabelle in ZF set theory. (English summary) **93m:03019**
O'Hearn, Peter W. (*with* Stachniak, Zbigniew) A resolution framework for finitely-valued first-order logics. **93e:03013**
Ohlbach, H. J. Semantics-based translation methods for modal logics. **93d:03026**
Oshiba, Takeshi Syllogism in automatic theorem proving. (Japanese. English summary) **93d:03021**
Palem, K. V. *see* **Kuper, G. M.; et al., 93m:68081**
Parigot, Michel Recursive programming with proofs. **93g:68088**
Perry, K. J. *see* **Kuper, G. M.; et al., 93m:68081**
Persiano, Giuseppe *see* **Blum, Manuel; et al., 93c:68028**
Purdom, Paul Walton, Jr. *see* **Bugrara, Khaled M., 93m:68068**
Raatz, Stan *see* **Gallier, Jean H.; et al., 93a:03012**
Robinson, Peter J. Soundness of opening schemes for window inference. (English summary) **93j:68136**
Shepherdson, J. C. Mints type deductive calculi for logic programming. **93f:03019**
Shimony, Solomon E. Explanation, irrelevance and statistical independence. (English summary) (*see* **93i:68011**)
Snyder, Wayne ★ A proof theory for general unification. **93g:03011**
— *see also* **Gallier, Jean H.; et al., 93a:03012**
Stachniak, Zbigniew *see* **O'Hearn, Peter W., 93e:03013**
Stärk, Robert F. A complete axiomatization of the three-valued completion of logic programs. **93i:68041**
Strzemecki, Tadeusz Polynomial-time algorithms for generation of prime implicants. **93e:68028**
Wos, Larry *see* **McCune, William W., 93a:03014**
Yang, Lu *see* **Zhang, Jing Zhong; et al., (93b:00022)**
Yu, Xiang Dong Some hard examples for the resolution method. **93c:03014**
Zhang, Jing Zhong (*with* Yang, Lu; Hou, Xiao Rong) A criterion for dependency of algebraic equations and its application to automated theorem proving. (*see* **93b:00022**)
Zhang, Wenhui Cut elimination and automatic proof procedures. **93a:03064**

68T20 Problem solving

Baum, Eric B. On optimal game tree propagation for imperfect players. (English summary) (*see* **93j:68007**)
van Beek, Peter On the minimality and decomposability of constraint networks. (English summary) (*see* **93j:68007**)
Bylander, Tom The qualitative difference resolution rule. (English summary) **93m:68150**
Cooper, Paul R. (*with* Swain, Michael J.) Arc consistency: parallelism and domain dependence. (English summary) **93i:68157**
Dalal, Mukesh Efficient propositional constraint propagation. (English summary) (*see* **93j:68007**)
Daun, Brian *see* **Zweben, Monte; et al., 93i:68159**
Davis, Eugene *see* **Zweben, Monte; et al., 93i:68159**
Deale, Michael *see* **Zweben, Monte; et al., 93i:68159**
Deville, Yves *see* **Van Hentenryck, Pascal; et al., 93h:68126**
Dincbas, Mehmet *see* **Van Hentenryck, Pascal; et al., 93i:68158**
Drascher, Ellen *see* **Zweben, Monte; et al., 93i:68159**
Eskey, Megan *see* **Zweben, Monte; et al., 93i:68159**
Faltings, Boi A symbolic approach to qualitative kinematics. (English summary) **93g:68124**
Foulser, David E. (*with* Li, Ming[1]; Yang, Qiang) Theory and algorithms for plan merging. (English summary) **93e:68115**
Ghosh, Subrata *see* **Mahanti, Ambuj; et al., (93j:68007)**
Johnston, Mark D. *see* **Minton, Steven; et al.**
Kanal, Laveen N. *see* **Mahanti, Ambuj; et al., (93j:68007)**
Kur'erov, Yu. N. On an estimate for the length of a random deduction search tree in multimessage calculi of general type. (Russian. English and Ukrainian summaries) **93h:68125**
Laird, Philip *see* **Minton, Steven; et al.**
Li, Ming[1] *see* **Foulser, David E.; et al., 93e:68115**
Mahanti, Ambuj (*with* Ghosh, Subrata; Nau, Dana S.; Pal, Asim K.; Kanal, Laveen N.) Performance of IDA* on trees and graphs. (English summary) (*see* **93j:68007**)
Minton, Steven (*with* Johnston, Mark D.; Philips, Andrew B.; Laird, Philip) Minimizing conflicts: a heuristic repair method for constraint satisfaction and scheduling problems. (English summary)
Morris, Paul On the density of solutions in equilibrium points for the queens problems. (English summary) **93j:68182**
Nau, Dana S. *see* **Mahanti, Ambuj; et al., (93j:68007)**
Pal, Asim K. *see* **Mahanti, Ambuj; et al., (93j:68007)**
Pearl, Judea ★ Heuristique. (French) [Heuristics] **93c:68091**
Philips, Andrew B. *see* **Minton, Steven; et al.**
Schaefer, Philip Analytic solution of qualitative differential equations. (English summary) **93m:68151**
Simonis, Helmut *see* **Van Hentenryck, Pascal; et al., 93i:68158**
Swain, Michael J. *see* **Cooper, Paul R., 93i:68157**
Teng, Choh-Man *see* **Van Hentenryck, Pascal; et al., 93h:68126**
Van Hentenryck, Pascal (*with* Deville, Yves; Teng, Choh-Man) A generic arc-consistency algorithm and its specializations. (English summary) **93h:68126**
— (*with* Simonis, Helmut; Dincbas, Mehmet) Constraint satisfaction using constraint logic programming. (English summary) **93i:68158**
Yang, Qiang A theory of conflict resolution in planning. (English summary)
— *see also* **Foulser, David E.; et al., 93e:68115**
Zhang, Bo[2] (*with* Zhang, Ling[1]) Why SA can beat the exponential explosion in heuristic search.
Zhang, Ling[1] *see* **Zhang, Bo[2]**
Zweben, Monte (*with* Davis, Eugene; Daun, Brian; Drascher, Ellen; Deale, Michael; Eskey, Megan) Learning to improve constraint-based scheduling. (English summary) **93i:68159**

Items with secondary classifications in 68T20

van Beek, Peter Reasoning about qualitative temporal information. (English summary) **93j:68185**
Bouchon, Bernadette Questionnaires with fuzzy and probabilistic elements. (*see* **93c:90002**)
Bruss, F. Thomas Optimal selection, learning and machine implementation. **93f:60056**
Chakrabarti, P. P. (*with* Ghose, S.) A general best first search algorithm in AND/OR graphs. **93i:68084**
Collins, George E. (*with* Hong, Hoon) Partial cylindrical algebraic decomposition for quantifier elimination. **93b:03015**
Gammerman, A. J. The representation and manipulation of the algorithmic probability measure for problem solving. **93a:68062**
Geffner, Hector ★ Default reasoning. **93e:68126**
Ghose, S. *see* **Chakrabarti, P. P., 93i:68084**
Greiner, Russell (*with* Jurišica, Igor) A statistical approach to solving the EBL utility problem. (English summary) (*see* **93j:68007**)
Hanna, F. K. *see* **Ritchie, G. D., (93b:68073)**
Hong, Hoon *see* **Collins, George E., 93b:03015**
Jurišica, Igor *see* **Greiner, Russell, (93j:68007)**
Kramer, Glenn A. A geometric constraint engine. (English summary) **93i:68178**
Křivánek, Mirko Algorithmic and geometric aspects of cluster analysis. **93e:65022**
Muselli, Marco (*with* Ridella, Sandro) Global optimization of functions with the interval genetic algorithm. **93f:90155**
Panti, Giovanni Solution of a number-theoretic problem involving knowledge. **93e:03032**
Ridella, Sandro *see* **Muselli, Marco, 93f:90155**
Ritchie, G. D. (*with* Hanna, F. K.) AM: a case study in AI methodology. (*see* **93b:68073**)
Skowron, Andrzej (*with* Stepaniuk, Jarosław) Towards an approximation theory of discrete problems. I. **93e:68121**
Stepaniuk, Jarosław *see* **Skowron, Andrzej, 93e:68121**
Vityaev, E. E. Discovering regularities (methodology, method, the program system SINTEZ). I. Methodology. (Russian. Russian summary) **93m:92028**
Wu, Xin Dong Optimization problems in extension matrixes. (English summary)

68T25 AI languages

Inuzuka, Nobuhiro (*with* Takahashi, Ken-ichi; Ishii, Naohiro) Representative sample of LISP program inference from examples. (English summary) **93j:68183**
Ishii, Naohiro *see* **Inuzuka, Nobuhiro; et al., 93j:68183**
Lassez, Jean-Louis (*with* McAloon, K. W.) A canonical form for generalized linear constraints. **93f:68082**
Lobo, Jorge (*with* Minker, Jack; Rajasekar, Arcot) ★ Foundations of disjunctive logic programming. **93i:68160**
McAloon, K. W. *see* **Lassez, Jean-Louis, 93f:68082**
Minker, Jack *see* **Lobo, Jorge; et al., 93i:68160**
Orgun, Mehmet A. (*with* Wadge, William W.) Towards a unified theory of intensional logic programming. (English summary) **93m:68152**
Rajasekar, Arcot *see* **Lobo, Jorge; et al., 93i:68160**
Takahashi, Ken-ichi *see* **Inuzuka, Nobuhiro; et al., 93j:68183**
Wadge, William W. *see* **Orgun, Mehmet A., 93m:68152**

Items with secondary classifications in 68T25

Atanassov, Krassimir T. (*with* Georgiev, Christo) Intuitionistic fuzzy Prolog. (English summary)
Bezem, Marc Strong termination of logic programs. (English summary) **93h:68017**
Dalal, Mukesh (*with* Etherington, David W.) A hierarchy of tractable satisfiability problems. (English summary) **93m:03069**
Dong, Guozhu On datalog linearization of chain queries. **93h:68032**
Erol, Kutluhan (*with* Nau, Dana S.; Subrahmanian, V. S.) On the complexity of domain-independent planning. (English summary) (*see* **93j:68007**)
Etherington, David W. *see* **Dalal, Mukesh, 93m:03069**
Georgiev, Christo *see* **Atanassov, Krassimir T.**
Hein, James Completions of perpetual logic programs. **93c:68013**
Hirsch, Michael D. Lower bounds for the nonlinear complexity of algebraic computation trees with integer inputs. **93e:68026**
Hull, Richard B. (*with* Yoshikawa, Masatoshi) Object identity and query equivalence [equivalences]. **93f:68051**
Marek, Wiktor (*with* Subrahmanian, V. S.) The relationship between stable, supported, default and autoepistemic semantics for general logic programs. (English summary) **93j:68031**
Nau, Dana S. *see* **Erol, Kutluhan; et al., (93j:68007)**
Shepherdson, J. C. Mints type deductive calculi for logic programming. **93f:03019**
Subrahmanian, V. S. *see* **Marek, Wiktor, 93j:68031** *and* **Erol, Kutluhan; et al., (93j:68007)**
Yoshikawa, Masatoshi *see* **Hull, Richard B., 93f:68051**

68T27 AI logics

An, Zhi (*with* Bell, David Andrew; Hughes, J. G.) Relation-based evidential reasoning. (English summary)
Arikawa, Setsuo *see* **Shi, Yihua, 93c:68095**
Babaguchi, Noboru (*with* Moriuma, Jun-ichi; Tezuka, Yoshikazu) An algorithm for constructing extensions of propositional autoepistemic logic. (English summary) **93e:68116**
Bacchus, Fahiem On probability distributions over possible worlds. **93e:68117**
— Default reasoning from statistics. (English summary) **93j:68184**

Bäckström, Christer *see* **Nebel, Bernhard**, (93j:68007)
Bahler, Dennis *see* **Bowen, James**, **93j:68188** *and* **93j:68189**
Bardin, M. D. Construction of logical calculi with short deductions. (Russian. English summary) **93c:68092**
van Beek, Peter Reasoning about qualitative temporal information. (English summary) **93j:68185**
Bell, David Andrew *see* **An, Zhi; et al.**
Bellia, Marco (*with* Occhiuto, M. Eugenia) c-expressions: a variable-free calculus for equational logic programming. (English summary) **93k:68087**
Ben-Eliyahu, Rachel (*with* Dechter, Rina) Default logic, propositional logic and constraints. (English summary) **93j:68186**
deBessonet, Cary G. ★ A many-valued approach to deduction and reasoning for artificial intelligence. **93c:68093**
Bhatnagar, Raj K. (*with* Kanal, Laveen N.) Reasoning by hypothesizing causal models. (English summary) (*see* **93f:68004**)
(Bibel, W.) *see* **Brewka, Gerhard**, **93b:68079**
(Blåsius, Karl-Hans) *see* **Deduction systems in artificial intelligence**, **93f:68085**
Bonissone, Piero P. *see* **Dutta, Soumitra**
Borgida, Alex *see* **Cohen, William W.; et al.**, **93j:68190**
Bouchaffra, D. Theory and algorithms for analysing the consistent region in probabilistic logic. (English summary) **93i:68161**
Boutilier, Craig A logic for revision and subjunctive queries. (English summary) **93j:68187**
Bowen, James (*with* Bahler, Dennis) Conditional existence of variables in generalized constraint networks. (English summary) **93j:68188**
— (*with* Lai, Robert; Bahler, Dennis) Lexical imprecision in fuzzy constraint networks. (English summary) **93j:68189**
Brewka, Gerhard ★ Nonmonotonic reasoning: logical foundations of commonsense. **93b:68079**
— Cumulative default logic: in defense of nonmonotonic inference rules. **93e:68118**
(Bürckert, Hans-Jürgen) *see* **Deduction systems in artificial intelligence**, **93f:68085**
Cadoli, Marco (*with* Eiter, Thomas; Gottlob, Georg) An efficient method for eliminating varying predicates from a circumscription. **93g:68125**
Caines, Peter E. *see* **Wang, Suning**, (**93a:93005**)
Chang, Chin Fu *see* **Chen, Shyi Ming; et al.**, **93a:68130** *and* **93h:68128**
Charniak, Eugene (*with* Husain, Saadia) A new admissible heuristic for minimal-cost proofs. (English summary) **93m:68153**
Chen, Shyi Ming A new approach to inexact reasoning for rule-based systems. (English summary) **93h:68127**
— (*with* Ke, Jyh Sheng; Chang, Chin Fu) Fuzzy reasoning based on fuzzy Petri nets. **93h:68128**
— (*with* Ke, Jyh Sheng; Chang, Chin Fu) An inexact reasoning algorithm based on fuzzy rule matrix transformations. **93a:68130**
Chen, Yong Yi Approximate reasoning using the implication of standard sequence logic. (Chinese. English and Chinese summaries) **93m:68154**
Chen, Yuan Yan Belief logic systems. (English summary) (*see* **93f:68004**)
Cohen, William W. (*with* Borgida, Alex; Hirsh, Haym) Computing least common subsumers in description logics. (English summary) **93j:68190**
Console, Luca (*with* Theseider Dupre, Daniele; Torasso, Pietro) On the relationship between abduction and deduction. **93a:68131**
Dechter, Rina *see* **Ben-Eliyahu, Rachel**, **93j:68186**
Delgrande, James P. Incorporating nonmonotonic reasoning in Horn clause theories. (English summary) (*see* **93i:68011**)
Devlin, Keith ★ Logic and information. **93c:68094**
Dorn, Jürgen Temporal reasoning in sequence graphs. (English summary) (*see* **93j:68007**)
Doyle, Jon Reason maintenance and belief revision: foundations vs. coherence theories. (*see* **93g:68131**)
Dubois, Didier (*with* Prade, Henri) Belief change and possibility theory. (*see* **93g:68131**)
— (*with* Prade, Henri) Gradual inference rules in approximate reasoning. **93a:68132**
Dutta, Soumitra (*with* Bonissone, Piero P.) Integrating case- and rule-based reasoning. (English summary)
Eiter, Thomas *see* **Cadoli, Marco; et al.**, **93g:68125**
Elgot-Drapkin, Jennifer J. Step-logic and the three-wise-men problem. (English summary) (*see* **93i:68011**)
Fan, Zhong Chun (*with* Xing, Han Cheng) DKLFRS: a default knowledge logical framework representation system.
Freuder, Eugene C. (*with* Wallace, Richard J.) Partial constraint satisfaction. (English summary)
Fringuelli, Bruno (*with* Marcugini, Stefano; Milani, Alfredo; Rivoira, Silvano) FTMS: a fuzzy truth maintenance system. (English summary) **93g:68126**
Girard, Jean-Yves Logic and exceptions: a few remarks. **93i:68162**
Goldszmidt, Moisés (*with* Pearl, Judea) System-Z^+: a formalism for reasoning with variable-strength defaults. (English summary) (*see* **93i:68011**)
Golumbic, Martin Charles (*with* Shamir, Ron) Algorithms and complexity for reasoning about time. (English summary) **93j:68191**
Goodman, Irwin R. Algebraic and probabilistic bases for fuzzy sets and the development of fuzzy conditioning. **93e:68119**
Gottlob, Georg *see* **Cadoli, Marco; et al.**, **93g:68125**
Halpern, Joseph Y. (*with* Shoham, Yoav) A propositional modal logic of time intervals. **93a:68133**
Hirsh, Haym *see* **Cohen, William W.; et al.**, **93j:68190**
Hughes, J. G. *see* **An, Zhi; et al.**
Hunter, Daniel Parallel belief revision. **93b:68080**
Husain, Saadia *see* **Charniak, Eugene**, **93m:68153**
Huynh, Tien (*with* Joskowicz, Leo; Lassez, Catherine; Lassez, Jean-Louis) Practical tools for reasoning about linear constraints. **93a:68134**
Hyvönen, Eero Constraint reasoning based on interval arithmetic: the tolerance propagation approach. (English summary)
Jiang, Zong Li (*with* Wang, Yi He; Liu, Li Zhu) Case-based reasoning: a new technique for artificial intelligence. (Chinese. English and Chinese summaries)
Joskowicz, Leo *see* **Huynh, Tien; et al.**, **93a:68134**
Kaminski, Michael Embedding a default system into nonmonotonic logics. **93b:68081**
— *see also* **Tiomkin, Michael**, **93b:68083**
Kanal, Laveen N. *see* **Bhatnagar, Raj K.**, (**93f:68004**)
Kautz, Henry A. (*with* Ladkin, Peter B.) Integrating metric and qualitative temporal reasoning. (English summary) **93k:68088**
— (*with* Selman, Bart) Forming concepts for fast inference. (English summary) **93j:68192**
Ke, Jyh Sheng *see* **Chen, Shyi Ming; et al.**, **93a:68130** *and* **93h:68128**
Kifer, Michael (*with* Subrahmanian, V. S.) Theory of generalized annotated logic programming and its applications. **93b:68082**
Konolige, Kurt Ideal introspective belief. (English summary) **93j:68193**
Ladkin, Peter B. *see* **Kautz, Henry A.**, **93k:68088**
Lai, Robert *see* **Bowen, James; et al.**, **93j:68189**
Lassez, Catherine *see* **Huynh, Tien; et al.**, **93a:68134**
Lassez, Jean-Louis *see* **Huynh, Tien; et al.**, **93a:68134**
Li, Fan[2] Application of the resolution principle in inexact reasoning. (Chinese. English and Chinese summaries)
Liau, Churn Jung (*with* Lin, I P'êng) Abstract minimality and circumscription. **93j:68194**
Ligęza, Antoni Extensible frame logic. A modification of first order logic incorporating variable arity terms. (English summary)
Lin, I P'êng *see* **Liau, Churn Jung**, **93j:68194**
Liu, Li Zhu *see* **Jiang, Zong Li; et al.**
Loui, Ronald P. *see* **Simari, Guillermo R.**, **93a:68136**
Mackworth, Alan K. The logic of constraint satisfaction. (English summary)
Maggiolo-Schettini, A. *see* **Masini, Andrea**, **93e:68120**
Marcugini, Stefano *see* **Fringuelli, Bruno; et al.**, **93g:68126**
Masini, Andrea (*with* Maggiolo-Schettini, A.) TTL: a formalism to describe local and global properties of distributed systems. (French summary) **93e:68120**
Meiri, Itay Combining qualitative and quantitative constraints in temporal reasoning. (English summary) **93j:68195**
Milani, Alfredo *see* **Fringuelli, Bruno; et al.**, **93g:68126**
Milidiú, Ruy Luiz *see* **da Silva, Wagner Teixeira**, **93h:68129**
Moriuma, Jun-ichi *see* **Babaguchi, Noboru; et al.**, **93e:68116**
Murty, M. Narasimha *see* **Sridhar, V.**, **93g:68127**
Nebel, Bernhard (*with* Bäckström, Christer) On the computational complexity of temporal projection and plan validation. (English summary) (*see* **93j:68007**)
Nejdl, Wolfgang The P-systems: a systematic classification of logics of nonmonotonicity. (English summary) **93j:68196**
Nguyen, Hung T. Algebraic structure of conditional reasoning. (English summary) (*see* **93f:68004**)
Occhiuto, M. Eugenia *see* **Bellia, Marco**, **93k:68087**
Paris, J. B. (*with* Vencovská, A.) A method for updating that justifies minimum cross entropy. **93i:68163**
Pearl, Judea *see* **Goldszmidt, Moisés**, (**93i:68011**)
Pollock, John L. How to reason defeasibly. (English summary) **93m:68155**
Prade, Henri *see* **Dubois, Didier**, **93a:68132** *and* (**93g:68131**)
Przymusiński, Teodor C. Nonmonotonic reasoning versus logic programming: a new perspective. (*see* **93b:68073**)
Ragsdale, Cliff T. Deriving conclusions in expert systems when knowledge is incomplete. (English summary) **93j:68197**
Rasiowa, Helena On approximation logics: a survey. **93a:68135**
Rivoira, Silvano *see* **Fringuelli, Bruno; et al.**, **93g:68126**
Rott, Hans On the logic of theory change: more maps between different kinds of contraction function. (*see* **93g:68131**)
Rychlik, Piotr Some variations on default logic. (English summary) **93j:68198**
Saffiotti, Alessandro A belief-function logic. (English summary) (*see* **93j:68007**)
(Sarach, Patricia) *see* **Deduction systems in artificial intelligence**, **93f:68085**
Selman, Bart *see* **Kautz, Henry A.**, **93j:68192**
Shamir, Ron *see* **Golumbic, Martin Charles**, **93j:68191**
Sher, David B. A computational normative theory of scientific evidence. **93f:68083**
Shi, Yihua (*with* Arikawa, Setsuo) Approximate extensions in default logic. **93c:68095**
Shoham, Yoav *see* **Halpern, Joseph Y.**, **93a:68133**
da Silva, Wagner Teixeira (*with* Milidiú, Ruy Luiz) Algorithms for combining belief functions. **93h:68129**
Simari, Guillermo R. (*with* Loui, Ronald P.) A mathematical treatment of defeasible reasoning and its implementation. **93a:68136**
Singh, Munindar P. A logic of situated know-how. (English summary) **93j:68199**
Skowron, Andrzej (*with* Stepaniuk, Jarosław) Towards an approximation theory of discrete problems. I. **93e:68121**
Spies, Marcus Combination of evidence with conditional objects and its application to cognitive modeling. **93a:68137**
Sridhar, V. (*with* Murty, M. Narasimha) Nonmonotonic logics for belief revision. (English summary) **93g:68127**
Stepaniuk, Jarosław *see* **Skowron, Andrzej**, **93e:68121**
Stillman, Jonathan The complexity of propositional default logics. (English summary) **93k:68089**
Subrahmanian, V. S. *see* **Kifer, Michael**, **93b:68082**
Sudkamp, Thomas The consistency of Dempster-Shafer updating. **93f:68084**
Tepandi, Jaak The contribution adequacy criterion and its application for testing approximate knowledge in expert systems. (English summary)
Tezuka, Yoshikazu *see* **Babaguchi, Noboru; et al.**, **93e:68116**
Theseider Dupre, Daniele *see* **Console, Luca; et al.**, **93a:68131**
Tiomkin, Michael (*with* Kaminski, Michael) Nonmonotonic default modal logics. **93b:68083**
Torasso, Pietro *see* **Console, Luca; et al.**, **93a:68131**
Treur, Jan Heuristic reasoning and relative incompleteness. (English summary) **93k:68090**
Tsai, Jing Pha (*with* Weigert, Thomas J.) An explication of reasoning in multiple inheritance systems through nonmonotonic Horn clause logic. **93c:68096**
Vencovská, A. *see* **Paris, J. B.**, **93i:68163**
Wainer, Jacques Combining circumscription and modal logic. (English summary) **93k:68091**

Wallace, Richard J. *see* **Freuder, Eugene C.**
Wang, Suning (*with* Caines, Peter E.) Automated reasoning with function evaluation for COCOLOG. (*see* **93a:93005**)
Wang, Yi He *see* **Jiang, Zong Li; et al.**
Weigert, Thomas J. *see* **Tsai, Jing Pha, 93c:68096**
Wen, Wilson X. Information and probabilistic reasoning. (English summary) **93k:68092**
Xing, Han Cheng *see* **Fan, Zhong Chun**
Yager, Ronald R. On considerations of credibility of evidence. **93i:68164**

Items listed otherwise than by author

Deduction systems in artificial intelligence ★ Deduction systems in artificial intelligence. **93f:68085**
Fuzzy information processing and machine intelligence ★ Mohu xinxi chuli yu jiqi zhineng zhuanji. (Chinese) [Fuzzy information processing and machine intelligence] **93f:68086**
Special Issue:
Fuzzy information processing and machine intelligence ★ Mohu xinxi chuli yu jiqi zhineng zhuanji. (Chinese) [Fuzzy information processing and machine intelligence] **93f:68086**

Items with secondary classifications in 68T27

Alferes, José Júlio *see* **Pereira, Luís Moniz; et al., 93j:68124**
Alsina, Claudi *see* **Trillas, E., 93b:03039**
Aparício, Joaquim Nunes *see* **Pereira, Luís Moniz; et al., 93j:68124**
Ario Costa, Horacio L. Conditionals and monotonic belief revisions: the success postulate. **93c:03035**
Avron, Arnon Hypersequents, logical consequence and intermediate logics for concurrency. **93a:03028**
Bacchus, Fahiem ★ Representing and reasoning with probabilistic knowledge. **93e:68122**
Barbic, Federico *see* **Maiocchi, Roberto; et al., 93h:68038**
Beierle, Christoph (*with* Hedtstück, U.; Pletat, U.; Schmitt, Peter H.; Siekmann, Jörg H.) An order-sorted logic for knowledge representation systems. **93e:68124**
Bellin, Gianluigi (*with* Ketonen, Jussi) A decision procedure revisited: notes on direct logic, linear logic and its implementation. **93g:03010**
van Benthem, Johan Logic as programming. (English summary) **93k:68017**
Bundy, Alan *see* **Robertson, David; et al., 93m:68157**
Calabrese, Philip G. Deduction and inference using conditional logic and probability. **93a:03019**
Ciapessoni, Emanuele *see* **Montanari, Angelo; et al., (93i:68007)**
da Costa, Newton C. A. (*with* Subrahmanian, V. S.; Vago, Carlo) The paraconsistent logics $P\mathcal{T}$. **93c:03032**
Cross, Charles B. (*with* Thomason, Richmond H.) Conditionals and knowledge-base update. (*see* **93g:68131**)
Dalal, Mukesh (*with* Etherington, David W.) A hierarchy of tractable satisfiability problems. (English summary) **93m:03069**
Darwiche, Adnan Y. (*with* Ginsberg, Matthew L.) A symbolic generalization of probability theory. (English summary) **93j:68200**
Dincbas, Mehmet *see* **Van Hentenryck, Pascal; et al., 93i:68158**
Eiter, Thomas (*with* Gottlob, Georg) On the complexity of propositional knowledge base revision, updates, and counterfactuals. (English summary) **93k:68093**
Etherington, David W. *see* **Dalal, Mukesh, 93m:03069**
Ezawa, Yoshinori Homomorphic robustness of fuzzy reasoning. **93c:03031**
Fitting, Melvin C. Destructive modal resolution. **93e:03024**
— (*with* Marek, Wiktor; Truszczyński, Mirosław) The pure logic of necessitation. (English summary) **93i:03022**
Furuya, Shinji (*with* Miyano, Satoru) Analogy is NP-hard. (English summary) **93k:03037**
(Gärdenfors, Peter) *see* **Belief revision, 93g:68131**
Geffner, Hector ★ Default reasoning. **93e:68126**
Gelfond, Michael (*with* Przymusińska, Halina) On consistency and completeness of autoepistemic theories. **93d:03037**
Ginsberg, Matthew L. *see* **Darwiche, Adnan Y., 93j:68200**
Goodman, Irwin R. (*with* Nguyen, Hung T.; Walker, Elbert A.) ★ Conditional inference and logic for intelligent systems. **93j:03015**
Gottlob, Georg Complexity results for nonmonotonic logics. (English summary) **93i:03034**
— *see also* **Eiter, Thomas, 93k:68093**
Haggith, Mandy *see* **Robertson, David; et al., 93m:68157**
Halpern, Joseph Y. The relationship between knowledge, belief, and certainty. **93c:03018**
— (*with* Moses, Yoram) A guide to completeness and complexity for modal logics of knowledge and belief. **93c:03019**
Hansson, Sven Ove Belief contraction without recovery. **93a:03017**
Hedtstück, U. *see* **Beierle, Christoph; et al., 93e:68124**
Isozaki, Hideki (*with* Shoham, Yoav) A mechanism for reasoning about time and belief. (English summary) (*see* **93i:68007**)
Jackson, Peter *see* **Pais, John, 93i:03036**
Katsuno, Hirofumi (*with* Mendelzon, Alberto O.) On the difference between updating a knowledge base and revising it. (*see* **93g:68131**)
Ketonen, Jussi *see* **Bellin, Gianluigi, 93g:03010**
Klarlund, Nils Progress measures for complementation of ω-automata with applications to temporal logic. (English summary) **93i:68134**
Kozma, László[2] *see* **Rácz, É., 93h:03035**
Lehmann, Daniel J. (*with* Magidor, Menachem) What does a conditional knowledge base entail? **93i:03035**
Li, Ming[1] (*with* Vitányi, Paul M. B.) Inductive reasoning and Kolmogorov complexity. **93e:68039**
Lobo, Jorge (*with* Subrahmanian, V. S.) Relating minimal models and prerequisite-free normal defaults. (English summary) **93m:03051**
Magidor, Menachem *see* **Lehmann, Daniel J., 93i:03035**
Maim, Enrico *see* **Montanari, Angelo; et al., (93i:68007)**
Maiocchi, Roberto (*with* Pernici, Barbara; Barbic, Federico) Automatic deduction of temporal information. (English summary) **93h:68038**
Marek, Wiktor (*with* Subrahmanian, V. S.) The relationship between stable, supported, default and autoepistemic semantics for general logic programs. (English summary) **93j:68031**
— *see also* **Fitting, Melvin C.; et al., 93i:03022**
Mattila, Jorma K. ★ Calculus of modifier operators in fuzzy logic.
McCarthy, John History of circumscription.
Mendelzon, Alberto O. *see* **Katsuno, Hirofumi, (93g:68131)**
Minors, R. H. *see* **Sillince, J. A. A.**
Miyano, Satoru *see* **Furuya, Shinji, 93k:03037**
Montanari, Angelo (*with* Maim, Enrico; Ciapessoni, Emanuele; Ratto, Elena) Dealing with time granularity in the event calculus. (English summary) (*see* **93i:68007**)
Moore, Robert C. Autoepistemic logic revisited.
Moses, Yoram *see* **Halpern, Joseph Y., 93c:03019**
Muetzelfeldt, Robert *see* **Robertson, David; et al., 93m:68157**
Muir, Allan Fuzzy evaluation of communicators. (*see* **93c:90002**)
Mukaidono, M. (*with* Nojima, K.) The relation between the direct and truth space approaches in approximate reasoning. (English summary) **93m:03042**
Ng, Raymond T. (*with* Subrahmanian, V. S.) Relating Dempster-Shafer theory to stable semantics. (English summary) **93m:68032**
Nguyen, Hung T. (*with* Rogers, Gerald S.) Conditioning operators in a logic of conditionals. **93a:03022**
— *see also* **Goodman, Irwin R.; et al., 93j:03015**
Nojima, K. *see* **Mukaidono, M., 93m:03042**
Ohlbach, H. J. Semantics-based translation methods for modal logics. **93d:03026**
Pais, John (*with* Jackson, Peter) Partial monotonicity and a new version of the Ramsey test. **93i:03036**
— Revision algebra semantics for conditional logic. (English summary) **93i:03095**
Parikh, Rohit Monotonic and nonmonotonic logics of knowledge. **93a:03024**
Pereira, Luís Moniz (*with* Aparício, Joaquim Nunes; Alferes, José Júlio) Counterfactual reasoning based on revising assumptions. (English summary) **93j:68124**
Pernici, Barbara *see* **Maiocchi, Roberto; et al., 93h:68038**
Petermann, Uwe How to build in an open theory into connection calculi. (English summary) **93i:68156**
Pletat, U. *see* **Beierle, Christoph; et al., 93e:68124**
Polák, Václav ★ Mathematized humanities via humanized mathematics. **93k:03027**
Przymusińska, Halina *see* **Gelfond, Michael, 93d:03037**
Rácz, É. (*with* Kozma, László[2]) A temporal logic specification of a transaction management system. **93h:03035**
Ratto, Elena *see* **Montanari, Angelo; et al., (93i:68007)**
Rauszer, Cecylia M. Logic for information systems. (English summary) **93h:03036**
— Algebraic considerations of autoepistemic logic. (English summary) **93m:03032**
Robertson, David (*with* Bundy, Alan; Muetzelfeldt, Robert; Haggith, Mandy; Uschold, Michael) ★ Eco-logic. **93m:68157**
Rogers, Gerald S. *see* **Nguyen, Hung T., 93a:03022**
Schmitt, Peter H. *see* **Beierle, Christoph; et al., 93e:68124**
Schott, Brian *see* **Whalen, Thomas, 93i:03031**
Shoham, Yoav *see* **Isozaki, Hideki, (93i:68007)**
Siekmann, Jörg H. *see* **Beierle, Christoph; et al., 93e:68124**
Sillince, J. A. A. (*with* Minors, R. H.) Argumentation, self-inconsistency, and multidimensional argument strength. (English summary)
Simonis, Helmut *see* **Van Hentenryck, Pascal; et al., 93i:68158**
Subrahmanian, V. S. *see* **da Costa, Newton C. A.; et al., 93c:03032**; **Marek, Wiktor, 93j:68031**; **Lobo, Jorge, 93m:03051** *and* **Ng, Raymond T., 93m:68032**
Sy, Bon K. A recurrence local computation approach towards ordering composite beliefs in Bayesian belief networks. (English summary) **93k:68096**
Thomason, Richmond H. *see* **Cross, Charles B., (93g:68131)**
Trillas, E. (*with* Alsina, Claudi) Some remarks on approximate entailment. **93b:03039**
Truszczyński, Mirosław *see* **Fitting, Melvin C.; et al., 93i:03022**
Tzvieli, Arie A probabilistic logic for expert systems. (*see* **93g:68133**)
Uschold, Michael *see* **Robertson, David; et al., 93m:68157**
Vago, Carlo *see* **da Costa, Newton C. A.; et al., 93c:03032**
Vakarelov, Dimit"r Modal logics for knowledge representation systems. **93a:68142**
— Inductive modal logics. (English summary) **93h:03019**
Van Hentenryck, Pascal (*with* Simonis, Helmut; Dincbas, Mehmet) Constraint satisfaction using constraint logic programming. (English summary) **93i:68158**
Vitányi, Paul M. B. *see* **Li, Ming[1], 93e:68039**
Volgin, L. I. ★ Математические структуры скалярных операторов. Свойства и законы, номенклатура воспроизводимых операций. (Russian) [Mathematical structures of scalar operators. Properties and laws, list of reproducible operations] **93f:03045**
Walker, Elbert A. A simple look at conditional events. **93d:03030**
— *see also* **Goodman, Irwin R.; et al., 93j:03015**
Whalen, Thomas (*with* Schott, Brian) Usuality, regularity, and fuzzy set logic. **93i:03031**
Yager, Ronald R. Uncertain associational relations: compatibility and transition relations in reasoning. (*see* **93c:90002**)

Items listed otherwise than by author

Belief revision ★ Belief revision. **93g:68131**

68T30 Knowledge representation

Bacchus, Fahiem ★ Representing and reasoning with probabilistic knowledge. **93e:68122**
Barnett, Jeffrey A. Combining opinions about the order of rule execution. (English summary) (*see* **93i:68011**)
Baronets, V. D. (*with* Grechikhin, M. A.) A model for representing the membership function in expert systems. (Russian. Russian summary)
Batyrshin, I. Z. Ordering operations and lexicographical estimates of likelihood in models of reasoning. (Russian) **93e:68123**
Beierle, Christoph (*with* Hedtstück, U.; Pletat, U.; Schmitt, Peter H.; Siekmann, Jörg H.) An order-sorted logic for knowledge representation systems. **93e:68124**
Bezdek, James C. *see* **Pal, Nikhil R.; et al., 93j:68203a** *and* **93j:68203b**

Bezem, Marc Semantics and consistency of rule-based expert systems. **93i:68165**
Broida, T. J. Kinematic and statistical models for data fusion using Kalman filtering. (*see* **93g:68002**)
Brown, Christopher (*with* Durrant-Whyte, H.; Leonard, J.; Rao, B. Y.; Steer, Brian) Distributed data fusion using Kalman filtering: a robotics application. (*see* **93g:68002**)
Brown, Donald E. (*with* Markert, Wendy J.) Uncertainty management with imprecise knowledge with application to design. (English summary) **93h:68130**
Bundy, Alan *see* **Robertson, David; et al., 93m:68157**
Čapkovič, František A representation of rule-based types of reasoning by means of an abstract dynamic system development. (Polish summary) **93e:68125**
Cheng, Yizong (*with* Kashyap, R. L.) Recursive fusion operators: desirable properties and illustrations. (*see* **93g:68002**)
Cross, Charles B. (*with* Thomason, Richmond H.) Conditionals and knowledge-base update. (*see* **93g:68131**)
Darwiche, Adnan Y. (*with* Ginsberg, Matthew L.) A symbolic generalization of probability theory. (English summary) **93j:68200**
Dechter, Rina (*with* Pearl, Judea) Structure identification in relational data. (English summary) **93j:68201**
Dennett, Daniel C. Evolution, error, and intentionality. (*see* **93b:68073**)
Diamond, J. (*with* McLeod, R. D.; Pedrycz, Witold) A fuzzy cognitive structure: foundations, applications and VLSI implementation.
Donini, Francesco M. (*with* Lenzerini, Maurizio; Nardi, Daniele; Hollunder, Bernhard; Nutt, Werner; Marchetti-Spaccamela, Alberto) The complexity of existential quantification in concept languages. **93a:68138**
Dubois, Didier (*with* Prade, Henri) Combination of fuzzy information in the framework of possibility theory. (*see* **93g:68002**)
— (*with* Yager, Ronald R.) Fuzzy set connectives as combinations of belief structures. (English summary) **93g:68128**
Durrant-Whyte, H. *see* **Brown, Christopher; et al., (93g:68002)**
Eiter, Thomas (*with* Gottlob, Georg) On the complexity of propositional knowledge base revision, updates, and counterfactuals. (English summary) **93k:68093**
Esogbue, Augustine O. *see* **Suh, Doug Y.**
Fagin, Ronald (*with* Halpern, Joseph Y.; Vardi, Moshe Y.) What can machines know? On the properties of knowledge in distributed systems. **93h:68131**
— *see also* **Halpern, Joseph Y., 93h:68132**
Fedorov, E. I. *see* **Radzhapov, K. A.; et al., (93m:00032)**
Fedorov, L. I. *see* **Radzhapov, K. A.; et al., (93m:00032)**
Fodor, Jerry A. Why there still has to be a language of thought. (*see* **93b:68073**)
Galliers, Julia Rose Autonomous belief revision and communication. (*see* **93g:68131**)
Gärdenfors, Peter Belief revision: an introduction. (*see* **93g:68131**)
— *see also* **Belief revision, 93g:68131**
Geffner, Hector ★ Default reasoning. **93e:68126**
Ginsberg, Matthew L. *see* **Darwiche, Adnan Y., 93j:68200**
Goodman, Irwin R. (*with* Nguyen, Hung T.; Rogers, Gerald S.) On the scoring approach to admissibility of uncertainty measures in expert systems. **93b:68084**
Gottlob, Georg *see* **Eiter, Thomas, 93k:68093**
Grechikhin, M. A. *see* **Baronets, V. D.**
Haggith, Mandy *see* **Robertson, David; et al., 93m:68157**
Halpern, Joseph Y. (*with* Fagin, Ronald) Two views of belief: belief as generalized probability and belief as evidence. **93h:68132**
— *see also* **Fagin, Ronald; et al., 93h:68131**
Hansson, Sven Ove A dyadic representation of belief. (*see* **93g:68131**)
Hedtstück, U. *see* **Beierle, Christoph; et al., 93e:68124**
Hemasinha, Rohan *see* **Pal, Nikhil R.; et al., 93j:68203a** *and* **93j:68203b**
Hestir, Kevin (*with* Nguyen, Hung T.; Rogers, Gerald S.) A random set formalism for evidential reasoning. **93a:68139**
Hollunder, Bernhard *see* **Donini, Francesco M.; et al., 93a:68138**
Huang, Chong Fu Optimal processing of incomplete sample knowledge. (Chinese. English and Chinese summaries)
Jaffray, Jean-Yves Bayesian updating and belief functions. (English summary) **93j:68202**
Karasëv, A. Yu. On a correction model in classification problems. (Russian) **93b:68085**
Kashyap, R. L. *see* **Cheng, Yizong, (93g:68002)**
Katsuno, Hirofumi (*with* Mendelzon, Alberto O.) Propositional knowledge base revision and minimal change. **93h:68133**
— (*with* Mendelzon, Alberto O.) On the difference between updating a knowledge base and revising it. (*see* **93g:68131**)
Kaufmann, Arnold Expert appraisements and counter-appraisements with experton processes. (English summary) (*see* **93f:68004**)
Kennes, Robert Computational aspects of the Möbius transformation of graphs. **93m:68156**
Klir, G. J. Probabilistic versus possibilistic conceptualization of uncertainty. (English summary) (*see* **93f:68004**)
Kur'erov, Yu. N. Logical formalisms for the representation of knowledge. (Russian. English and Ukrainian summaries) **93k:68094**
Kyburg, Henry E., Jr. *see* **Lemmer, John F., (93i:68011)**
Lee, E. Stanley (*with* Zhu, Qing) An interval Dempster-Shafer approach. (English summary)
Lemmer, John F. (*with* Kyburg, Henry E., Jr.) Conditions for the existence of belief functions corresponding to intervals of belief. (English summary) (*see* **93i:68011**)
Lenzerini, Maurizio *see* **Donini, Francesco M.; et al., 93a:68138**
Leonard, J. *see* **Brown, Christopher; et al., (93g:68002)**
Levesque, Hector J. Foundations of a functional approach to knowledge representation. (*see* **93g:03005**)
Li, Ren Wei (*with* Sernadas, Amílcar) Reasoning about objects using a tableau method. **93a:68140**
Lin, Fang Zhen (*with* Shoham, Yoav) Concurrent actions in the situation calculus. (English summary) (*see* **93j:68007**)
Lin, Zuo Quan (*with* Shi, Chun Yi) A generalization of circumscription. **93c:68097**
Loveland, Donald W. *see* **Valtorta, Marco, 93f:68088**
Marchetti-Spaccamela, Alberto *see* **Donini, Francesco M.; et al., 93a:68138**
Markert, Wendy J. *see* **Brown, Donald E., 93h:68130**
McLeod, R. D. *see* **Diamond, J.; et al.**
Mendelzon, Alberto O. *see* **Katsuno, Hirofumi, 93h:68133** *and* **(93g:68131)**
Morreau, Michael Planning from first principles. (*see* **93g:68131**)
Muetzelfeldt, Robert *see* **Robertson, David; et al., 93m:68157**
Nardi, Daniele *see* **Donini, Francesco M.; et al., 93a:68138**
Nebel, Bernhard Syntax-based approaches to belief revision. (*see* **93g:68131**)
Nguyen, Hung T. *see* **Hestir, Kevin; et al., 93a:68139** *and* **Goodman, Irwin R.; et al., 93b:68084**
Nutt, Werner *see* **Donini, Francesco M.; et al., 93a:68138**
Pal, Nikhil R. (*with* Bezdek, James C.; Hemasinha, Rohan) Uncertainty measures for evidential reasoning. I. A review. (English summary) **93j:68203a**
— (*with* Bezdek, James C.; Hemasinha, Rohan) Uncertainty measures for evidential reasoning. II. A new measure of total uncertainty. (English summary) **93j:68203b**
Pandurang Nayak, P. Causal approximations. (English summary) (*see* **93j:68007**)
Pearl, Judea *see* **Verma, Thomas, 93f:68089** *and* **Dechter, Rina, 93j:68201**
Pedrycz, Witold *see* **Diamond, J.; et al.**
Pletat, U. *see* **Beierle, Christoph; et al., 93e:68124**
Prade, Henri *see* **Dubois, Didier, (93g:68002)**
Puuronen, S. Efficient execution of a tabular rule-base representation. (*see* **93m:05002**)
Qian, Da Qun Representation and use of imprecise temporal knowledge in dynamic systems. (English summary) **93g:68129**
Radzhapov, K. A. (*with* Fedorov, E. I.; Fedorov, L. I.) Investigation of the equations of the dynamics of a knowledge base as a training model. (Russian. Russian summary) (*see* **93m:00032**)
Rao, B. Y. *see* **Brown, Christopher; et al., (93g:68002)**
Robertson, David (*with* Bundy, Alan; Muetzelfeldt, Robert; Haggith, Mandy; Uschold, Michael) ★ Eco-logic. **93m:68157**
Roccetti, Marco (*with* Teolis, Antonio) On the probabilistic correctness of expert systems. (Italian. English summary) **93j:68204**
Rogers, Gerald S. *see* **Hestir, Kevin; et al., 93a:68139** *and* **Goodman, Irwin R.; et al., 93b:68084**
Schmitt, Peter H. *see* **Beierle, Christoph; et al., 93e:68124**
Sernadas, Amílcar *see* **Li, Ren Wei, 93a:68140**
Shafer, Glenn R. (*with* Shenoy, Prakash P.) Probability propagation. (English summary) **93k:68095**
Shenoy, Prakash P. Using possibility theory in expert systems. (English summary) **93h:68134**
— *see also* **Shafer, Glenn R., 93k:68095**
Shi, Chun Yi *see* **Lin, Zuo Quan, 93c:68097**
Shimony, Solomon E. Explanation, irrelevance and statistical independence. (English summary) (*see* **93i:68011**)
Shoham, Yoav *see* **Lin, Fang Zhen, (93j:68007)**
Siekmann, Jörg H. *see* **Beierle, Christoph; et al., 93e:68124**
Steer, Brian *see* **Brown, Christopher; et al., (93g:68002)**
Stein, Lynn Andrea Resolving ambiguity in nonmonotonic inheritance hierarchies. **93j:68205**
Sudkamp, Thomas On probability-possibility transformations. (English summary) **93g:68130**
Suh, Doug Y. (*with* Esogbue, Augustine O.) Transformation of mass function and joint mass function for evidence theory in the continuous domain. (English summary)
Sy, Bon K. A recurrence local computation approach towards ordering composite beliefs in Bayesian belief networks. (English summary) **93k:68096**
Tarasov, O. V. A formal apparatus for the representation of knowledge on the basis of Post production systems. (Russian. English and Ukrainian summaries)
Teolis, Antonio *see* **Roccetti, Marco, 93j:68204**
Tessem, Bjørnar Interval probability propagation. (English summary) **93f:68087**
Thoma, H. Mathis Belief function computations. **93a:68141**
Thomason, Richmond H. *see* **Cross, Charles B., (93g:68131)**
Uschold, Michael *see* **Robertson, David; et al., 93m:68157**
Vakarelov, Dimităr A modal logic for similarity relations in Pawlak knowledge representation systems. **93d:68061**
— Modal logics for knowledge representation systems. **93a:68142**
Valtorta, Marco (*with* Loveland, Donald W.) On the complexity of belief network synthesis and refinement. (English summary) **93f:68088**
Vardi, Moshe Y. *see* **Fagin, Ronald; et al., 93h:68131**
Verma, Thomas (*with* Pearl, Judea) Causal networks: semantics and expressiveness. **93f:68089**
Wiweger, Antoni A functionalization of logical kits. **93b:68086**
Yager, Ronald R. Default knowledge and measures of specificity. **93a:68143**
— On assorted consolidations of belief structures.
— Toward a general theory of information aggregation. (English summary) **93j:68206**
— *see also* **Dubois, Didier, 93g:68128**
Yannakakis, Mihalis On the approximation of maximum satisfiability. (*see* **93b:68005**)
Zhang, Lian Wen Structural and functional quantization of vagueness. (English summary)
Zheng, Fang Qing The decomposition of belief function. **93c:68098**
Zhu, Qing *see* **Lee, E. Stanley**

Items listed otherwise than by author

Belief revision ★ Belief revision. **93g:68131**

Items with secondary classifications in 68T30

Abidi, Mongi A. Fusion of multi-dimensional data using regularization. (*see* **93g:68002**)
— *see also* **Data fusion in robotics and machine intelligence, 93g:68002**
Alagar, V. S. (*with* Goyal, Pankaj; Nair, P. S.; Sadri, Fereidoon) Permutation dependency in Datalog programs. (English summary) **93k:68025**
An, Zhi (*with* Bell, David Andrew; Hughes, J. G.) Relation-based evidential reasoning. (English summary)
(Ayyub, Bilal M.) *see* **Analysis and management of uncertainty: theory and applications, 93f:68004**

Barthélémy, Jean-Pierre (*with* Guénoche, Alain) ★ Trees and proximity representations. **93b:05042**
(Bartlett, Steven J.) *see* **Reflexivity, 93g:03005**
Bell, David Andrew *see* **An, Zhi; et al.**
Bonikowski, Zbigniew A certain conception of the calculus of rough sets. (English summary) **93j:06016**
Borgida, Alex *see* **Cohen, William W.; et al., 93j:68190**
Boutilier, Craig A logic for revision and subjunctive queries. (English summary) **93j:68187**
(Brachman, Ronald J.) *see* **Knowledge representation, 93e:68003**
Churchland, Paul M. Representation and high-speed computation in neural networks. (*see* **93b:68073**)
Cohen, William W. (*with* Borgida, Alex; Hirsh, Haym) Computing least common subsumers in description logics. (English summary) **93j:68190**
Coletti, G. (*with* Regoli, G.) How can an expert system help in choosing the optimal decision? (English summary) **93j:90019**
Devlin, Keith ★ Logic and information. **93c:68094**
Diday, Edwin From data to knowledge: probabilist objects for a symbolic data analysis. (English summary) (*see* **93k:62002**)
Dörre, Jochen (*with* Rounds, William C.) On subsumption and semiunification in feature algebras. **93h:68064**
Dowling, Cornelia E. Applying the basis of a knowledge space for controlling the questioning of an expert. (English summary)
— On the irredundant generation of knowledge spaces. (English summary)
Dubois, Didier (*with* Lang, Jérôme; Prade, Henri) Timed possibilistic logic. **93a:03023**
Eason, R. O. (*with* Gonzalez, Rafael C.) Least-squares fusion of multisensory data. (*see* **93g:68002**)
Furuya, Shinji (*with* Miyano, Satoru) NP-complete problems on label updating calculation in ATMS. **93h:68057**
Gelfond, Michael (*with* Przymusińska, Halina) On consistency and completeness of autoepistemic theories. **93d:03037**
Ginsberg, Matthew L. Bilattices and modal operators. **93b:03021**
Gonzalez, Rafael C. *see* **Eason, R. O., (93g:68002)** *and* **Data fusion in robotics and machine intelligence, 93g:68002**
Goyal, Pankaj *see* **Alagar, V. S.; et al., 93k:68025**
Guénoche, Alain *see* **Barthélémy, Jean-Pierre, 93b:05042**
(Gupta, Madan M.) *see* **Analysis and management of uncertainty: theory and applications, 93f:68004**
Gupta, Naresh (*with* Nau, Dana S.) Complexity results for blocks-world planning. (English summary) **93j:68175**
Hadjitodorov, S. T. *see* **Kissiov, V. T.**
Hall, Lawrence O. (*with* Kandel, Abraham) The evolution from expert systems to fuzzy expert systems. (*see* **93g:68133**)
Halpern, Joseph Y. (*with* Moses, Yoram) A guide to completeness and complexity for modal logics of knowledge and belief. **93c:03019**
Hirsh, Haym *see* **Cohen, William W.; et al., 93j:68190**
Hughes, J. G. *see* **An, Zhi; et al.**
Hutchinson, S. A. (*with* Kak, A. C.) Multisensor strategies using Dempster-Shafer belief accumulation. (*see* **93g:68002**)
Jackson, Peter *see* **Pais, John, 93i:03036**
Kak, A. C. *see* **Hutchinson, S. A., (93g:68002)**
Kaminski, Michael *see* **Tiomkin, Michael, 93b:68083**
(Kanal, Laveen N.) *see* **Analysis and management of uncertainty: theory and applications, 93f:68004**
Kandel, Abraham *see* **Hall, Lawrence O., (93g:68133)**
Kautz, Henry A. (*with* Selman, Bart) Forming concepts for fast inference. (English summary) **93j:68192**
Kissiov, V. T. (*with* Hadjitodorov, S. T.) A fuzzy version of the *K*-NN method. (English summary)
Konolige, Kurt A computational theory of belief introspection. (*see* **93g:03005**)
Krasucki, Paul *see* **Parikh, Rohit, 93g:68040**
Kyburg, Henry E., Jr. Getting fancy with probability. **93a:03021**
Lang, Jérôme *see* **Dubois, Didier; et al., 93a:03023**
Lano, Kevin Formal frameworks for approximate reasoning. (English summary) **93i:03030**
(Lawden, Gregor) *see* **Barthélémy, Jean-Pierre, 93b:05042**
Lenzerini, Maurizio (*with* Schaerf, Andrea) Concept languages as query languages. (English summary) **93j:68101**
(Levesque, Hector J.) *see* **Knowledge representation, 93e:68003**
Lobo, Jorge *see* **Minker, Jack; et al., 93b:68024**
McCarthy, John First order theories of individual concepts and propositions. (*see* **93g:03005**)
McKendall, R. (*with* Mintz, M.) Data fusion techniques using robust statistics. (*see* **93g:68002**)
Milidiú, Ruy Luiz *see* **da Silva, Wagner Teixeira, 93h:68129**
Minker, Jack (*with* Lobo, Jorge; Rajasekar, Arcot) Circumscription and disjunctive logic programming. **93b:68024**
(Minoux, Michel) *see* **Barthélémy, Jean-Pierre, 93b:05042**
Mintz, M. *see* **McKendall, R., (93g:68002)**
Miyano, Satoru *see* **Furuya, Shinji, 93h:68057**
Moses, Yoram *see* **Halpern, Joseph Y., 93c:03019**
Nair, P. S. *see* **Alagar, V. S.; et al., 93k:68025**
Nakamura, Y. Geometric fusion: minimizing uncertainty ellipsoid volumes. (*see* **93g:68002**)
Nau, Dana S. *see* **Gupta, Naresh, 93j:68175**
Newell, Allen Reflections on the knowledge level.
Pais, John (*with* Jackson, Peter) Partial monotonicity and a new version of the Ramsey test. **93i:03036**
Panangaden, Prakash (*with* Taylor, Kim) Concurrent common knowledge: defining agreement for asynchronous systems. (English summary) **93j:68123**
Parikh, Rohit Monotonic and nonmonotonic logics of knowledge. **93a:03024**
— (*with* Krasucki, Paul) Levels of knowledge in distributed systems. **93g:68040**
Paris, J. B. (*with* Vencovská, A.) A method for updating that justifies minimum cross entropy. **93i:68163**
Prade, Henri *see* **Dubois, Didier; et al., 93a:03023**
Przymusińska, Halina *see* **Gelfond, Michael, 93d:03037**
Rajasekar, Arcot *see* **Minker, Jack; et al., 93b:68024**
Rauszer, Cecylia M. Logic for information systems. (English summary) **93h:03036**
— Algebraic considerations of autoepistemic logic. (English summary) **93m:03032**
Regoli, G. *see* **Coletti, G., 93j:90019**
(Reiter, Raymond) *see* **Knowledge representation, 93e:68003**
Rounds, William C. *see* **Dörre, Jochen, 93h:68064**
Sadri, Fereidoon *see* **Alagar, V. S.; et al., 93k:68025**
Saffiotti, Alessandro A belief-function logic. (English summary) (*see* **93j:68007**)
Schaerf, Andrea *see* **Lenzerini, Maurizio, 93j:68101**
Schmidt, Helmut ★ Meta-level control for deductive database systems. **93b:68016**
Selman, Bart *see* **Kautz, Henry A., 93j:68192**
Shafer, Glenn R. *see* **Shenoy, Prakash P., 93b:60007**
Shenoy, Prakash P. (*with* Shafer, Glenn R.) Axioms for probability and belief-function propagation. **93b:60007**
da Silva, Wagner Teixeira (*with* Milidiú, Ruy Luiz) Algorithms for combining belief functions. **93h:68129**
Smolensky, Paul Connectionism and the foundations of AI. (*see* **93b:68073**)
Subrahmanian, V. S. Paraconsistent disjunctive deductive databases. **93b:68017**
Sudkamp, Thomas The consistency of Dempster-Shafer updating. **93f:68084**
Taylor, Kim *see* **Panangaden, Prakash, 93j:68123**
Tepandi, Jaak The contribution adequacy criterion and its application for testing approximate knowledge in expert systems. (English summary)
Tiomkin, Michael (*with* Kaminski, Michael) Nonmonotonic default modal logics. **93b:68083**
Tsai, Jing Pha (*with* Weigert, Thomas J.) An explication of reasoning in multiple inheritance systems through nonmonotonic Horn clause logic. **93c:68096**
Vakarelov, Dimit″r Inductive modal logics. (English summary) **93h:03019**
Vencovská, A. *see* **Paris, J. B., 93i:68163**
Weigert, Thomas J. *see* **Tsai, Jing Pha, 93c:68096**
Wilks, Yorick Some comments on Smolensky and Fodor. (*see* **93b:68073**)
Yager, Ronald R. On considerations of credibility of evidence. **93i:68164**
— On generalized measures of realization in uncertain environments.

Items listed otherwise than by author

Analysis and management of uncertainty: theory and applications ★ Analysis and management of uncertainty: theory and applications. **93f:68004**
College Park, MD ★ Analysis and management of uncertainty: theory and applications. **93f:68004**
Data fusion in robotics and machine intelligence ★ Data fusion in robotics and machine intelligence. **93g:68002**
Fuzzy information processing and machine intelligence ★ Mohu xinxi chuli yu jiqi zhineng zhuanji. (Chinese) [Fuzzy information processing and machine intelligence] **93f:68086**
Knowledge representation ★ Knowledge representation. **93e:68003**
Lecture Notes in Computer Science *see* **Schmidt, Helmut, 93b:68016**
Reflexivity ★ Reflexivity. **93g:03005**
Special Issue:
  Fuzzy information processing and machine intelligence ★ Mohu xinxi chuli yu jiqi zhineng zhuanji. (Chinese) [Fuzzy information processing and machine intelligence] **93f:68086**
Symposium:
  Uncertainty Modeling and Analysis ★ Analysis and management of uncertainty: theory and applications. **93f:68004**

68T35 AI software systems (knowledge-based systems, expert systems, etc.)

Agusti, J. *see* **López de Màntaras, R.; et al., (93g:68133)**
Bandler, Wyllis *see* **Mancini, Vasco, (93g:68133)**
Bouchon, Bernadette Inferences with inaccuracy and uncertainty in expert systems. (*see* **93g:68133**)
Buckley, James J. (*with* Hayashi, Yoichi; Czogała, Ernest) On the equivalence of neural nets and fuzzy expert systems. (English summary) **93m:68158**
Chechkin, A. V. ★ Математическая информатика. (Russian) [Mathematical information science] **93a:68144**
Cohen, M. E. (*with* Hudson, D. L.) Medical decision making using pattern classification techniques for establishment of knowledge bases. (*see* **93g:68133**)
— *see also* **Hudson, D. L., (93g:68133)**
Czogała, Ernest *see* **Buckley, James J.; et al., 93m:68158**
Derry, Sharon *see* **Hawkes, Lois Wright; et al., (93g:68133)**
Di Nola, Antonio (*with* Pedrycz, Witold; Sessa, Salvatore) Reduction procedures for rule-based expert systems as a tool for studies of properties of expert's knowledge. (*see* **93g:68133**)
Dordan, Olivier Mathematical problems arising in qualitative simulation of a differential equation. **93d:68062**
Friedman, Menahem (*with* Kandel, Abraham) On the design of a fuzzy intelligent differential equation solver. (*see* **93g:68133**)
Galkin, V. Ya. (*with* Karpenko, V. A.) A unified approach to the creation of knowledge-based systems for identification of some classes of nonstationary processes. (English summary) (*see* **93m:00041**)
Geyer-Schulz, Andreas On the specification of fuzzy data in management. (English summary) (*see* **93i:00021**)
Giorno, F. *see* **da Rocha, Armando Freitas; et al., (93g:68133)**
Hall, Lawrence O. (*with* Kandel, Abraham) The evolution from expert systems to fuzzy expert systems. (*see* **93g:68133**)
— (*with* Kandel, Abraham) Fess: a reusable fuzzy expert system. (*see* **93g:68133**)

Hawkes, Lois Wright (*with* Derry, Sharon; Kandel, Abraham) Fuzzy expert systems for an intelligent computer-based tutor. (*see* **93g:68133**)
Hayashi, Yoichi *see* **Buckley, James J.; et al., 93m:68158**
Hudson, D. L. (*with* Cohen, M. E.) The role of approximate reasoning in a medical expert system. (*see* **93g:68133**)
— *see also* **Cohen, M. E., (93g:68133)**
Kandel, Abraham *see* **Hall, Lawrence O., (93g:68133); Schneider, Moti, (93g:68133); Hall, Lawrence O., (93g:68133); Friedman, Menahem, (93g:68133); Hawkes, Lois Wright; et al., (93g:68133); Schneider, Moti; et al., (93g:68133)** *and* **Fuzzy expert systems, 93g:68133**
Karpenko, V. A. *see* **Galkin, V. Ya., (93m:00041)**
Kleine Büning, H. *see* **Stamm-Wilbrandt, H., 93g:68132**
Kosko, Bart Fuzzy associative memory systems. (*see* **93g:68133**)
Leão, B. *see* **da Rocha, Armando Freitas; et al., (93g:68133)**
López de Màntaras, R. (*with* Agusti, J.; Plaza, E.; Sierra, C.) MILORD: a fuzzy expert systems shell. (*see* **93g:68133**)
Mancini, Vasco (*with* Bandler, Wyllis) Design for designing: fuzzy relational environmental design assistant (FREDA). (*see* **93g:68133**)
Pedrycz, Witold *see* **Di Nola, Antonio; et al., (93g:68133)**
Perl, Joseph M. *see* **Schneider, Moti; et al., (93g:68133)**
Plaza, E. *see* **López de Màntaras, R.; et al., (93g:68133)**
Qu, Tan *see* **Yang, Qi Cheng; et al.**
da Rocha, Armando Freitas (*with* Giorno, F.; Leão, B.; Theoto, M.) The physiology of the expert system. (*see* **93g:68133**)
Sage, Andrew P. On the processing of imperfect information using structured frameworks. (*see* **93g:68133**)
Schneider, Moti (*with* Kandel, Abraham) General purpose fuzzy expert systems. (*see* **93g:68133**)
— (*with* Perl, Joseph M.; Kandel, Abraham) COMEX—an autonomous fuzzy expert system for tactical communications networks. (*see* **93g:68133**)
Schott, Brian *see* **Whalen, Thomas, (93g:68133)**
Sessa, Salvatore *see* **Di Nola, Antonio; et al., (93g:68133)**
Shtern, I. B. Preparation of knowledge for expert systems: computerization of personal knowledge. (Russian. English and Ukrainian summaries)
Sierra, C. *see* **López de Màntaras, R.; et al., (93g:68133)**
Stamm-Wilbrandt, H. (*with* Kleine Büning, H.) Evaluating production systems with delete operator is PSPACE-complete. (English summary) **93g:68132**
Stoeva, Stefka P. A weight-learning algorithm for fuzzy production systems with weighting coefficients.
Sun, De Bao² *see* **Yang, Qi Cheng; et al.**
Szabo, M. E. On the stochastic complexity of loops in rule-based expert systems. **93b:68087**
Theoto, M. *see* **da Rocha, Armando Freitas; et al., (93g:68133)**
Togai, Masaki (*with* Watanabe, Horoyuki) Expert system on a chip: an engine for approximate reasoning. (*see* **93g:68133**)
Tzvieli, Arie A probabilistic logic for expert systems. (*see* **93g:68133**)
Watanabe, Horoyuki *see* **Togai, Masaki, (93g:68133)**
Whalen, Thomas (*with* Schott, Brian) Fuzzy linguistic inference network generator. (*see* **93g:68133**)
Yager, Ronald R. On the representation of relational production rules in expert systems. (*see* **93g:68133**)
Yang, Qi Cheng (*with* Sun, De Bao²; Qu, Tan) A model for solving diagnostic problems for rule-based expert systems. (Chinese. English and Chinese summaries)
Zhang, Chengqi Cooperation under uncertainty in distributed expert systems.

Items listed otherwise than by author

Fuzzy expert systems ★ Fuzzy expert systems. **93g:68133**

Items with secondary classifications in 68T35

Cho, Seongwon (*with* Ersoy, Okan K.; Lehto, Mark) An algorithm to compute the degree of match in fuzzy systems. (English summary)
Cooke, Roger Marvin ★ Experts in uncertainty. **93a:62001**
Dubois, Didier (*with* Lang, Jérôme; Prade, Henri) Advances in automated reasoning using possibilistic logic. (*see* **93g:68133**)
Ersoy, Okan K. *see* **Cho, Seongwon; et al.**
Gordon, Jean (*with* Shortliffe, Edward H.) A method for managing evidential reasoning in a hierarchical hypothesis space: a retrospective.
Kaufmann, Arnold Expert appraisements and counter-appraisements with experton processes. (English summary) (*see* **93f:68004**)
Lang, Jérôme *see* **Dubois, Didier; et al., (93g:68133)**
Lehto, Mark *see* **Cho, Seongwon; et al.**
Prade, Henri *see* **Dubois, Didier; et al., (93g:68133)**
Shortliffe, Edward H. *see* **Gordon, Jean**
Tepandi, Jaak The contribution adequacy criterion and its application for testing approximate knowledge in expert systems. (English summary)
Yannakakis, Mihalis On the approximation of maximum satisfiability. (*see* **93b:68005**)

68T99 None of the above, but in this section

Yang, Hong Qing A characterization of achievable patterns of the MN-puzzle problem.

Items with secondary classifications in 68T99

Anantharam, Venkat *see* **Gharavi, Reza, 93b:68102**
Asai, Kiyoji *see* **Terano, Toshiro; et al., 93c:04006**
(Balibar, Françoise) *see* **Penrose, Roger, 93k:00013**
Emde, Anna-Maria (*with* Schinzel, Britta) Aggregating inductive expertise on partial recursive functions. **93d:68055**
(Gardner, Martin) *see* **Penrose, Roger, 93k:00013**
Gharavi, Reza (*with* Anantharam, Venkat) Effect of noise on long-term memory in cellular automata with asynchronous delays between the processors. **93h:68102**
Hood, L. (*with* Hunkapillar, T.; Solomon, J. E.) Computational problems and the human genome project. (*see* **93g:65178**)
Hunkapillar, T. *see* **Hood, L.; et al., (93g:65178)**
Penrose, Roger ★ L'esprit, l'ordinateur et les lois de la physique. (French) [Minds, computers and the laws of physics] **93k:00013**
Schinzel, Britta *see* **Emde, Anna-Maria, 93d:68055**
Solomon, J. E. *see* **Hood, L.; et al., (93g:65178)**
Sugeno, Michio *see* **Terano, Toshiro; et al., 93c:04006**
Terano, Toshiro (*with* Asai, Kiyoji; Sugeno, Michio) ★ Fuzzy systems theory and its applications. **93c:04006**
(Tiercelin, Claudine) *see* **Penrose, Roger, 93k:00013**

68Uxx Computing methodologies

68U05 Computer graphics; computational geometry [see also 65Y25]

Abidi, Mongi A. Fusion of multi-dimensional data using regularization. (*see* **93g:68002**)
Abramowski, Stephan (*with* Müller, Heinrich) ★ Geometrisches Modellieren. (German) [Geometric modeling] **93a:68145**
Agarwal, Pankaj K. (*with* Sharir, Micha) Red-blue intersection detection algorithms, with applications to motion planning and collision detection. (English summary) (*see* **93k:68003**)
— (*with* Edelsbrunner, Herbert; Schwarzkopf, Otfried; Welzl, Emo) Euclidean minimum spanning trees and bichromatic closest pairs. **93a:68146**
— (*with* Sharir, Micha; Toledo, Sivan) Applications of parametric searching in geometric optimization. **93d:68063**
— (*with* Matoušek, Jiří; Suri, Subhash) Farthest neighbors, maximum spanning trees and related problems in higher dimensions. **93f:68090**
— (*with* Matoušek, Jiří) Relative neighborhood graphs in three dimensions. (English summary) **93i:68166**
— Ray shooting and other applications of spanning trees with low stabbing number. **93f:68091**
— (*with* Sharir, Micha) Applications of a new space-partitioning technique. (English summary) **93m:68159**
— *see also* **van Kreveld, Marc; et al., 93f:68096**
Aggarwal, Alok (*with* Edelsbrunner, Herbert; Raghavan, Prabhakar; Tiwari, Prasoon) Optimal time bounds for some proximity problems in the plane. **93a:68147**
Ahmad, Shaheen *see* **Luo, Shengwu, 93g:68141**
Alt, Helmut (*with* Fleischer, Rudolf; Kaufmann, Michael; Mehlhorn, Kurt; Näher, Stefan; Schirra, Stefan; Uhrig, Christian) Approximate motion planning and the complexity of the boundary of the union of simple geometric figures. (English summary) **93k:68097**
Amato, Nancy M. (*with* Preparata, Franco P.) The parallel 3D convex hull problem revisited. **93d:68064**
Amenta, Nina Finding a line transversal of axial objects in three dimensions. **93d:68065**
d'Amore, Fabrizio (*with* Franciosa, Paolo Giulio) On the optimal binary plane partition for sets of isothetic rectangles. (English summary) **93k:68098**
Angell, I. O. *see* **Moore, R. E. M., 93m:68179**
Aronov, Boris (*with* Fortune, Steven; Wilfong, Gordon) The furthest-site geodesic Voronoi diagram. (*see* **93k:68003**)
— (*with* Sharir, Micha) Triangles in space or building (and analyzing) castles in the air. (English summary) (*see* **93k:68003**)
— (*with* O'Rourke, Joseph) Nonoverlap of the star unfolding. **93h:68135**
Atallah, Mikhail J. (*with* Chen, Danny Z.) Parallel rectilinear shortest paths with rectangular obstacles. **93h:68136**
— *see also* **Manning, Joseph, 93m:68172** *and* **Symposium: Computational Geometry**
Avgustinovich, S. V. (*with* Sevast'yanov, S. V.) Vector summation within minimal angle. (English summary) **93j:68207**
Avis, David (*with* Fukuda, Komei) A pivoting algorithm for convex hulls and vertex enumeration of arrangements and polyhedra. **93h:68137**
Barraquand, Jérôme (*with* Langlois, Bruno; Latombe, Jean-Claude) Numerical potential field techniques for robot path planning.
Baumgarten, Hanna (*with* Jung, Hermann; Mehlhorn, Kurt) Dynamic point location in general subdivisions. (*see* **93b:68005**)
Belleville, Patrice (*with* Shermer, Thomas C.) Probing polygons minimally is hard. (English summary) **93m:68160**
Bentley, Jon Louis (*with* Clarkson, Kenneth L.; Levine, David B.) Fast linear expected-time algorithms for computing maxima and convex hulls. (English summary) **93m:68161**
de Berg, Mark T. (*with* Overmars, Mark H.) Hidden surface removal for c-oriented polyhedra. **93c:68099**
— Dynamic output-sensitive hidden surface removal for c-oriented polyhedra. (English summary) **93i:68167**
— (*with* van Kreveld, Marc; Nilsson, Bengt J.; Overmars, Mark H.) Shortest path queries in rectilinear worlds. (English summary) **93j:68208**
— (*with* Carlsson, Svante; Overmars, Mark H.) A general approach to dominance in the plane. **93e:68127**
Bern, Marshall (*with* Gilbert, John R.) Drawing the planar dual. (English summary) **93i:68168**
— Approximate closest-point queries in high dimensions. (English summary) **93m:68162**
Bershtein, L. S. (*with* Melekhin, V. B.) Procedures for the automated formation of conditional programs for the functioning of an integral robot under the appearance of retarded signals in the medium. (Russian. English and Ukrainian summaries)
Boissonnat, Jean-Daniel (*with* Yvinec, Mariette) Probing a scene of nonconvex polyhedra. (English summary) **93h:68138**
— (*with* Devillers, Olivier; Schott, René; Teillaud, Monique; Yvinec, Mariette) Applications of random sampling to on-line algorithms in computational geometry. **93a:68148**
Bornstein, R. (*with* Bruckstein, Alfred) Finding the kernel of planar shapes. **93a:68149**
Böttcher, Ralf (*with* Hecker, Hans-Dietrich) Weitere NP-schwere Probleme für minimale Polygonüberdeckungen. [More NP-hard problems for minimal polygon coverings] **93i:68169**

Brause, R. Optimal information distribution and performance in neighbourhood-conserving maps for robot control. (English summary)
Briggs, Amy J. An efficient algorithm for one-step planar compliant motion planning with uncertainty. (English summary) **93i:68170**
Brisson, Erik Representing geometric structures in d dimensions: topology and order. (English summary) **93m:68163**
Bruckstein, Alfred *see* **Bornstein, R., 93a:68149**; **Lindenbaum, Michael, 93a:68153** *and* **93m:68171**
Carlsson, Svante *see* **de Berg, Mark T.; et al., 93e:68127**
Chandran, Sharat (*with* Kim, Sung Kwon; Mount, David M.) Parallel computational geometry of rectangles. **93e:68128**
— (*with* Mount, David M.) A parallel algorithm for enclosed and enclosing triangles. **93f:68092**
Chang, Maw Shang (*with* T'ang, Ch'uan I; Lee, R. C. T.) Solving the Euclidean bottleneck matching problem by k-relative neighborhood graphs. (English summary) **93d:68066**
Chang, Ruei Chuan *see* **Hsu, F. R.; et al., 93g:68137**; **93i:68176** *and* **Hwang, R. Z.; et al., 93k:68103**
Chazelle, Bernard Triangulating a simple polygon in linear time. **93e:68129**
— (*with* Sharir, Micha; Welzl, Emo) Quasi-optimal upper bounds for simplex range searching and new zone theorems. (English summary) **93j:68209**
— (*with* Edelsbrunner, Herbert; Guibas, Leonidas J.; et al.) Counting and cutting cycles of lines and rods in space. **93m:68164**
— (*with* Edelsbrunner, Herbert) An optimal algorithm for intersecting line segments in the plane. **93h:68139**
Chen, Danny Z. *see* **Atallah, Mikhail J., 93h:68136**
Chen, T. H. *see* **Lee, Der Tsai; et al., 93c:68102**
Cheng, Siu Wing (*with* Janardan, Ravi) Algorithms for ray-shooting and intersection searching. (English summary) **93g:68134**
— (*with* Janardan, Ravi) New results on dynamic planar point location. (English summary) **93k:68099**
Chiang, Yi-Jen (*with* Tamassia, Roberto) Dynamization of the trapezoid method for planar point location in monotone subdivisions. (English summary) **93j:68210**
— (*with* Preparata, Franco P.; Tamassia, Roberto) A unified approach to dynamic point location, ray shooting, and shortest paths in planar maps. (English summary) (*see* **93k:05002**)
Chwa, Kyung Yong *see* **Doh, Jeong-In, 93k:68101**
Clarkson, Kenneth L. Applications of random sampling in computational geometry. II. (Extended abstract). (English summary) (*see* **93k:68003**)
— (*with* Shor, Peter W.) Algorithms for diametral pairs and convex hulls that are optimal, randomized, and incremental. (English summary) (*see* **93k:68003**)
— (*with* Tarjan, Robert Endre; Van Wyk, Christopher J.) A fast Las Vegas algorithm for triangulating a simple polygon. (English summary) (*see* **93k:68003**)
— (*with* Cole, Richard John; Tarjan, Robert Endre) Randomized parallel algorithms for trapezoidal diagrams. **93k:68100a**
— (*with* Cole, Richard John; Tarjan, Robert Endre) Erratum: "Randomized parallel algorithms for trapezoidal diagrams". **93k:68100b**
— *see also* **Bentley, Jon Louis; et al., 93m:68161**
Cole, Richard John *see* **Clarkson, Kenneth L.; et al., 93k:68100a** *and* **93k:68100b**
Crescenzi, Pierluigi (*with* Di Battista, Giuseppe; Piperno, A.) A note on optimal area algorithms for upward drawings of binary trees. (English summary)
Das, Gautam (*with* Joseph, Deborah) Minimum vertex hulls for polyhedral domains. (English summary) **93j:68211**
Dassow, Jürgen (*with* Hromkovič, Juraj) On synchronized Lindenmayer picture languages. (English summary) (*see* **93m:68004**)
Datta, Amitava Efficient algorithms for the largest rectangle problem.
— (*with* Srikant, R.; Ramkumar, G. D. S.; Krithivasan, Kamala) Fast parallel algorithms for the maximum empty rectangle problem.
Dehne, Frank (*with* Miller, Russ; Rau-Chaplin, Andrew) Optical clustering on a mesh-connected computer. (English summary) **93g:68135**
— (*with* Ferreira, Afonso G.; Rau-Chaplin, Andrew) Parallel fractional cascading on hypercube multiprocessors. (English summary) **93i:68171**
Deng, Yi Min *see* **Zhu, Ren Zhi; et al.**
Devillers, Olivier Randomization yields simple $O(n \log^* n)$ algorithms for difficult $\Omega(n)$ problems. **93d:68067**
— *see also* **Boissonnat, Jean-Daniel; et al., 93a:68148**
Di Battista, Giuseppe *see* **Crescenzi, Pierluigi; et al.**
Dickerson, Matthew T. (*with* Drysdale, R. L. Scot; Sack, Jörg-Rüdiger) Simple algorithms for enumerating interpoint distances and finding k nearest neighbors. (English summary) **93j:68212**
— (*with* Shugart, Jason) A simple algorithm for enumerating longest distances in the plane. (English summary)
Doh, Jeong-In (*with* Chwa, Kyung Yong) An algorithm for determining visibility of a simple polygon from an internal line segment. (English summary) **93k:68101**
Domínguez Murillo, Eladio Formal models in digital topology. (Spanish) (*see* **93b:68004**)
— *see also* **Frances Román, Ángel Ramón, (93b:68004)**
Donald, Bruce Randall The complexity of planar compliant motion planning under uncertainty. (English summary) (*see* **93k:68003**)
Drysdale, R. L. Scot *see* **Dickerson, Matthew T.; et al., 93j:68212**
Eason, R. O. (*with* Gonzalez, Rafael C.) Least-squares fusion of multisensory data. (*see* **93g:68002**)
Edelsbrunner, Herbert (*with* Guibas, Leonidas J.; Hershberger, John; et al.) Implicitly representing arrangements of lines or segments. (English summary) (*see* **93k:68003**)
— (*with* Mücke, Ernst Peter) Simulation of simplicity: a technique to cope with degenerate cases in geometric algorithms. (English summary) (*see* **93k:68003**)
— (*with* Guibas, Leonidas J.; Pach, János; Pollack, Richard; Seidel, Raimund; Sharir, Micha) Arrangements of curves in the plane—topology, combinatorics, and algorithms. **93g:68136**
— *see also* **Agarwal, Pankaj K.; et al., 93a:68146**; **Aggarwal, Alok; et al., 93a:68147**; **Chazelle, Bernard, 93h:68139** *and* **93m:68164**
Elfes, A. Multi-source spatial data fusion using Bayesian reasoning. (*see* **93g:68002**)
Eppstein, David New algorithms for minimum area k-gons. (*see* **93b:68005**)
Feriane, P. *see* **Sloboda, F.; et al., 93k:68107**
Ferreira, Afonso G. *see* **Dehne, Frank; et al., 93i:68171**
Fleischer, Rudolf (*with* Mehlhorn, Kurt; Rote, Günter; Welzl, Emo; Yap, Chee-Keng) Simultaneous inner and outer approximation of shapes. (English summary) **93j:68213**
— *see also* **Alt, Helmut; et al., 93k:68097**
Foldes, Stephan (*with* Rival, Ivan; Urrutia, Jorge) Light sources, obstructions and spherical orders. **93c:68100**
Fortune, Steven (*with* Wilfong, Gordon) Planning constrained motion. (English summary) **93m:68165**
— *see also* **Aronov, Boris; et al., (93k:68003)**
Frances Román, Ángel Ramón A new algorithm for coding segments. (Spanish) (*see* **93b:68004**)
— *see also* **Domínguez Murillo, Eladio, (93b:68004)**
Franciosa, Paolo Giulio *see* **d'Amore, Fabrizio, 93k:68098**
Fukuda, Komei *see* **Avis, David, 93h:68137**
Gao, Shaodi (*with* Jerrum, Mark; Kaufmann, Michael; Mehlhorn, Kurt; Rülling, Wolfgang; Storb, Christoph) On continuous homotopic one layer routing. (English summary) (*see* **93k:68003**)
Gewali, Laxmi P. (*with* Lombardo, Rocky) Watchman routes for a pair of convex polygons. (English summary) **93m:68166**
Ghosh, Ashish *see* **Pal, Sankar Kumar**
Ghosh, Subir Kumar (*with* Maheshwari, Anil; Pal, Sudebkumar Prasant; Saluja, Sanjeev; Veni Madhavan, C. E.) Computing the shortest path tree in a weak visibility polygon. (English summary) **93f:68093**
Gilbert, John R. *see* **Bern, Marshall, 93i:68168**
Golin, Mordecai J. (*with* Sedgewick, Robert) Analysis of a simple yet efficient convex hull algorithm. (English summary) (*see* **93k:68003**)
Gonzalez, Rafael C. *see* **Eason, R. O., (93g:68002)**
Gonzalez, Teofilo F. The on-line d-dimensional dictionary problem. (*see* **93b:68005**)
Goodrich, Michael T. (*with* Ó'Dúnlaing, Colm; Yap, Chee-Keng) Constructing the Voronoi diagram of a set of line segments in parallel. (English summary) **93m:68167**
— Constructing the convex hull of a partially sorted set of points. (English summary) **93m:68168**
Gorpinevich, A. N. *see* **Soltan, V. P., 93i:68184**
Guha, Sumanta Parallel computation of internal and external farthest neighbors in simple polygons. **93f:68094**
Guibas, Leonidas J. (*with* Sharir, Micha; Sifrony, Shmuel) On the general motion planning problem with two degrees of freedom. (English summary) (*see* **93k:68003**)
— (*with* Knuth, Donald E.; Sharir, Micha) Randomized incremental construction of Delaunay and Voronoi diagrams. **93e:68130**
— *see also* **Edelsbrunner, Herbert; et al., 93g:68136**; **Chazelle, Bernard; et al., 93m:68164** *and* **Edelsbrunner, Herbert; et al., (93k:68003)**
Haldar, Chandan (*with* Patnaik, L. M.) On movable separability and isotheticity. **93i:68172**
Halperin, Dan (*with* Sharir, Micha) Improved combinatorial bounds and efficient techniques for certain motion planning problems with three degrees of freedom. **93d:68068**
— (*with* Overmars, Mark H.; Sharir, Micha) Efficient motion planning for an L-shaped object. **93a:68150**
Hecker, Hans-Dietrich *see* **Böttcher, Ralf, 93i:68169**
Heintz, Joos *see* **Krick, Teresa; et al., 93b:68088**
Held, Martin ★ On the computational geometry of pocket machining. **93a:68151**
Hernández Barrera, Antonio (*with* Mesa Henríquez, Antonio; Puerta Balda, Antonio) Placement of orthogonal polygons. (Spanish. English and Spanish summaries)
Hershberger, John (*with* Suri, Subhash) Applications of a semi-dynamic convex hull algorithm. **93f:68095**
— Minimizing the sum of diameters efficiently. (English summary) **93i:68173**
— Upper envelope onion peeling. (English summary) **93i:68174**
— *see also* **Edelsbrunner, Herbert; et al., (93k:68003)**
Hinrichs, Klaus (*with* Nievergelt, Jürg; Schorn, Peter) An all-round sweep algorithm for 2-dimensional nearest-neighbor problems. (English summary) **93d:68069**
Hoffmann, Frank (*with* Kaufmann, Michael; Kriegel, Klaus) The art gallery theorem for polygons with holes. (English summary) **93i:68175**
Hohmeyer, Michael E. (*with* Teller, Seth J.) Stabbing isothetic boxes and rectangles in $O(n \log n)$ time. (English summary)
Hopcroft, John E. (*with* Kahn, Peter J.) A paradigm for robust geometric algorithms.
Hosaka, Mamoru New solutions of connection problems of free-form curves and surfaces.
Hromkovič, Juraj *see* **Dassow, Jürgen, (93m:68004)**
Hsu, F. R. (*with* Lee, R. C. T.; Chang, Ruei Chuan) Parallel algorithms for computing the minimum visible vertex distance between two polygons. (English summary) **93i:68176**
— (*with* Lee, R. C. T.; Chang, Ruei Chuan) Special subgraphs of weighted visibility graphs. **93g:68137**
Huckenbeck, Ulrich A result about the power of geometric oracle machines. **93a:68152**
Huntsberger, T. L. Data fusion: a neural networks implementation. (*see* **93g:68002**)
Hutchinson, S. A. (*with* Kak, A. C.) Multisensor strategies using Dempster-Shafer belief accumulation. (*see* **93g:68002**)
Huttenlocher, Daniel P. (*with* Kedem, Klara; Kleinberg, Jon M.) Voronoi diagrams of rigidly moving sets of points. (English summary) **93k:68102**
Hwang, R. Z. (*with* Lee, R. C. T.; Chang, Ruei Chuan) The slab dividing approach to solve the Euclidean P-center problem. (English summary) **93k:68103**
Imai, Hiroshi *see* **Yamamoto, Peter; et al., (93k:68003)**
Imai, Keiko *see* **Yamamoto, Peter; et al., (93k:68003)**
Janardan, Ravi *see* **Cheng, Siu Wing, 93g:68134** *and* **93k:68099**
Jerrum, Mark *see* **Gao, Shaodi; et al., (93k:68003)**
Jin, Feng *see* **Umlauf, Uwe, (93a:68006)**
Joe, Barry (*with* Wang, Cao An) Duality of constrained Voronoi diagrams and Delaunay triangulations. (English summary) **93m:68169**
Joseph, Deborah *see* **Das, Gautam, 93j:68211**

Joseph, Eugene (*with* Skiena, Steven Sol) Model-based probing strategies for convex polygons. (English summary) **93i:68177**
Jung, Hermann *see* **Baumgarten, Hanna; et al.,** (**93b:68005**)
Kahn, Peter J. *see* **Hopcroft, John E.**
Kaiser, M. J. (*with* Morin, T. L.) Algorithms for computing centroids. (English summary) **93g:68138**
Kak, A. C. *see* **Hutchinson, S. A.,** (**93g:68002**)
Karzanov, A. V. A fast algorithm for determining the distances from the points of a given set of an integer lattice to the complement. (Russian. English and Ukrainian summaries)
Kato, Kenji *see* **Yamamoto, Peter; et al.,** (**93k:68003**)
Katz, Matthew J. (*with* Overmars, Mark H.; Sharir, Micha) Efficient hidden surface removal for objects with small union size. (English summary)
Kaufmann, Michael *see* **Hoffmann, Frank; et al., 93i:68175**; **Alt, Helmut; et al., 93k:68097** *and* **Gao, Shaodi; et al.,** (**93k:68003**)
Kedem, Klara (*with* Sharir, Micha) An automatic motion planning system for a convex polygonal mobile robot in 2-D polygonal space. (English summary) (*see* **93k:68003**)
— *see also* **Huttenlocher, Daniel P.; et al., 93k:68102**
Kim, Sung Kwon *see* **Chandran, Sharat; et al., 93e:68128**
Kirkpatrick, David G. (*with* Klawe, Maria M.; Tarjan, Robert Endre) Polygon triangulation in $O(n \log\log n)$ time with simple data structures. **93c:68101**
Klawe, Maria M. *see* **Kirkpatrick, David G.; et al., 93c:68101**
Klein, Rolf Walking an unknown street with bounded detour. (English summary) (*see* **93d:68005**)
— Walking an unknown street with bounded detour. **93g:68139**
Kleinberg, Jon M. *see* **Huttenlocher, Daniel P.; et al., 93k:68102**
Knuth, Donald E. *see* **Guibas, Leonidas J.; et al., 93e:68130**
Kolountzakis, Mihail N. (*with* Kutulakos, Kiriakos N.) Fast computation of the Euclidean distance maps for binary images. (English summary) **93g:68140**
Komarov, Yu. A. *see* **Vasyukov, A. N.; et al., 93a:68159**
Kramer, Glenn A. A geometric constraint engine. (English summary) **93i:68178**
van Kreveld, Marc (*with* Overmars, Mark H.; Agarwal, Pankaj K.) Intersection queries in sets of disks. **93f:68096**
— *see also* **de Berg, Mark T.; et al., 93j:68208**
Krick, Teresa (*with* Slisenko, A. O.; Solernó, P.; Heintz, Joos) A search for the shortest path around semi-algebraic obstacles in the plane. (Russian. English summary) **93b:68088**
Kriegel, Klaus *see* **Hoffmann, Frank; et al., 93i:68175**
Krithivasan, Kamala *see* **Datta, Amitava; et al.**
Kronheimer, E. H. A note on alternative digital topologies. (English summary) **93m:68170**
Kutulakos, Kiriakos N. *see* **Kolountzakis, Mihail N., 93g:68140**
Langlois, Bruno *see* **Barraquand, Jérôme; et al.**
Latombe, Jean-Claude (*with* Lazanas, Anthony; Shekhar, Shashank) Robot motion planning with uncertainty in control and sensing. **93e:68131**
— *see also* **Barraquand, Jérôme; et al.**
Lazanas, Anthony *see* **Latombe, Jean-Claude; et al., 93e:68131**
Lee, Der Tsai (*with* Yang, Chung-Do; Chen, T. H.) Shortest rectilinear paths among weighted obstacles. **93c:68102**
— *see also* **Yang, Chung-Do; et al., 93a:68160**
Lee, R. C. T. *see* **Chang, Maw Shang; et al., 93d:68066**; **Liou, W. T.; et al., 93e:68132**; **Hsu, F. R.; et al., 93g:68137**; **93i:68176** *and* **Hwang, R. Z.; et al., 93k:68103**
Levine, David B. *see* **Bentley, Jon Louis; et al., 93m:68161**
Li, Zhenyu (*with* Milenkovic, Victor) Constructing strongly convex hulls using exact or rounded arithmetic. (English summary) **93k:68104**
Liang, You Dong *see* **Lü, Wei[1], 93b:68089**
Lindenbaum, Michael (*with* Bruckstein, Alfred) Reconstruction of polygonal sets by constrained and unconstrained double probing. **93a:68153**
— (*with* Bruckstein, Alfred) Parallel strategies for geometric probing. **93m:68171**
Liou, W. T. (*with* T'ang, Ch'uan I; Lee, R. C. T.) Covering convex rectilinear polygons in linear time. **93e:68132**
Lombardo, Rocky *see* **Gewali, Laxmi P., 93m:68166**
Lorz, Udo (*with* Schüle, Eik) An algorithm for the planar Johnson-Mehl tessellation. (English summary) **93k:68105**
Lü, Wei[1] (*with* Liang, You Dong) A new representation and algorithm for constructing convex hulls in higher-dimensional spaces. **93b:68089**
Luo, Shengwu (*with* Ahmad, Shaheen) Predicting the drift motion for kinematically redundant robots. (English summary) **93g:68141**
Maeder, Anthony J. *see* **Zheng, Zhi Jie,** (**93f:68006**)
Maheshwari, Anil *see* **Ghosh, Subir Kumar; et al., 93f:68093**
Manning, Joseph (*with* Atallah, Mikhail J.) Fast detection and display of symmetry in outerplanar graphs. (English summary) **93m:68172**
(Márquez, Alberto) *see* **Domínguez Murillo, Eladio,** (**93b:68004**)
Matoušek, Jiří (*with* Welzl, Emo; Wernisch, Lorenz) Discrepancy and ε-approximations for bounded VC-dimension. (English summary) **93i:68179**
— (*with* Miller, Nathaly; Pach, János; Sharir, Micha; Sifrony, Shmuel; Welzl, Emo) Fat triangles determine linearly many holes. (English summary) **93i:68180**
— Reporting points in halfspaces. (English summary) (*see* **93d:68005**)
— Spanning trees with low crossing number. (French summary) **93a:68154**
— Reporting points in halfspaces. (English summary) **93i:68181**
— Efficient partition trees. **93m:68174**
— (*with* Welzl, Emo) Good splitters for counting points in triangles. **93m:68173**
— On vertical ray shooting in arrangements. (English summary) **93m:68175**
— *see also* **Agarwal, Pankaj K.; et al., 93f:68090** *and* **93i:68166**
Mazón, M. L. (*with* Recio Muñiz, Tomás J.) Voronoï diagrams in kaleidoscopes. (Spanish. English summary) (*see* **93b:68004**)
McKendall, R. (*with* Mintz, M.) Data fusion techniques using robust statistics. (*see* **93g:68002**)
McKenna, Michael (*with* O'Rourke, Joseph) Arrangements of lines in 3-space: a data structure with applications. (English summary) (*see* **93k:68003**)
Mehlhorn, Kurt (*with* Sharir, Micha; Welzl, Emo) Tail estimates for the space complexity of randomized incremental algorithms. (*see* **93b:68005**)
— *see also* **Fleischer, Rudolf; et al., 93j:68213**; **Alt, Helmut; et al., 93k:68097**; **Baumgarten, Hanna; et al.,** (**93b:68005**) *and* **Gao, Shaodi; et al.,** (**93k:68003**)
Mehta, Shashank (*with* Mukherjee, Maharaj; Nagy, George) Constrained integer approximation of a 3-D pyramid apex. (English summary) (*see* **93b:68006**)
Melekhin, V. B. *see* **Bershtein, L. S.**
Mesa Henríquez, Antonio *see* **Hernández Barrera, Antonio; et al.**
Milenkovic, Victor *see* **Li, Zhenyu, 93k:68104**
Miller, Nathaly *see* **Matoušek, Jiří; et al., 93i:68180**
Miller, Russ *see* **Dehne, Frank; et al., 93g:68135**
Mintz, M. *see* **McKendall, R., (93g:68002)**
Mirzaian, Andranik Hamiltonian triangulations and circumscribing polygons of disjoint line segments. (English summary) **93m:68176**
Mitchell, Joseph S. B. A new algorithm for shortest paths among obstacles in the plane. (English summary) **93m:68178**
— (*with* Suri, Subhash) Separation and approximation of polyhedral objects. **93f:68097**
— (*with* Rote, Günter; Woeginger, Gerhard J.) Minimum-link paths among obstacles in the plane. (English summary) **93j:68214**
Monma, Clyde L. (*with* Suri, Subhash) Transitions in geometric minimum spanning trees. **93g:68142**
Moore, R. E. M. (*with* Angell, I. O.) Voronoï polygons and polyhedra. (English summary) **93m:68179**
Mori, Shunji *see* **Nakajima, Yu; et al., (93f:68006)**
Morin, T. L. *see* **Kaiser, M. J., 93g:68138**
Motwani, Rajeev (*with* Raghunathan, Arvind; Saran, Huzur) Covering orthogonal polygons with star polygons: the perfect graph approach. (English summary) (*see* **93k:68003**)
Mount, David M. (*with* Saalfeld, Alan) Globally-equiangular triangulations of co-circular points in $O(n \log n)$ time. (*see* **93k:68003**)
— *see also* **Chandran, Sharat; et al., 93e:68128** *and* **93f:68092**
Mücke, Ernst Peter *see* **Edelsbrunner, Herbert, (93k:68003)**
Mukherjee, Maharaj *see* **Mehta, Shashank; et al., (93b:68006)**
Müller, Heinrich *see* **Abramowski, Stephan, 93a:68145**
Nagy, George *see* **Mehta, Shashank; et al., (93b:68006)**
Näher, Stefan *see* **Alt, Helmut; et al., 93k:68097**
Nakajima, Yu (*with* Nishida, Hirobumi; Mori, Shunji) Shape description and classification based on extremal points and their relations. (English summary) (*see* **93f:68006**)
Nakamura, Y. Geometric fusion: minimizing uncertainty ellipsoid volumes. (*see* **93g:68002**)
Nievergelt, Jürg *see* **Hinrichs, Klaus; et al., 93d:68069**
Nilsson, Bengt J. *see* **de Berg, Mark T.; et al., 93j:68208**
Nishida, Hirobumi *see* **Nakajima, Yu; et al., (93f:68006)**
Ntafos, Simeon Watchman routes under limited visibility. **93a:68155**
Oda, Masami Visualization of topological three manifolds. **93g:68143**
Ó'Dúnlaing, Colm *see* **Goodrich, Michael T.; et al., 93m:68167**
Oommen, B. J. (*with* Reichstein, I.) On the problem of multiple mobile robots cluttering a workspace. **93c:68103**
O'Rourke, Joseph Computational geometry column 15. **93e:68133**
— *see also* **Aronov, Boris, 93h:68135** *and* **McKenna, Michael, (93k:68003)**
Overmars, Mark H. Point location in fat subdivisions. (English summary) **93k:68106**
— *see also* **Halperin, Dan; et al., 93a:68150**; **de Berg, Mark T., 93c:68099**; **93e:68127**; **van Kreveld, Marc; et al., 93f:68096**; **de Berg, Mark T.; et al., 93j:68208** *and* **Katz, Matthew J.; et al.**
Pach, János *see* **Edelsbrunner, Herbert; et al., 93g:68136** *and* **Matoušek, Jiří; et al., 93i:68180**
Pal, Sankar Kumar (*with* Ghosh, Ashish) Fuzzy geometry in image analysis.
Pal, Sudebkumar Prasant *see* **Ghosh, Subir Kumar; et al., 93f:68093**
Patnaik, L. M. *see* **Haldar, Chandan, 93i:68172**
Peng, Qun Sheng *see* **Zhang, San Yuan,** (**93a:68006**)
Perucchio, Renato *see* **Sapidis, Nickolas S., 93a:68157**
Piperno, A. *see* **Crescenzi, Pierluigi; et al.**
Pollack, Richard *see* **Edelsbrunner, Herbert; et al., 93g:68136**
Preparata, Franco P. (*with* Vitter, Jeffrey Scott; Yvinec, Mariette) Output-sensitive generation of the perspective view of isothetic parallelepipeds. (English summary)
— (*with* Tamassia, Roberto) Efficient point location in a convex spatial cell-complex. **93c:68104**
— *see also* **Amato, Nancy M., 93d:68064** *and* **Chiang, Yi-Jen; et al., (93k:05002)**
Puerta Balda, Antonio *see* **Hernández Barrera, Antonio; et al.**
Rackovic, M. *see* **Surla, D.**
Raghavan, Prabhakar *see* **Aggarwal, Alok; et al., 93a:68147**
Raghunathan, Arvind *see* **Motwani, Rajeev; et al., (93k:68003)**
Ramkumar, G. D. S. *see* **Datta, Amitava; et al.**
Ranjan, Desh (*with* Rus, Daniela) A tool for the analysis of manipulation. (English summary) **93j:68215**
Rau-Chaplin, Andrew *see* **Dehne, Frank; et al., 93g:68135** *and* **93i:68171**
Recio Muñiz, Tomás J. *see* **Mazón, M. L., (93b:68004)**
Reichstein, I. *see* **Oommen, B. J., 93c:68103**
Reif, John H. (*with* Sen, Sandeep) Optimal randomized parallel algorithms for computational geometry. **93c:68105**
Remila, Éric Un algorithme en temps linéaire pour paver les pièces horizontalement convexes par h_2 et v_2. (English summary) [A linear algorithm for tiling horizontally convex figures with h_2 and v_2] **93c:68106**
— Un algorithme de pavage des trapèzes par h_m et v_n. (English summary) [An algorithm for tiling trapezes with h_m and v_n] **93c:68107**
Rival, Ivan *see* **Foldes, Stephan; et al., 93c:68100**
Rote, Günter (*with* Woeginger, Gerhard J.) Counting convex k-gons in planar point sets. **93c:68108**
— *see also* **Fleischer, Rudolf; et al., 93j:68213** *and* **Mitchell, Joseph S. B.; et al., 93j:68214**
Rüb, Christine Line-segment intersection reporting in parallel. **93i:68182**
Rülling, Wolfgang *see* **Gao, Shaodi; et al., (93k:68003)**
Ruppert, Jim (*with* Seidel, Raimund) On the difficulty of triangulating three-dimensional nonconvex polyhedra. **93g:68144**

Rus, Daniela *see* **Ranjan, Desh, 93j:68215**
Saalfeld, Alan *see* **Mount, David M., (93k:68003)**
Sack, Jörg-Rüdiger *see* **Dickerson, Matthew T.; et al., 93j:68212**
Salowe, Jeffrey S. Enumerating interdistances in space. **93a:68156**
Saluja, Sanjeev *see* **Ghosh, Subir Kumar; et al., 93f:68093**
Sapidis, Nickolas S. (*with* Perucchio, Renato) Domain Delaunay tetrahedrization of solid models. **93a:68157**
Saran, Huzur *see* **Motwani, Rajeev; et al., (93k:68003)**
Sarkar, Dilip (*with* Stojmenović, Ivan) Parallel algorithms for separation of two sets of points and recognition of digital convex polygons. (English summary) **93m:68180**
Schirra, Stefan *see* **Alt, Helmut; et al., 93k:68097**
Schorn, Peter *see* **Hinrichs, Klaus; et al., 93d:68069**
Schott, René *see* **Boissonnat, Jean-Daniel; et al., 93a:68148**
Schüle, Eik *see* **Lorz, Udo, 93k:68105**
Schwarz, Christian (*with* Smid, Michiel) An $O(n \log n \log\log n)$ algorithm for the on-line closest pair problem. (*see* **93b:68005**)
Schwarzkopf, Otfried *see* **Agarwal, Pankaj K.; et al., 93a:68146**
Sedgewick, Robert *see* **Golin, Mordecai J., (93k:68003)**
Seidel, Raimund *see* **Edelsbrunner, Herbert; et al., 93g:68136** *and* **Ruppert, Jim, 93g:68144**
Sen, Sandeep *see* **Reif, John H., 93c:68105**
Sevast'yanov, S. V. *see* **Avgustinovich, S. V., 93j:68207**
Sharir, Micha (*with* Sifrony, Shmuel) Coordinated motion planning for two independent robots. (English summary) **93j:68216**
— *see also* **Halperin, Dan; et al., 93a:68150**; **Agarwal, Pankaj K.; et al., 93d:68063**; **Halperin, Dan, 93d:68068**; **Guibas, Leonidas J.; et al., 93e:68130**; **Edelsbrunner, Herbert; et al., 93g:68136**; **Matoušek, Jiří; et al., 93i:68180**; **Chazelle, Bernard; et al., 93j:68209**; **Agarwal, Pankaj K., 93m:68159**; **Katz, Matthew J.; et al.**; **Mehlhorn, Kurt; et al., (93b:68005)**; **Agarwal, Pankaj K., (93k:68003)**; **Guibas, Leonidas J.; et al., (93k:68003)**; **Kedem, Klara, (93k:68003)** *and* **Aronov, Boris, (93k:68003)**
Shekhar, Shashank *see* **Latombe, Jean-Claude; et al., 93e:68131**
Shermer, Thomas C. A counterexample to the algorithms for determining opaque minimal forests. **93e:68134**
— *see also* **Belleville, Patrice, 93m:68160**
Shor, Peter W. (*with* Van Wyk, Christopher J.) Detecting and decomposing self-overlapping curves. (English summary) **93i:68183**
— *see also* **Clarkson, Kenneth L., (93k:68003)**
Shugart, Jason *see* **Dickerson, Matthew T.**
Sifrony, Shmuel *see* **Matoušek, Jiří; et al., 93i:68180**; **Sharir, Micha, 93j:68216** *and* **Guibas, Leonidas J.; et al., (93k:68003)**
Skiena, Steven Sol *see* **Joseph, Eugene, 93i:68177**
Slisenko, A. O. *see* **Krick, Teresa; et al., 93b:68088**
Sloboda, F. (*with* Zaťko, B.; Ferianc, P.) Minimum perimeter polygon and its application. (English summary) **93k:68107**
Smid, Michiel Maintaining the minimal distance of a point set in polylogarithmic time. **93d:68070**
— *see also* **Schwarz, Christian, (93b:68005)**
Solernó, P. *see* **Krick, Teresa; et al., 93b:68088**
Soltan, V. P. (*with* Gorpinevich, A. N.) Minimum dissection of a rectilinear polygon with arbitrary holes into rectangles. (English summary) **93i:68184**
Srikant, R. *see* **Datta, Amitava; et al.**
Stahs, Thomas (*with* Wahl, Friedrich) Recognition of polyhedral objects under perspective views. (English summary) **93g:68145**
Stojmenović, Ivan *see* **Sarkar, Dilip, 93m:68180**
Storb, Christoph *see* **Gao, Shaodi; et al., (93k:68003)**
Sugie, Noboru *see* **Ying, Jiang Qian, 93b:68090**
Suri, Subhash *see* **Agarwal, Pankaj K.; et al., 93f:68090**; **Hershberger, John, 93f:68095**; **Mitchell, Joseph S. B., 93f:68097** *and* **Monma, Clyde L., 93g:68142**
Surla, D. (*with* Rackovic, M.) The application of ψ-transform for determining a near-optimal path in the presence of polyhedral obstacles. (German summary)
Suzuki, Ichiro (*with* Yamashita, Masafumi) Searching for a mobile intruder in a polygonal region. (English summary) **93i:68185**
Tai, Mei Hua *see* **Zhu, Ren Zhi; et al.**
Tamassia, Roberto *see* **Preparata, Franco P., 93c:68104**; **Chiang, Yi-Jen, 93j:68210** *and* **(93k:05002)**
T'ang, Ch'uan I *see* **Chang, Maw Shang; et al., 93d:68066** *and* **Liou, W. T.; et al., 93e:68132**
Tarjan, Robert Endre *see* **Kirkpatrick, David G.; et al., 93c:68101**; **Clarkson, Kenneth L.; et al., 93k:68100a**; **93k:68100b** *and* **(93k:68003)**
Taylor, Walter F. ★ The geometry of computer graphics. **93a:68158**
Teillaud, Monique *see* **Boissonnat, Jean-Daniel; et al., 93a:68148**
Teller, Seth J. *see* **Hohmeyer, Michael E.**
Teo, Kim-Heng (*with* Tuan, Tai Ching) An efficient one-side height minimization algorithm for routing around a rectangle.
Tiwari, Prasoon *see* **Aggarwal, Alok; et al., 93a:68147**
Toledo, Sivan *see* **Agarwal, Pankaj K.; et al., 93d:68063**
Tuan, Tai Ching *see* **Teo, Kim-Heng**
Uhrig, Christian *see* **Alt, Helmut; et al., 93k:68097**
Umlauf, Uwe (*with* Jin, Feng) Almost $g2$-continuous transitions between sculptured surfaces. (*see* **93a:68006**)
Urabe, Masatsugu (*with* Watanabe, Mamoru) On a counterexample to a conjecture of Mirzaian. (English summary) **93m:68177**
Urrutia, Jorge *see* **Foldes, Stephan; et al., 93c:68100**
Van Wyk, Christopher J. *see* **Shor, Peter W., 93i:68183** *and* **Clarkson, Kenneth L.; et al., (93k:68003)**
Vasyukov, A. N. (*with* Komarov, Yu. A.; Yanovich, I. A.) ★ Логико-алгебраические методы решения геометрических задач и разработка программного обеспечения САПР. (Russian) [Logic-algebraic methods for solving geometric problems and the development of software for computer-aided design systems] **93a:68159**
Veni Madhavan, C. E. *see* **Ghosh, Subir Kumar; et al., 93f:68093**
Vitter, Jeffrey Scott *see* **Preparata, Franco P.; et al.**
(Volkov, V. Ya.) *see* **Geometric modeling of engineering objects and technological processes, 93k:68108**
Wahl, Friedrich *see* **Stahs, Thomas, 93g:68145**
Wang, Cao An *see* **Joe, Barry, 93m:68169**
Watanabe, Mamoru *see* **Urabe, Masatsugu, 93m:68177**
Welzl, Emo Partition trees for triangle counting and other range searching problems. (English summary) (*see* **93k:68003**)
— *see also* **Agarwal, Pankaj K.; et al., 93a:68146**; **Matoušek, Jiří; et al., 93i:68179**; **93i:68180**; **Chazelle, Bernard; et al., 93j:68209**; **Fleischer, Rudolf; et al., 93j:68213**; **Matoušek, Jiří, 93m:68173** *and* **Mehlhorn, Kurt; et al., (93b:68005)**
Wernisch, Lorenz *see* **Matoušek, Jiří; et al., 93i:68179**
Wilfong, Gordon Motion planning in the presence of movable obstacles. (English summary) (*see* **93k:68003**)
— Motion planning in the presence of movable obstacles. (English summary) **93m:68181**
— *see also* **Fortune, Steven, 93m:68165** *and* **Aronov, Boris; et al., (93k:68003)**
Wismath, S. K. Computing the full visibility graph of a set of line segments. (English summary)
Woeginger, Gerhard J. Finding the closest extreme vertex to a fixed point. **93i:68186**
— *see also* **Rote, Günter, 93c:68108** *and* **Mitchell, Joseph S. B.; et al., 93j:68214**
Wong, Chak Kuen *see* **Yang, Chung-Do; et al., 93a:68160**
Yamamoto, Peter (*with* Kato, Kenji; Imai, Keiko; Imai, Hiroshi) Algorithms for vertical and orthogonal L_1 linear approximation of points. (English summary) (*see* **93k:68003**)
Yamashita, Masafumi *see* **Suzuki, Ichiro, 93i:68185**
Yang, Chung-Do (*with* Lee, Der Tsai; Wong, Chak Kuen) On bends and lengths of rectilinear paths: a graph-theoretic approach. **93a:68160**
— *see also* **Lee, Der Tsai; et al., 93c:68102**
Yanovich, I. A. *see* **Vasyukov, A. N.; et al., 93a:68159**
Yap, Chee-Keng A geometric consistency theorem for a symbolic perturbation scheme. (English summary) (*see* **93k:68003**)
— *see also* **Fleischer, Rudolf; et al., 93j:68213** *and* **Goodrich, Michael T.; et al., 93m:68167**
Ying, Jiang Qian (*with* Sugie, Noboru) Polygonal representation of algebraic curve segments and directed graphs of algebraic curves. **93b:68090**
— (*with* Sugie, Noboru) On sorting points along a real algebraic curve. (English summary)
Yvinec, Mariette *see* **Boissonnat, Jean-Daniel; et al., 93a:68148**; **93h:68138** *and* **Preparata, Franco P.; et al.**
Zaťko, B. *see* **Sloboda, F.; et al., 93k:68107**
Zhang, San Yuan (*with* Peng, Qun Sheng) A study of singular and planar intersections between two quadric surfaces by means of algebraic methods. (*see* **93a:68006**)
Zheng, Zhi Jie (*with* Maeder, Anthony J.) The conjugate classification of the kernel form of the hexagonal grid. (English summary) (*see* **93f:68006**)
Zhou, Xiaolin Representation of quadrics using NURBS. (*see* **93a:68006**)
Zhu, Binhai Computing the shortest diagonal of a monotone polygon in linear time.
Zhu, Ren Zhi (*with* Tai, Mei Hua; Deng, Yi Min) A new algorithm for removing hidden lines and obtaining intersections of three-dimensional objects. (Chinese. English and Chinese summaries)

Items listed otherwise than by author

Berkeley, CA ★ 1990 Computational Geometry Symposium.
Geometric modeling of engineering objects and technological processes ★ Геометрическое моделирование инженерных объектов и технологических процессов. (Russian) [Geometric modeling of engineering objects and technological processes] **93k:68108**
North Conway, NH ★ Selected papers from the 7th Annual Symposium on Computational Geometry. I. **93f:68098**
Symposium:
Computational Geometry ★ Selected papers from the 7th Annual Symposium on Computational Geometry. I. **93f:68098**
— ★ 1990 Computational Geometry Symposium.

Items with secondary classifications in 68U05

(Abidi, Mongi A.) *see* **Data fusion in robotics and machine intelligence, 93g:68002**
Alon, Noga (*with* Azar, Yossi) Comparison-sorting and selecting in totally monotone matrices. (*see* **93b:68005**)
Asano, Tetsuo (*with* Bhattacharya, Binay; Keil, J. Mark; Yao, Foong Frances) Clustering algorithms based on minimum and maximum spanning trees. (English summary) (*see* **93k:68003**)
Atallah, Mikhail J. (*with* Tsay, Jyh Jong) On the parallel-decomposability of geometric problems. (English summary) **93i:68077**
Azar, Yossi *see* **Alon, Noga, (93b:68005)**
Baart, M. L. *see* **Coetzee, M. A., 93m:65021**
Bajaj, Chanderjit L. (*with* Kim, Myung Soo) Convex hulls of objects bounded by algebraic curves. **93c:52016**
Berger, Marc A. Random affine iterated function systems: curve generation and wavelets. (English summary) **93g:58069**
Bhattacharya, Binay *see* **Asano, Tetsuo; et al., (93k:68003)**
Bijma, Jelle *see* **Ott, Rolf; et al., 93j:52024**
de Boer, Martin J. M. (*with* Lindenmayer, Aristid; Tuza, Zsolt) A periodic division pattern that cannot be generated by DOL systems. **93a:68068**
Bougé, Luc (*with* Cosnard, Michel) Recouvrement d'une pièce trapézoïdale par des dominos. (English and French summaries) [Tiling a trapezoidal region with dominoes] **93j:05034**
Bousquet-Mélou, Mireille Convex polyominoes and algebraic languages. **93f:05031**
Broida, T. J. Kinematic and statistical models for data fusion using Kalman filtering. (*see* **93g:68002**)
Brown, Christopher (*with* Durrant-Whyte, H.; Leonard, J.; Rao, B. Y.; Steer, Brian) Distributed data fusion using Kalman filtering: a robotics application. (*see* **93g:68002**)
Canny, John F. *see* **Manocha, Dinesh, 93d:14090**
Chang, Ruei Chuan *see* **Hsu, F. R.; et al., 93h:52020**
Coetzee, M. A. (*with* Baart, M. L.) Review of geometric continuity, with application to the construction of G^2 continuous curves. (English summary) **93m:65021**

Comellas, F. Using genetic algorithms for planarization problems. (English summary) (*see* **93j:00007**)
Cosnard, Michel *see* **Bougé, Luc, 93j:05034**
Crombez, G. Group theoretical methods in gray-scale mathematical morphology. (Serbo-Croatian summary) **93e:68135**
Díaz, Matthew (*with* O'Rourke, Joseph) Chord centers for convex polygons. **93b:52015**
Di Battista, Giuseppe (*with* Tamassia, Roberto; Tollis, Ioannis G.) Area requirement and symmetry display of planar upward drawings. **93i:05053**
Dierckx, P. (*with* Van Leemput, S.; Vermeire, T.) Algorithms for surface fitting using Powell-Sabin splines. **93b:65026**
Dillon, Meighan *see* **Loustau, John, 93j:51001**
Djidjev, Hristo N. (*with* Lingas, Andrzej; Sack, Jörg-Rüdiger) An $O(n \log n)$ algorithm for computing the link center of a simple polygon. **93g:52011**
Domínguez Murillo, Eladio (*with* Márquez, Alberto) Properties of universal graphs that arise in digital geometry and topology. (Spanish) (*see* **93b:68004**)
Durrant-Whyte, H. *see* **Brown, Christopher; et al., (93g:68002)**
Edelsbrunner, Herbert (*with* Guibas, Leonidas J.; Hershberger, John; et al.) On arrangements of Jordan arcs with three intersections per pair. (English summary) (*see* **93k:68003**)
Filatova, S. A. *see* **Golubtsov, P. V., 93h:00013**
Garrett, Brett T. Circle packings and polyhedral surfaces. (English summary) **93g:52014**
Golin, Mordecai J. Maxima in convex regions. (English summary) **93m:90059**
Golubtsov, P. V. (*with* Filatova, S. A.) Multivalued measurement-computer systems. (Russian. English and Russian summaries) **93h:00013**
(Gonzalez, Rafael C.) *see* **Data fusion in robotics and machine intelligence, 93g:68002**
Goodman, T. N. T. Joining rational curves smoothly. **93a:65018**
Gopalsamy, S. (*with* Khandekar, Dilip; Mudur, S. P.) A new method of evaluating compact geometric bounds for use in subdivision algorithms. **93b:65090**
Guibas, Leonidas J. *see* **Edelsbrunner, Herbert; et al., (93k:68003)**
Hambrusch, Susanne E. (*with* Tu, Hung Yi) A framework for 1-D compaction with forbidden region avoidance. **93e:68033**
Hemleben, Christoph *see* **Ott, Rolf; et al., 93j:52024**
Henderson, Thomas C. ★ Discrete relaxation techniques. **93i:65135**
Hershberger, John *see* **Snoeyink, Jack, 93e:52031** *and* **Edelsbrunner, Herbert; et al., (93k:68003)**
Hodgson, Craig D. (*with* Rivin, Igor; Smith, Warren D.) A characterization of convex hyperbolic polyhedra and of convex polyhedra inscribed in the sphere. **93a:52009**
— (*with* Rivin, Igor; Smith, Warren D.) Erratum: "A characterization of convex hyperbolic polyhedra and of convex polyhedra inscribed in the sphere" [Bull. Amer. Math. Soc. (N.S.) **27** (1992), no. 2, 246–251; MR 93a:52009]. **93i:52018**
Hoskins, J. A. (*with* Hoskins, W. D.; Stanton, R. G.) A note on tesselations arising from multispecies competition. (English summary)
Hoskins, W. D. *see* **Hoskins, J. A.; et al.**
Hsu, F. R. (*with* Chang, Ruei Chuan; Lee, R. C. T.) Parallel algorithms for computing the closest visible vertex pair between two polygons. **93h:52020**
Huang, Nen Fu On the complexity of two circle strongly connecting problems. (English summary) **93h:05152**
Ivanov, A. O. (*with* Tuzhilin, Aleksei Avgustinovich) Geometry of minimal nets and the one-dimensional Plateau problem. (Russian. Russian summary) **93i:05050**
Izmailov, R. N. (*with* Pokrovskii, A. V.) Asymptotic classification of aliasing structures. (English summary) **93j:68222**
Kannan, Sampath K. (*with* Soroker, Danny) Tiling polygons with parallelograms. **93b:52023**
Keil, J. Mark *see* **Asano, Tetsuo; et al., (93k:68003)**
Khandekar, Dilip *see* **Gopalsamy, S.; et al., 93b:65090**
Kim, Myung Soo *see* **Bajaj, Chanderjit L., 93c:52016**
Kirkpatrick, David G. (*with* Mishra, Bhubaneswar; Yap, Chee-Keng) Quantitative Steinitz's theorems with applications to multifingered grasping. **93h:52007**
Klein, Rolf (*with* Mehlhorn, Kurt; Meiser, Stefan) Randomized incremental construction of abstract Voronoĭ diagrams. (English summary) **93f:65013**
(Kong, T. Yung) *see* **Special Issue: Digital topology, 93g:68151**
(Kopperman, Ralph) *see* **Special Issue: Digital topology, 93g:68151**
Korostelëv, A. P. (*with* Tsybakov, A. B.) Estimating the support of a density and functionals of it. (Russian. Russian summary) **93m:62078**
Kranakis, Evangelos (*with* Pocchiola, Michel) A brief survey of art gallery problems in integer lattice systems. **93f:52022**
Lee, R. C. T. *see* **Hsu, F. R.; et al., 93h:52020**
Leonard, J. *see* **Brown, Christopher; et al., (93g:68002)**
Levcopoulos, Christos (*with* Lingas, Andrzej) Fast algorithms for greedy triangulation. **93f:05039**
Lin, Jyh-Han (*with* Vitter, Jeffrey Scott) Approximation algorithms for geometric median problems. (English summary) **93m:05187**
Lindenmayer, Aristid *see* **de Boer, Martin J. M.; et al., 93a:68068**
Lingas, Andrzej *see* **Levcopoulos, Christos, 93f:05039** *and* **Djidjev, Hristo N.; et al., 93g:52011**
Litvinko, P. G. *see* **Rublev, B. V.; et al., 93m:52001a** *and* **93m:52001b**
Loustau, John (*with* Dillon, Meighan) ★ Linear geometry with computer graphics. (English. English summary) **93j:51001**
Lovász, László Geometric algorithms and algorithmic geometry. **93e:52030**
— Geometric algorithms and algorithmic geometry. **93e:52001**
Manocha, Dinesh (*with* Canny, John F.) Implicit representation of rational parametric surfaces. **93d:14090**
Márquez, Alberto *see* **Domínguez Murillo, Eladio, (93b:68004)**
Mehlhorn, Kurt *see* **Klein, Rolf; et al., 93f:65013**
Meiser, Stefan *see* **Klein, Rolf; et al., 93f:65013**
(Meyer, Paul R.) *see* **Special Issue: Digital topology, 93g:68151**
Mishra, Bhubaneswar *see* **Kirkpatrick, David G.; et al., 93h:52007**
Monma, Clyde L. (*with* Paterson, Michael S.; Suri, Subhash; Yao, Foong Frances) Computing Euclidean maximum spanning trees. (English summary) (*see* **93k:68003**)
Mubarakzyanov, R. G. Some improvements of the estimates in our paper: "Intersection of a space and a polyhedral cone" [in *Probabilistic methods and cybernetics, No. 22 (Russian)*, 24–27, Kazan. Gos. Univ., Kazan′, 1987; MR 89k:52005]. (Russian) **93k:52010**
Mudur, S. P. *see* **Gopalsamy, S.; et al., 93b:65090**
Mulmuley, Ketan (*with* Sen, Sandeep) Dynamic point location in arrangements of hyperplanes. **93m:68035**
Olariu, Stephan The morphology of convex polygons. (English summary) **93f:52020**
O'Rourke, Joseph *see* **Díaz, Matthew, 93b:52015**
Ott, Rolf (*with* Bijma, Jelle; Hemleben, Christoph; Signes, Miguel) A computer method for estimating volumes and surface areas of complex structures consisting of overlapping spheres. (English summary) **93j:52024**
Paterson, Michael S. *see* **Monma, Clyde L.; et al., (93k:68003)**
Pellegrini, Marco (*with* Shor, Peter W.) Finding stabbing lines in 3-space. **93h:52021**
Petunin, Yu. I. *see* **Rublev, B. V.; et al., 93m:52001a** *and* **93m:52001b**
Pocchiola, Michel *see* **Kranakis, Evangelos, 93f:52022**
Pokrovskii, A. V. *see* **Izmailov, R. N., 93j:68222**
(Possolo, Antonio) *see* **Spatial statistics and imaging, 93g:62004**
Rao, B. Y. *see* **Brown, Christopher; et al., (93g:68002)**
Reif, John H. (*with* Sen, Sandeep) Optimal parallel randomized algorithms for three-dimensional convex hulls and related problems. **93f:68038**
Richards, Dana S. (*with* Salowe, Jeffrey S.) Stacks, queues, and deques with order-statistic operations. (English summary) **93i:68048**
Rivin, Igor *see* **Hodgson, Craig D.; et al., 93a:52009** *and* **93i:52018**
Rublev, B. V. (*with* Petunin, Yu. I.; Litvinko, P. G.) The structure of homothetic linearly separable sets in an n-dimensional Euclidean space. I. (Russian. English and Ukrainian summaries) **93m:52001a**
— (*with* Petunin, Yu. I.; Litvinko, P. G.) The structure of homothetic linearly separable sets in an n-dimensional Euclidean space. II. (Russian. English and Ukrainian summaries) **93m:52001b**
Sack, Jörg-Rüdiger *see* **Djidjev, Hristo N.; et al., 93g:52011**
Salowe, Jeffrey S. *see* **Richards, Dana S., 93i:68048**
Sen, Sandeep *see* **Reif, John H., 93f:68038** *and* **Mulmuley, Ketan, 93m:68035**
Sendra, J. Rafael (*with* Winkler, Franz) Symbolic parametrization of curves. **93a:14053**
Shor, Peter W. *see* **Pellegrini, Marco, 93h:52021**
Signes, Miguel *see* **Ott, Rolf; et al., 93j:52024**
Smith, Warren D. *see* **Hodgson, Craig D.; et al., 93a:52009** *and* **93i:52018**
Snoeyink, Jack (*with* Hershberger, John) Sweeping arrangements of curves. **93e:52031**
Soroker, Danny *see* **Kannan, Sampath K., 93b:52023**
Stanton, R. G. *see* **Hoskins, J. A.; et al.**
Steer, Brian *see* **Brown, Christopher; et al., (93g:68002)**
Suri, Subhash *see* **Monma, Clyde L.; et al., (93k:68003)**
Tamassia, Roberto *see* **Di Battista, Giuseppe; et al., 93i:05053**
Tollis, Ioannis G. *see* **Di Battista, Giuseppe; et al., 93i:05053**
Tourin, Agnès A comparison theorem for a piecewise Lipschitz continuous Hamiltonian and application to shape-from-shading problems. **93d:65064**
Tsay, Jyh Jong *see* **Atallah, Mikhail J., 93i:68077**
Tsybakov, A. B. *see* **Korostelëv, A. P., 93m:62078**
Tu, Hung Yi *see* **Hambrusch, Susanne E., 93e:68033**
Tuza, Zsolt *see* **de Boer, Martin J. M.; et al., 93a:68068**
Tuzhilin, Aleksei Avgustinovich *see* **Ivanov, A. O., 93i:05050**
Van Leemput, S. *see* **Dierckx, P.; et al., 93b:65026**
Veltkamp, Remco C. The γ-neighborhood graph. **93h:05137**
Vermeire, T. *see* **Dierckx, P.; et al., 93b:65026**
Vitter, Jeffrey Scott *see* **Lin, Jyh-Han, 93m:05187**
Whiteley, Walter Matroids and rigid structures. **93h:52029**
Winkler, Franz *see* **Sendra, J. Rafael, 93a:14053**
Yadgarov, Dzh. Ya. ★ Некоторые вопросы конструирования ротативных и спироидальных поверхностей. (Russian. Russian summary) [Some problems on the construction of rotational and spiral surfaces] **93k:53019**
Yao, Foong Frances *see* **Monma, Clyde L.; et al., (93k:68003)** *and* **Asano, Tetsuo; et al., (93k:68003)**
Yap, Chee-Keng *see* **Kirkpatrick, David G.; et al., 93h:52007**
Ye, Zheng Lin Planar rational curves of third order of arbitrary families of functions. (Chinese. English summary) **93c:65025**

Items listed otherwise than by author

Brunswick, ME ★ Spatial statistics and imaging. **93g:62004**
Conference:
Image Analysis and Spatial Statistics ★ Spatial statistics and imaging. **93g:62004**
Data fusion in robotics and machine intelligence ★ Data fusion in robotics and machine intelligence. **93g:68002**
Spatial statistics and imaging ★ Spatial statistics and imaging. **93g:62004**
Special Issue:
Digital topology ★ Special issue on digital topology. **93g:68151**

68U07 Computer-aided design

Hoffmann, Christoph M. (*with* Vaněček, George, Jr.) Fundamental techniques for geometric and solid modeling. **93c:68109**
Vaněček, George, Jr. *see* **Hoffmann, Christoph M., 93c:68109**

Items with secondary classifications in 68U07

Abramowski, Stephan (*with* Müller, Heinrich) ★ Geometrisches Modellieren. (German) [Geometric modeling] **93a:68145**
Bez, H. E. An analysis of symmetry for plane curves and plane curve algorithms. **93e:65026**
Budach, Lothar Recursive VLSI-design and fractals. (English summary) **93j:68083**
Falcidieno, Bianca (*with* Spagnuolo, Michela) Polyhedral surface decomposition based on curvature analysis. (English summary) **93i:53003**
Goodman, T. N. T. (*with* Micchelli, Charles A.) On refinement equations determined by Pólya frequency sequences. **93e:41018**
Johnstone, John K. A new intersection algorithm for cyclides and swept surfaces using circle decomposition. (English summary) **93m:53003**

Micchelli, Charles A. *see* **Goodman, T. N. T., 93e:41018**
Müller, Heinrich *see* **Abramowski, Stephan, 93a:68145**
Prikhozhii, A. A. Methods for transforming logical algorithms in very large scale integration computer-aided design systems. (Russian. English and Russian summaries)
Smelyakov, S. V. *see* **Stoyan, Yu. G., 93m:65194**
Spagnuolo, Michela *see* **Falcidieno, Bianca, 93i:53003**
Stoyan, Yu. G. (*with* Smelyakov, S. V.) Elementary and axiomatic basis of numerical geometry. (English summary) **93m:65194**

68U10 Image processing

Álvarez León, Luis (*with* Guichard, Frédéric; Lions, Pierre-Louis; Morel, Jean-Michel) Équations fondamentales de l'analyse multiéchelle des films. (English and French summaries) [Fundamental equations of the multiscale analysis of movies] **93j:68217**
Andonie, Răzvan (*with* Carai, Eugen) Gaussian smoothing by optimal iterated uniform convolutions. (English summary) **93h:68140**
(Anson, Louisa F.) *see* **Barnsley, Michael F., 93m:68182**
Barnsley, Michael F. (*with* Hurd, Lyman P.) ★ Fractal image compression. **93m:68182**
Berger, Marc A. IFS algorithms for wavelet transforms, curves and surfaces, and image compression. (*see* **93e:62005**)
Bhandari, Dinabandhu *see* **Pal, Nikhil R.**
Birk, Yitzhak (*with* Lotspiech, Jeffrey B.) On finding nonintersecting straightline connections of grid points to the boundary. (English summary) **93h:68141**
Bouchitte, Vincent (*with* Jegou, Roland; Rampon, Jean-Xavier) Ordres représentables par des translations de segments dans le plan. (English and French summaries) [Representing orders by translating line-segments in the plane] **93j:68218**
Brooks, Michael J. (*with* Chojnacki, Wojciech; Kozera, Ryszard) Shading without shape. **93b:68091**
Bruckstein, Alfred (*with* Tannenbaum, Allen R.) Some mathematical problems in computer vision. (English summary) **93j:68219**
Bui, Tien Dai *see* **Li, Zi-Cai; et al., 93i:68188**
Bustos, Oscar H. (*with* Frery, Alejandro C.) A contribution to the study of Markovian degraded images: an extension of a theorem by Geman and Geman. (English and Portuguese summaries) **93i:68187**
Carai, Eugen *see* **Andonie, Răzvan, 93h:68140**
Catoni, Olivier Image restoration by stochastic dichotomic reconstruction of contour lines. (*see* **93e:62005**)
(Chakrabarti, P. P.) *see* **Das, P. P., 93g:68146**
(Chatterji, B. N.) *see* **Das, P. P., 93g:68146**
Chaudhury, Santanu (*with* Subramanian, S.; Parthasarathy, Guturu) Abductive formalism for two-dimensional object recognition. (English summary) **93j:68220**
(Chellappa, Rama) *see* **Markov random fields, 93j:68224**
Cheng, Bing (*with* Kay, J. W.) Multiresolution reconstruction of a corrupted image using the wavelet transform. (English summary) (*see* **93k:62003**)
Chojnacki, Wojciech *see* **Brooks, Michael J.; et al., 93b:68091**
Coullard, Collette R. (*with* Lubiw, Anna) Distance visibility graphs. (English summary) **93j:68221**
Crombez, G. Group theoretical methods in gray-scale mathematical morphology. (Serbo-Croatian summary) **93e:68135**
Das, P. P. A note on: "Distance functions in digital geometry" [Inform. Sci. **42** (1987), no. 2, 113–136; MR 88e:68107] by Das, P. P. Chakrabarti and B. N. Chatterji. **93g:68146**
Dillencourt, M. B. (*with* Samet, H.; Tamminen, M.) Corrigenda: "A general approach to connected-component labeling for arbitrary image representations" [J. Assoc. Comput. Mach. **39** (1992), no. 2, 253–280].
Dougherty, Edward R. Euclidean gray-scale granulometries: representation and umbra inducement. **93h:68142**
— *see also* **Mathematical morphology in image processing, 93f:68100**
Frery, Alejandro C. *see* **Bustos, Oscar H., 93i:68187**
Gimel'farb, G. L. (*with* Zalesnyi, A. V.) ★ Цифровая обработка изображений, представленных моделями марковских случайных полей. (Russian. Russian summary) [Digital processing of images that are represented by Markov random field models] **93g:68147**
Goertzel, Ben On the structural complexity of sequences, images, and automata. (English summary) **93k:68109**
Gol'tsev, A. D. ★ Нейроподобная сеть с ансамблевой организацией, предназначенная для текстурной сегментации изображений. (Russian. Russian summary) [A neural-like network with ensemble organization intended for texture segmentation of images]
Guichard, Frédéric *see* **Álvarez León, Luis; et al., 93j:68217**
Hall, Richard W. Tests for connectivity preservation for parallel reduction operators. (English summary) **93m:68183**
Heijmans, Henk J. A. M. (*with* Vincent, Luc) Graph morphology in image analysis. (*see* **93f:68100**)
Hurd, Lyman P. *see* **Barnsley, Michael F., 93m:68182**
Ingle, V. K. *see* **Kok, A. L.; et al.**
Izmailov, R. N. (*with* Pokrovskii, A. V.) Asymptotic classification of aliasing structures. (English summary) **93j:68222**
(Jain, Anil) *see* **Markov random fields, 93j:68224**
Jegou, Roland *see* **Bouchitte, Vincent; et al., 93j:68218**
Kay, J. W. *see* **Cheng, Bing, (93k:62003)**
Keenan, Daniel Random surface geometries with applications to image processing. (English summary) **93g:68148**
Kent, John T. (*with* Wright, Christopher) Some suggestions for transmission tomography based on the EM algorithm. (English summary) (*see* **93e:62005**)
Kok, A. L. (*with* Manolakis, D. G.; Ingle, V. K.) Symmetric noncausal spatial models for 2-D signals with applications in stochastic texture modeling. (English summary)
Kong, T. Yung (*with* Rosenfeld, A.) Digital topology: a comparison of the graph-based and topological approaches. (*see* **93h:68004**)
— (*with* Kopperman, Ralph; Meyer, Paul R.) A topological approach to digital topology. **93b:68092**
— *see also* **Special Issue: Digital topology, 93g:68151**
Kopperman, Ralph *see* **Kong, T. Yung; et al., 93b:68092** *and* **Special Issue: Digital topology, 93g:68151**
Kozera, Ryszard *see* **Brooks, Michael J.; et al., 93b:68091**
Li, Dong Recursive operations in image algebra. **93g:68149**
Li, Zi-Cai (*with* Bui, Tien Dai; Tang, Yuan Yan; Suen, Ching Yun) ★ Computer transformation of digital images and patterns. **93i:68188**
Lindeberg, Tony Scale-space behaviour of local extrema and blobs. **93g:68150**
Lions, Pierre-Louis *see* **Álvarez León, Luis; et al., 93j:68217**
Liu, Wen Yu (*with* Zhu, Yao Ting; Zhu, Guang Xi) A description of fractal and natural texture. (Chinese. English and Chinese summaries)
Lotspiech, Jeffrey B. *see* **Birk, Yitzhak, 93h:68141**
Lubiw, Anna *see* **Coullard, Collette R., 93j:68221**
Luo, Chuan Ping A new method for processing compressions of computer image operators—simplification of multivalued logic functions. (Chinese. English and Chinese summaries)
Manolakis, D. G. *see* **Kok, A. L.; et al.**
Meyer, Paul R. *see* **Kong, T. Yung; et al., 93b:68092** *and* **Special Issue: Digital topology, 93g:68151**
Molina, R. (*with* Ripley, B. D.) Deconvolution in optical astronomy. A Bayesian approach. (English summary) (*see* **93e:62005**)
Morel, Jean-Michel *see* **Álvarez León, Luis; et al., 93j:68217**
Mülthei, H. N. Iterative continuous maximum-likelihood reconstruction method. **93b:68093**
Nacken, P. Image compression using wavelets. (English summary) **93f:68099**
Oosterlinck, André *see* **Price, C. B.; et al.**
van Otterloo, Peter J. ★ A contour-oriented approach to shape analysis. **93h:68143**
Pal, Nikhil R. (*with* Bhandari, Dinabandhu) On object background classification. (English summary)
Pal, Sankar Kumar (*with* Wang, Lui) Fuzzy medial axis transformation (FMAT): practical feasibility. (English summary)
Parthasarathy, Guturu *see* **Chaudhury, Santanu; et al., 93j:68220**
Păun, Gheorghe A problem concerning the efficient description of pictures in the plane. (Romanian. English and Romanian summaries)
Pawlak, Mirosław On the reconstruction aspects of moment descriptors. (English summary)
Pokrovskii, A. V. *see* **Izmailov, R. N., 93j:68222**
Pong, Simon W. L. (*with* Venetsanopoulos, Anastasios N.) Rotationally invariant pecstrum: a rotationally invariant object descriptor based on mathematical morphology. (English summary)
Price, C. B. (*with* Wambacq, P.; Oosterlinck, André) The plastic coupled map lattice: a novel image-processing paradigm. (English summary)
Rampon, Jean-Xavier *see* **Bouchitte, Vincent; et al., 93j:68218**
Ripley, B. D. *see* **Molina, R., (93e:62005)**
Rodenacker, Karsten Applications of topology for evaluating pictorial structures. (English summary) **93k:68110**
Roerdink, Jos B. T. M. Mathematical morphology with noncommutative symmetry groups. **93m:68184**
Rosenfeld, A. *see* **Kong, T. Yung, (93h:68004)**
Samet, H. *see* **Dillencourt, M. B.; et al.**
Schmitt, Michel On two inverse problems in mathematical morphology. **93j:68223**
Subramanian, S. *see* **Chaudhury, Santanu; et al., 93j:68220**
Suen, Ching Yun *see* **Li, Zi-Cai; et al., 93i:68188**
Tamminen, M. *see* **Dillencourt, M. B.; et al.**
Tang, Yuan Yan *see* **Li, Zi-Cai; et al., 93i:68188**
Tannenbaum, Allen R. *see* **Bruckstein, Alfred, 93j:68219**
Venetsanopoulos, Anastasios N. *see* **Pong, Simon W. L.** *and* **Zervakis, M. E.**
Vincent, Luc *see* **Heijmans, Henk J. A. M., (93f:68100)**
Wambacq, P. *see* **Price, C. B.; et al.**
Wang, Lui *see* **Pal, Sankar Kumar**
Wright, Christopher *see* **Kent, John T., (93e:62005)**
Yang, Yibing (*with* Yuille, Alan) Grouping iso-velocity points for ego-motion recovery. (English summary) (*see* **93j:68007**)
Yuille, Alan *see* **Yang, Yibing, (93j:68007)**
Zalesnyi, A. V. *see* **Gimel'farb, G. L., 93g:68147**
Zervakis, M. E. (*with* Venetsanopoulos, Anastasios N.) Design of a new restoration algorithm based on the constrained mean-square-error criterion. (English summary)
Zhu, Guang Xi *see* **Liu, Wen Yu; et al.**
Zhu, Yao Ting *see* **Liu, Wen Yu; et al.**

Items listed otherwise than by author

Markov random fields ★ Markov random fields. **93j:68224**
Mathematical morphology in image processing ★ Mathematical morphology in image processing. **93f:68100**
Special Issue:
Digital topology ★ Special issue on digital topology. **93g:68151**

Items with secondary classifications in 68U10

Allen, Jeffery C. *see* **Whitehouse, Harper J., (93m:00045)**
(Barone, P.) *see* **Stochastic models, statistical methods, and algorithms in image analysis, 93e:62005**
Bhandari, Dinabandhu (*with* Pal, Nikhil R.) Some new information measures for fuzzy sets. (English summary) **93k:94002**
Bow, Sing-Tze ★ Pattern recognition and image preprocessing. **93g:68001**
Catté, Francine (*with* Lions, Pierre-Louis; Morel, Jean-Michel; Coll, Tomeu) Image selective smoothing and edge detection by nonlinear diffusion. **93a:94005**
Chandran, Sharat (*with* Kim, Sung Kwon; Mount, David M.) Parallel computational geometry of rectangles. **93e:68128**
Chua, Leon O. (*with* Shi, Bertram E.) Multiple layer cellular networks—a tutorial. **93f:92006**
Coll, Tomeu *see* **Catté, Francine; et al., 93a:94005**
Díaz, Matthew (*with* O'Rourke, Joseph) Chord centers for convex polygons. **93b:52015**

Dinten, J. M. (*with* Guyon, Xavier; Yao, Jian Feng) On the choice of the regularization parameter: the case of binary images in the Bayesian restoration framework. (English summary) **93j:60055**
Donchenko, V. S. (*with* Shpak, V. M.) Estimation of parameters based on the Hough transform. (Russian. Russian summary) (*see* **93m:60009**)
Dougherty, Edward R. *see* **Sinha, Divyendu, 93k:03055** *and* **Mathew, A. V.; et al.**
Fischer, Anat (*with* Gilboa, Itzhak; Shpitalni, Moshe) A polynomial algorithm for minimal interval representation. (English summary) **93h:68056**
(Frigessi, Arnoldo) *see* **Stochastic models, statistical methods, and algorithms in image analysis, 93e:62005**
Futagami, Kahoru An efficient method for searching characteristic patterns of a subset in a large set of character sequences. **93j:92023**
Gilboa, Itzhak *see* **Fischer, Anat; et al., 93h:68056**
Granville, V. (*with* Rasson, J.-P.) A new modelisation of noise in image remote sensing.
Gull, Stephen F. *see* **Skilling, John, (93g:62004)**
Guyon, Xavier *see* **Dinten, J. M.; et al., 93j:60055**
(Härdle, Wolfgang) *see* **Computer intensive methods in statistics, 93m:62004**
Haslett, John (*with* Horgan, Graham) Linear discriminant analysis in image restoration and the prediction of error rate. (English summary) (*see* **93g:62004**)
Hobby, John D. Polygonal approximations that minimize the number of inflections. (English summary) **93m:68185**
Horgan, Graham *see* **Haslett, John, (93g:62004)**
Kay, J. W. A comparison of smoothing parameter choices in image restoration. (English summary) (*see* **93g:62004**)
Kim, Sung Kwon *see* **Chandran, Sharat; et al., 93e:68128**
(Klette, Reinhard) *see* **Theoretical foundations of computer vision, 93j:68009**
Křivánek, Mirko Algorithmic and geometric aspects of cluster analysis. **93e:65022**
(Kropatsch, Walter G.) *see* **Theoretical foundations of computer vision, 93j:68009**
Lebedev, V. S. Estimation of the parameters of an image that is observable in two-parameter white noise. (Russian) (*see* **93b:60003**)
Lions, Pierre-Louis *see* **Catté, Francine; et al., 93a:94005**
Mathew, A. V. (*with* Dougherty, Edward R.; Swarnakar, V.) Efficient derivation of the optimal mean-square binary morphological filter from the conditional expectation via a switching algorithm for discrete power-set lattice. (English summary)
Matoušek, Jiří On vertical ray shooting in arrangements. (English summary) **93m:68175**
Mertzios, B. G. Shape discrimination and classification in robotic vision using scaled normalized central moments. (English summary) (*see* **93f:93005**)
Miller, Michael I. (*with* Roysam, Badrinath; Smith, Kurt; Udding, Jan Tijmen) On the equivalence of regular grammars and stochastic constraints: applications to image processing on massively parallel processors. (English summary) **93h:68076**
Morel, Jean-Michel *see* **Catté, Francine; et al., 93a:94005**
Mount, David M. *see* **Chandran, Sharat; et al., 93e:68128**
O'Rourke, Joseph *see* **Díaz, Matthew, 93b:52015**
Pal, Nikhil R. (*with* Pal, Sankar Kumar) Entropy: a new definition and its applications. (English summary) **93i:94005**
— *see also* **Bhandari, Dinabandhu, 93k:94002**
Pal, Sankar Kumar *see* **Pal, Nikhil R., 93i:94005**
(Piccioni, Mauro) *see* **Stochastic models, statistical methods, and algorithms in image analysis, 93e:62005**
Rasson, J.-P. *see* **Granville, V.**
Roysam, Badrinath *see* **Miller, Michael I.; et al., 93h:68076**
Shi, Bertram E. *see* **Chua, Leon O., 93f:92006**
Shpak, V. M. *see* **Donchenko, V. S., (93m:60009)**
Shpitalni, Moshe *see* **Fischer, Anat; et al., 93h:68056**
(Simar, Léopold) *see* **Computer intensive methods in statistics, 93m:62004**
Sinha, Divyendu (*with* Dougherty, Edward R.) Fuzzification of set inclusion: theory and applications. (English summary) **93k:03055**
Skilling, John (*with* Gull, Stephen F.) Bayesian maximum entropy image reconstruction. (English summary) (*see* **93g:62004**)
Slowinski, Karine Picture words with invisible lines. (English summary) **93k:68054**
Smith, Adrian F. M. *see* **Stephens, D. A., (93m:62004)**
Smith, Kurt *see* **Miller, Michael I.; et al., 93h:68076**
Squillante, Massimo (*with* Ventre, Aldo G. S.) On the analytic setting of *C*-calculus. **93g:68118**
Stephens, D. A. (*with* Smith, Adrian F. M.) Bayesian edge-detection images via change-point methods. (English summary) (*see* **93m:62004**)
Swarnakar, V. *see* **Mathew, A. V.; et al.**
Titterington, D. M. Choosing the regularization parameter in image restoration. (English summary) (*see* **93g:62004**)
Udding, Jan Tijmen *see* **Miller, Michael I.; et al., 93h:68076**
Ventre, Aldo G. S. *see* **Squillante, Massimo, 93g:68118**
Whitehouse, Harper J. (*with* Allen, Jeffery C.) Displacement rank and deconvolution: applications and open problems. (English summary) (*see* **93m:00045**)
Yao, Jian Feng *see* **Dinten, J. M.; et al., 93j:60055**

Items listed otherwise than by author

Buckow ★ Theoretical foundations of computer vision. **93j:68009**
Computer intensive methods in statistics ★ Computer intensive methods in statistics. **93m:62004**
Conference:
Computer Intensive Methods in Statistics ★ Computer intensive methods in statistics. **93m:62004**
Lecture Notes in Statistics ★ Stochastic models, statistical methods, and algorithms in image analysis. **93e:62005**
Louvain-la-Neuve ★ Computer intensive methods in statistics. **93m:62004**
Meeting:
Statisticians ★ Computer intensive methods in statistics. **93m:62004**
Rome ★ Stochastic models, statistical methods, and algorithms in image analysis. **93e:62005**
Special Year:
Image Analysis ★ Stochastic models, statistical methods, and algorithms in image analysis. **93e:62005**
Stochastic models, statistical methods, and algorithms in image analysis ★ Stochastic models, statistical methods, and algorithms in image analysis. **93e:62005**
Theoretical foundations of computer vision ★ Theoretical foundations of computer vision. **93j:68009**
Workshop:
Theoretical Foundations of Computer Vision ★ Theoretical foundations of computer vision. **93j:68009**

68U15 Text processing; mathematical typography

Amir, Amihood (*with* Farach, Martin) Two-dimensional dictionary matching. (English summary) **93k:68111**
Du, Ding Zhu *see* **Jiang, Tao[1]; et al., 93j:68225**
Farach, Martin *see* **Amir, Amihood, 93k:68111**
Hobby, John D. Polygonal approximations that minimize the number of inflections. (English summary) **93m:68185**
Jiang, Tao[1] (*with* Li, Ming[1]; Du, Ding Zhu) A note on shortest superstrings with flipping. (English summary) **93j:68225**
Li, Ming[1] *see* **Jiang, Tao[1]; et al., 93j:68225**

Items with secondary classifications in 68U15

Apostolico, Alberto Efficient CRCW-PRAM algorithms for universal substring searching. (English summary) **93m:68061**
Breslauer, Dany An on-line string superprimitivity test. (English summary) **93j:68160**
— (*with* Galil, Zvi) A lower bound for parallel string matching. (English summary) **93j:68064**
Galil, Zvi (*with* Giancarlo, Raffaele) On the exact complexity of string matching: lower bounds. **93a:68049**
— (*with* Giancarlo, Raffaele) On the exact complexity of string matching: upper bounds. **93g:68051**
— *see also* **Breslauer, Dany, 93j:68064**
Giancarlo, Raffaele *see* **Galil, Zvi, 93a:68049** *and* **93g:68051**
Hadlock, Frank Set sequence matching. **93e:05005**
Tarhio, Jorma (*with* Ukkonen, Esko) Approximate Boyer-Moore string matching. (English summary) **93m:68060**
Ukkonen, Esko Approximate string-matching with *q*-grams and maximal matches. **93a:68060**
— *see also* **Tarhio, Jorma, 93m:68060**

68U20 Simulation [see also 65Cxx]

Cleary, John Gerald *see* **Li, Xining; et al.**
Dohnal, Mirko *see* **Popela, Pavel; et al., 93j:68226**
Glynn, Peter W. (*with* Heidelberger, Philip) Analysis of initial transient deletion for parallel steady-state simulations. **93c:68110**
Heidelberger, Philip *see* **Glynn, Peter W., 93c:68110**
Li, Xining (*with* Cleary, John Gerald; Unger, Brian) Virtual time and virtual space. (English summary)
Lin, A Long A new qualitative simulation algorithm. (English summary)
Popela, Pavel (*with* Šiller, Aleš; Dohnal, Mirko) Linear qualitative models: solution, application and engineering interpretation. I. Qualitative algebra. (English summary) **93j:68226**
Šiller, Aleš *see* **Popela, Pavel; et al., 93j:68226**
Unger, Brian *see* **Li, Xining; et al.**
Weld, Daniel S. Reasoning about model accuracy. (English summary) **93h:68144**

Items with secondary classifications in 68U20

Bisschop, J. J. (*with* Kuip, C. A. C.) Hierarchical sets in mathematical programming modeling languages. (English summary)
Bundy, Alan *see* **Robertson, David; et al., 93m:68157**
Burkitt, A. N. *see* **Heermann, D. W., 93b:68030**
Haas, Peter J. (*with* Shedler, Gerald S.) Stochastic Petri nets: modeling power and limit theorems. (English summary) **93e:68086**
Haggith, Mandy *see* **Robertson, David; et al., 93m:68157**
Heermann, D. W. (*with* Burkitt, A. N.) ★ Parallel algorithms in computational science. **93b:68030**
Jasinevichius, R. Neural-type continuous Petri net concept for system modeling and simulation. (English summary) (*see* **93e:00021**)
Jávor, A. Petri nets and AI in simulation. (English summary) (*see* **93e:00021**)
Kuip, C. A. C. *see* **Bisschop, J. J.**
Maurer, Ueli M. A universal statistical test for random bit generators. **93e:65011**
Muetzelfeldt, Robert *see* **Robertson, David; et al., 93m:68157**
Robertson, David (*with* Bundy, Alan; Muetzelfeldt, Robert; Haggith, Mandy; Uschold, Michael) ★ Eco-logic. **93m:68157**
Shedler, Gerald S. *see* **Haas, Peter J., 93e:68086**
(Sydow, Achim) *see* **Computational systems analysis, 93e:00021**
Uschold, Michael *see* **Robertson, David; et al., 93m:68157**

Items listed otherwise than by author

Berlin ★ Computational systems analysis 1992. **93e:00021**
Computational systems analysis ★ Computational systems analysis 1992. **93e:00021**
Symposium:
Systems Analysis and Simulation ★ Computational systems analysis 1992. **93e:00021**

68U30 Other applications

Items with secondary classifications in 68U30

George, P. L. (*with* Hermeline, F.) Delaunay's mesh of a convex polyhedron in dimension d. Application to arbitrary polyhedra. **93e:65117**
Hermeline, F. *see* **George, P. L., 93e:65117**
Lee, Der Tsai *see* **Yang, Chung-Do; et al., 93a:68160**
Wong, Chak Kuen *see* **Yang, Chung-Do; et al., 93a:68160**
Yang, Chung-Do (*with* Lee, Der Tsai; Wong, Chak Kuen) On bends and lengths of rectilinear paths: a graph-theoretic approach. **93a:68160**

68U99 None of the above, but in this section

Items with secondary classifications in 68U99

Pyt'ev, Yu. P. On the theory of measuring-computing systems of minimax type. (Russian) **93e:47102**

70–XX Mechanics of particles and systems {For relativistic mechanics, see 83A05 and 83C10; for statistical mechanics, see 82–XX.}

70–01 Instructional exposition (textbooks, tutorial papers, etc.)

Butenin, N. V. (*with* Fufaev, N. A.) ★ Введение в аналитическую механику. (Russian. English and Russian summaries) [Introduction to analytical mechanics] **93i:70001**
Cartmell, Matthew ★ Introduction to linear, parametric and nonlinear vibrations. **93b:70001**
Choquard, Philippe ★ Mécanique analytique. Vol. 1. (French) [Analytical mechanics. Vol. 1] **93k:70001a**
— ★ Mécanique analytique. Vol. 2. (French) [Analytical mechanics. Vol. 2] **93k:70001b**
Fließbach, Torsten ★ Mechanik. (German) [Mechanics] **93j:70001**
Fufaev, N. A. *see* **Butenin, N. V., 93i:70001**
Hall, Glen R. *see* **Meyer, Kenneth R., 93b:70002**
Levit·skii, N. I. ★ Теория механизмов и машин. (Russian) [Theory of mechanisms and machines] **93a:70001**
Meyer, Kenneth R. (*with* Hall, Glen R.) ★ Introduction to Hamiltonian dynamical systems and the N-body problem. **93b:70002**
Zumpe, Günter ★ Angewandte Mechanik. Band 3. (German) [Applied mechanics. Vol. 3] **93d:70001**

Items with secondary classifications in 70–01

Argyris, John (*with* Poteraşu, Victor Florin) Large rotations revisited: application of Lie algebra. (English summary) **93m:70003**
(Dietzel, E.) *see* **Klein, Felix, 93a:01065**
Dimentberg, F. M. *see* **Vorob'ev, E. I., 93d:70007**
Gal'tsov, D. V. (*with* Grats, Yu. V.; Zhukovskiĭ, V. Ch.) ★ Классические поля. (Russian) [Classical fields] **93g:70015**
(Geisler, Michael H. G.) *see* **Klein, Felix, 93a:01065**
Grats, Yu. V. *see* **Gal'tsov, D. V.; et al., 93g:70015**
Klein, Felix ★ Einleitung in die analytische Mechanik. (German) [Introduction to analytical mechanics] **93a:01065**
(König, F.) *see* **Klein, Felix, 93a:01065**
Medvedev, V. I. *see* **Migulin, V. V.; et al., 93a:34001**
Meirovitch, Leonard ★ Dynamics and control of structures. **93a:93001**
Migulin, V. V. (*with* Medvedev, V. I.; Mustel', E. R.; Parygin, V. N.) ★ Fondements de la théorie des oscillations. (French) [Basic theory of oscillations] **93a:34001**
Mitter, Heinrich ★ Mechanik. (German) [Mechanics] **93d:00001**
Mustel', E. R. *see* **Migulin, V. V.; et al., 93a:34001**
Parygin, V. N. *see* **Migulin, V. V.; et al., 93a:34001**
(Platonov, Valéri) *see* **Migulin, V. V.; et al., 93a:34001**
(Pockels, F.) *see* **Klein, Felix, 93a:01065**
Poteraşu, Victor Florin *see* **Argyris, John, 93m:70003**
Sedov, L. I. ★ Об основных моделях в механике. (Russian. Russian summary) [Basic models in mechanics] **93k:70005**
(Triebel, Hans) *see* **Klein, Felix, 93a:01065**
Vorob'ev, E. I. (*with* Dimentberg, F. M.) ★ Пространственные шарнирные механизмы. (Russian) [Spatial linkages] **93d:70007**
Zhukovskiĭ, V. Ch. *see* **Gal'tsov, D. V.; et al., 93g:70015**

70–02 Research exposition (monographs, survey articles)

Arnol'd, V. I. ★ Математические методы классической механики. (Russian) [Mathematical methods of classical mechanics] **93c:70001**

Items with secondary classifications in 70–02

(Chapovsky, Yuri) *see* **Samoĭlenko, A. M., 93d:34050**
Ebeling, Werner (*with* Engel-Herbert, H.; Herzel, Hans-Peter) ★ Selbstorganisation in der Zeit. (German) [Self-organization in time] **93d:00019**
Engel-Herbert, H. *see* **Ebeling, Werner; et al., 93d:00019**
Herzel, Hans-Peter *see* **Ebeling, Werner; et al., 93d:00019**
Lichtenberg, Allan J. (*with* Lieberman, M. A.) ★ Regular and chaotic dynamics. **93c:58071**
Lieberman, M. A. *see* **Lichtenberg, Allan J., 93c:58071**
Marsden, Jerrold Eldon ★ Lectures on mechanics. **93f:58078**
Peterka, F. (*with* Vacík, J.) Transition to chaotic motion in mechanical systems with impacts. **93b:70023**
Samoĭlenko, A. M. ★ Elements of the mathematical theory of multi-frequency oscillations. **93d:34050**
Schneider, Manfred ★ Himmelsmechanik. Band I. (German) [Celestial mechanics. Vol. I] **93h:70007**
Vacík, J. *see* **Peterka, F., 93b:70023**

70–03 Historical (must also be assigned at least one classification number from Section 01)

Chobanov, Ivan Three hundred years after the *Principia mathematica*—two hundred years after the *Méchanique analitique*. I. Newton's mechanics. (Bulgarian)
(Newton, Isaac) *see* **Chobanov, Ivan**

Items with secondary classifications in 70–03

Aiton, Eric John The contributions of Isaac Newton, Johann Bernoulli and Jakob Hermann to the inverse problem of central forces. (*see* **93e:01009**)
(Alekseev, V. M.) *see* **Poincaré, Henri, 93j:01016b**
(Appell, Paul) *see* **Encyclopedia: Pure and applied mathematical sciences, 93m:00055a** *and* **93m:00055b**
(Arnol'd, V. I.) *see* **Poincaré, Henri, 93j:01016a**
(Bernoulli, Jacob I) *see* **Development of calculus through Leibniz and the Bernoulli brothers, 93e:01009** *and* **Speiser, David, (93e:01009)**
(Bernoulli, Johann I) *see* **Development of calculus through Leibniz and the Bernoulli brothers, 93e:01009** *and* **Aiton, Eric John, (93e:01009)**
Bierhalter, Günter Von L. Boltzmann bis J. J. Thomson: die Versuche einer mechanischen Grundlegung der Thermodynamik (1866–1890). [From L. Boltzmann to J. J. Thomson: attempts at a mechanical foundation of thermodynamics (1866–1890)] **93d:01028**
Brackenridge, J. Bruce The critical role of curvature in Newton's developing dynamics. **93k:01019**
(Brenner, Anastasios) *see* **Duhem, Pierre-Maurice-Marie, 93k:01089**
Casey, James The principle of rigidification. **93f:73004**
Chernikov, N. A. The Kepler problem in the Lobachevsky space and its solution. (English summary)
Chobanov, Georgi Iv. (*with* Chobanov, Ivan) Fundamental identities of Lagrangean formalism for holonomic mass-point and rigid body systems. (English and Bulgarian summaries) **93m:70022**
Chobanov, Ivan *see* **Chobanov, Georgi Iv., 93m:70022** *and* **Gutzwiller, Martin C., 93f:01004**
Costabel, Pierre Courbure et dynamique: Jean I Bernoulli correcteur de Huygens et de Newton. [Curvature and dynamics: Johann I Bernoulli, corrector of Huygens and Newton] (*see* **93e:01009**)
Dhombres, Jean Le poids de la tradition et les ouvertures imprévues dans l'axiomatisation de la statique au début du XVIIIème siècle. [The weight of tradition and some unexpected openings in the axiomatization of statics at the beginning of the XVIIIth century] (*see* **93e:01009**)
(Dietzel, E.) *see* **Klein, Felix, 93a:01065**
Duhem, Pierre-Maurice-Marie ★ The origins of statics. **93a:01063**
— ★ L'évolution de la mécanique. (French) [The evolution of mechanics] **93k:01089**
Erlichson, Herman Newton and Hooke on centripetal force motion. (English summary) **93k:01022**
Fraser, Craig G. Differential equations in Lagrange's theory of planetary perturbations. (Spanish) **93a:01021**
(Geisler, Michael H. G.) *see* **Klein, Felix, 93a:01065**
(Germain, Paul) *see* **Duhem, Pierre-Maurice-Marie, 93k:01089**
Golland, Louise Ahrndt (*with* Golland, Ronald William) Euler's troublesome series: an early example of the use of trigonometric series. (English, French and German summaries) **93m:01030**
Golland, Ronald William *see* **Golland, Louise Ahrndt, 93m:01030**
(Goroff, Daniel L.) *see* **Poincaré, Henri, 93j:01016a; 93j:01016b** *and* **93j:01016c**
Gutzwiller, Martin C. Chaos and symmetry in the history of mechanics. (Bulgarian) **93f:01004**
(Hermann, Jakob) *see* **Aiton, Eric John, (93e:01009)**
(Hess, Heinz-Jürgen) *see* **Development of calculus through Leibniz and the Bernoulli brothers, 93e:01009**
(Jaki, Stanley L.) *see* **Duhem, Pierre-Maurice-Marie, 93a:01063**
Kharlamov, P. V. Commentaries to a paper of L. A. Stepanova: "An unsuccessful attempt to defend the priority of the classics of Russian mechanics in constructing exact solutions in the mechanics of a rigid body" [Mekh. Tverd. Tela No. 22 (1990), 19–33] and of A. I. Khokhlov: "An unsuccessful attempt to defend a result of V. A. Steklov" [Mekh. Tverd. Tela No. 23 (1991), 26–36; MR 93g:01039]. (Russian) **93g:01040**
Khokhlov, A. I. An unsuccessful attempt to defend a result of V. A. Steklov. (Russian) **93g:01039**
— *see also* **Kharlamov, P. V., 93g:01040**
Klein, Felix ★ Einleitung in die analytische Mechanik. (German) [Introduction to analytical mechanics] **93a:01065**
(König, F.) *see* **Klein, Felix, 93a:01065**
(Leibniz, Gottfried Wilhelm) *see* **Development of calculus through Leibniz and the Bernoulli brothers, 93e:01009**
(Leneaux, Grant F.) *see* **Duhem, Pierre-Maurice-Marie, 93a:01063**
(Mach, Ernst) *see* **Duhem, Pierre-Maurice-Marie, 93k:01089**
(Merman, G. A.) *see* **Poincaré, Henri, 93j:01016c**
(Molk, Jules) *see* **Encyclopedia: Pure and applied mathematical sciences, 93m:00055a** *and* **93m:00055b**
(Nagel, Fritz) *see* **Development of calculus through Leibniz and the Bernoulli brothers, 93e:01009**
(Newton, Isaac) *see* **Pourciau, Bruce, 93d:01021** *and* **Aiton, Eric John, (93e:01009)**
(Pockels, F.) *see* **Klein, Felix, 93a:01065**
Poincaré, Henri ★ New methods of celestial mechanics. Vol. 1. **93j:01016a**
— ★ New methods of celestial mechanics. Vol. 2. **93j:01016b**

— ★ New methods of celestial mechanics. Vol. 3. **93j:01016c**
Pourciau, Bruce Newton's solution of the one-body problem. **93d:01021**
Radelet-de Grave, Patricia Les déplacements, les vitesses et leur loi de composition. [Displacements, velocities and their composition] (*see* **93e:01009**)
Speiser, David Die Grundlegung der Dynamik des starren Körpers durch Jacob Bernoulli. [The foundation of the dynamics of the rigid body by Jacob Bernoulli] (*see* **93e:01009**)
(Stepanova, L. A.) *see* **Kharlamov, P. V., 93g:01040**
(Triebel, Hans) *see* **Klein, Felix, 93a:01065**
(Vagliente, Victor N.) *see* **Duhem, Pierre-Maurice-Marie, 93a:01063**
(Wagener, Guy H.) *see* **Duhem, Pierre-Maurice-Marie, 93a:01063**
Weinstock, Robert Newton's *Principia* and inverse-square orbits: the flaw reexamined. (French and German summaries) **93b:01022**

Items listed otherwise than by author

Ausbau des Calculus durch Leibniz und die Brüder Bernoulli ★ Der Ausbau des Calculus durch Leibniz und die Brüder Bernoulli. (French) [The development of calculus through Leibniz and the Bernoulli brothers] **93e:01009**
Basel ★ Der Ausbau des Calculus durch Leibniz und die Brüder Bernoulli. (French) [The development of calculus through Leibniz and the Bernoulli brothers] **93e:01009**
Biography:
Poincaré, Henri *see* **Poincaré, Henri, 93j:01016a**
Development of calculus through Leibniz and the Bernoulli brothers ★ Der Ausbau des Calculus durch Leibniz und die Brüder Bernoulli. (French) [The development of calculus through Leibniz and the Bernoulli brothers] **93e:01009**
Encyclopedia:
Pure and applied mathematical sciences ★ Encyclopédie des sciences mathématiques pures et appliquées. Tome IV. Vol. 1. (French) [Encyclopedia of the pure and applied mathematical sciences. Tome IV. Vol. 1] **93m:00055a**
— ★ Encyclopédie des sciences mathématiques pures et appliquées. Tome IV. Vol. 2. (French) [Encyclopedia of the pure and applied mathematical sciences. Tome IV. Vol. 2] **93m:00055b**
Symposium:
Development of Calculus through Leibniz and the Bernoulli Brothers ★ Der Ausbau des Calculus durch Leibniz und die Brüder Bernoulli. (French) [The development of calculus through Leibniz and the Bernoulli brothers] **93e:01009**

70–04 Explicit machine computation and programs (not the theory of computation or programming)

Kreuzer, E. J. Symbolverarbeitung in der Mechanik—zwei Beispiele. (English, German and Russian summaries) [Symbol manipulation in mechanics—two examples] **93g:70001**

Items with secondary classifications in 70–04

Ashkenazi, Max (*with* Chow, Shui-Nee; Drachman, Byron) Symbolic computation of normal forms for nonlinear Hamiltonian systems (Algorithm 34). **93c:65103**
Banshchikov, A. V. (*with* Burlakova, L. A.; Irtegov, V. D.; Novikov, M. A.) Algorithms for the qualitative investigation of complex systems. (Russian. English and Ukrainian summaries) **93g:70003**
Burlakova, L. A. *see* **Banshchikov, A. V.; et al., 93g:70003**
Chow, Shui-Nee *see* **Ashkenazi, Max; et al., 93c:65103**
Drachman, Byron *see* **Ashkenazi, Max; et al., 93c:65103**
Forest, Etienne Sixth-order Lie group integrators. **93b:70003**
Garnier, C. Symbolic formulation of dynamic equations for interconnected flexible bodies: the GEMMES software. (English summary) (*see* **93c:93006**)
Gorringe, V. M. *see* **Moremedi, G. M.; et al., 93k:34080**
Irtegov, V. D. *see* **Banshchikov, A. V.; et al., 93g:70003**
Kalinnikov, V. G. Active damping of oscillations of a rotating linkage. (Russian. Russian summary) **93k:73059**
Mason, D. P. *see* **Moremedi, G. M.; et al., 93k:34080**
Moremedi, G. M. (*with* Mason, D. P.; Gorringe, V. M.) On the limit cycle of a generalized van der Pol equation. (English summary) **93k:34080**
Novikov, M. A. *see* **Banshchikov, A. V.; et al., 93g:70003**
Raines, P. E. (*with* Uzer, T.) Computing normal forms of nonseparable Hamiltonians by symbolic manipulation. **93b:58129**
Schwartz, Jacob T. (*with* Sharir, Micha) Finding effective "force targets" for two-dimensional, multifinger frictional grips. **93d:70006**
Sharir, Micha *see* **Schwartz, Jacob T., 93d:70006**
Sreenath, N. A hybrid computation environment for multibody simulation. (English summary) **93f:65101**
Uzer, T. *see* **Raines, P. E., 93b:58129**

70–05 Experimental papers

Dowell, E. H. *see* **Gottwald, J. A.; et al., 93g:70002**
Gottwald, J. A. (*with* Virgin, L. N.; Dowell, E. H.) Experimental mimicry of Duffing's equation. (English summary) **93g:70002**
Virgin, L. N. *see* **Gottwald, J. A.; et al., 93g:70002**

Items with secondary classifications in 70–05

Blackburn, James A. *see* **Smith, H. J. T., 93h:70015**
Smith, H. J. T. (*with* Blackburn, James A.) Experimental study of an inverted pendulum. (English summary) **93h:70015**

70–06 Proceedings, conferences, collections, etc.

(Canudas de Wit, Carlos) *see* **Advanced robot control, 93d:70002**
(Roy, Archie E.) *see* **Predictability, stability, and chaos in *N*-body dynamical systems, 93i:70002**

Items listed otherwise than by author

Advanced robot control ★ Advanced robot control. **93d:70002**
Cortina d'Ampezzo ★ Predictability, stability, and chaos in *N*-body dynamical systems. **93i:70002**
Grenoble ★ Advanced robot control. **93d:70002**
Lecture Notes in Control and Information Sciences ★ Advanced robot control. **93d:70002**
NATO Advanced Study Institute:
Predictability, Stability, and Chaos in *N*-body Dynamical Systems ★ Predictability, stability, and chaos in *N*-body dynamical systems. **93i:70002**
Predictability, stability, and chaos in *N*-body dynamical systems ★ Predictability, stability, and chaos in *N*-body dynamical systems. **93i:70002**
Workshop:
Nonlinear and Adaptive Control: Issues in Robotics ★ Advanced robot control. **93d:70002**

70–08 Computational methods

Banshchikov, A. V. (*with* Burlakova, L. A.; Irtegov, V. D.; Novikov, M. A.) Algorithms for the qualitative investigation of complex systems. (Russian. English and Ukrainian summaries) **93g:70003**
Burlakova, L. A. *see* **Banshchikov, A. V.; et al., 93g:70003**
Carney, J. F., III *see* **Hahn, G. D.; et al., 93d:70003**
Chiou, J. C. *see* **Park, K.-C., 93m:70001**
Chung, Shu (*with* Haug, Edward J.) A hybrid variational method for multibody dynamics. (English summary) **93j:70002**
ten Dam, A. A. Stable numerical integration of dynamical systems subject to equality state-space constraints. **93c:70002**
Ferrándiz Leal, José Manuel (*with* San Saturio Lapeña, María Eugenia; Pojman, Joseph R.) Increased accuracy of computations in the main satellite problem through linearization methods. (English summary) **93f:70001**
Forest, Etienne Sixth-order Lie group integrators. **93b:70003**
Gabella, W. E. (*with* Ruth, R. D.; Warnock, R. L.) Iterative determination of invariant tori for a time-periodic Hamiltonian with two degrees of freedom. (English summary) **93g:70004**
Hahn, G. D. (*with* Carney, J. F., III; Ray, Malcolm H.) On the numerical evaluation of the unforced response of a Duffing oscillator. (English summary) **93d:70003**
Haug, Edward J. *see* **Chung, Shu, 93j:70002**
Hulbert, Gregory M. Explicit momentum conserving algorithms for rigid body dynamics. (English summary)
Irtegov, V. D. *see* **Banshchikov, A. V.; et al., 93g:70003**
Kalvouridis, T. *see* **Tsitouras, Ch.; et al., 93f:70002**
Lubich, Ch. Extrapolation integrators for constrained multibody systems. **93d:70004**
Meijaard, J. P. Applications of the singular value decomposition in dynamics. (English summary) **93k:70002**
Novikov, M. A. *see* **Banshchikov, A. V.; et al., 93g:70003**
Okunbor, Daniel (*with* Skeel, Robert D.) Explicit canonical methods for Hamiltonian systems. **93a:70002**
Papageorgiou, George *see* **Tsitouras, Ch.; et al., 93f:70002**
Park, K.-C. (*with* Chiou, J. C.) A discrete momentum-conserving explicit algorithm for rigid body dynamics analysis. (English summary) **93m:70001**
Pojman, Joseph R. *see* **Ferrándiz Leal, José Manuel; et al., 93f:70001**
Ray, Malcolm H. *see* **Hahn, G. D.; et al., 93d:70003**
Ruth, R. D. *see* **Gabella, W. E.; et al., 93g:70004**
San Saturio Lapeña, María Eugenia *see* **Ferrándiz Leal, José Manuel; et al., 93f:70001**
Skeel, Robert D. *see* **Okunbor, Daniel, 93a:70002**
Tsitouras, Ch. (*with* Papageorgiou, George; Kalvouridis, T.) On the efficiency of Runge-Kutta-Nystrom methods with interpolants for solving equations of the form $Y'' = F(T, Y, Y')$ over short timespans. (English summary) **93f:70002**
Warnock, R. L. *see* **Gabella, W. E.; et al., 93g:70004**
Yen, Jeng Constrained equations of motion in multibody dynamics as ODEs on manifolds. (English summary) **93m:70002**

Items with secondary classifications in 70–08

Abia, L. (*with* Sanz-Serna, J. M.) Partitioned Runge-Kutta methods for separable Hamiltonian problems. (English summary) **93i:65074**
Andrianov, I. V. Application of Padé-approximants in perturbation methods. (English and Russian summaries) **93j:73061**
Anosova, J. P. (*with* Orlov, V. V.) The types of motion in hierarchical and nonhierarchical triple systems: numerical experiments. (English summary) **93d:70019**
Ascher, Uri M. (*with* Petzold, Linda R.) Stability of computational methods for constrained dynamics systems. (English summary) **93i:65068**
Atela, Pau *see* **McLachlan, Robert I., 93d:70030**
Barbanis, B. A multi-spiral set of solutions of a 3-D Hamiltonian system. (English summary) **93h:70009**
Borri, M. (*with* Bottasso, C.; Mantegazza, P.) A modified phase space formulation for constrained mechanical systems—differential approach. (English summary) **93f:70004**
Bottasso, C. *see* **Borri, M.; et al., 93f:70004**
Brasey, V. A half-explicit Runge-Kutta method of order 5 for solving constrained mechanical systems. (German summary) **93c:65089**
Burdo, O. S. (*with* Gorin, V. V.; Dargeiko, M. M.) On the error estimation problem in determining location in inertial navigation problems. (Russian. Russian summary) **93k:70038**
Cai, Guo Qiang (*with* Lin, Y. K.; Elishakoff, Isaac) A new approximate solution technique for randomly excited nonlinear oscillators. II. (English summary) **93g:70028**
Calvo, C. *see* **Palacios, M.**
Calvo Pinilla, Manuel Characterization of symplectic Runge-Kutta-Nyström methods. (Spanish) **93m:65100**
— (*with* Sanz-Serna, J. M.) Variable steps for symplectic integrators. (*see* **93b:65005**)
— (*with* Sanz-Serna, J. M.) Order conditions for canonical Runge-Kutta-Nyström methods. (English summary) **93m:65101**
Dargeiko, M. M. *see* **Burdo, O. S.; et al., 93k:70038**

Delhaise, Fabienne (*with* Henrard, Jacques) The problem of critical inclination combined with a resonance in mean motion in artificial satellite theory. (English summary)
Dragt, Alex J. *see* **Healy, Liam M.; et al., 93b:70018**
Earn, David J. D. (*with* Tremaine, Scott) Exact numerical studies of Hamiltonian maps: iterating without roundoff error. **93c:58068**
Elishakoff, Isaac *see* **Cai, Guo Qiang; et al., 93g:70028**
Feng, Kang (*with* Wang, Dao Liu) Symplectic difference schemes for Hamiltonian systems in general symplectic structure. **93a:65100**
Giorgilli, Antonio *see* **Morbidelli, Alessandro, 93i:70017**
Gjaja, Ivan M. *see* **Healy, Liam M.; et al., 93b:70018**
Gorin, V. V. *see* **Burdo, O. S.; et al., 93k:70038**
Gorringe, V. M. *see* **Moremedi, G. M.; et al., 93k:34080**
Hamilton, Ian *see* **Permann, Delmar, 93h:70019**
Haug, Edward J. *see* **Yen, Jeng; et al., 93a:65110**
Healy, Liam M. (*with* Dragt, Alex J.; Gjaja, Ivan M.) Computation of error effects in nonlinear Hamiltonian systems using Lie algebraic methods. **93b:70018**
Henrard, Jacques *see* **Delhaise, Fabienne**
Herbst, Ben M. Numerical evidence of exponentially small splitting distances in symplectic discretizations of planar Hamiltonian systems. (English summary) **93h:58098**
Hsu, Chieh Su *see* **Sun, J.-Q., 93b:70026**
Huo, Lin Chun Extension and application of Newton's method in nonlinear oscillation theory. (Chinese. English and Chinese summaries) **93j:34057**
Ignat'ev, V. A. (*with* Ignat'eva, O. M.) Solution of a partial eigenvalue and eigenvector problem by means of a method of the successive condensation of subsystems. (Russian) (*see* **93k:73001**)
Ignat'eva, O. M. *see* **Ignat'ev, V. A., (93k:73001)**
Iserles, Arieh Efficient Runge-Kutta methods for Hamiltonian equations. **93e:65102**
Kramer, Glenn A. ★ Solving geometric constraint systems. **93h:70001**
Kreuzer, E. J. Symbolverarbeitung in der Mechanik—zwei Beispiele. (English, German and Russian summaries) [Symbol manipulation in mechanics—two examples] **93g:70001**
Lebedev, D. V. (*with* Tkachenko, A. I.) On the calculation of the parameters of the translational-rotational motion of a rigid body. (Russian. Russian summary)
Lin, Y. K. *see* **Cai, Guo Qiang; et al., 93g:70028**
MacKay, Robert S. Some aspects of the dynamics and numerics of Hamiltonian systems. **93d:58057**
Mantegazza, P. *see* **Borri, M.; et al., 93f:70004**
Marsden, Jerrold Eldon (*with* O'Reilly, O. M.; Wicklin, F. J.; Zombro, B. W.) Symmetry, stability, geometric phases, and mechanical integrators. II. **93e:58066**
Mason, D. P. *see* **Moremedi, G. M.; et al., 93k:34080**
Mayorga, R. V. (*with* Wong, A. K. C.; Milano, N.) A fast procedure for manipulator inverse kinematics evaluation and pseudoinverse robustness. (English summary) **93g:70005**
McLachlan, Robert I. (*with* Atela, Pau) The accuracy of symplectic integrators. **93d:70030**
Milano, N. *see* **Mayorga, R. V.; et al., 93g:70005**
Morbidelli, Alessandro On the successive elimination of perturbation harmonics. (English summary) **93i:70016**
— (*with* Giorgilli, Antonio) Quantitative perturbation theory by successive elimination of harmonics. (English summary) **93i:70017**
Moremedi, G. M. (*with* Mason, D. P.; Gorringe, V. M.) On the limit cycle of a generalized van der Pol equation. (English summary) **93k:34080**
Natke, H. G. Error localization within spatially finite-dimensional mathematical models. A review of methods and the application of regularization techniques. (English summary) **93f:73084**
Okunbor, Daniel Canonical methods for Hamiltonian systems: numerical experiments. (English summary) **93j:65131**
— (*with* Skeel, Robert D.) An explicit Runge-Kutta-Nyström method is canonical if and only if its adjoint is explicit. **93c:65091**
O'Reilly, O. M. *see* **Marsden, Jerrold Eldon; et al., 93e:58066**
Orlov, V. V. *see* **Anosova, J. P., 93d:70019**
Palacios, M. (*with* Calvo, C.) Quaternions and numerical orbit computation. (English summary)
Permann, Delmar (*with* Hamilton, Ian) Wavelet analysis of time series for the Duffing oscillator: the detection of order within chaos. (English summary) **93h:70019**
Petzold, Linda R. Numerical solution of differential-algebraic equations in mechanical systems simulation. (English summary) **93j:65126**
— *see also* **Ascher, Uri M., 93i:65068**
Sanz-Serna, J. M. Symplectic integrators for Hamiltonian problems: an overview. **93c:65093**
— *see also* **Abia, L., 93i:65074**; **Calvo Pinilla, Manuel, 93m:65101** *and* **(93b:65005)**
vom Scheidt, Jürgen (*with* Wöhrl, U.; Wulff, S.) A method for the numerical treatment of nonlinear stochastic vibrations of vehicles.
Schwartz, Jacob T. (*with* Sharir, Micha) Finding effective "force targets" for two-dimensional, multifinger frictional grips. **93d:70006**
Sharir, Micha *see* **Schwartz, Jacob T., 93d:70006**
Shu, Hai Bin A new approach to generating functions for contact systems. (English summary) **93m:58044**
Skeel, Robert D. *see* **Okunbor, Daniel, 93c:65091**
Sreenath, N. A hybrid computation environment for multibody simulation. (English summary) **93f:65101**
Sun, J.-Q. (*with* Hsu, Chieh Su) The generalized cell mapping method in nonlinear random vibration based upon short-time Gaussian approximation. **93b:70026**
Tak, T. O. *see* **Yen, Jeng; et al., 93a:65110**
Tkachenko, A. I. *see* **Lebedev, D. V.**
Tremaine, Scott *see* **Earn, David J. D., 93c:58068**
Wang, Dao Liu Poisson difference schemes for Hamiltonian systems on Poisson manifolds. **93d:58060**
— *see also* **Feng, Kang, 93a:65100**
Wicklin, F. J. *see* **Marsden, Jerrold Eldon; et al., 93e:58066**
Wöhrl, U. *see* **vom Scheidt, Jürgen; et al.**
Wong, A. K. C. *see* **Mayorga, R. V.; et al., 93g:70005**
Wu, Julian J. A generalized harmonic balance method for forced nonlinear oscillations: the subharmonic cases. (English summary) **93m:70024**
Wulff, S. *see* **vom Scheidt, Jürgen; et al.**
Yen, Jeng (*with* Haug, Edward J.; Tak, T. O.) Numerical methods for constrained equations of motion in mechanical system dynamics. **93a:65110**
Zombro, B. W. *see* **Marsden, Jerrold Eldon; et al., 93e:58066**
Zumpe, Günter ★ Angewandte Mechanik. Band 3. (German) [Applied mechanics. Vol. 3] **93d:70001**

70A05 Axiomatics, foundations

Blaksley Bazterrica, Enrique J. Unified theory of motion: a new mechanics. **93c:70003**
Chobanov, Ivan Introduction to an algebraic theory of arrows. II. (English and Russian summaries) **93k:70003**
— Introduction to an algebraic theory of arrows. III. (English and Russian summaries) **93k:70004**
Rosenberg, R. M. Some remarks about time in Newtonian particle mechanics. **93c:70004**
Sedov, L. I. ★ Об основных моделях в механике. (Russian. Russian summary) [Basic models in mechanics] **93k:70005**

Items with secondary classifications in 70A05

Agop, Marcel (*with* Talaşman, S.) The invariantive theory of rigid bodies. (Romanian. French summary) **93a:70004**
Chobanov, Georgi Iv. (*with* Chobanov, Ivan) Affine and rigid motions in complex standard vector spaces. **93d:70005**
Chobanov, Ivan *see* **Chobanov, Georgi Iv., 93d:70005**
Kharlamov, P. V. A critique of some mathematical models of mechanical systems with differential constraints. (Russian) **93m:70014**
Kozlov, Valerii V. On the realization of constraints in dynamics. (Russian. Russian summary) **93m:70015**
Leihkauf, H. *see* **Treder, Hans-Jürgen, 93m:83066**
Moreau, J.-J. An expression of classical dynamics. (English summary) (*see* **93h:49003**)
Talaşman, S. *see* **Agop, Marcel, 93a:70004**
Treder, Hans-Jürgen (*with* Leihkauf, H.) The "Euler"-limit of GRT. (English summary) **93m:83066**

70Bxx Kinematics [see also 53A17]

Argyris, John (*with* Poteraşu, Victor Florin) Large rotations revisited: application of Lie algebra. (English summary) **93m:70003**
Poteraşu, Victor Florin *see* **Argyris, John, 93m:70003**

70B05 Kinematics of a particle

Items with secondary classifications in 70B05

Naĭshul', A. B. The three-dimensional motion of a particle. (Russian. Russian summary) **93g:70008**
Wang, He Xiang *see* **Yin, Yi Can; et al.**
Wei, Jin Duo *see* **Yin, Yi Can; et al.**
Yin, Yi Can (*with* Wang, He Xiang; Wei, Jin Duo) Control of a moving flexible robot arm with variable sections. (Chinese. English and Chinese summaries)

70B10 Kinematics of a rigid body

Chobanov, Georgi Iv. (*with* Chobanov, Ivan) Affine and rigid motions in complex standard vector spaces. **93d:70005**
Chobanov, Ivan *see* **Chobanov, Georgi Iv., 93d:70005**
Tkachenko, A. I. A variational treatment of dual methods for the calculation of velocity. (Russian. Russian summary) **93m:70004**
Tokad, Yılmaz Errata: "A network model for rigid-body motion" [Dynamics Control **2** (1992), no. 1, 59–82; MR 92k:70004]. **93k:70006**

Items with secondary classifications in 70B10

Chiang, R. C. (*with* Shieh, S. Y.) Generalization of Jacobi's decomposition theorem to the rotation and translation of a solid in a fluid. (English summary) **93h:70002**
Chobanov, Georgi Iv. (*with* Chobanov, Ivan) Rigid motions in the real standard vector space. **93g:53018**
Chobanov, Ivan *see* **Chobanov, Georgi Iv., 93g:53018**
Donelan, P. S. (*with* Gibson, C. G.) First-order invariants of Euclidean motions. **93e:22038**
Gibson, C. G. *see* **Donelan, P. S., 93e:22038**
Lebedev, D. V. (*with* Tkachenko, A. I.) On the calculation of the parameters of the translational-rotational motion of a rigid body. (Russian. Russian summary)
Shieh, S. Y. *see* **Chiang, R. C., 93h:70002**
Tkachenko, A. I. *see* **Lebedev, D. V.**

70B15 Mechanisms, robots [see also 73K05]

Dimentberg, F. M. *see* **Vorob'ev, E. I., 93d:70007**
Elfimov, V. S. *see* **Vypov, A. G.**
González-López, M. J. (*with* Recio Muñiz, Tomás J.) The modified Laumond algorithm for planning tasks for robots. (Spanish) (*see* **93b:68004**)
Haug, Edward J. (*with* Wang, J. Y.; Wu, J. K.) Dextrous workspaces of manipulators. I. Analytical criteria. (English summary) **93f:70003**
Jin, Wan Min *see* **Zha, Xuan Fang**
Krak, Yu. V. An approach to the analytic construction of equations of motion of robotic manipulators. (Russian)
Kramer, Glenn A. ★ Solving geometric constraint systems. **93h:70001**
Kumaravel, A. *see* **Natarajan, Ponnamal**

Mayorga, R. V. (*with* Wong, A. K. C.; Milano, N.) A fast procedure for manipulator inverse kinematics evaluation and pseudoinverse robustness. (English summary) **93g:70005**
Milano, N. *see* **Mayorga, R. V.; et al., 93g:70005**
Natarajan, Ponnamal (*with* Kumaravel, A.) Construction of a finite state automation escaping from a dynamic labyrinth. (English summary)
Qian, Jin Wu Optimized wave gait for six-legged walking robots. (Chinese. English and Chinese summaries)
Recio Muñiz, Tomás J. *see* **González-López, M. J., (93b:68004)**
Schwartz, Jacob T. (*with* Sharir, Micha) Finding effective "force targets" for two-dimensional, multifinger frictional grips. **93d:70006**
Sharir, Micha *see* **Schwartz, Jacob T., 93d:70006**
Smol'nikov, B. A. ★ Проблемы механики и оптимизации роботов. (Russian) [Problems in the mechanics and optimization of robots] **93a:70003**
Vorob'ev, E. I. (*with* Dimentberg, F. M.) ★ Пространственные шарнирные механизмы. (Russian) [Spatial linkages] **93d:70007**
Vypov, A. G. (*with* Elfimov, V. S.) Composition of a mathematical model of a branched manipulator at the design stage. (Russian. Russian summary)
Wang, J. Y. *see* **Haug, Edward J.; et al., 93f:70003**
Wong, A. K. C. *see* **Mayorga, R. V.; et al., 93g:70005**
Wu, J. K. *see* **Haug, Edward J.; et al., 93f:70003**
Zha, Xuan Fang (*with* Jin, Wan Min) Motor method of robot end effector path generation. (English summary)

Items with secondary classifications in 70B15

Abidi, Mongi A. Fusion of multi-dimensional data using regularization. (*see* **93g:68002**)
Ahmad, Shaheen (*with* Zribi, Mohamed) Lyapunov-based control design for multiple robots handling a common object. (English summary) **93i:93085**
— *see also* **Luo, Shengwu, 93g:68141**
d'Andréa-Novel, B. *see* **Campion, Guy; et al., 93f:70030**
Antonyuk, E. Ya. (*with* Larin, V. B.; Pedchenko, A. M.) An algorithm for the choice of generalized coordinates. (Russian) **93b:70015**
Ardema, M. D. (*with* Skowronski, J. M.) Dynamic game applied to coordination control of two arm robotic system. (English summary) **93f:93088**
Arimoto, Suguru Passivity of robot dynamics implies capability of motor program learning. (English summary) (*see* **93d:70002**)
Bastin, G. *see* **Campion, Guy; et al., 93f:70030**
Berbyuk, V. E. (*with* Yanchak, Ya. I.) Speed optimization of transport motion of a portal robot. (Russian) **93d:93055**
Berghuis, Harry (*with* Nijmeijer, Henk; Löhnberg, Peter) An addendum on: "Robust control of robots by the computed torque method [law]" [Systems Control Lett. **16** (1991), no. 1, 25–32; MR 91j:93066] by Z. Qu, J. F. Dorsey, X. Zhang and D. M. Dawson. (English summary) **93g:93055**
Broida, T. J. Kinematic and statistical models for data fusion using Kalman filtering. (*see* **93g:68002**)
Brown, Christopher (*with* Durrant-Whyte, H.; Leonard, J.; Rao, B. Y.; Steer, Brian) Distributed data fusion using Kalman filtering: a robotics application. (*see* **93g:68002**)
Burdakov, S. F. Decentralized robot motion control with dynamical compensation and high gain. (Russian. Russian summary)
Campion, Guy (*with* d'Andréa-Novel, B.; Bastin, G.) Controllability and state feedback stabilizability of nonholonomic mechanical systems. (English summary) **93f:70030**
Canudas de Wit, Carlos (*with* Fixot, N.) Adaptive control of robot manipulators via velocity estimated feedback. (English summary) **93f:70031**
— Adaptive control of robot manipulators using only position feedback. (*see* **93a:93005**)
— *see also* **Nielsen, Lars; et al., 93f:70035** *and* **Advanced robot control, 93d:70002**
Casavola, Alessandro (*with* Mosca, Edoardo) H_∞ and H_2 simple controllers for robotic applications. **93g:93056**
Chaumette, François *see* **Espiau, Bernard, (93d:70002)**
Chen, Yaobin Structure of the time-optimal control law for multiple arms handling a common object along specified paths. (English summary) **93k:93069**
— (*with* Chien, Stanley Y.-P.; Desrochers, Alan A.) General structure of time-optimal control of robotic manipulators moving along prescribed paths. (English summary) **93f:93089**
— (*with* Desrochers, Alan A.) Minimum-time control laws for robotic manipulators. (English summary) **93k:93070**
(Chen, Yi-Feng) *see* **Myszkorowski, Piotr**
Chiaverini, Stefano (*with* Sciavicco, Lorenzo; Siciliano, Bruno) Control of robotic systems through singularities. (English summary) **93f:70032**
Chien, Stanley Y.-P. *see* **Chen, Yaobin; et al., 93f:93089**
Chung, Shu (*with* Haug, Edward J.) A hybrid variational method for multibody dynamics. (English summary) **93j:70002**
(Dawson, Darren M.) *see* **Berghuis, Harry; et al., 93g:93055**
Denker, Ahmet *see* **Kaynak, Okyay, 93m:93019**
Desrochers, Alan A. *see* **Chen, Yaobin; et al., 93f:93089** *and* **93k:93070**
Di Benedetto, Maria Domenica (*with* Lucibello, P.) An inversion procedure for nonlinear time-varying systems. (English summary) **93e:93044**
(Dorsey, John F.) *see* **Berghuis, Harry; et al., 93g:93055**
Dugard, Luc *see* **M'Saad, M.; et al.**
Durrant-Whyte, H. *see* **Brown, Christopher; et al., (93g:68002)**
Eason, R. O. (*with* Gonzalez, Rafael C.) Least-squares fusion of multisensory data. (*see* **93g:68002**)
Espiau, Bernard (*with* Chaumette, François) Some issues in the control of rigid robots in a sensory space. (English summary) (*see* **93d:70002**)
Faltings, Boi A symbolic approach to qualitative kinematics. (English summary) **93g:68124**
Feng, Zu Ren *see* **Jiang, Fan; et al., 93b:70032**
Fitzmorris, Alan *see* **Ghorbel, Fathi; et al., 93f:70033**
Fixot, N. *see* **Canudas de Wit, Carlos, 93f:70031**
Fratini, A. *see* **Jetto, L.; et al., (93g:93004)**
Furuta, Katsuhisa Intelligent control in robotics. (English summary) (*see* **93g:93006**)
Gardiner, John Richard *see* **Silverberg, Larry**
Garnier, C. Symbolic formulation of dynamic equations for interconnected flexible bodies: the GEMMES software. (English summary) (*see* **93c:93006**)
Ghorbel, Fathi (*with* Fitzmorris, Alan; Spong, Mark W.) Robustness of adaptive control of robots: theory and experiment. (English summary) **93f:70033**
Gonzalez, Rafael C. *see* **Eason, R. O., (93g:68002)**
Guo, Qiao A new kind of decentralized adaptive robust control scheme with task comparability for a redundant manipulator. (Chinese. English and Chinese summaries)
Hagander, Per *see* **Nielsen, Lars; et al., 93f:70035**
Ham, Woonchul Adaptive control based on explicit model of robot manipulator. (English summary)
Hammad, Sh. *see* **M'Saad, M.; et al.**
Haug, Edward J. *see* **Yen, Jeng; et al., 93a:65110** *and* **Chung, Shu, 93j:70002**
Hausmann, Jean-Claude Sur la topologie des bras articulés. [On the topology of robot arms] **93a:57035**
Hodgson, S. P. *see* **Stoten, D. P.**
Hong, G. S. *see* **Zhu, H. A.; et al.**
Huang, Han Pang (*with* Lin, Marlon) Robust force control for robotic manipulators. (English summary)
Imura, J. (*with* Sugie, Toshiharu; Yoshikawa, Tsuneo) Adaptive robust control of robot manipulators. (English summary) (*see* **93g:93006**)
Isobe, Toyosaku (*with* Nagasaka, Kengo; Yamamoto, Shinji) A new approach to kinematic control of simple manipulators. (English summary)
Itoh, T. *see* **Sampei, M.; et al., (93g:93006)**
Jetto, L. (*with* Longhi, Sauro; Fratini, A.) Adaptive deadbeat trajectory tracking for robotic manipulators. (English summary) (*see* **93g:93004**)
Jiang, Fan (*with* Feng, Zu Ren; Shi, Ren) A study on adaptive impedance control of robots. (Chinese. English summary) **93b:70032**
Kalinnikov, V. G. Active damping of oscillations of a rotating linkage. (Russian. Russian summary) **93k:73059**
Kawaguchi, Y. (*with* Kikuta, T.; Miyazaki, F.) Map aided flexible trajectory generation for a mobile robot. (English summary) (*see* **93g:93006**)
Kaynak, Okyay (*with* Denker, Ahmet) Discrete-time sliding mode control in the presence of system uncertainty. (English summary) **93m:93019**
Kikuta, T. *see* **Kawaguchi, Y.; et al., (93g:93006)**
Klepp, Horst J. Stopping check for systems with friction-affected constraints. (English, German and Russian summaries) **93j:70005**
Ko, Kwang-Soob (*with* Read, Russell K.) Stochastic robot forward dynamics with spatially distributed measurement noise. (English summary)
Kozłowski, Krzysztof New computational algorithms for a discrete Kalman filter in robot dynamics. (English, Russian and Polish summaries)
Krak, Yu. V. (*with* Semenyuk, Yu. V.) An algorithm for minimizing the complexity of equations of the dynamics of a manipulator. (Russian. Russian summary)
Kreuzer, E. J. Symbolverarbeitung in der Mechanik—zwei Beispiele. (English, German and Russian summaries) [Symbol manipulation in mechanics—two examples] **93g:70001**
Krishnan, Hariharan *see* **McClamroch, N. Harris, 93f:93086**
Lanari, Leonardo (*with* Wen, John T.) Asymptotically stable set point control laws for flexible robots. (English summary)
Larin, V. B. *see* **Antonyuk, E. Ya.; et al., 93b:70015**
Ledwich, G. F. *see* **Teng, F. C.; et al.**
Lee, Allan Y. Solving constrained minimum-time robot problems using the sequential gradient restoration algorithm. (English summary)
Leonard, J. *see* **Brown, Christopher; et al., (93g:68002)**
Levit-skii, N. I. ★ Теория механизмов и машин. (Russian) [Theory of mechanisms and machines] **93a:70001**
Lin, Marlon *see* **Huang, Han Pang**
Löhnberg, Peter *see* **Berghuis, Harry; et al., 93g:93055**
Longhi, Sauro *see* **Jetto, L.; et al., (93g:93004)**
Lü, Bing Chao A design of adaptive control algorithms for robot manipulator systems. (Chinese. English and Chinese summaries) **93h:93047**
Lu, Gui Zhang *see* **Wang, Guo Li**
Lucibello, P. *see* **Di Benedetto, Maria Domenica, 93e:93044**
Luo, Shengwu (*with* Ahmad, Shaheen) Predicting the drift motion for kinematically redundant robots. (English summary) **93g:68141**
Ma, L. Y. X. *see* **Tso, S. K.**
Ma, Xian (*with* Peng, Hong Cai; Yang, Hua) Variable structure control for a robot's A.C. servo system. (Chinese. English and Chinese summaries)
Maehara, Hiroshi On a special case of Connelly's suspension theorem. **93d:52030**
— Extending a flexible unit-bar framework to a rigid one. (English summary) **93h:52028**
— Distance graphs in Euclidean space. **93k:52023**
Mayeda, Hirokazu *see* **Osuka, K.; et al., (93g:93006)**
McClamroch, N. Harris (*with* Krishnan, Hariharan) Nonstandard singularly perturbed control systems and differential-algebraic equations. **93f:93086**
(Mita, Tsutomu) *see* **Myszkorowski, Piotr**
Miyazaki, F. *see* **Kawaguchi, Y.; et al., (93g:93006)**
Mosca, Edoardo *see* **Casavola, Alessandro, 93g:93056**
M'Saad, M. (*with* Dugard, Luc; Hammad, Sh.) A suitable generalized predictive adaptive controller case study: control of a flexible arm. (English summary)
Mukharlyamov, R. G. Mechanical systems with program constraints. (Russian) **93f:70018**
Mukherjee, Ranjan *see* **Nakamura, Yoshihiko, 93f:70034**
Müller, Hans Robert Zur analytischen Behandlung räumlicher Gelenkketten. [On the analytical treatment of spatial mechanisms] **93g:53019**
Myszkorowski, Piotr Comments on: "A new and simple algorithm for sliding mode trajectory control of the robot arm" [IEEE Trans. Automat. Control **35** (1990), no. 7, 828–829] by Y.-F. Chen, T. Mita and S. Wakui.
Nagasaka, Kengo *see* **Isobe, Toyosaku; et al.**
Nakamichi, M. *see* **Sampei, M.; et al., (93g:93006)**
Nakamura, Y. Geometric fusion: minimizing uncertainty ellipsoid volumes. (*see* **93g:68002**)
Nakamura, Yoshihiko (*with* Mukherjee, Ranjan) Nonlinear control for the nonholonomic motion of space robot systems. (English summary) **93f:70034**

Nicosia, S. (*with* Tornambè, Antonio; Valigi, Paolo) Observers in the control of rigid robots. (English summary) (*see* **93d:70002**)
Nielsen, Lars (*with* Canudas de Wit, Carlos; Hagander, Per) Controllability issues of robots near singular configurations. (English summary) **93f:70035**
Nijmeijer, Henk *see* **Berghuis, Harry; et al., 93g:93055**
Ono, Toshiro *see* **Osuka, K.; et al., (93g:93006)**
Osuka, K. (*with* Ono, Toshiro; Mayeda, Hirokazu) Further results on the identification method for serial manipulators. (English summary) (*see* **93g:93006**)
Pedchenko, A. M. *see* **Antonyuk, E. Ya.; et al., 93b:70015**
Peng, Hong Cai *see* **Ma, Xian; et al.**
Perevozchikov, A. G. A method for the optimization of the construction of a robot that is based on finite-dimensional approximation of function spaces. (Russian) (*see* **93k:00021**)
Poo, A. N. *see* **Zhu, H. A.; et al.**
(Qu, Zhihua) *see* **Berghuis, Harry; et al., 93g:93055**
Rao, B. Y. *see* **Brown, Christopher; et al., (93g:68002)**
Read, Russell K. *see* **Ko, Kwang-Soob**
Sampei, M. (*with* Itoh, T.; Nakamichi, M.) Application of linearization technique and time scale transformation to trajectory control of tricycle-type mobile robot. (English summary) (*see* **93g:93006**)
Samson, Claude Velocity and torque feedback control of a nonholonomic cart. (English summary) **93g:70032**
Sciavicco, Lorenzo *see* **Chiaverini, Stefano; et al., 93f:70032**
Semenyuk, Yu. V. *see* **Krak, Yu. V.**
Shannon, G. *see* **Teng, F. C.; et al.**
Shi, Ren *see* **Jiang, Fan; et al., 93b:70032**
Siciliano, Bruno *see* **Chiaverini, Stefano; et al., 93f:70032**
Silverberg, Larry (*with* Gardiner, John Richard) Simulation of the mechanics of water-skier motion. (English summary)
Skowronski, J. M. *see* **Ardema, M. D., 93f:93088**
Spong, Mark W. *see* **Ghorbel, Fathi; et al., 93f:70033**
Steer, Brian *see* **Brown, Christopher; et al., (93g:68002)**
Stepanenko, Yu. *see* **Yuan, Jing**
Stokić, D. *see* **Vukobratović, M., 93d:93057**
Stoten, D. P. (*with* Hodgson, S. P.) The application of the minimal control synthesis algorithm to the hybrid control of a class 1 manipulator. (English summary)
Su, Chun Yi (*with* Zhou, Qi Jie) An adaptive force/position scheme for constrained robot manipulators. (Chinese. English and Chinese summaries)
Sugie, Toshiharu *see* **Imura, J.; et al., (93g:93006)**
Sun, Fu Chun (*with* Sun, Zeng Qi) The discrete-time controller design based on sliding mode for manipulators. (English and Chinese summaries)
Sun, Zeng Qi *see* **Sun, Fu Chun**
Tak, T. O. *see* **Yen, Jeng; et al., 93a:65110**
Teng, F. C. (*with* Ledwich, G. F.; Shannon, G.) Adaptive control scheme for a robot manipulator: direct decoupler and PID controller. (English summary)
Teo, C. L. *see* **Zhu, H. A.; et al.**
Tokad, Yılmaz Network model approach to the analysis of multirigid-body systems. (English summary) **93m:70009**
Tornambè, Antonio *see* **Nicosia, S.; et al., (93d:70002)**
Tso, S. K. (*with* Ma, L. Y. X.) Discrete learning control for robots: strategy, convergence and robustness. (English summary)
Tyatyushkin, A. I. ★ Численные методы и программные средства оптимизации управляемых систем. (Russian. Russian summary) [Numerical methods and program means for optimization of control systems] **93i:49003**
Valigi, Paolo *see* **Nicosia, S.; et al., (93d:70002)**
Vukobratović, M. (*with* Stokić, D.) Is adaptive control necessary for manipulation robots, and if so, to what degree? (Russian) **93d:93057**
(Wakui, Shinji) *see* **Myszkorowski, Piotr**
Wang, Guo Li (*with* Lu, Gui Zhang) Modelling and control of nonslender flexible robot links. (English summary)
Wen, John T. *see* **Lanari, Leonardo**
Yamamoto, Shinji *see* **Isobe, Toyosaku; et al.**
Yanchak, Ya. I. *see* **Berbyuk, V. E., 93d:93055**
Yang, Hua *see* **Ma, Xian; et al.**
Yen, Jeng (*with* Haug, Edward J.; Tak, T. O.) Numerical methods for constrained equations of motion in mechanical system dynamics. **93a:65110**
Yoshikawa, Tsuneo Digital control of robot manipulators by computed torque method. (*see* **93f:93007**)
— *see also* **Imura, J.; et al., (93g:93006)**
Yuan, Jing (*with* Stepanenko, Yu.) Composite adaptive control of flexible joint robots. (English summary)
Yun, Xiao Ping Dynamic state feedback control of two cooperative manipulators. (English summary) **93k:93072**
Zhang, Shu Shun The theorem of the stability of linear nonautonomous systems under the frequently-acting perturbation and its application in the stability analysis of robot. (Chinese. English summary) **93e:34070**
(Zhang, Xinfan) *see* **Berghuis, Harry; et al., 93g:93055**
Zhou, Qi Jie *see* **Su, Chun Yi**
Zhu, H. A. (*with* Teo, C. L.; Hong, G. S.; Poo, A. N.) An enhanced scheme for the model-based control of robot manipulators. (English summary)
Zribi, Mohamed *see* **Ahmad, Shaheen, 93i:93085**

Items listed otherwise than by author

Advanced robot control ★ Advanced robot control. **93d:70002**
Grenoble ★ Advanced robot control. **93d:70002**
Lecture Notes in Control and Information Sciences ★ Advanced robot control. **93d:70002**
Workshop:
Nonlinear and Adaptive Control: Issues in Robotics ★ Advanced robot control. **93d:70002**

70B99 None of the above, but in this section

Items with secondary classifications in 70B99

Chobanov, Ivan Introduction to an algebraic theory of arrows. II. (English and Russian summaries) **93k:70003**
— Introduction to an algebraic theory of arrows. III. (English and Russian summaries) **93k:70004**
Gardiner, John Richard *see* **Silverberg, Larry**
Silverberg, Larry (*with* Gardiner, John Richard) Simulation of the mechanics of water-skier motion. (English summary)

70C20 Statics

Tay, Tiong Seng On the infinitesimal rigidity of an n-ring. (English summary) **93m:70005**

Items with secondary classifications in 70C20

Chobanov, Ivan Introduction to an algebraic theory of arrows. II. (English and Russian summaries) **93k:70003**
— Introduction to an algebraic theory of arrows. III. (English and Russian summaries) **93k:70004**
Duhem, Pierre-Maurice-Marie ★ The origins of statics. **93a:01063**
(Jaki, Stanley L.) *see* **Duhem, Pierre-Maurice-Marie, 93a:01063**
(Leneaux, Grant F.) *see* **Duhem, Pierre-Maurice-Marie, 93a:01063**
Recski, András Applications of combinatorics to statics—a second survey. (English summary) **93j:73063**
(Vagliente, Victor N.) *see* **Duhem, Pierre-Maurice-Marie, 93a:01063**
(Wagener, Guy H.) *see* **Duhem, Pierre-Maurice-Marie, 93a:01063**
Whiteley, Walter Matroids and rigid structures. **93h:52029**

70Dxx Dynamics of a particle [see also 70Hxx]

70D05 Newtonian dynamics

Arens, Richard F. Newton's observations about the field of a uniform thin spherical shell. **93g:70006**
Filimonov, A. M. Some unexpected results on the classical problem of vibrations of the string with N beads. The case of multiple frequencies. (English and French summaries) **93i:70003**

Items with secondary classifications in 70D05

Burdo, O. S. (*with* Gorin, V. V.; Dargeiko, M. M.) On the error estimation problem in determining location in inertial navigation problems. (Russian. Russian summary) **93k:70038**
Dargeiko, M. M. *see* **Burdo, O. S.; et al., 93k:70038**
(Einstein, Albert) *see* **Temple, Blake, 93c:01001**
Fujita, Shigeji (*with* Godoy, S.) Newtonian equations of motion for a Bloch electron. (Spanish summary) **93g:82105**
Godoy, S. *see* **Fujita, Shigeji, 93g:82105**
Gorin, V. V. *see* **Burdo, O. S.; et al., 93k:70038**
Kriksin, Yu. A. Dynamical systems with external action. (Russian) **93c:34133**
Mittag, Laurence (*with* Stephen, Michael J.) Conformal transformations and the application of complex variables in mechanics and quantum mechanics. **93c:81032**
(Newton, Isaac) *see* **Temple, Blake, 93c:01001**
Stephen, Michael J. *see* **Mittag, Laurence, 93c:81032**
Temple, Blake (*with* Tracy, Craig A.) From Newton to Einstein. **93c:01001**
Tracy, Craig A. *see* **Temple, Blake, 93c:01001**
Weinstock, Robert Inverse-square orbits: three little-known solutions and a novel integration technique. **93d:70017**

70D10 Lagrangian dynamics

Items with secondary classifications in 70D10

Corona-Galindo, M. G. *see* **González-Acosta, E., 93k:70031**
González-Acosta, E. (*with* Corona-Galindo, M. G.) Noether's theorem and the invariants for dissipative and driven dissipative like systems. (English and Spanish summaries) **93k:70031**
Veselov, A. P. Parametric resonance and geodesics on an ellipsoid. (Russian) **93h:58062**

70D99 None of the above, but in this section

Items with secondary classifications in 70D99

Bruhn, B. *see* **Koch, B. P., 93d:70029**
Koch, B. P. (*with* Bruhn, B.) Chaotic scattering in a near-integrable system. **93d:70029**
Kozlov, Valerii V. (*with* Treshchëv, D. V.) ★ Billiards. **93k:58094a**
— (*with* Treshchëv, D. V.) ★ Биллиарды. (Russian) [Billiards] **93k:58094b**
Marchetti, Federico Constrained systems. (English summary) (*see* **93g:81002**)
(Schulenberger, J. R.) *see* **Kozlov, Valerii V., 93k:58094a**
Treshchëv, D. V. *see* **Kozlov, Valerii V., 93k:58094a** *and* **93k:58094b**

70Exx Dynamics of a rigid body

70E05 Motion of the gyroscope

Storozhenko, V. A. (*with* Temchenko, M. E.) On the stability of the rotation of a dynamically asymmetric gyroscope with a special damping device. (Russian. Russian summary) (*see* **93m:00027**)
Temchenko, M. E. *see* **Storozhenko, V. A., (93m:00027)**

Items with secondary classifications in 70E05

Bolgrabskaya, I. A. Equations of inertial motion of a system of n different Lagrange gyroscopes, and small oscillations of rotating inhomogeneous rod. (Russian. Russian summary) **93m:73020**

Dokshevich, A. I. Rapid rotation of a body around a fixed point in the Hess case. (Russian. Russian summary) **93m:70006**

Gashenenko, I. N. A case of the integrability of equations of motion of a gyrostat. (Russian. Russian summary) **93m:70007**

Mićunović, Milan V. On viscoplasticity of transversely isotropic materials. (German and Serbo-Croatian summaries) **93e:73016**

70E15 Motion of rigid bodies

Agop, Marcel (*with* Talaşman, S.) The invariantive theory of rigid bodies. (Romanian. French summary) **93a:70004**

Bolgrabskaya, I. A. *see* **Savchenko, A. Ya.; et al., 93d:70011**

Burov, A. A. On the motion of a rigid body interacting with a gas. (Russian) (*see* **93e:34004**)

Cavas, J. A. (*with* Vigueras Campuzano, Antonio) Analytic integration of a particular case of the problem of the rotational motion of a gyrostat with a fixed point in a central Newtonian field. (Spanish. English summary) **93k:70007**

Chiang, R. C. (*with* Shieh, S. Y.) Generalization of Jacobi's decomposition theorem to the rotation and translation of a solid in a fluid. (English summary) **93h:70002**

Dokshevich, A. I. Small oscillations of a top in the vicinity of a motion obeying the law of a physical pendulum. (Russian) **93b:70004**

— Rapid rotation of a body around a fixed point in the Hess case. (Russian. Russian summary) **93m:70006**

Dong, Zhi Ming (*with* Yang, Hai Xing) Stability of a Chaplygin sphere rolling with sliding on a horizontal plane with viscous friction. (Chinese. English and Chinese summaries) **93e:70001**

Dovbysh, S. A. On the separatrix of the unstable equilibrium of the Hess-Appel'rot top. (Russian. Russian summary) **93k:70008**

El-Sabaa, F. M. F. Periodic solutions in the Kovalevskaya case of a rigid body in rotation about a fixed point. (English summary)

Fliegner, Thomas *see* **Steigenberger, Joachim, 93i:70007**

Furta, Stanislav D. Motions of an axisymmetric gyroscope subject to the action of small random perturbations. (Russian) (*see* **93g:00022**)

Gashenenko, I. N. A case of the integrability of equations of motion of a gyrostat. (Russian. Russian summary) **93m:70007**

Gavrilov, Ljubomir Nedjalkov Nonintegrability of the equations of heavy gyrostat. **93d:70008**

Gorr, G. V. (*with* Maznev, A. V.; Verkhovod, E. V.) New solutions of a generalized problem of the dynamics of a rigid body with a fixed point. (Russian. English and Russian summaries) **93d:70009**

— A new solution of a generalized problem on the motion of a body with a fixed point. (Russian. Russian summary) **93g:70007**

— *see also* **Varkhalev, Yu. P., 93m:70010**

Guran, A. Chaotic motion of a Kelvin type gyrostat in a circular orbit. (English summary)

Ishlinskiĭ, A. Yu. (*with* Storozhenko, V. A.; Temchenko, M. E.) ★ Вращение твердого тела на струне и смежные задачи. (Russian) [Rotation of a rigid body on a string and related problems] **93d:70010**

— (*with* Storozhenko, V. A.; Temchenko, M. E.) Quasiparadoxical motions of a rigid body. (Russian. English and Ukrainian summaries) **93i:70004**

Issa, Salem Abdalla *see* **Kovalev, A. M.**

Karapetyan, A. V. Qualitative investigation of the dynamics of a top on a plane with friction. (Russian) **93b:70005**

Kharlamova, E. I. Integrable cases of the problem of the motion of a gyrostat subject to a nonholonomic constraint. (Russian) **93a:70005**

Kononykhin, G. A. *see* **Savchenko, A. Ya.; et al., 93d:70011**

Koshlyakov, V. N. Generalized Euler equations in Rodrigues-Hamilton parameters. (Russian. Russian summary) (*see* **93m:00038**)

Kovalenko, N. V. (*with* Shepelenko, O. V.) The effect of arbitrary rigidity in a hinge on the stabilization of a resting Lagrange gyroscope by a second rotating gyroscope. (Russian. Russian summary)

Kovalev, A. M. (*with* Issa, Salem Abdalla) Stabilization of the uniform motions of a rigid body about the principal axis. (Russian. Russian and Ukrainian summaries)

Lebedev, D. V. (*with* Tkachenko, A. I.) On the calculation of the parameters of the translational-rotational motion of a rigid body. (Russian. Russian summary)

Lewis, Donald Cain (*with* Ratiu, Tudor S.; Simo, Juan C.; Marsden, Jerrold Eldon) The heavy top: a geometric treatment. **93b:70006**

MacMillan, Ernest H. On the equations of rigid body motion. (English summary) **93j:70003**

Marsden, Jerrold Eldon *see* **Lewis, Donald Cain; et al., 93b:70006**

Maznev, A. V. *see* **Gorr, G. V.; et al., 93d:70009**

Mosiyash, T. A. Stabilization of a resting Lagrange gyroscope by a second rotating balanced gyroscope. (Russian. Russian summary)

Nosyreva, E. P. Sufficient conditions for the existence of asymptotic pendulum motions of a heavy rigid body with a fixed point. (Russian. Russian summary) **93m:70008**

Piña, E. On the motion of the symmetric Lagrange's top. (English and Spanish summaries) **93i:70005**

Ratiu, Tudor S. *see* **Lewis, Donald Cain; et al., 93b:70006**

Savchenko, A. Ya. (*with* Bolgrabskaya, I. A.; Kononykhin, G. A.) ★ Устойчивость движения систем связанных твердых тел. (Russian) [Stability of motion of systems of coupled rigid bodies] **93d:70011**

Shepelenko, O. V. *see* **Kovalenko, N. V.**

Shieh, S. Y. *see* **Chiang, R. C., 93h:70002**

Simo, Juan C. *see* **Lewis, Donald Cain; et al., 93b:70006**

Souchet, René Analytical dynamics of rigid body impulsive motions. (English summary) **93i:70006**

Steigenberger, Joachim (*with* Fliegner, Thomas) Stability of a disturbance decoupled rigid body. (English summary) **93i:70007**

Storozhenko, V. A. *see* **Ishlinskiĭ, A. Yu.; et al., 93d:70010** *and* **93i:70004**

Talaşman, S. *see* **Agop, Marcel, 93a:70004**

Temchenko, M. E. *see* **Ishlinskiĭ, A. Yu.; et al., 93d:70010** *and* **93i:70004**

Tkachenko, A. I. *see* **Lebedev, D. V.**

Tokad, Yılmaz Network model approach to the analysis of multirigid-body systems. (English summary) **93m:70009**

Varkhalev, Yu. P. (*with* Gorr, G. V.) The first Lyapunov method in the study of asymptotic motions in the dynamics of a rigid body. (Russian. Russian summary) **93m:70010**

Verkhovod, E. V. Isoconic motions of a rigid body in a solution of a generalized problem in dynamics. (Russian. Russian summary)

— *see also* **Gorr, G. V.; et al., 93d:70009**

Vigueras Campuzano, Antonio *see* **Cavas, J. A., 93k:70007**

Yang, Hai Xing *see* **Dong, Zhi Ming, 93e:70001**

Yaroshchuk, V. A. New cases of the existence of an integral invariant in a problem on the rolling of a rigid body, without slippage, on a fixed surface. (Russian. Russian summary) **93k:70009**

Zenkov, D. V. On a problem of Routh. (Russian) **93i:70008**

Zitterbarth, Jürgen Some remarks on the motion of a rigid body in a space of constant curvature without external forces. **93c:70005**

Items with secondary classifications in 70E15

Aeyels, Dirk On stabilization by means of the energy-Casimir method. (English summary) **93f:70029**

Anoshkina, E. V. Topological classification of an integrable case of Goryachev-Chaplygin type with a generalized potential in the dynamics of a rigid body. (Russian) **93h:58048**

Beletskiĭ, V. V. (*with* Grushevskiĭ, A. V.) Evolution of rotational motions of a satellite under the action of a dissipative aerodynamical moment. (Russian. English summary) **93a:70026**

Bogdanov, E. I. Quantization of Lagrange classical mechanics. (Russian. English and Russian summaries) **93h:58050**

Bolotin, S. V. Variational methods for constructing chaotic motions in the dynamics of a rigid body. (Russian. Russian summary) **93g:58025**

Bolsinov, A. V. (*with* Fedorov, Yu. N.) Multidimensional integrable generalizations of Steklov-Lyapunov systems. (Russian) **93k:70023**

Caboz, Régis *see* **Gavrilov, Ljubomir Nedjalkov; et al., 93f:58167**

Chiou, J. C. *see* **Park, K.-C., 93m:70001**

Davies, M. A. (*with* Moon, F. C.) 3-D spatial chaos in the elastica and the spinning top: Kirchhoff analogy. (English summary) **93m:58107**

Fedorov, Yu. N. *see* **Bolsinov, A. V., 93k:70023**

Gavrilov, Ljubomir Nedjalkov (*with* Ouazzani-Jamil, Mohammed; Caboz, Régis) Bifurcations des tores de Liouville du potentiel de Kolossoff $U = \rho + (1/\rho) - k\cos\varphi$. (English and French summaries) [Bifurcations of the Liouville tori of the Kolossoff potential $U = \rho + (1/\rho) - k\cos\varphi$] **93f:58167**

Grushevskiĭ, A. V. *see* **Beletskiĭ, V. V., 93a:70026**

Hirai, Kazumasa (*with* Shindou, Hisanori) The cooperative behavior of a compound system. (English summary) **93h:34078**

Holm, Darryl D. (*with* Marsden, Jerrold Eldon) The rotor and the pendulum. **93f:58075**

Hulbert, Gregory M. Explicit momentum conserving algorithms for rigid body dynamics. (English summary)

Isakov, A. V. Optimal damping of nutational oscillations of a body stabilized by rotation. A pendulum damper. (Russian. Russian summary) (*see* **93m:93005**)

Karapetyan, A. V. Phase portraits of dissipative systems with symmetry. (Russian) **93g:70016**

Kharlamov, P. V. Commentaries to a paper of L. A. Stepanova: "An unsuccessful attempt to defend the priority of the classics of Russian mechanics in constructing exact solutions in the mechanics of a rigid body" [Mekh. Tverd. Tela No. 22 (1990), 19–33] and of A. I. Khokhlov: "An unsuccessful attempt to defend a result of V. A. Steklov" [Mekh. Tverd. Tela No. 23 (1991), 26–36; MR 93g:01039]. (Russian) **93g:01040**

Khokhlov, A. I. An unsuccessful attempt to defend a result of V. A. Steklov. (Russian) **93g:01039**

— *see also* **Kharlamov, P. V., 93g:01040**

Kozlov, Valerii V. Vortex theory of a top. (Russian) **93d:58055**

Krut'ko, P. D. Adaptive algorithms for the control of rotational motions and spatial orientation of a rigid body. (Russian) **93i:70029**

Kubyshkin, E. P. Optimal control of the rotation of a solid body with a flexible rod. (Russian. Russian summary) **93i:70030**

Levit-skiĭ, N. I. ★ Теория механизмов и машин. (Russian) [Theory of mechanisms and machines] **93a:70001**

Maddocks, John H. On the stability of relative equilibria. **93g:70023**

Marsden, Jerrold Eldon *see* **Holm, Darryl D., 93f:58075**

Moon, F. C. *see* **Davies, M. A., 93m:58107**

Naumenko, K. I. Design of a system for the control of the orientation of a rigid body. (Russian. Russian summary) (*see* **93m:00038**)

Okuneva, G. G. Integrable Hamiltonian systems in analytic dynamics and mathematical physics. **93a:58085**

Oshemkov, A. A. Fomenko invariants for the main integrable cases of the rigid body motion equations. **93b:58057**

Ouazzani-Jamil, Mohammed *see* **Gavrilov, Ljubomir Nedjalkov; et al., 93f:58167**

Park, K.-C. (*with* Chiou, J. C.) A discrete momentum-conserving explicit algorithm for rigid body dynamics analysis. (English summary) **93m:70001**

Paternain, Gabriel P. Real analytic convex surfaces with positive topological entropy and rigid body dynamics. (English summary) **93m:58084**

Piovan, Luis A. Cyclic coverings of abelian varieties and the Goryachev-Chaplygin top. **93j:14059**

Potkin, V. V. On the physical meaning of some integrable cases of Euler equations on the Lie algebra SO(4). (Russian. Russian summary) (*see* **93m:00032**)

Puta, Mircea A new proof of a theorem due to Aeyels and Szafranski. (English summary) **93k:93097**

Shamolin, M. V. On the problem of the motion of a body in a resistant medium. (Russian. Russian summary) **93k:70028**

Shindou, Hisanori *see* **Hirai, Kazumasa, 93h:34078**
Sidorenko, V. V. Stationary motions of a satellite with elastic rods that admits a symmetry group. (Russian) **93a:70028**
(Stepanova, L. A.) *see* **Kharlamov, P. V., 93g:01040**

70E20 Perturbation methods for Euler's equations

Items with secondary classifications in 70E20

Dokshevich, A. I. Small oscillations of a top in the vicinity of a motion obeying the law of a physical pendulum. (Russian) **93b:70004**

70E99 None of the above, but in this section

Abad, A. *see* **Elipe Sánchez, Antonio C.; et al., 93k:70010**
Arribas, M. *see* **Elipe Sánchez, Antonio C.; et al., 93k:70010**
Borri, M. (*with* Bottasso, C.; Mantegazza, P.) A modified phase space formulation for constrained mechanical systems—differential approach. (English summary) **93f:70004**
Bottasso, C. *see* **Borri, M.; et al., 93f:70004**
Elipe Sánchez, Antonio C. (*with* Abad, A.; Arribas, M.) Scaling Hamiltonians in attitude dynamics of two rigid bodies. (English summary) **93k:70010**
Garnier, C. Symbolic formulation of dynamic equations for interconnected flexible bodies: the GEMMES software. (English summary) (*see* **93c:93006**)
Hogan, S. J. The effect of damping on rigid block motion under harmonic forcing. (English summary) **93e:70002**
Ivanov, A. P. Energetics of an impact with friction. (Russian. Russian summary) **93h:70003**
Jean, Michel Dynamics of rigid bodies with dry friction and partially elastic collisions. **93c:70006**
Kholostova, O. V. On the stability of a particular motion of a rigid body with an elastoviscous membrane on a circular orbit. (Russian) **93d:70012**
Kononov, Yu. N. On the influence of partitions in a cylindrical cavity on the stability of the uniform rotation of a Lagrange top. (Russian. Russian summary)
Konoplev, V. A. The aggregate form of the differential equations of coupling between a system of bodies and bodies of the external medium. (Russian) **93d:70013**
Krishnaprasad, P. S. *see* **Wang, Li Sheng; et al., 93i:70009**
Lesina, M. E. Axoids in a case of integrability of a problem on the motion of two bodies connected by a spherical hinge. (Russian) **93d:70014**
— Some exact solutions of a problem on the motion of two gyrostats connected by a spherical hinge. (Russian. Russian summary)
— Equiaxoidal motions of gyrostats. (Russian. Russian summary)
Lesser, Martin A geometrical interpretation of Kane's equations. (English summary) **93f:70005**
Maddocks, John H. *see* **Wang, Li Sheng; et al., 93i:70009**
Mantegazza, P. *see* **Borri, M.; et al., 93f:70004**
Nesterov, O. Yu. (*with* Sudakov, S. N.) On the stability of the uniform rotations of a top with an ellipsoidal cavity, containing a porous damper, completely filled with a viscous incompressible fluid. (Russian. Russian summary)
Sudakov, S. N. *see* **Nesterov, O. Yu.**
Vidyakin, V. V. Sufficient conditions for stability of the regular motion of two perfectly rigid bodies. (Russian) **93f:70006**
Wang, Li Sheng (*with* Maddocks, John H.; Krishnaprasad, P. S.) Steady rigid-body motions in a central gravitational field. (English summary) **93i:70009**

Items with secondary classifications in 70E99

Banshchikov, A. V. (*with* Burlakova, L. A.; Irtegov, V. D.; Novikov, M. A.) Algorithms for the qualitative investigation of complex systems. (Russian. English and Ukrainian summaries) **93g:70003**
Barnyak, M. Ya. (*with* Tsebrii, R. I.) Reduction of a problem on normal oscillations of a pendulum with a cylindrical cavity filled with a viscous fluid to a system of integro-differential equations, and a projection method for their solution. (Russian. Russian summary) (*see* **93g:00025**)
Benati, M. (*with* Morro, Angelo) Equations for multibody dynamics. **93a:70012**
Boichenko, V. A. *see* **Leonov, G. A., 93e:58132**
Bolgrabskaya, I. A. Equations of inertial motion of a system of n different Lagrange gyroscopes, and small oscillations of rotating inhomogeneous rod. (Russian. Russian summary) **93m:73020**
— *see also* **Savchenko, A. Ya.; et al., 93d:70011**
Burlakova, L. A. *see* **Banshchikov, A. V.; et al., 93g:70003**
Capodanno, Pierre Sur le mouvement d'un pendule à suspension élastique contenant un liquide. [On the motion of an elastically suspended pendulum containing a fluid] **93f:73079**
— Sur la stabilité d'un mouvement particulier d'un solide se déplaçant dans un fluide et possédant une cavité partiellement remplie de liquide. (English summary) [On the stability of a particular motion in a fluid of a solid containing a cavity partially filled with liquid] **93i:76018**
Chaĭkin, S. V. Relative equilibrium positions on a circular orbit of a flexible satellite and their stability. (Russian. Russian summary) **93g:70030**
Chobanov, Georgi Iv. (*with* Chobanov, Ivan) Fundamental identities of Lagrangean formalism for holonomic mass-point and rigid body systems. (English and Bulgarian summaries) **93m:70022**
Chobanov, Ivan *see* **Chobanov, Georgi Iv., 93m:70022**
Chung, Shu (*with* Haug, Edward J.) A hybrid variational method for multibody dynamics. (English summary) **93j:70002**
D'Eleuterio, G. M. T. Dynamics of an elastic multibody chain. C. Recursive dynamics. (English summary) **93k:73057**
Dimentberg, F. M. *see* **Vorob'ev, E. I., 93d:70007**
Dombrowski, Peter Dynamics in spaces of constant curvature. (*see* **93d:53002**)
Emel'yanova, I. S. ★ Проблема "симметрия-интегралы движения" в аналитической динамике. (Russian. English and Russian summaries) [The "symmetry-integrals of motion" problem in analytical dynamics] **93k:70030**
Haug, Edward J. *see* **Chung, Shu, 93j:70002**
Hogan, S. J. Heteroclinic bifurcations in damped rigid block motion. (English summary) **93h:70021**
Irtegov, V. D. *see* **Banshchikov, A. V.; et al., 93g:70003**
Junkins, John L. *see* **Lee, Sangchul, 93h:70012**
Klepp, Horst J. Parameters of the periodic response of a system with friction-affected constraints and harmonic excitation. (German summary) **93a:70013**
— Stopping check for systems with friction-affected constraints. (English, German and Russian summaries) **93j:70005**
Komarenko, A. N. Equations of the perturbed motion of a body, with a cavity partially filled with a fluid, that rotates about an axis. (Russian. Russian summary) **93i:76092**
Kononykhin, G. A. *see* **Savchenko, A. Ya.; et al., 93d:70011**
Kreuzer, E. J. Symbolverarbeitung in der Mechanik—zwei Beispiele. (English, German and Russian summaries) [Symbol manipulation in mechanics—two examples] **93g:70001**
Laederich, Stephane (*with* Levi, Mark L.) Qualitative dynamics of planar chains. **93a:58102**
Lee, Sangchul (*with* Junkins, John L.) Explicit generalization of Lagrange's equations for hybrid coordinate dynamical systems. (English summary) **93h:70012**
Leonov, G. A. (*with* Boichenko, V. A.) Lyapunov's direct method in the estimation of the Hausdorff dimension of attractors. **93e:58132**
Levi, Mark L. *see* **Laederich, Stephane, 93a:58102**
Loseva, N. N. On the stability of a mechanical system with incomplete dissipation of energy. (Russian) **93a:70022**
Lubich, Ch. Extrapolation integrators for constrained multibody systems. **93d:70004**
Molina Legaz, R. (*with* Vigueras Campuzano, Antonio) Lie series and first integrals in generalized n-body problems. (Spanish. English summary) **93a:70010**
Morro, Angelo *see* **Benati, M., 93a:70012**
Novikov, M. A. *see* **Banshchikov, A. V.; et al., 93g:70003**
Petzold, Linda R. (*with* Potra, Florian A.) ODAE methods for the numerical solution of Euler-Lagrange equations. (English summary) **93h:65094**
Potra, Florian A. *see* **Petzold, Linda R., 93h:65094**
Savchenko, A. Ya. (*with* Bolgrabskaya, I. A.; Kononykhin, G. A.) ★ Устойчивость движения систем связанных твердых тел. (Russian) [Stability of motion of systems of coupled rigid bodies] **93d:70011**
Smol'nikov, B. A. ★ Проблемы механики и оптимизации роботов. (Russian) [Problems in the mechanics and optimization of robots] **93a:70003**
Sreenath, N. A hybrid computation environment for multibody simulation. (English summary) **93f:65101**
— Nonlinear control of planar multibody systems in shape space. (English summary) **93f:93065**
Stoimenov, L. G. On the solution of a problem on the oblique impact of bodies. Models of the impact of rough bodies. (Russian. English, Russian and Ukrainian summaries) **93k:73025**
Tikhonov, A. A. Influence of the inhomogeneity of the geomagnetic field on the evolution of the rotational motion of a charged rigid body. (Russian. English summary) **93b:70030**
Timokha, A. N. Formulation of nonlinear boundary value problems of the three-dimensional motion of a rigid body filled with a fluid subject to the action of an acoustic field. (Russian. Russian summary) **93h:76016**
Tokad, Yılmaz Errata: "A network model for rigid-body motion" [Dynamics Control 2 (1992), no. 1, 59–82; MR 92k:70004]. **93k:70006**
Tsebrii, R. I. *see* **Barnyak, M. Ya., (93g:00025)**
Vigueras Campuzano, Antonio *see* **Molina Legaz, R., 93a:70010**
Vorob'ev, E. I. (*with* Dimentberg, F. M.) ★ Пространственные шарнирные механизмы. (Russian) [Spatial linkages] **93d:70007**
Yen, Jeng Constrained equations of motion in multibody dynamics as ODEs on manifolds. (English summary) **93m:70002**
Zubov, V. I. A theory of physical libration of the moon. (Russian) **93b:70014**

70Fxx Dynamics of a system of particles, including celestial mechanics

Items with secondary classifications in 70Fxx

Choquard, Philippe ★ Mécanique analytique. Vol. 1. (French) [Analytical mechanics. Vol. 1] **93k:70001a**
— ★ Mécanique analytique. Vol. 2. (French) [Analytical mechanics. Vol. 2] **93k:70001b**
Hall, Glen R. *see* **Meyer, Kenneth R., 93b:70002**
Meyer, Kenneth R. (*with* Hall, Glen R.) ★ Introduction to Hamiltonian dynamical systems and the N-body problem. **93b:70002**

70F05 Two-body problem

Broucke, R. A. The effects of the J_3-harmonic (pear shape) on the orbits of a satellite. (*see* **93i:70002**)
Calvo, C. *see* **Palacios, M.**
Cariñena, José F. (*with* López Lacasta, Carlos; del Olmo, Mariano A.; Santander, Mariano) Conformal geometry of the Kepler orbit space. **93d:70015**
Casasayas, Josefina *see* **Nunes, Ana; et al., 93k:70011**
Chernikov, N. A. The Kepler problem in the Lobachevsky space and its solution. (English summary)
Ferrer, Sebastián (*with* Miller, Bruce R.) Coordinates for perturbed Keplerian systems with axial symmetry. **93a:70006**
Godfrey, S. E. (*with* Prince, Geoff) A canonical reduction of order for the Kepler problem. **93b:70007**
Harin, Alexander O. *see* **Kozlov, Valerii V., 93i:70010**
Iwai, Toshihiro (*with* Uwano, Y.) The MIC-Kepler problem and its symmetry group for zero energy both in classical and quantum mechanics. **93b:70008**
Kozlov, Valerii V. (*with* Harin, Alexander O.) Kepler's problem in constant curvature spaces. (English summary) **93i:70010**

Lacomba, Ernesto A. (*with* Llibre, Jaume) Integrals, invariant manifolds, and degeneracy for central force problems in $\mathbf{R}^n$. **93d:70016**
Llibre, Jaume *see* **Lacomba, Ernesto A., 93d:70016** *and* **Nunes, Ana; et al., 93k:70011**
López Lacasta, Carlos *see* **Cariñena, José F.; et al., 93d:70015**
Mavraganis, A. G. On the existence of symmetric translational-rotational motion in the generalized two-body problem.
Miller, Bruce R. *see* **Ferrer, Sebastián, 93a:70006**
Naishul', A. B. The three-dimensional motion of a particle. (Russian. Russian summary) **93g:70008**
Nunes, Ana (*with* Casasayas, Josefina; Llibre, Jaume) A perturbation of the relativistic Kepler problem. (English summary) **93k:70011**
del Olmo, Mariano A. *see* **Cariñena, José F.; et al., 93d:70015**
Palacios, M. (*with* Calvo, C.) Quaternions and numerical orbit computation. (English summary)
Prince, Geoff *see* **Godfrey, S. E., 93b:70007**
Reginatto, Marcel Transformation of Kepler orbits to oscillator orbits and the Hamilton-Jacobi equation. (English summary) **93i:70011**
Santander, Mariano *see* **Cariñena, José F.; et al., 93d:70015**
Simó, Carles Measuring the lack of integrability of the J_2 problem for Earth's satellites. (English summary) (*see* **93i:70002**)
Uwano, Y. *see* **Iwai, Toshihiro, 93b:70008**
Weinstock, Robert Inverse-square orbits: three little-known solutions and a novel integration technique. **93d:70017**

Items with secondary classifications in 70F05

Ambrosetti, Antonio (*with* Bessi, U.) Multiple closed orbits for perturbed Keplerian problems. **93g:34062**
Arens, Richard F. Newton's observations about the field of a uniform thin spherical shell. **93g:70006**
Bates, Larry Symmetry preserving deformations of the Kepler problem. **93c:70009**
Bessi, U. *see* **Ambrosetti, Antonio, 93g:34062**
Brookes, C. J. Air drag correction for satellite orbits of low eccentricity. (English summary) **93e:70011**
Cordani, Bruno The Kepler problem half century after Fock. **93a:81061**
Cushman, Richard H. A survey of normalization techniques applied to perturbed Keplerian systems. **93b:58127**
Delhaise, Fabienne (*with* Henrard, Jacques) The problem of critical inclination combined with a resonance in mean motion in artificial satellite theory. (English summary)
Dombrowski, Peter (*with* Zitterbarth, Jürgen) On the planetary motion in the 3-dim. standard spaces M^3_κ of constant curvature $\kappa \in \mathbf{R}$. **93c:53057**
Ferrándiz Leal, José Manuel (*with* San Saturio Lapeña, María Eugenia; Pojman, Joseph R.) Increased accuracy of computations in the main satellite problem through linearization methods. (English summary) **93f:70001**
Floría Gimeno, Luis Generalized Poincaré-similar variables of an arbitrary order. (English summary) **93k:70019**
Gorringe, V. M. (*with* Leach, P. G. L.) The first integrals and their Lie algebra of the most general autonomous Hamiltonian of the form $H = T + V$ possessing a Laplace-Runge-Lenz vector. (English summary) **93m:70018**
Guillemin, Victor (*with* Sternberg, Shlomo) ★ Variations on a theme by Kepler. **93a:58071**
Henrard, Jacques *see* **Delhaise, Fabienne**
Horwitz, L. P. (*with* Schieve, W. C.) Horseshoes in a relativistic Hamiltonian system in $1 + 1$ dimensions. (English summary) **93d:70033**
— Dynamical group of the relativistic Kepler problem. (English summary) **93j:70007**
Hough, Michael E. Motion on two-dimensional manifolds in rotating coordinates. **93a:70018**
Iwai, Toshihiro The geometry of the SU(2) Kepler problem. **93e:58062**
(Kepler, Johannes) *see* **Guillemin, Victor, 93a:58071**
Krishnaprasad, P. S. *see* **Wang, Li Sheng; et al., 93i:70009**
Leach, P. G. L. *see* **Gorringe, V. M., 93m:70018**
Lewis, Andrew D. Lagrangian submanifolds and an application to the reduced Schrödinger equation in central force problems. (English summary) **93h:58057**
Maddocks, John H. *see* **Wang, Li Sheng; et al., 93i:70009**
Marmo, Giuseppe (*with* Vilasi, Gaetano) When do recursion operators generate new conservation laws? **93b:58068**
Misawa, Tetsuya Derivation of a stochastic Kepler system in $\mathbf{R}^5$ from a stochastic harmonic oscillator in $\mathbf{R}^8$. **93k:81030**
Moeckel, Richard A nonintegrable model in general relativity. (English summary) **93m:83020**
Pojman, Joseph R. *see* **Ferrándiz Leal, José Manuel; et al., 93f:70001**
Relvik, H. On Mangeron's generalized equations of analytical dynamics and some related problems. (Russian summary) **93f:70012**
San Saturio Lapeña, María Eugenia *see* **Ferrándiz Leal, José Manuel; et al., 93f:70001**
Schieve, W. C. *see* **Horwitz, L. P., 93d:70033**
Sternberg, Shlomo *see* **Guillemin, Victor, 93a:58071**
Vilasi, Gaetano *see* **Marmo, Giuseppe, 93b:58068**
Wang, Li Sheng (*with* Maddocks, John H.; Krishnaprasad, P. S.) Steady rigid-body motions in a central gravitational field. (English summary) **93i:70009**
Zitterbarth, Jürgen *see* **Dombrowski, Peter, 93c:53057**

70F07 Three-body problem

Agostinelli, Cataldo A particular case of the problem of three bodies mutually attracting by Newton's law. (Italian) **93d:70018**
Anosova, J. P. (*with* Orlov, V. V.) The types of motion in hierarchical and nonhierarchical triple systems: numerical experiments. (English summary) **93d:70019**
Bertotti, Maria Letizia Periodic solutions for the elliptic planar restricted three-body problem: a variational approach. (English summary) (*see* **93i:70002**)
Bryuno, A. D. ★ Ограниченная задача трех тел. (Russian) [The restricted three-body problem] **93g:70009**
Cabral, H. E. On a question of A. Wintner about Jacobi coordinates in the three-body problem. **93d:70020**
Celletti, Alessandra (*with* Giorgilli, Antonio) On the stability of the Lagrangian points in the spatial restricted problem of three bodies. **93a:70007**
Diacu, Florin Nicolae On the smoothness of regularization in Newtonian gravitational systems. (English summary) **93k:70012**
— A generic property of the bounded syzygy solutions. (French summary) **93a:70008**
Dvorak, R. Progress in the elliptic restricted 3-body problem: asteroids in the 2/1, 3/1 and 1/1 resonance. (English summary) **93g:70010**
Elshaboury, S. M. Three-dimensional periodic solutions around collinear equilibrium points of generalized Hill's problem. **93f:70007**
Evteev, V. P. Quasiperiodic orbits of the generating system of differential equations of the interior variant of the restricted three-body problem. (Russian. Tajiki summary)
Ferraz-Mello, S. (*with* Tsuchida, M.; Klafke, J. C.) On symmetrical planetary corotations. (English summary) **93k:70013**
Ge, Yan Chao (*with* Leng, Xiaoling) An alternative deduction of the Hill-type surfaces of the spatial 3-body problem. **93e:70003**
Giorgilli, Antonio *see* **Celletti, Alessandra, 93a:70007**
Gómez, Gerard (*with* Jorba, Àngel; Masdemont, Josep; Simó, Carles) Quasiperiodic orbits as a substitute of libration points in the solar system. (*see* **93i:70002**)
— (*with* Ollé, Merce) Second-species solutions in the circular and elliptic restricted three-body problem. I. Existence and asymptotic approximation. **93f:70008**
— (*with* Ollé, Merce) Second-species solutions in the circular and elliptic restricted three-body problem. II. Numerical explorations. **93f:70009**
Hadjidemetriou, John D. The elliptic restricted problem at the 3:1 resonance. **93b:70009**
Hagel, J. A new analytic approach to the Sitnikov problem. **93b:70010**
Jorba, Àngel *see* **Gómez, Gerard; et al., (93i:70002)**
Klafke, J. C. *see* **Ferraz-Mello, S.; et al., 93k:70013**
Leng, Xiaoling *see* **Ge, Yan Chao, 93e:70003**
Luk'yanov, L. G. Zero-velocity surfaces in the restricted three-body problem with variable masses. (Russian) **93k:70014**
Marchal, Christian ★ The three-body problem. **93k:70015**
Markellos, V. V. Remarkable termination orbits of the restricted problem. (English summary) (*see* **93i:70002**)
Masdemont, Josep *see* **Gómez, Gerard; et al., (93i:70002)**
Meyer, Kenneth R. (*with* Wang, Qiu Dong) Global phase structure of the restricted isosceles three-body problem with positive energy. **93j:70004**
Nakamura, Takashi (*with* Yoshida, Junzo) Hill stability of the planar three-body problem: general and restricted cases. (English summary) **93g:70011**
Ollé, Merce *see* **Gómez, Gerard, 93f:70008** *and* **93f:70009**
Orlov, V. V. *see* **Anosova, J. P., 93d:70019**
Roman, Rodica *see* **Todoran, I., 93g:70013**
Sakhokia, I. D. Libration points in the restricted circular three-body problem. (Russian) **93i:70012**
Sekiguchi, Masayoshi (*with* Tanikawa, Kiyotaka) Orbits asymptotic to the outermost KAM in the restricted three-body problem. (English summary) (*see* **93i:70002**)
Serra, Enrico (*with* Terracini, Susanna) Collisionless periodic solutions to some three-body problems. (English summary) **93i:70013**
Shinkin, V. N. The integrable cases of the planetary three-body problem at first-order resonance. (English summary) **93k:70016**
Simó, Carles *see* **Gómez, Gerard; et al., (93i:70002)**
Smith, R. H. (*with* Szebehely, Victor) Chaotic trajectories in the restricted problem of three bodies. (English summary) (*see* **93i:70002**)
— (*with* Szebehely, Victor) Chaotic motion and the Graziani-Black criterion. (English summary) **93g:70012**
Spirig, Franz (*with* Waldvogel, Jörg) Chaos in coorbital motion. (English summary) **93k:70017**
Szebehely, Victor *see* **Smith, R. H., 93g:70012**; **(93i:70002)** *and* **Marchal, Christian, 93k:70015**
Tanikawa, Kiyotaka *see* **Sekiguchi, Masayoshi, (93i:70002)**
Terracini, Susanna *see* **Serra, Enrico, 93i:70013**
Todoran, I. (*with* Roman, Rodica) The elliptical three-body problem. Triangular solution. (English summary) **93g:70013**
Tsuchida, M. *see* **Ferraz-Mello, S.; et al., 93k:70013**
Waldvogel, Jörg *see* **Spirig, Franz, 93k:70017**
Wang, Qiu Dong *see* **Meyer, Kenneth R., 93j:70004**
Xia, Zhihong Mel'nikov method and transversal homoclinic points in the restricted three-body problem. **93d:70021**
Yoshida, Junzo *see* **Nakamura, Takashi, 93g:70011**

Items with secondary classifications in 70F07

Ambrosetti, Antonio (*with* Ekeland, Ivar) Perturbation results for a class of singular Hamiltonian systems. (Italian summary) **93d:58129**
Bahri, Abbas (*with* Rabinowitz, Paul H.) Periodic solutions of some problems of 3-body type. **93k:58042**
Dionysiou, D. D. (*with* Zois, A. K.; Iakovidis, K. G.) Artificial satellites and the three-body problem: a general case. **93a:70027**
Ekeland, Ivar *see* **Ambrosetti, Antonio, 93d:58129**
Iakovidis, K. G. *see* **Dionysiou, D. D.; et al., 93a:70027**
Khapaev, Mikhail Mikhailovich ★ Усреднение и устойчивость. (Russian) [Averaging and stability] **93a:34044**
Rabinowitz, Paul H. *see* **Bahri, Abbas, 93k:58042**
Zois, A. K. *see* **Dionysiou, D. D.; et al., 93a:70027**

70F10 n-body problem

Aguilar, Luis A. The N-body problem in astronomy. (Spanish. English and Spanish summaries)
Bryant, John G. A new interpretation of collisions in the N-body problem. **93m:70011**

Coti Zelati, Vittorio Periodic solutions for N-body type problems. (French summary) **93a:70009**
Dereziński, Jan Asymptotic completeness in classical N-body systems. (English summary) (*see* **93e:35005**)
— Large time behavior of classical N-body systems. (English summary) **93h:70004**
Diacu, Florin Nicolae Regularization of partial collisions in the N-body problem. **93c:70007**
Lacomba, Ernesto A. *see* **Simó, Carles, 93g:70014**
Molina Legaz, R. (*with* Vigueras Campuzano, Antonio) Lie series and first integrals in generalized n-body problems. (Spanish. English summary) **93a:70010**
Pojman, Joseph R. *see* **Szebehely, Victor, (93i:70002)**
Shinkin, V. N. Three-frequency resonance in the planetary few-body problem. (Russian) **93f:70010**
Simó, Carles (*with* Lacomba, Ernesto A.) Regularization of simultaneous binary collisions in the n-body problem. **93g:70014**
Szebehely, Victor Chaos, stability and predictability in Newtonian dynamics. (English summary) **93k:70018**
— (*with* Pojman, Joseph R.) Applications of the restricted many-body problem to binary asteroids. (English summary) (*see* **93i:70002**)
Vigueras Campuzano, Antonio *see* **Molina Legaz, R., 93a:70010**
Xia, Zhihong The existence of noncollision singularities in Newtonian systems. **93h:70005**

Items with secondary classifications in 70F10

Ambrosetti, Antonio (*with* Coti Zelati, Vittorio) Closed orbits of fixed energy for a class of N-body problems. (French summary) **93e:58156a**
— (*with* Coti Zelati, Vittorio) Addendum to: "Closed orbits of fixed energy for a class of N-body problems". **93e:58156b**
Casasayas, Josefina (*with* Nunes, Ana) Chaos in a restricted charged four-body problem. (English summary) (*see* **93i:70002**)
Coti Zelati, Vittorio *see* **Ambrosetti, Antonio, 93e:58156a** *and* **93e:58156b**
Diacu, Florin Nicolae On the smoothness of regularization in Newtonian gravitational systems. (English summary) **93k:70012**
Françoise, Jean-Pierre (*with* Novikov, R. G.) Solutions rationnelles des équations de type Korteweg-de Vries en dimension $2+1$ et problèmes à m corps sur la droite. (English summary) [Rational solutions of KdV-type equations in dimension $2+1$ and m-body problems on the line] **93g:58060**
Ge, Yan Chao From Newton to chaos and modern physics. I. (English summary) **93i:58104**
Heggie, Douglas C. Chaos in the N-body problem of stellar dynamics. (*see* **93i:70002**)
Lin, F. J. (*with* Marsden, Jerrold Eldon) Symplectic reduction and topology for applications in classical molecular dynamics. **93c:58072**
Marsden, Jerrold Eldon *see* **Lin, F. J., 93c:58072**
Meyer, Kenneth R. (*with* Schmidt, Dieter S.) Librations of central configurations and braided Saturn rings. (English summary) **93m:70013**
Novikov, R. G. *see* **Françoise, Jean-Pierre, 93g:58060**
Nunes, Ana *see* **Casasayas, Josefina, (93i:70002)**
Roberts, Stephen Hierarchical n-body calculations. **93c:65168**
(Roy, Archie E.) *see* **Predictability, stability, and chaos in N-body dynamical systems, 93i:70002**
Schmidt, Dieter S. *see* **Meyer, Kenneth R., 93m:70013**

Items listed otherwise than by author

Cortina d'Ampezzo ★ Predictability, stability, and chaos in N-body dynamical systems. **93i:70002**
NATO Advanced Study Institute:
Predictability, Stability, and Chaos in N-body Dynamical Systems ★ Predictability, stability, and chaos in N-body dynamical systems. **93i:70002**
Predictability, stability, and chaos in N-body dynamical systems ★ Predictability, stability, and chaos in N-body dynamical systems. **93i:70002**

70F15 Celestial mechanics

Babadzhanyants, L. K. (*with* Chekashkin, Yu. V.) An analytic method for calculating perturbations in the coordinates of planets. (Russian. English summary) **93b:70011**
Britals, Janis Canonical theory of perturbations using eccentric anomaly as independent variable. (English summary) **93h:70006**
Celletti, Alessandra Stability of satellites in spin-orbit resonances and capture probabilities. (English summary) (*see* **93i:70002**)
— (*with* Falcolini, Corrado) Construction of invariant tori for the spin-orbit problem in the Mercury-Sun system. **93a:70011**
Chekashkin, Yu. V. *see* **Babadzhanyants, L. K., 93b:70011**
Cucu-Dumitrescu, C. *see* **Şelaru, D.; et al., 93f:70011**
Falcolini, Corrado *see* **Celletti, Alessandra, 93a:70011**
Fernández-Ferreirós Erviti, Ana *see* **Ferrándiz Leal, José Manuel, 93b:70012**
Ferrándiz Leal, José Manuel (*with* Fernández-Ferreirós Erviti, Ana) Exact linearization of nonplanar intermediary orbits in the satellite theory. **93b:70012**
— *see also* **Floría Gimeno, Luis, (93i:70002)**
Floría Gimeno, Luis (*with* Ferrándiz Leal, José Manuel) Poincaré-similar variables including J_2-secular effects. (English summary) (*see* **93i:70002**)
— Generalized Poincaré-similar variables of an arbitrary order. (English summary) **93k:70019**
Gambí, J. M. (*with* Romero, P.; San Miguel, A.; Vicente Ruiz, Francisco) Fermi coordinate transformation under baseline change in relativistic celestial mechanics. **93e:70004**
Irigoyen, Mañlis (*with* Simó, Carles) Nonintegrability of the J_2 problem. (English summary) **93k:70020**
Kirpichnikov, S. N. (*with* Kokorev, A. A.) On the first type of steady motions of two gravitating bodies, one axisymmetric and one spherically symmetric. (Russian. English summary) **93b:70013**
— On the second type of steady motions of two gravitating bodies: one axisymmetric and one spherically symmetric. (Russian. English and Russian summaries) **93m:70012**
Kokorev, A. A. *see* **Kirpichnikov, S. N., 93b:70013**
Magnus, Robert Is the solar system stable? (Danish. English summary)
Meyer, Kenneth R. (*with* Schmidt, Dieter S.) Librations of central configurations and braided Saturn rings. (English summary) **93m:70013**
Mioc, Vasile *see* **Şelaru, D.; et al., 93f:70011**
Morbidelli, Alessandro The location of secular resonances. (*see* **93i:70002**)
Romero, P. *see* **Gambí, J. M.; et al., 93e:70004**
San Miguel, A. *see* **Gambí, J. M.; et al., 93e:70004**
Schmidt, Dieter S. *see* **Meyer, Kenneth R., 93m:70013**
Schneider, Manfred ★ Himmelsmechanik. Band I. (German) [Celestial mechanics. Vol. I] **93h:70007**
Şelaru, D. (*with* Cucu-Dumitrescu, C.; Mioc, Vasile) On a two-body problem with periodically changing equivalent gravitational parameter. (English summary) **93f:70011**
Simó, Carles *see* **Irigoyen, Mañlis, 93k:70020**
Vicente Ruiz, Francisco *see* **Gambí, J. M.; et al., 93e:70004**
Zubov, V. I. A theory of physical libration of the moon. (Russian) **93b:70014**

Items with secondary classifications in 70F15

Aguilar, Luis A. The N-body problem in astronomy. (Spanish. English and Spanish summaries)
Baumann, Gerd (*with* Freyberger, M.) Generalized symmetries and integrals of motion for the Hénon-Heiles model. **93b:85001**
Bryuno, A. D. ★ Ограниченная задача трех тел. (Russian) [The restricted three-body problem] **93g:70009**
Casasayas, Josefina (*with* Fontich, E.; Nunes, Ana) Invariant manifolds for a class of parabolic points. (English summary) **93i:58052**
Celletti, Alessandra (*with* Giorgilli, Antonio) On the stability of the Lagrangian points in the spatial restricted problem of three bodies. **93a:70007**
Contopoulos, G. (*with* Papadaki, H.) Newtonian and relativistic periodic orbits around two fixed black holes. (English summary) **93m:85001**
Dombrowski, Peter Dynamics in spaces of constant curvature. (*see* **93d:53002**)
Elshaboury, S. M. Three-dimensional periodic solutions around collinear equilibrium points of generalized Hill's problem. **93f:70007**
Ferraz-Mello, S. (*with* Tsuchida, M.; Klafke, J. C.) On symmetrical planetary corotations. (English summary) **93k:70013**
Ferrer, Sebastián (*with* Miller, Bruce R.) Coordinates for perturbed Keplerian systems with axial symmetry. **93a:70006**
Font Arjó, Joaquín (*with* Simó, Carles) Are there irregular families of characteristic curves? (English summary) **93k:70024**
Fontich, E. *see* **Casasayas, Josefina; et al., 93i:58052**
Freyberger, M. *see* **Baumann, Gerd, 93b:85001**
Ghil, M. (*with* Wolansky, Gershon) Non-Hamiltonian perturbations of integrable systems and resonance trapping. **93g:34066**
Giorgilli, Antonio *see* **Celletti, Alessandra, 93a:70007** *and* **Morbidelli, Alessandro, 93i:70017**
Goudas, C. L. The N-dipole problem and the rings of Saturn. **93k:85001**
— (*with* Petsagourakis, E. G.) The three-dipole problem. (English summary) **93k:85002**
Hadjidemetriou, John D. Mapping models for Hamiltonian systems with application to resonant asteroid motion. (English summary) **93k:70026**
Heggie, Douglas C. Chaos in the N-body problem of stellar dynamics. (*see* **93i:70002**)
Hough, Michael E. Motion on two-dimensional manifolds in rotating coordinates. **93a:70018**
Kalvouridis, T. *see* **Tsitouras, Ch.; et al., 93f:70002**
Klafke, J. C. *see* **Ferraz-Mello, S.; et al., 93k:70013**
Lacomba, Ernesto A. *see* **Simó, Carles, 93g:70014**
Marchal, Christian ★ The three-body problem. **93k:70015**
Mavraganis, A. G. On the existence of symmetric translational-rotational motion in the generalized two-body problem.
Miller, Bruce R. *see* **Ferrer, Sebastián, 93a:70006**
Moeckel, Richard A nonintegrable model in general relativity. (English summary) **93m:83020**
Morbidelli, Alessandro On the successive elimination of perturbation harmonics. (English summary) **93i:70016**
— (*with* Giorgilli, Antonio) Quantitative perturbation theory by successive elimination of harmonics. (English summary) **93i:70017**
Moshchevitin, N. G. On the behavior of the integral of a conditionally periodic function. (Russian) **93i:26012**
Nunes, Ana *see* **Casasayas, Josefina; et al., 93i:58052**
Papadaki, H. *see* **Contopoulos, G., 93m:85001**
Papageorgiou, George *see* **Tsitouras, Ch.; et al., 93f:70002**
Petsagourakis, E. G. *see* **Goudas, C. L., 93k:85002**
Pojman, Joseph R. *see* **Szebehely, Victor, (93i:70002)**
(Roy, Archie E.) *see* **Predictability, stability, and chaos in N-body dynamical systems, 93i:70002**
Shinkin, V. N. Three-frequency resonance in the planetary few-body problem. (Russian) **93f:70010**
— The integrable cases of the planetary three-body problem at first-order resonance. (English summary) **93k:70016**
Silva, Roberto Artur Cornetti The influence of the Laplacian constraint over a motion like the three first Galilean satellites of Jupiter. (English and Portuguese summaries) **93g:85002**
Simó, Carles (*with* Lacomba, Ernesto A.) Regularization of simultaneous binary collisions in the n-body problem. **93g:70014**
— *see also* **Font Arjó, Joaquín, 93k:70024**
Spirig, Franz (*with* Waldvogel, Jörg) Chaos in coorbital motion. (English summary) **93k:70017**
Sussman, Gerald Jay (*with* Wisdom, Jack) Chaotic evolution of the solar system. **93c:85001**
Szebehely, Victor Chaos, stability and predictability in Newtonian dynamics. (English summary) **93k:70018**
— (*with* Pojman, Joseph R.) Applications of the restricted many-body problem to binary asteroids. (English summary) (*see* **93i:70002**)
— *see also* **Marchal, Christian, 93k:70015**

Tsitouras, Ch. (*with* Papageorgiou, George; Kalvouridis, T.) On the efficiency of Runge-Kutta-Nystrom methods with interpolants for solving equations of the form $Y'' = F(T, Y, Y')$ over short timespans. (English summary) **93f:70002**
Tsuchida, M. *see* **Ferraz-Mello, S.; et al., 93k:70013**
Vidyakin, V. V. Sufficient conditions for stability of the regular motion of two perfectly rigid bodies. (Russian) **93f:70006**
Waldvogel, Jörg *see* **Spirig, Franz, 93k:70017**
Wisdom, Jack *see* **Sussman, Gerald Jay, 93c:85001**
Wolansky, Gershon *see* **Ghil, M., 93g:34066**
Xia, Zhihong The existence of noncollision singularities in Newtonian systems. **93h:70005**

Items listed otherwise than by author

Cortina d'Ampezzo ★ Predictability, stability, and chaos in N-body dynamical systems. **93i:70002**
NATO Advanced Study Institute:
Predictability, Stability, and Chaos in N-body Dynamical Systems ★ Predictability, stability, and chaos in N-body dynamical systems. **93i:70002**
Predictability, stability, and chaos in N-body dynamical systems ★ Predictability, stability, and chaos in N-body dynamical systems. **93i:70002**

70F20 Holonomic systems

Kharlamov, P. V. A critique of some mathematical models of mechanical systems with differential constraints. (Russian) **93m:70014**
Klepp, Horst J. Stopping check for systems with friction-affected constraints. (English, German and Russian summaries) **93j:70005**
Kozlov, Valerii V. On the realization of constraints in dynamics. (Russian. Russian summary) **93m:70015**
Relvik, H. On Mangeron's generalized equations of analytical dynamics and some related problems. (Russian summary) **93f:70012**

Items with secondary classifications in 70F20

Ahmed, Naseer Equivalent Hamiltonian forms of the Neilsen and Cenov equations of motion. **93a:70014**
Borri, M. (*with* Bottasso, C.; Mantegazza, P.) A modified phase space formulation for constrained mechanical systems—differential approach. (English summary) **93f:70004**
Bottasso, C. *see* **Borri, M.; et al., 93f:70004**
Bressan, Aldo Hyper-impulsive motions and controllizable coordinates for Lagrangian systems. (Italian summary) **93m:70021**
Cantarelli, Giancarlo (*with* Risito, Corrado) Criteria of global existence and boundedness for scleronomic holonomic systems. (Italian. English summary) **93m:34022**
— Stabilization of the equilibrium of holonomic systems by means of time-dependent dissipative forces. (Italian. English summary) **93f:70024**
Chiou, J. C. *see* **Park, K.-C., 93m:70001**
Chobanov, Georgi Iv. (*with* Chobanov, Ivan) Fundamental identities of Lagrangean formalism for holonomic mass-point and rigid body systems. (English and Bulgarian summaries) **93m:70022**
Chobanov, Ivan *see* **Chobanov, Georgi Iv., 93m:70022**
Emel'yanova, I. S. ★ Проблема "симметрия-интегралы движения" в аналитической динамике. (Russian. English and Russian summaries) [The "symmetry-integrals of motion" problem in analytical dynamics] **93k:70030**
de León, Manuel (*with* Rodrigues, Paulo R.) Higher-order mechanical systems with constraints. **93d:58056**
Mantegazza, P. *see* **Borri, M.; et al., 93f:70004**
Martynyuk, A. A. *see* **Vujičić, Veljko A., 93g:70025**
Mei, Feng Xiang A field method for integrating the equations of motion of nonholonomic controllable systems. (Chinese. English summary) **93c:70008**
Mukharlyamov, R. G. Mechanical systems with program constraints. (Russian) **93f:70018**
Park, K.-C. (*with* Chiou, J. C.) A discrete momentum-conserving explicit algorithm for rigid body dynamics analysis. (English summary) **93m:70001**
Peiffer, Karl A remark on the stability of steady state motions. **93d:70037**
Risito, Corrado *see* **Cantarelli, Giancarlo, 93m:34022**
Rodrigues, Paulo R. *see* **de León, Manuel, 93d:58056**
Salvadori, L. (*with* Visentin, F.) On conditional total stability in holonomic mechanical systems. (Italian. English and Italian summaries) **93j:34079**
Sosnitskiĭ, S. P. On the stability of the equilibrium of holonomic systems. (Russian. Russian summary) **93i:70021**
— Poisson stability of reversible systems. (Russian. Russian summary) **93m:34071**
Visentin, F. *see* **Salvadori, L., 93j:34079**
Vujičić, Veljko A. (*with* Martynyuk, A. A.) Practical stability of holonomic systems. (Russian. English and Russian summaries) **93g:70025**
— Practical stability of equilibrium and motion of mechanical systems. (Russian. English and Ukrainian summaries) **93k:70034**

70F25 Nonholonomic systems

Gao, Pu Yun (*with* Guo, Zhong Heng) Lagrange equation of another class of nonholonomic systems. (Chinese. English summary) **93d:70022**
Guo, Zhong Heng *see* **Gao, Pu Yun, 93d:70022**
Koiller, Jair Reduction of some classical nonholonomic systems with symmetry. **93e:70005**
Luo, Shao Kai (*with* Zhang, Kong Hui) The generalized Tsenov method for variable mass arbitrary order nonlinear nonholonomic systems in noninertial reference frames. (Chinese. English and Chinese summaries) **93m:70016**
Mei, Feng Xiang First integral and integral-invariant for nonholonomic systems. **93e:70006**
— A field method for integrating the equations of motion of nonholonomic controllable systems. (Chinese. English summary) **93c:70008**
Tatarinov, Ya. V. Consequences of nonintegrable perturbation of integrable constraints: nonlinear effects of motion near an equilibrium manifold. (Russian. Russian summary) **93k:70021**
Zhang, Kong Hui *see* **Luo, Shao Kai, 93m:70016**

Items with secondary classifications in 70F25

d'Andréa-Novel, B. *see* **Campion, Guy; et al., 93f:70030**
Bastin, G. *see* **Campion, Guy; et al., 93f:70030**
Borri, M. (*with* Bottasso, C.; Mantegazza, P.) A modified phase space formulation for constrained mechanical systems—differential approach. (English summary) **93f:70004**
Bottasso, C. *see* **Borri, M.; et al., 93f:70004**
Butenin, N. V. (*with* Fufaev, N. A.) ★ Введение в аналитическую механику. (Russian. English and Russian summaries) [Introduction to analytical mechanics] **93i:70001**
Campion, Guy (*with* d'Andréa-Novel, B.; Bastin, G.) Controllability and state feedback stabilizability of nonholonomic mechanical systems. (English summary) **93f:70030**
Coron, Jean-Michel Global asymptotic stabilization for controllable systems without drift. **93m:93084**
Fufaev, N. A. *see* **Butenin, N. V., 93i:70001**
Giachetta, Giovanni Jet methods in nonholonomic mechanics. **93c:58070**
Kharlamova, E. I. Integrable cases of the problem of the motion of a gyrostat subject to a nonholonomic constraint. (Russian) **93a:70005**
de León, Manuel (*with* Rodrigues, Paulo R.) Higher-order mechanical systems with constraints. **93d:58056**
Lesser, Martin A geometrical interpretation of Kane's equations. (English summary) **93f:70005**
Luo, Shao Kai (*with* Mei, Feng Xiang) The principles of least action of variable mass nonholonomic nonconservative system in noninertial reference frames. (Chinese. English and Chinese summaries) **93j:70006**
Mantegazza, P. *see* **Borri, M.; et al., 93f:70004**
Mei, Feng Xiang *see* **Luo, Shao Kai, 93j:70006**
Mukharlyamov, R. G. Mechanical systems with program constraints. (Russian) **93f:70018**
Mukherjee, Ranjan *see* **Nakamura, Yoshihiko, 93f:70034**
Nakamura, Yoshihiko (*with* Mukherjee, Ranjan) Nonlinear control for the nonholonomic motion of space robot systems. (English summary) **93f:70034**
Rodrigues, Paulo R. *see* **de León, Manuel, 93d:58056**
Samson, Claude Velocity and torque feedback control of a nonholonomic cart. (English summary) **93g:70032**
Sosnitskiĭ, S. P. Poisson stability of reversible systems. (Russian. Russian summary) **93m:34071**

70F30 Impulsive motion

Dovletov, A. M. *see* **Dovletov, M.**
Dovletov, M. (*with* Dovletov, A. M.) A method for integrating equations of the dynamics of a variable mass with impulse coupling factors. (Russian)

Items with secondary classifications in 70F30

Souchet, René Analytical dynamics of rigid body impulsive motions. (English summary) **93i:70006**

70F35 Collisions

Items with secondary classifications in 70F35

Bryant, John G. A new interpretation of collisions in the N-body problem. **93m:70011**
Diacu, Florin Nicolae Regularization of partial collisions in the N-body problem. **93c:70007**
— On the smoothness of regularization in Newtonian gravitational systems. (English summary) **93k:70012**
Ivanov, A. P. Energetics of an impact with friction. (Russian. Russian summary) **93h:70003**
Jean, Michel Dynamics of rigid bodies with dry friction and partially elastic collisions. **93c:70006**
Kozlov, Valerii V. (*with* Treshchëv, D. V.) ★ Billiards. **93k:58094a**
Lacomba, Ernesto A. *see* **Simó, Carles, 93g:70014**
(Schulenberger, J. R.) *see* **Kozlov, Valerii V., 93k:58094a**
Simó, Carles (*with* Lacomba, Ernesto A.) Regularization of simultaneous binary collisions in the n-body problem. **93g:70014**
Souchet, René Analytical dynamics of rigid body impulsive motions. (English summary) **93i:70006**
Stoimenov, L. G. On the solution of a problem on the oblique impact of bodies. Models of the impact of rough bodies. (Russian. English, Russian and Ukrainian summaries) **93k:73025**
Treshchëv, D. V. *see* **Kozlov, Valerii V., 93k:58094a**
Xia, Zhihong The existence of noncollision singularities in Newtonian systems. **93h:70005**

70F99 None of the above, but in this section

Arczewski, Krzysztof Graph theoretical approach. I. Determination of kinetic energy for a class of particle systems. **93d:70023a**
— Graph theoretical approach. II. Determination of generalized forces for a class of systems consisting of particles and springs. **93d:70023b**
— Graph theoretical approach. III. Equations of motion of a class of constrained particle systems. **93d:70023c**
Benati, M. (*with* Morro, Angelo) Equations for multibody dynamics. **93a:70012**
Ivanov, A. P. Shockless motions in systems with unilateral constraints. (Russian) **93d:70024**
Kalaba, Robert (*with* Udwadia, Firdaus E.) On constrained motion. **93i:70014**
Klepp, Horst J. Parameters of the periodic response of a system with friction-affected constraints and harmonic excitation. (German summary) **93a:70013**
Morro, Angelo *see* **Benati, M., 93a:70012**
Puel, François Explicit solutions of the three-dimensional inverse problem of dynamics, using the Frenet reference frame. **93d:70025**
Udwadia, Firdaus E. *see* **Kalaba, Robert, 93i:70014**
Zubarev, S. V. Sliding modes in mechanical systems. (Russian) **93d:70026**

Items with secondary classifications in 70F99

Abdrakhmanov, A. M. On the stability of two-link periodic trajectories of a billiard on two-dimensional surfaces of constant curvature. (Russian) **93k:58186**
Antonyuk, E. Ya. (*with* Larin, V. B.; Pedchenko, A. M.) An algorithm for the choice of generalized coordinates. (Russian) **93b:70015**
Bloch, Anthony M. (*with* Kodama, Yuji) Dispersive regularization of the Whitham equation for the Toda lattice. **93g:35123**
Bolgrabskaya, I. A. *see* **Savchenko, A. Ya.; et al., 93d:70011**
Gaida, R. P. (*with* Tretyak, V. I.; Yaremko, Yu. G.) Center of mass variables in the relativistic Lagrangian mechanics of a system of particles. (Ukrainian. English, Russian and Ukrainian summaries) **93d:70032**
Gal'perin, G. A. Asymptotic behavior of a particle in a Lorentz gas. (Russian) **93e:82033**
Gaspard, Pierre (*with* Ramirez, D. Alonso) Ruelle classical resonances and dynamical chaos: the three- and four-disk scatterers. **93d:58125**
Güler, Y. Integration of singular systems. (English summary) **93k:70025**
Guo, Zhong Heng (*with* Wang, Shu Xun) Dynamics of unilateral systems on a finite-dimensional Riemannian manifold. **93e:58061**
Haug, Edward J. *see* **Yen, Jeng; et al., 93a:65110**
Junkins, John L. *see* **Lee, Sangchul, 93h:70012**
Karapetyan, A. V. Qualitative investigation of the dynamics of a top on a plane with friction. (Russian) **93b:70005**
Kodama, Yuji *see* **Bloch, Anthony M., 93g:35123**
Kononykhin, G. A. *see* **Savchenko, A. Ya.; et al., 93d:70011**
Laederich, Stephane (*with* Levi, Mark L.) Qualitative dynamics of planar chains. **93a:58102**
Larin, V. B. *see* **Antonyuk, E. Ya.; et al., 93b:70015**
Lee, Sangchul (*with* Junkins, John L.) Explicit generalization of Lagrange's equations for hybrid coordinate dynamical systems. (English summary) **93h:70012**
Levi, Mark L. *see* **Laederich, Stephane, 93a:58102**
Li, Zi Ping Gauge generators in Dirac's theory of constrained systems. (Chinese. English and Chinese summaries) **93i:70015**
Marle, Charles-Michel Géométrie des systèmes mécaniques à liaisons actives. [Geometry of mechanical systems with active constraints] **93d:58058**
Men'shikov, Yu. L. On an inverse problem in astrodynamics. (Russian. Russian summary) **93m:85007**
Pedchenko, A. M. *see* **Antonyuk, E. Ya.; et al., 93b:70015**
Peterka, F. (*with* Vacík, J.) Transition to chaotic motion in mechanical systems with impacts. **93b:70023**
Pfaffelmoser, K. Global classical solutions of the Vlasov-Poisson system in three dimensions for general initial data. **93d:35170**
Ramirez, D. Alonso *see* **Gaspard, Pierre, 93d:58125**
Rapoport, L. B. Stability of equilibrium of systems with unilateral constraints, and the sign-definiteness of a pencil of quadratic forms in a cone. (Russian. Russian summary) **93g:70024**
Savchenko, A. Ya. (*with* Bolgrabskaya, I. A.; Kononykhin, G. A.) ★ Устойчивость движения систем связанных твердых тел. (Russian) [Stability of motion of systems of coupled rigid bodies] **93d:70011**
Sławianowska, Anna K. Nonlinear integrable models of one-dimensional lattices with internal degrees of freedom. (Russian and Polish summaries) **93c:58093**
Tak, T. O. *see* **Yen, Jeng; et al., 93a:65110**
Tretyak, V. I. *see* **Gaida, R. P.; et al., 93d:70032**
Truc, Françoise Application d'une méthode variationnelle à l'équation des coques et aux systèmes gyroscopiques. (English and French summaries) [Application of a variational method to a shell equation and to gyroscopic systems] **93i:34028**
Vacík, J. *see* **Peterka, F., 93b:70023**
Wang, Shu Xun *see* **Guo, Zhong Heng, 93e:58061**
Yaremko, Yu. G. *see* **Gaida, R. P.; et al., 93d:70032**
Yen, Jeng (*with* Haug, Edward J.; Tak, T. O.) Numerical methods for constrained equations of motion in mechanical system dynamics. **93a:65110**

70Gxx General representations of dynamical systems [see also 58Fxx]

70G05 Riemannian geometry, tensorial methods [see also 53A45, 53A50, 53B20]

Items with secondary classifications in 70G05

Adams, B. L. (*with* Boehler, J.-P.; Guidi, M.; Onat, E. T.) Group theory and representation of microstructure and mechanical behavior of polycrystals. **93b:73002**
Arshansky, R. I. *see* **Zerzion, Daniel; et al., 93b:70020**
Boehler, J.-P. *see* **Adams, B. L.; et al., 93b:73002**
Dombrowski, Peter (*with* Zitterbarth, Jürgen) On the planetary motion in the 3-dim. standard spaces M^3_κ of constant curvature $\kappa \in \mathbf{R}$. **93c:53057**
Guidi, M. *see* **Adams, B. L.; et al., 93b:73002**
Horwitz, L. P. *see* **Zerzion, Daniel; et al., 93b:70020**
Onat, E. T. *see* **Adams, B. L.; et al., 93b:73002**
Zerzion, Daniel (*with* Horwitz, L. P.; Arshansky, R. I.) Classical mechanics of special relativity in a Riemannian space-time. **93b:70020**
Zitterbarth, Jürgen *see* **Dombrowski, Peter, 93c:53057**

70G10 Generalized coordinates

Antonyuk, E. Ya. (*with* Larin, V. B.; Pedchenko, A. M.) An algorithm for the choice of generalized coordinates. (Russian) **93b:70015**
Larin, V. B. *see* **Antonyuk, E. Ya.; et al., 93b:70015**
Pedchenko, A. M. *see* **Antonyuk, E. Ya.; et al., 93b:70015**

Items with secondary classifications in 70G10

Butenin, N. V. (*with* Fufaev, N. A.) ★ Введение в аналитическую механику. (Russian. English and Russian summaries) [Introduction to analytical mechanics] **93i:70001**
Fufaev, N. A. *see* **Butenin, N. V., 93i:70001**

70G25 Configuration space

Items with secondary classifications in 70G25

Cariñena, José F. (*with* Rañada, Manuel F.) Hamiltonian formalism and time transformations in the extended phase space $T^*(Q \times \mathbf{R})$. **93f:58071**
Rañada, Manuel F. *see* **Cariñena, José F., 93f:58071**

70G30 State space

Items with secondary classifications in 70G30

Montgomery, R. Heisenberg and isoholonomic inequalities. **93g:81058**

70G35 Phase space

Items with secondary classifications in 70G35

Loll, R. Canonical and BRST-quantization of constrained systems. (English summary) **93m:81149**
Lusanna, Luca An enlarged phase space for finite-dimensional constrained systems, unifying their Lagrangian, phase- and velocity-space descriptions. **93h:58058**

70G50 Classical field theories (general)

Chen, Xian Zhen A unified N-dimensional field equation and its application. (Chinese. English summary) **93b:70016**
Gal'tsov, D. V. (*with* Grats, Yu. V.; Zhukovskiĭ, V. Ch.) ★ Классические поля. (Russian) [Classical fields] **93g:70015**
Gould, Laurence I. Nonlocal generalized angular-momentum balance laws and equations of motion. (English summary) **93h:70008**
Grats, Yu. V. *see* **Gal'tsov, D. V.; et al., 93g:70015**
Zhukovskiĭ, V. Ch. *see* **Gal'tsov, D. V.; et al., 93g:70015**

Items with secondary classifications in 70G50

do Amaral, R. L. P. G. (*with* Marino, E. C.) Canonical quantization of theories containing fractional powers of the d'Alembertian operator. (English summary) **93i:81125**
Asanov, G. S. Gauge-covariant stationary curves on Finslerian and jet fibrations and gauge extension of Lorentz force. **93c:53011**
Bender, Carl M. New approach to the solution of nonlinear problems. (English summary) **93m:81037**
Gaida, R. P. (*with* Tretyak, V. I.; Yaremko, Yu. G.) Center of mass variables in the relativistic Lagrangian mechanics of a system of particles. (Ukrainian. English, Russian and Ukrainian summaries) **93d:70032**
Henneaux, Marc On the use of auxiliary fields in classical mechanics and in field theory. (English summary) **93i:58039**
Kadeisvili, J. V. ★ Santilli's isotopies of contemporary algebras, geometries and relativities. **93f:58077**
Kadianakis, N. Affine connections and frames of reference in classical mechanics. **93f:70013**
Kashiwa, Tarō (*with* Seto, K.; Takahashi, Yasushi) Some results in Galilei-invariant field theories. (English summary) **93e:81143**
Kyuldjiev, Assen V. On the "gauge inequivalence" and symmetry breaking in constrained systems. (English summary) **93h:58056**
Li, Zi Ping Generalized Noether theorems in canonical formalism for field theories and their applications. (English summary) **93j:58038**
Lunev, F. A. Field theory models that admit alternative Lagrangian formulations. I. (Russian. English summary) **93f:58053**
— Field theory models that admit alternative Lagrangian formulations. II. (Russian. English summary) **93f:58054**
Marino, E. C. *see* **do Amaral, R. L. P. G., 93i:81125**
Santilli, Ruggero Maria Isotopic liftings of contemporary mathematical structures. **93d:17039a**
— Isotopies of contemporary mathematical structures. I. Isotopies of fields, vector spaces, transformation theory, Lie algebras, analytic mechanics and space-time symmetries. **93d:17039b**
— *see also* **Kadeisvili, J. V., 93f:58077**
Sardanashvili, G. A. (*with* Zakharov, O. A.) The multimomentum Hamiltonian formalism in gauge theory. (English summary) **93f:58008**
Saunders, D. J. The regularity of variational problems. (English summary) **93k:58072**
Schäfer, Gerhard Reduction of higher derivative Lagrangians. (German summary) **93d:58043**
Seto, K. *see* **Kashiwa, Tarō; et al., 93e:81143**
Takahashi, Yasushi *see* **Kashiwa, Tarō; et al., 93e:81143**
Tretyak, V. I. *see* **Gaida, R. P.; et al., 93d:70032**
Yaremko, Yu. G. *see* **Gaida, R. P.; et al., 93d:70032**
Zakharov, O. A. Hamiltonian formalism for nonregular Lagrangian theories in fibered manifolds. **93c:58076**
— *see also* **Sardanashvili, G. A., 93f:58008**

70G99 None of the above, but in this section

Breedveld, P. C. *see* **Maschke, B. M.; et al., 93k:70022**
Kadianakis, N. Affine connections and frames of reference in classical mechanics. **93f:70013**

López, M. C. (*with* Noriega, R. J.; Schifini, C. G.) Equivalence and *s*-equivalence of vector-tensor Lagrangians. **93e:70007**
Maschke, B. M. (*with* van der Schaft, A. J.; Breedveld, P. C.) An intrinsic Hamiltonian formulation of network dynamics: nonstandard Poisson structures and gyrators. (English summary) **93k:70022**
Noriega, R. J. *see* **López, M. C.; et al., 93e:70007**
Qi, Zhi Dirac's conjecture about constraints. **93d:70027**
van der Schaft, A. J. *see* **Maschke, B. M.; et al., 93k:70022**
Schifini, C. G. *see* **López, M. C.; et al., 93e:70007**

Items with secondary classifications in 70G99

Anastasiei, Mihai (*with* Kawaguchi, Hiroaki) Geometry of multiparametrized Lagrangians. **93m:58038**
Arczewski, Krzysztof Graph theoretical approach. I. Determination of kinetic energy for a class of particle systems. **93d:70023a**
— Graph theoretical approach. II. Determination of generalized forces for a class of systems consisting of particles and springs. **93d:70023b**
— Graph theoretical approach. III. Equations of motion of a class of constrained particle systems. **93d:70023c**
Arigazin, A. K. (*with* Jannussis, A.; Lopez, D. F.; Nishioka, M.; Veljanoski, B.) ★ Santilli's Lie-isotopic generalization of Galilei's and Einstein's relativities. **93j:17056**
Auiestia, Luis *see* **Hojman, Sergio A.; et al., 93e:49052**
Blázquez, C. M. (*with* Llosa, J.) Classical spin particles: a kinematical approach. (English summary) **93i:58049**
Corichi, Alejandro Comment on: "Hamiltonian formulation of a theory with constraints" [J. Math. Phys. **33** (1992), no. 2, 633–638; MR 92m:81116] by U. Kulshreshta. (English summary) **93j:81049**
Dagach, Luis A. *see* **Dagach, Sergio L., 93m:83068**
Dagach, Sergio L. (*with* Dagach, Luis A.) The foundation of a theory of moving bodies in a locally nonrelativistic Riemannian space. (English summary) **93m:83068**
Fecko, Marián On geometrical formulation of the Nambu dynamics. **93a:58057**
— On a variational principle for the Nambu dynamics. **93a:58058**
Ferrario, Carlo (*with* Passerini, Arianna) Compatibility conditions for gauge transformations. **93e:58044**
Garbaczewski, Piotr Nelson's stochastic mechanics as the problem of random flights and rotations. **93b:81034**
Goldberg, Joshua N. (*with* Newman, Ezra T.; Rovelli, Carlo) On Hamiltonian systems with first-class constraints. **93d:70028**
Gozzi, E. (*with* Reuter, M.; Thacker, W. D.) Symmetries of the classical path integral on a generalized phase-space manifold. **93e:81063**
— (*with* Reuter, M.; Thacker, W. D.) Erratum: "Symmetries of the classical path integral on a generalized phase-space manifold" [Phys. Rev. D (3) **46** (1992), no. 2, 757–765; MR 93e:81063]. **Gràcia, X.** (*with* Pons, J. M.; Román-Roy, N.) Higher-order Lagrangian systems: geometric structures, dynamics, and constraints. **93a:58061**
— (*with* Pons, J. M.; Román-Roy, N.) Higher-order conditions for singular Lagrangian dynamics. **93d:58052**
Grigore, D. R. On manifest covariance condition in the Lagrangian formalism. (English summary) **93d:58053**
— Generalized Lagrangian dynamics and Noetherian symmetries. (English summary) **93j:58048**
Hojman, Sergio A. (*with* Pardo, Francisco; Aulestia, Luis; de Lisa, Francisco) Lagrangians for differential equations of any order. **93e:49052**
— A new conservation law constructed without using either Lagrangians or Hamiltonians. **93d:70031**
Iwai, Toshihiro A representation of the Guichardet connection in the Aharonov-Anandan connection. **93i:58064**
Jannussis, A. *see* **Arigazin, A. K.; et al., 93j:17056**
Jones, Kingsley R. W. Classical mechanics as an example of generalized quantum mechanics. **93e:81010**
Kawaguchi, Hiroaki *see* **Anastasiei, Mihai, 93m:58038**
Kikuchi, Shigetaka *see* **Miron, Radu, 93c:53014**
Koiller, Jair Reduction of some classical nonholonomic systems with symmetry. **93e:70005**
(Kulshreshta, Usha) *see* **Corichi, Alejandro, 93j:81049**
de León, Manuel (*with* Rodrigues, Paulo R.) Higher-order mechanical systems with constraints. **93d:58056**
Li, Zi Ping Gauge symmetries and their generators. (Chinese. English summary) **93a:58063**
— Gauge generators in Dirac's theory of constrained systems. (Chinese. English and Chinese summaries) **93i:70015**
de Lisa, Francisco *see* **Hojman, Sergio A.; et al., 93e:49052**
Llosa, J. *see* **Blázquez, C. M., 93i:58049**
Lõhmus, Jaak (*with* Paal, Eugen; Sorgsepp, Leo) Moufang symmetries and conservation laws. (English, Russian and Estonian summaries) **93k:58238**
Lopez, D. F. *see* **Arigazin, A. K.; et al., 93j:17056**
Marchetti, Federico Constrained systems. (English summary) (*see* **93g:81002**)
Miron, Radu (*with* Kikuchi, Shigetaka) Legendre transformations of the generalized Lagrange space. **93c:53014**
Mittag, Laurence (*with* Stephen, Michael J.) Conformal transformations and the application of complex variables in mechanics and quantum mechanics. **93c:81032**
Monterde, J. (*with* Muñoz Masqué, J.) Variational problems on graded manifolds. (English summary) **93i:58024**
Muñoz Masqué, J. *see* **Monterde, J., 93i:58024**
Newman, Ezra T. *see* **Goldberg, Joshua N.; et al., 93d:70028**
Nirov, Kh. S. (*with* Pyatov, P. N.; Razumov, A. V.) Gauge invariance and constraints: open gauge algebras. (English summary) **93k:58099**
Nishioka, M. *see* **Arigazin, A. K.; et al., 93j:17056**
Paal, Eugen *see* **Lõhmus, Jaak; et al., 93k:58238**
Pardo, Francisco *see* **Hojman, Sergio A.; et al., 93e:49052**
Passerini, Arianna *see* **Ferrario, Carlo, 93e:58044**
Pons, J. M. *see* **Gràcia, X.; et al., 93a:58061** *and* **93d:58052**
Pyatov, P. N. *see* **Nirov, Kh. S.; et al., 93k:58099**
Razumov, A. V. *see* **Nirov, Kh. S.; et al., 93k:58099**
Reuter, M. *see* **Gozzi, E.; et al., 93e:81063**
Rietdijk, R. H. Classical and quantum mechanics of a spinning particle interacting with anti-symmetric nonabelian tensor fields. **93b:81277**
Rodrigues, Paulo R. *see* **de León, Manuel, 93d:58056**
Román-Roy, N. *see* **Gràcia, X.; et al., 93a:58061** *and* **93d:58052**
Rovelli, Carlo *see* **Goldberg, Joshua N.; et al., 93d:70028**
Santilli, Ruggero Maria Isotopic liftings of Galilei's relativity for classical interior dynamical systems. **93i:70018**
Savchin, V. M. ★ Математические методы механики бесконечномерных непотенциальных систем. (Russian. Russian summary) [Mathematical methods in the mechanics of infinite-dimensional nonpotential systems] **93j:58054**
Sorgsepp, Leo *see* **Lõhmus, Jaak; et al., 93k:58238**
Souriau, Jean-Marie Des particules aux ondes: quantification géométrique. [From particles to waves: geometric quantization] **93k:58106**
Stephen, Michael J. *see* **Mittag, Laurence, 93c:81032**
Thacker, W. D. *see* **Gozzi, E.; et al., 93e:81063**
Veljanoski, B. *see* **Arigazin, A. K.; et al., 93j:17056**

70Hxx Hamiltonian and Lagrangian mechanics [see also 58F05]

Items with secondary classifications in 70Hxx

Arnol'd, V. I. ★ Математические методы классической механики. (Russian) [Mathematical methods of classical mechanics] **93c:70001**
Butenin, N. V. (*with* Fufaev, N. A.) ★ Введение в аналитическую механику. (Russian. English and Russian summaries) [Introduction to analytical mechanics] **93i:70001**
Choquard, Philippe ★ Mécanique analytique. Vol. 1. (French) [Analytical mechanics. Vol. 1] **93k:70001a**
— ★ Mécanique analytique. Vol. 2. (French) [Analytical mechanics. Vol. 2] **93k:70001b**
Fufaev, N. A. *see* **Butenin, N. V., 93i:70001**
de León, Manuel (*with* Rodrigues, Paulo R.) Higher-order mechanical systems with constraints. **93d:58056**
Marchal, Christian ★ The three-body problem. **93k:70015**
Rodrigues, Paulo R. *see* **de León, Manuel, 93d:58056**
Schneider, Manfred ★ Himmelsmechanik. Band I. (German) [Celestial mechanics. Vol. I] **93h:70007**
(Szebehely, Victor) *see* **Marchal, Christian, 93k:70015**

70H05 Hamilton's equations

Ahmed, Naseer Equivalent Hamiltonian forms of the Neilsen and Cenov equations of motion. **93a:70014**
Almeida, M. A. (*with* Moreira, I. C.; Yoshida, Haruo) On the nonintegrability of the Störmer problem. **93b:70017**
— *see also* **Moreira, I. C., 93b:70010**
Atela, Pau *see* **McLachlan, Robert I., 93d:70030**
Barbanis, B. A multi-spiral set of solutions of a 3-D Hamiltonian system. (English summary) **93h:70009**
Bates, Larry Symmetry preserving deformations of the Kepler problem. **93c:70009**
Bolsinov, A. V. (*with* Fedorov, Yu. N.) Multidimensional integrable generalizations of Steklov-Lyapunov systems. (Russian) **93k:70023**
Bozis, George Two-dimensional integrable potentials with quartic invariants. **93e:70008**
Bruhn, B. *see* **Koch, B. P., 93d:70029**
Casas, F. (*with* Oteo, J. A.; Ros, J.) Variation of the action in the classical time-dependent harmonic oscillator: an exact result. (English summary) **93m:70017**
Dixon, J. M. *see* **Nip, M. L. A.; et al., 93b:70011**
Dong, Guang Mao (*with* Liu, Zeng Rong; Xu, Zheng Fan) Stochasticity near resonances in a kind of near-integrable Hamiltonian systems based on Smale horseshoes. (Chinese. English summary) **93a:70015**
Dragt, Alex J. *see* **Healy, Liam M.; et al., 93b:70018**
Fedorov, Yu. N. *see* **Bolsinov, A. V., 93k:70023**
Font Arjó, Joaquín (*with* Simó, Carles) Are there irregular families of characteristic curves? (English summary) **93k:70024**
Giorgilli, Antonio *see* **Morbidelli, Alessandro, 93i:70017**
Gjaja, Ivan M. *see* **Healy, Liam M.; et al., 93b:70018**
Goldberg, Joshua N. (*with* Newman, Ezra T.; Rovelli, Carlo) On Hamiltonian systems with first-class constraints. **93d:70028**
Gorringe, V. M. (*with* Leach, P. G. L.) The first integrals and their Lie algebra of the most general autonomous Hamiltonian of the form $H = T + V$ possessing a Laplace-Runge-Lenz vector. (English summary) **93m:70018**
Güler, Y. Integration of singular systems. (English summary) **93k:70025**
Hadjidemetriou, John D. Mapping models for Hamiltonian systems with application to resonant asteroid motion. (English summary) **93k:70026**
Healy, Liam M. (*with* Dragt, Alex J.; Gjaja, Ivan M.) Computation of error effects in nonlinear Hamiltonian systems using Lie algebraic methods. **93b:70018**
Helander, P. (*with* Lisak, M.; Semenov, V. E.) Generalized adiabatic invariants in one-dimensional Hamiltonian systems. **93a:70016**
Holmes, Philip J. A degenerate Hamiltonian system and a slow flow with jumps. **93a:70017**
Hough, Michael E. Motion on two-dimensional manifolds in rotating coordinates. **93a:70018**
Karapetyan, A. V. Phase portraits of dissipative systems with symmetry. (Russian) **93g:70016**
Katayama, Noriaki On an extension of Perelomov transformation. **93c:70010**
Khorozov, E. I. On the isoenergetical nondegeneracy of the spherical pendulum. (English summary) **93k:70027**
Koch, B. P. (*with* Bruhn, B.) Chaotic scattering in a near-integrable system. **93d:70029**

Lakshmanan, M. (*with* Senthil Velan, M.) Direct integration of generalized Lie symmetries of nonlinear Hamiltonian systems with two degrees of freedom: integrability and separability. **93c:70011**
Leach, P. G. L. *see* **Gorringe, V. M., 93m:70018**
Li, Zi Ping The Poincaré-Cartan invariant for a constrained Hamiltonian system. (Chinese. English summary) **93a:70019**
— Gauge generators in Dirac's theory of constrained systems. (Chinese. English and Chinese summaries) **93i:70015**
Lisak, M. *see* **Helander, P.; et al., 93a:70016**
Liu, Zeng Rong *see* **Dong, Guang Mao; et al., 93a:70015**
McLachlan, Robert I. (*with* Atela, Pau) The accuracy of symplectic integrators. **93d:70030**
Minahan, Joseph A. (*with* Polychronakos, Alexios P.) Integrable systems for particle with internal degrees of freedom. (English summary) **93m:70019**
Morbidelli, Alessandro On the successive elimination of perturbation harmonics. (English summary) **93i:70016**
— (*with* Giorgilli, Antonio) Quantitative perturbation theory by successive elimination of harmonics. (English summary) **93i:70017**
Moreira, I. C. (*with* Almeida, M. A.) Noether symmetries and the swinging Atwood machine. (English summary) **93h:70010**
— *see also* **Almeida, M. A.; et al., 93b:70017**
Newman, Ezra T. *see* **Goldberg, Joshua N.; et al., 93d:70028**
Nip, M. L. A. (*with* Tuszyński, J. A.; Otwinowski, M.; Dixon, J. M.) Search for regular orbits in the x^2y^2 potential problem. (English summary) **93h:70011**
Oteo, J. A. (*with* Ros, J.) The Magnus expansion for classical Hamiltonian systems. **93f:70014**
— *see also* **Casas, F.; et al., 93m:70017**
Otwinowski, M. *see* **Nip, M. L. A.; et al., 93h:70011**
Polychronakos, Alexios P. *see* **Minahan, Joseph A., 93m:70019**
Ros, J. *see* **Oteo, J. A., 93f:70014** *and* **Casas, F.; et al., 93m:70017**
Rovelli, Carlo *see* **Goldberg, Joshua N.; et al., 93d:70028**
Semenov, V. E. *see* **Helander, P.; et al., 93a:70016**
Senthil Velan, M. *see* **Lakshmanan, M., 93c:70011**
Shamolin, M. V. On the problem of the motion of a body in a resistant medium. (Russian. Russian summary) **93k:70028**
Simó, Carles *see* **Font Arjó, Joaquín, 93k:70024**
Tuszyński, J. A. *see* **Nip, M. L. A.; et al., 93h:70011**
Wei, Bai Rong Differential forms and integral invariants in classical mechanics. (Chinese. English and Chinese summaries) **93k:70029**
Xu, Zheng Fan *see* **Dong, Guang Mao; et al., 93a:70015**
Yoshida, Haruo On a class of variational equations transformable to the Gauss hypergeometric equation. **93a:70020**
— *see also* **Almeida, M. A.; et al., 93b:70017**
Zou, Maorong Kolmogorov's condition for the square potential spherical pendulum. **93f:70015**

Items with secondary classifications in 70H05

Abad, A. *see* **Elipe Sánchez, Antonio C.; et al., 93k:70010**
Abia, L. (*with* Sanz-Serna, J. M.) Partitioned Runge-Kutta methods for separable Hamiltonian problems. (English summary) **93i:65074**
de Aguiar, M. A. M. (*with* Ozorio de Almeida, Alfredo M.) Action billiards. **93b:58047**
Ambrosetti, Antonio (*with* Ekeland, Ivar) Perturbation results for a class of singular Hamiltonian systems. (Italian summary) **93d:58129**
— (*with* Bessi, U.) Multiple periodic trajectories in a relativistic gravitational field. **93k:58187**
— Recent progress in singular Hamiltonian systems. **93d:34072**
— (*with* Bessi, U.) Multiple closed orbits for perturbed Keplerian problems. **93g:34062**
Amick, C. J. (*with* Toland, J. F.) Global uniqueness of homoclinic orbits for a class of fourth order equations. (English summary) **93f:34073**
Anoshkina, E. V. Topological classification of an integrable case of Goryachev-Chaplygin type with a generalized potential in the dynamics of a rigid body. (Russian) **93h:58048**
Arnaud, Marie-Claude Type des points fixes des difféomorphismes symplectiques de $T^n \times R^n$. (English summary) [The type of fixed points of the symplectic diffeomorphisms of $T^n \times R^n$] **93c:58065**
Arribas, M. *see* **Elipe Sánchez, Antonio C.; et al., 93k:70010**
Ashkenazi, Max (*with* Chow, Shui-Nee; Drachman, Byron) Symbolic computation of normal forms for nonlinear Hamiltonian systems (Algorithm 34). **93c:65103**
Aubry, Serge (*with* MacKay, Robert S.; Baesens, Claude) Equivalence of uniform hyperbolicity for symplectic twist maps and phonon gap for Frenkel-Kontorova models. **93e:58144**
Baesens, Claude *see* **Aubry, Serge; et al., 93e:58144**
Bahri, Abbas (*with* Rabinowitz, Paul H.) Periodic solutions of some problems of 3-body type. **93k:58042**
Baranger, M. *see* **Davies, K. T. R.; et al., 93f:58072**
Bates, Larry (*with* Śniatycki, Jędrzej) On action-angle variables. **93j:58058**
Battelli, Flaviano (*with* Palmer, Kenneth J.) Tangencies between stable and unstable manifolds. **93i:58117**
Bazzani, Armando (*with* Turchetti, Giorgio) Singularities of normal forms and topology of orbits in area-preserving maps. **93b:58126**
Beigie, Darin (*with* Leonard, Anthony; Wiggins, Stephen) Chaotic transport in the homoclinic and heteroclinic tangle regions of quasiperiodically forced two-dimensional dynamical systems. **93c:58130**
Bessi, U. *see* **Ambrosetti, Antonio, 93g:34062** *and* **93k:58187**
Bhattacharjee, A. *see* **Gjaja, Ivan M., 93d:81043**
Black, R. C. (*with* Satija, Indubala I.) Recurrence phenomenon in dissipative systems. (English summary) **93e:58137**
Blázquez, C. M. (*with* Llosa, J.) Classical spin particles: a kinematical approach. (English summary) **93i:58049**
Bogdanov, E. I. Quantization of Lagrange classical mechanics. (Russian. English and Russian summaries) **93h:58050**
Bolotin, S. V. Integrable billiards on surfaces of constant curvature. (Russian) **93f:58186**
— Variational methods for constructing chaotic motions in the dynamics of a rigid body. (Russian. Russian summary) **93g:58025**
Bosley, D. L. (*with* Kevorkian, J.) Adiabatic invariance and transient resonance in very slowly varying oscillatory Hamiltonian systems. **93c:34081**
Bouquet, S. (*with* Dewisme, A.) First integrals of Hamiltonian and non-Hamiltonian systems and chaos. (English summary) **93h:58051**
Bryuno, A. D. ★ Ограниченная задача трех тел. (Russian) [The restricted three-body problem] **93g:70009**
— Nondegeneracy conditions in the Kolmogorov theorem. (Russian) **93e:58056**
Büttner, H. *see* **Huber, H., 93e:81064**
Caboz, Régis *see* **Gavrilov, Ljubomir Nedjalkov; et al., 93f:58167**
Cai, DongSheng *see* **Itoh, Toshiaki, 93j:58050**
Calogero, Francesco (*with* Françoise, Jean-Pierre) Integrable dynamical systems obtained by duplication. (English and French summaries) **93k:58109**
Calvo Pinilla, Manuel Characterization of symplectic Runge-Kutta-Nyström methods. (Spanish) **93m:65100**
— (*with* Sanz-Serna, J. M.) Variable steps for symplectic integrators. (*see* **93b:65005**)
— (*with* Sanz-Serna, J. M.) Order conditions for canonical Runge-Kutta-Nyström methods. (English summary) **93m:65101**
Cantrijn, F. (*with* de León, Manuel; Lacomba, Ernesto A.) Gradient vector fields on cosymplectic manifolds. **93e:58057**
Capel, Hans W. *see* **Roberts, J. A. G., 93d:58113**
Cariñena, José F. (*with* Gracia-Bondía, José M.; Ibort, Luis A.; López Lacasta, Carlos; Várilly, Joseph C.) Distinguished Hamiltonian theorem for homogeneous symplectic manifolds. **93i:58051**
— (*with* Rañada, Manuel F.) Hamiltonian formalism and time transformations in the extended phase space $T^*(Q \times \mathbf{R})$. **93f:58071**
— (*with* López Lacasta, Carlos) Geometric study of Hamilton's variational principle. **93a:58055**
— (*with* López Lacasta, Carlos) The time-evolution operator for higher-order singular Lagrangians. **93d:58049**
Casasayas, Josefina *see* **Nunes, Ana, 93j:58053** *and* **93k:70011**
Celletti, Alessandra Stability of satellites in spin-orbit resonances and capture probabilities. (English summary) (*see* **93i:70002**)
— (*with* Falcolini, Corrado) Construction of invariant tori for the spin-orbit problem in the Mercury-Sun system. **93a:70011**
Chang, Zhe Quantum group realized in a symmetric-top system. **93b:81108**
Chernikov, Aleksandr Antonovich *see* **Zaslavskiĭ, G. M.; et al., 93a:58127a** *and* **93a:58127b**
Chernov, N. I. Ergodicity of a Hamiltonian system of two particles in an external field. (Russian) **93d:58050**
Chirikov, B. V. (*with* Vecheslavov, V. V.) The structure of a weakly nonlinear resonance. **93c:58186**
Chow, Shui-Nee *see* **Ashkenazi, Max; et al., 93c:65103**
Christov, O. Perturbations of a mechanical system with two degrees of freedom. (English and Bulgarian summaries) **93m:58041**
Churkina, N. I. Periodic Poincaré solutions of Hamiltonian systems with one and a half degrees of freedom. (Russian) (*see* **93e:00015**)
Coppel, W. A. Dynamical systems: an introduction to some mathematical techniques and results. **93f:58059**
Corichi, Alejandro Comment on: "Hamiltonian formulation of a theory with constraints" [J. Math. Phys. **33** (1992), no. 2, 633–638; MR 92m:81116] by U. Kulshreshta. (English summary) **93j:81049**
Coti Zelati, Vittorio Periodic solutions for N-body type problems. (French summary) **93a:70009**
— (*with* Rabinowitz, Paul H.) Homoclinic orbits for second order Hamiltonian systems possessing superquadratic potentials. **93e:58023**
— (*with* Serra, Enrico) Some properties of collision and noncollision orbits for a class of singular dynamical systems. (English and Italian summaries) **93k:58189**
Cushman, Richard H. A survey of normalization techniques applied to perturbed Keplerian systems. **93b:58127**
Davies, K. T. R. (*with* Huston, T. E.; Baranger, M.) Calculations of periodic trajectories for the Hénon-Heiles Hamiltonian using the monodromy method. **93f:58072**
Delhaise, Fabienne (*with* Henrard, Jacques) The problem of critical inclination combined with a resonance in mean motion in artificial satellite theory. (English summary)
Dell'Antonio, Gianfausto (*with* D'Onofrio, Biancamaria; Ekeland, Ivar) Les systèmes hamiltoniens convexes et pairs ne sont pas ergodiques en général. (English and French summaries) [Convex symmetric Hamiltonian systems are not generally ergodic] **93k:58190**
Dewisme, A. *see* **Bouquet, S., 93h:58051**
Ding, Yan Heng (*with* Li, Shu Jie) A remark on periodic solutions of singular Hamiltonian systems with sublinear terms. (English summary) **93i:58127**
Dodson, M. M. (*with* Pöschel, Jürgen; Rynne, Bryan P.; Vickers, J. A. G.) The Hausdorff dimension of small divisors for lower-dimensional KAM-tori. (English summary) **93m:58096**
Dold, J. W. A note on integral properties of periodic orbits. (English summary) **93m:34057**
D'Onofrio, Biancamaria *see* **Dell'Antonio, Gianfausto; et al., 93k:58190**
Došlý, Ondřej Transformations of linear Hamiltonian systems preserving oscillatory behaviour. (English summary) **93k:34070**
Dovbysh, S. A. Kolmogorov stability, the impossibility of Fermi acceleration, and the existence of periodic solutions in some systems of Hamiltonian type. (Russian. Russian summary) **93k:58192**
— On the separatrix of the unstable equilibrium of the Hess-Appel'rot top. (Russian. Russian summary) **93k:70008**
Drachman, Byron *see* **Ashkenazi, Max; et al., 93c:65103**
Dragt, Alex J. (*with* Neri, Filippo; Rangarajan, Govindan) General moment invariants for linear Hamiltonian systems. **93c:58067**
Echeverría Enríquez, A. (*with* Muñoz Lecanda, M. C.) Variational calculus in several variables: a Hamiltonian approach. (French summary) **93f:58051**
Ekeland, Ivar *see* **Ambrosetti, Antonio, 93d:58129** *and* **Dell'Antonio, Gianfausto; et al., 93k:58190**

Elipe Sánchez, Antonio C. (*with* Abad, A.; Arribas, M.) Scaling Hamiltonians in attitude dynamics of two rigid bodies. (English summary) **93k:70010**
Elskens, Yves (*with* Escande, D. F.) Infinite resonance overlap: a natural limit for Hamiltonian chaos. (English summary) **93k:58147**
Emel'yanova, I. S. ★ Проблема "симметрия-интегралы движения" в аналитической динамике. (Russian. English and Russian summaries) [The "symmetry-integrals of motion" problem in analytical dynamics] **93k:70030**
Escande, D. F. *see* **Elskens, Yves, 93k:58147**
Falcolini, Corrado (*with* de la Llave, Rafael) Numerical calculation of domains of analyticity for perturbation theories in the presence of small divisors. **93d:58145**
— (*with* de la Llave, Rafael) A rigorous partial justification of Greene's criterion. **93f:58210**
— *see also* **Celletti, Alessandra, 93a:70011**
Fan, Xian Ling Existence of multiple periodic orbits on star-shaped Lipschitz-Hamiltonian surfaces. **93m:58090**
Fawcett, R. J. B. Compact classical systems: so(n) systems. **93f:58087**
Felmer, Patricio L. Heteroclinic orbits for spatially periodic Hamiltonian systems. (French summary) **93d:58024**
— Periodic solutions of spatially periodic Hamiltonian systems. **93d:58131**
— Rotation type solutions for spatially periodic Hamiltonian systems. **93j:58024**
Feng, Kang (*with* Wang, Dao Liu) Symplectic difference schemes for Hamiltonian systems in general symplectic structure. **93a:65100**
— (*with* Wang, Dao Liu) A note on conservation laws of symplectic difference schemes for Hamiltonian systems. **93b:65113**
Ferrández Leal, José Manuel *see* **Getino, J. M., 93d:73062a; 93d:73062b** *and* **93d:73062c**
Ferrer, Sebastián (*with* Miller, Bruce R.) Coordinates for perturbed Keplerian systems with axial symmetry. **93a:70006**
Fomenko, A. T. Topological classification of all integrable Hamiltonian differential equations of general type with two degrees of freedom. **93e:58081**
— (*with* Nguyen Tien Zung) Topological classification of integrable nondegenerate Hamiltonians on the isoenergy three-dimensional sphere. **93a:58060**
— The theory of invariants of multidimensional integrable Hamiltonian systems (with arbitrary [arbitrarily] many degrees of freedom). Molecular table of all integrable systems with two degrees of freedom. **93c:58087**
Ford, Joseph The Fermi-Pasta-Ulam problem: paradox turns discovery. **93h:58052**
Forest, Etienne Sixth-order Lie group integrators. **93b:70003**
Françoise, Jean-Pierre (*with* Novikov, R. G.) Solutions rationnelles des équations de type Korteweg-de Vries en dimension 2 + 1 et problèmes à m corps sur la droite. (English summary) [Rational solutions of KdV-type equations in dimension 2 + 1 and m-body problems on the line] **93g:58060**
— *see also* **Calogero, Francesco, 93k:58109**
Gabella, W. E. (*with* Ruth, R. D.; Warnock, R. L.) Iterative determination of invariant tori for a time-periodic Hamiltonian with two degrees of freedom. (English summary) **93g:70004**
Galgani, Luigi (*with* Giorgilli, Antonio; Martinoli, Andrea; Vanzini, Stefano) On the problem of energy equipartition for large systems of the Fermi-Pasta-Ulam type: analytical and numerical estimates. (English summary) **93h:58135**
Gatto, Letterio (*with* Greco, Silvio) Algebraic curves and differential equations: an introduction. **93d:58069**
Gavrilov, Ljubomir Nedjalkov (*with* Ouazzani-Jamil, Mohammed; Caboz, Régis) Bifurcations des tores de Liouville du potentiel de Kolossoff $U = \rho + (1/\rho) - k\cos\varphi$. (English and French summaries) [Bifurcations of the Liouville tori of the Kolossoff potential $U = \rho + (1/\rho) - k\cos\varphi$] **93f:58167**
— Nonintegrability of the equations of heavy gyrostat. **93d:70008**
Ge, Yan Chao From Newton to chaos and modern physics. I. (English summary) **93i:58104**
Geist, Karlheinz (*with* Lauterborn, Werner) The nonlinear dynamics of the damped and driven Toda chain. III. Classification of the nonlinear resonances and local bifurcations. **93a:58130**
Gérard, C. (*with* Knauf, Andreas) Collisions for the quantum Coulomb Hamiltonian. **93f:81155**
Getino, J. M. (*with* Ferrández Leal, José Manuel) A Hamiltonian theory for an elastic Earth: elastic energy of deformation. **93d:73062a**
— (*with* Ferrández Leal, José Manuel) A Hamiltonian theory for an elastic Earth: first order analytical integration. **93d:73062b**
— (*with* Ferrández Leal, José Manuel) A Hamiltonian theory for an elastic Earth: secular rotational acceleration. **93d:73062c**
Giorgilli, Antonio (*with* Zehnder, Eduard) Exponential stability for time dependent potentials. (English summary) **93i:58088**
— *see also* **Galgani, Luigi; et al., 93h:58135**
Girardi, Mario (*with* Matzeu, Michele) Essential critical points of linking type and solutions of minimal period to superquadratic Hamiltonian systems. **93f:58030**
Gjaja, Ivan M. (*with* Bhattacharjee, A.) Asymptotics of reflectionless potentials. **93d:81043**
Godunov, S. K. A new criterion for the absence of parametric resonance in Hamiltonian systems. (Russian) (*see* **93f:34004**)
Gracia-Bondía, José M. *see* **Cariñena, José F.; et al., 93i:58051**
Greco, Silvio *see* **Gatto, Letterio, 93d:58069**
Grimshaw, R. H. J. ★ Nonlinear ordinary differential equations. **93c:34002**
van Groesen, E. On variational formulation of periodic and quasi-periodic Hamiltonian motions as relative equilibria. **93j:58049**
Hall, Glen R. *see* **Meyer, Kenneth R., 93b:70002**
Heagy, J. F. A physical interpretation of the Hénon map. (English summary) **93e:58130**
Henneaux, Marc On the use of auxiliary fields in classical mechanics and in field theory. (English summary) **93i:58039**
Henrard, Jacques *see* **Delhaise, Fabienne**
Herbst, Ben M. Numerical evidence of exponentially small splitting distances in symplectic discretizations of planar Hamiltonian systems. (English summary) **93h:58098**
Holm, Darryl D. (*with* Marsden, Jerrold Eldon) The rotor and the pendulum. **93f:58075**
Holmes, Philip J. *see* **Mielke, Alexander; et al., 93c:58161**
Horwitz, L. P. (*with* Schieve, W. C.) Horseshoes in a relativistic Hamiltonian system in 1 + 1 dimensions. (English summary) **93d:70033**
Huber, H. (*with* Büttner, H.) On a classical constrained system and its quantum mechanical counterpart. (English summary) **93e:81064**
Huston, T. E. *see* **Davies, K. T. R.; et al., 93f:58072**
Ibort, Luis A. (*with* Marín Solano, J.) A geometric classification of Lagrangian functions and the reduction of evolution space. **93g:58050**
— *see also* **Cariñena, José F.; et al., 93i:58051**
Ichtiaroglou, S. *see* **Voyatzis, G., 93j:58119**
Irigoyen, Maŷlis (*with* Simó, Carles) Nonintegrability of the J_2 problem. (English summary) **93k:70020**
Iserles, Arieh Efficient Runge-Kutta methods for Hamiltonian equations. **93e:65102**
Ito, Hidekazu On Riemann surfaces of solutions for analytic integrable systems and their holonomy representations. **93f:58076**
— Integrability of Hamiltonian systems and Birkhoff normal forms in the simple resonance case. **93b:58128**
Itoh, Toshiaki (*with* Cai, DongSheng) Fractal dimension and convergence property of recursively generated symplectic integrators. (English summary) **93j:58050**
Iwai, Toshihiro The geometry of the SU(2) Kepler problem. **93e:58062**
Jones, Kingsley R. W. Classical mechanics as an example of generalized quantum mechanics. **93e:81010**
Kadeisvili, J. V. ★ Santilli's isotopies of contemporary algebras, geometries and relativities. **93f:58077**
Kaluža, M. (*with* Robnik, Marko) Improved accuracy of the Birkhoff-Gustavson normal form and its convergence properties. (English summary) **93i:58135**
Kaper, Tasso J. (*with* Wiggins, Stephen) On the structure of separatrix-swept regions in singularly-perturbed Hamiltonian systems. (English summary) **93m:58100**
Karapetyan, A. V. Qualitative investigation of the dynamics of a top on a plane with friction. (Russian) **93b:70005**
Ketema, Yohannes A physical interpretation of Mel'nikov's method. **93f:34075**
Kevorkian, J. *see* **Bosley, D. L., 93c:34081**
Kharlamova, E. I. Integrable cases of the problem of the motion of a gyrostat subject to a nonholonomic constraint. (Russian) **93a:70005**
Knauf, Andreas *see* **Gérard, C., 93f:81155**
Kochubei, A. N. The Liouville operator. (Russian. Ukrainian summary) **93e:58063**
Kosygin, D. V. Multidimensional KAM theory from the renormalization group viewpoint. **93c:58183**
Kovačič, Gregor Hamiltonian dynamics of orbits homoclinic to a resonance band. **93k:34100**
— Dissipative dynamics of orbits homoclinic to a resonance band. **93k:34101**
Kozlov, Valeriĭ V. Vortex theory of a top. (Russian) **93d:58055**
— (*with* Treshchëv, D. V.) ★ Billiards. **93k:58094a**
— (*with* Treshchëv, D. V.) ★ Биллиарды. (Russian) [Billiards] **93k:58094b**
— Tensor invariants of quasihomogeneous systems of differential equations, and the asymptotic Kovalevskaya-Lyapunov method. (Russian) **93k:58199**
Krámli, A. (*with* Simányi, Nándor; Szász, Domokos) The K-property of four billiard balls. **93a:58107**
Krishnaprasad, P. S. *see* **Wang, Li Sheng; et al., 93i:70009**
Krug, Joachim *see* **Schwägerl, Michael, 93a:58124**
(Kulshreshta, Usha) *see* **Corichi, Alejandro, 93j:81049**
Kunitsyn, A. L. (*with* Turyakbaev, A. A.) Stability of Hamiltonian systems under fourth-order multiple resonance. (Russian) **93j:70008**
Lacomba, Ernesto A. (*with* Llibre, Jaume) Integrals, invariant manifolds, and degeneracy for central force problems in $\mathbf{R}^n$. **93d:70016**
— *see also* **Cantrijn, F.; et al., 93e:58057**
Lakshmanan, M. (*with* Senthil Velan, M.) Direct integration of generalized Lie or dynamical symmetries of three degrees of freedom nonlinear Hamiltonian systems: integrability and separability. (English summary) **93m:70020**
Landsberg, A. S. Geometrical phases and symmetries in dissipative systems. (English summary) **93d:81055**
Lassoued, Leïla (*with* Mathlouthi, Salem) A numerical method for finding homoclinic orbits of Hamiltonian systems. **93e:65081**
Lauterborn, Werner *see* **Geist, Karlheinz, 93a:58130**
Lazutkin, V. F. Analytic integrals and separatrices splittings in Hamiltonian systems. (*see* **93f:34004**)
de León, Manuel *see* **Cantrijn, F.; et al., 93e:58057**
Leonard, Anthony *see* **Beigie, Darin; et al., 93c:58130**
Levi, Mark L. Quasiperiodic motions in superquadratic time-periodic potentials. **93i:34080**
Levine, Raphael D. *see* **Weeks, David E., 93c:58191**
Lewis, Andrew D. Lagrangian submanifolds and an application to the reduced Schrödinger equation in central force problems. (English summary) **93h:58057**
Lewis, Debra Lagrangian block diagonalization. **93b:58055**
Leyvraz, F. (*with* Seligman, T. H.) Structural invariance and the statistics of quasi-energies. (English summary) **93h:81034**
Li, Bao Yi *see* **Zhang, Zhi Fen, 93i:34070**
Li, Shu Jie Periodic solutions for Hamiltonian systems in a nonconvex potential well. **93j:58116**
— *see also* **Ding, Yan Heng, 93i:58127**
Lichtenberg, Allan J. (*with* Lieberman, M. A.) ★ Regular and chaotic dynamics. **93c:58071**
Lieberman, M. A. *see* **Lichtenberg, Allan J., 93c:58071**
Ling, Fu Hua (*with* Xu, Ru Jin) Nonintegrability and chaos of a conservative compound pendulum. (Chinese. English summary) **93a:70023**
Liu, Jia Quan Multiple solutions for Hamiltonian systems with periodic nonlinearity and strong resonance. **93i:34076**
de la Llave, Rafael *see* **Falcolini, Corrado, 93d:58145** *and* **93f:58210**
Llibre, Jaume *see* **Lacomba, Ernesto A., 93d:70016** *and* **Nunes, Ana; et al., 93k:70011**
Llosa, J. *see* **Blázquez, C. M., 93i:58049**
Long, Yi Ming Maslov-type index theory and asymptotically linear Hamiltonian systems. **93f:58202**
López Lacasta, Carlos *see* **Cariñena, José F., 93a:58055; 93d:58049** *and* **93i:58051**
Lowenstein, J. H. Interpolating Hamiltonians for a stochastic-web map with quasicrystalline symmetry. (English summary) **93f:58213**

Lusanna, Luca An enlarged phase space for finite-dimensional constrained systems, unifying their Lagrangian, phase- and velocity-space descriptions. **93h:58058**
Ma, Wen Xiu A hierarchy of Liouville integrable finite-dimensional Hamiltonian systems. (Chinese. English summary) **93i:58075**
— A new family of Liouville integrable generalized Hamilton equations and its reduction. (Chinese) **93f:58104**
MacKay, Robert S. Some aspects of the dynamics and numerics of Hamiltonian systems. **93d:58057**
— Greene's residue criterion. **93m:58097**
— *see also* **Aubry, Serge; et al., 93e:58144**
Maddocks, John H. On the stability of relative equilibria. **93g:70023**
— *see also* **Wang, Li Sheng; et al., 93i:70009**
Magnus, Robert Is the solar system stable? (Danish. English summary)
Majer, Pietro On the Palais-Smale condition for action integrals. **93c:58044**
Man'ko, V. I. (*with* Marmo, Giuseppe) Generalized reduction procedure and nonlinear nonstationary dynamical systems. (English summary) **93i:58057**
Marín Solano, J. *see* **Ibort, Luis A., 93g:58050**
Marmo, Giuseppe (*with* Vilasi, Gaetano) When do recursion operators generate new conservation laws? **93b:58068**
— *see also* **Man'ko, V. I., 93i:58057**
Marsden, Jerrold Eldon (*with* O'Reilly, O. M.; Wicklin, F. J.; Zombro, B. W.) Symmetry, stability, geometric phases, and mechanical integrators. II. **93e:58066**
— ★ Lectures on mechanics. **93f:58078**
— *see also* **Holm, Darryl D., 93f:58075**
Martinoli, Andrea *see* **Galgani, Luigi; et al., 93h:58135**
Matatov, V. I. (*with* Sabynich, L. V.) On moving singularities of a second-order Hamiltonian system. (Russian. Russian summary) **93k:34015**
Mathlouthi, Salem *see* **Lassoued, Leïla, 93e:65081**
Matzeu, Michele *see* **Girardi, Mario, 93f:58030**
Meijaard, J. P. Applications of the singular value decomposition in dynamics. (English summary) **93k:70002**
Meiss, J. D. Phenomenology of area-preserving twist maps. **93c:58073**
— Regular orbits for the stadium billiard. **93a:58065**
— Symplectic maps, variational principles, and transport. (English summary) **93h:58060**
Mendonça, J. T. *see* **Oliveira e Silva, L., 93h:70022**
Meyer, Kenneth R. (*with* Hall, Glen R.) ★ Introduction to Hamiltonian dynamical systems and the N-body problem. **93b:70002**
— (*with* Schmidt, Dieter S.) Librations of central configurations and braided Saturn rings. (English summary) **93m:70013**
Mielke, Alexander ★ Hamiltonian and Lagrangian flows on center manifolds. **93f:58080**
— (*with* Holmes, Philip J.; O'Reilly, O. M.) Cascades of homoclinic orbits to, and chaos near, a Hamiltonian saddle-center. **93c:58161**
Miller, Bruce R. *see* **Ferrer, Sebastián, 93a:70006**
Mladenov, Ivailo M. Geometric quantization of the five-dimensional Kepler problem. **93c:81089**
Molina Legaz, R. (*with* Vigueras Campuzano, Antonio) Lie series and first integrals in generalized n-body problems. (Spanish. English summary) **93a:70010**
Moshchevitin, N. G. On the existence and smoothness of an integral of a Hamiltonian system of a certain form. (Russian) **93a:58066**
Mou, Wei Hua (*with* Zhang, Bao Cai; Qiao, Zhi Jun) A new polynomial involutive system and a classical completely integrable system. (English summary) **93m:58053**
Muñoz Lecanda, M. C. *see* **Echeverría Enríquez, A., 93f:58051**
(Nazaikinskii, V. E.) *see* **Kosygin, D. V., 93c:58183**
Neri, Filippo *see* **Dragt, Alex J.; et al., 93c:58067**
Nguyen Tien Zung *see* **Fomenko, A. T., 93a:58060**
Nordmark, A. B. Effects due to low velocity impact in mechanical oscillators. (English summary) **93h:70017**
Novikov, R. G. *see* **Françoise, Jean-Pierre, 93g:58060**
Nunes, Ana (*with* Casasayas, Josefina; Llibre, Jaume) A perturbation of the relativistic Kepler problem. (English summary) **93k:70011**
— (*with* Casasayas, Josefina) Global description of the solutions of a large class of nonintegrable Hamiltonians. **93j:58053**
Offin, Daniel C. A spectral theorem for reversible second order equations with periodic coefficients. **93g:58027**
Okunbor, Daniel (*with* Skeel, Robert D.) Explicit canonical methods for Hamiltonian systems. **93a:70002**
— Canonical methods for Hamiltonian systems: numerical experiments. (English summary) **93j:65131**
— (*with* Skeel, Robert D.) An explicit Runge-Kutta-Nyström method is canonical if and only if its adjoint is explicit. **93c:65091**
Okuneva, G. G. Integrable Hamiltonian systems in analytic dynamics and mathematical physics. **93a:58085**
Oliveira e Silva, L. (*with* Mendonça, J. T.) Asymmetric pendulum. (English summary) **93h:70022**
Omana, W. (*with* Willem, Michel) Homoclinic orbits for a class of Hamiltonian systems. **93f:58031**
O'Reilly, O. M. *see* **Mielke, Alexander; et al., 93c:58161** *and* **Marsden, Jerrold Eldon; et al., 93e:58066**
Oshemkov, A. A. Fomenko invariants for the main integrable cases of the rigid body motion equations. **93b:58057**
Ouazzani-Jamil, Mohammed *see* **Gavrilov, Ljubomir Nedjalkov; et al., 93f:58167**
Ozorio de Almeida, Alfredo M. ★ Hamiltonian systems: chaos and quantization. **93e:58069**
— *see also* **de Aguiar, M. A. M., 93b:58047**
Palmer, Kenneth J. *see* **Battelli, Flaviano, 93i:58117**
Parmenter, R. H. (*with* Yu, L. Y.) The periodically kicked quantum spin. (English summary) **93i:81040**
— *see also* **Yu, L. Y., 93i:58133**
Paternain, Gabriel P. Real analytic convex surfaces with positive topological entropy and rigid body dynamics. (English summary) **93m:58084**
Patrick, George W. Relative equilibria in Hamiltonian systems: the dynamic interpretation of nonlinear stability on a reduced phase space. **93e:58070**
Perko, L. M. Mel'nikov's method, stochastic layers and nonintegrability of a perturbed Duffing-oscillator. (English summary) **93i:34066**
Perlick, Volker The Hamiltonization problem from a global viewpoint. **93c:58074**
Piovan, Luis A. Cyclic coverings of abelian varieties and the Goryachev-Chaplygin top. **93j:14059**
Polyakova, L. S. Invariants of integrable Hamiltonian systems with exponential interaction. (Russian) **93b:58074**
Polychronakos, Alexios P. A new integrable system with a quartic potential. **93d:58059**
— New integrable systems from unitary matrix models. **93e:58090**
— Exchange operator formalism for integrable systems of particles. **93g:58063**
Pöschel, Jürgen *see* **Dodson, M. M.; et al., 93m:58096**
Qiao, Zhi Jun Two new integrable systems in Liouville's sense. (English summary) **93k:58122**
— *see also* **Mou, Wei Hua; et al., 93m:58053**
Qin, Meng Zhao (*with* Wang, Dao Liu; Zhang, Mei Qing) Explicit symplectic difference schemes for separable Hamiltonian systems. **93b:65112**
Rabinowitz, Paul H. Some recent results on heteroclinic and other connecting orbits of Hamiltonian systems. **93g:58121**
— *see also* **Coti Zelati, Vittorio, 93e:58023** *and* **Bahri, Abbas, 93k:58042**
Raines, P. E. (*with* Uzer, T.) Computing normal forms of nonseparable Hamiltonians by symbolic manipulation. **93b:58129**
Rañada, Manuel F. Alternative Lagrangians for central potentials. **93f:70019**
— Extended Legendre transformation approach to the time-dependent Hamiltonian formalism. **93e:58071**
— *see also* **Cariñena, José F., 93f:58071**
Rangarajan, Govindan *see* **Dragt, Alex J.; et al., 93c:58067**
Rauch-Wojciechowski, Stefan Restricted flows of soliton equations and bi-Hamiltonian formulation in classical mechanics. (English summary) **93k:58123**
Rawnsley, John Exact symplectic structures and a classical model for the Dirac electron. **93f:58082**
Reithmeier, Eduard ★ Periodic solutions of nonlinear dynamical systems. **93g:34063**
Ripa, P. A tale of three theorems. (Spanish summary) **93k:76058**
Roberts, J. A. G. (*with* Capel, Hans W.) Area preserving mappings that are not reversible. **93d:58113**
Robnik, Marko *see* **Kaluža, M., 93i:58135**
Rom-Kedar, Vered Homoclinic structures in open flows. (English summary) **93f:58182**
Rothe, Franz Remarks on periods of planar Hamiltonian systems. (English summary) **93m:34058**
Ruffo, Stefano Lyapunov spectra in Hamiltonian dynamics. **93c:58146**
Ruth, R. D. *see* **Warnock, R. L., 93g:58112** *and* **Gabella, W. E.; et al., 93g:70004**
Rynne, Bryan P. *see* **Dodson, M. M.; et al., 93m:58096**
Sabynich, L. V. *see* **Matatov, V. I., 93k:34015**
Sagdeev, R. Z. *see* **Zaslavskii, G. M.; et al., 93a:58127a** *and* **93a:58127b**
(Sagdeeva, A. R.) *see* **Zaslavskii, G. M.; et al., 93a:58127b**
Salamon, Dietmar A. (*with* Zehnder, Eduard) Morse theory for periodic solutions of Hamiltonian systems and the Maslov index. (English summary) **93g:58028**
Salvatore, Addolorata Multiple periodic solutions for Hamiltonian systems with singular potential. (Italian summary) **93g:58122**
(Santilli, Ruggero Maria) *see* **Kadeisvili, J. V., 93f:58077**
Sanz-Serna, J. M. Symplectic integrators for Hamiltonian problems: an overview. **93c:65093**
— *see also* **Abia, L., 93i:65074**; **Calvo Pinilla, Manuel, 93m:65101** *and* **(93b:65005)**
Satija, Indubala I. *see* **Black, R. C., 93e:58137**
Savchin, V. M. ★ Математические методы механики бесконечномерных непотенциальных систем. (Russian. Russian summary) [Mathematical methods in the mechanics of infinite-dimensional nonpotential systems] **93j:58054**
Schieve, W. C. *see* **Horwitz, L. P., 93d:70033**
Schmidt, Dieter S. *see* **Meyer, Kenneth R., 93m:70013**
(Schulenberger, J. R.) *see* **Kozlov, Valerii V., 93k:58094a**
Schwägerl, Michael (*with* Krug, Joachim) Subdiffusive transport in stochastic webs. **93a:58124**
Sekiguchi, Masayoshi (*with* Tanikawa, Kiyotaka) Orbits asymptotic to the outermost KAM in the restricted three-body problem. (English summary) (*see* **93i:70002**)
Seligman, T. H. *see* **Leyvraz, F., 93h:81034**
Senthil Velan, M. *see* **Lakshmanan, M., 93m:70020**
Serra, Enrico *see* **Coti Zelati, Vittorio, 93k:58189**
Shinkin, V. N. The integrable cases of the planetary three-body problem at first-order resonance. (English summary) **93k:70016**
Shu, Hai Bin A new approach to generating functions for contact systems. (English summary) **93m:58044**
Simányi, Nándor *see* **Krámli, A.; et al., 93a:58107**
Simó, Carles Measuring the lack of integrability of the J_2 problem for Earth's satellites. (English summary) (*see* **93i:70002**)
— *see also* **Irigoyen, Mañlis, 93k:70020**
Skeel, Robert D. *see* **Okunbor, Daniel, 93a:70002** *and* **93c:65091**
Śniatycki, Jędrzej *see* **Bates, Larry, 93j:58058**
Sreenath, N. Nonlinear control of planar multibody systems in shape space. (English summary) **93f:93065**
Szász, Domokos *see* **Krámli, A.; et al., 93a:58107**
Tanaka, Kazunaga Homoclinic orbits for a singular second order Hamiltonian system. (French summary) **93g:58029**
— Homoclinic orbits in a first order superquadratic Hamiltonian system: convergence of subharmonic orbits. **93e:58072**
Tanikawa, Kiyotaka (*with* Yamaguchi, Yoshihiro) Stable and unstable manifolds asymptotic to the outermost KAM curve. **93e:58148**
— *see also* **Sekiguchi, Masayoshi, (93i:70002)**
Terracini, Susanna Remarks on periodic orbits of dynamical systems with repulsive singularities. (English summary) **93m:58020**

Thompson, Gerard Normal forms for elements of $o(p,q)$ and Hamiltonians with integrals linear in momenta. **93a:58150**
Toland, J. F. *see* **Amick, C. J., 93f:34073**
Treshchëv, D. V. On the preservation of invariant manifolds of Hamiltonian systems under perturbations. (Russian) **93d:58146**
— *see also* **Kozlov, Valeriĭ V., 93k:58094a** *and* **93k:58094b**
Tsarfin, E. L. Chaotic behavior of trajectories of an integrable dynamical system in a subspace of its phase space. (Russian. Russian summary) (*see* **93g:00024**)
Turchetti, Giorgio *see* **Bazzani, Armando, 93b:58126**
Turyakbaev, A. A. *see* **Kunitsyn, A. L., 93j:70008**
Usikov, D. A. *see* **Zaslavskiĭ, G. M.; et al., 93a:58127a** *and* **93a:58127b**
Uzer, T. *see* **Raines, P. E., 93b:58129**
Vanhaecke, Pol Linearising two-dimensional integrable systems and the construction of action-angle variables. **93k:58125**
Vanzini, Stefano *see* **Galgani, Luigi; et al., 93b:58135**
Várilly, Joseph C. *see* **Cariñena, José F.; et al., 93i:58051**
Vecheslavov, V. V. *see* **Chirikov, B. V., 93c:58186**
Veselov, A. P. Integrable mappings. (Russian) **93e:58096**
— Parametric resonance and geodesics on an ellipsoid. (Russian) **93h:58062**
Vickers, J. A. G. *see* **Dodson, M. M.; et al., 93m:58096**
Vigueras Campuzano, Antonio *see* **Molina Legaz, R., 93a:70010**
Vilasi, Gaetano *see* **Marmo, Giuseppe, 93b:58068**
Voyatzis, G. (*with* Ichtiaroglou, S.) On the spectral analysis of trajectories in near-integrable Hamiltonian systems. (English summary) **93j:58119**
Wan, Yieh Hei Codimension two bifurcations of symmetric cycles in Hamiltonian systems with an antisymplectic involution. **93b:58109**
Wang, Dao Liu Poisson difference schemes for Hamiltonian systems on Poisson manifolds. **93d:58060**
— *see also* **Feng, Kang, 93a:65100**; **Qin, Meng Zhao; et al., 93b:65112** *and* **Feng, Kang, 93b:65113**
Wang, Li Sheng (*with* Maddocks, John H.; Krishnaprasad, P. S.) Steady rigid-body motions in a central gravitational field. (English summary) **93i:70009**
Warnock, R. L. (*with* Ruth, R. D.) Long-term bounds on nonlinear Hamiltonian motion. **93g:58112**
— *see also* **Gabella, W. E.; et al., 93g:70004**
Weeks, David E. (*with* Levine, Raphael D.) Sub-resonant distortion of phase space tori. (English summary) **93c:58191**
Wicklin, F. J. *see* **Marsden, Jerrold Eldon; et al., 93e:58066**
Wiggins, Stephen *see* **Beigie, Darin; et al., 93c:58130** *and* **Kaper, Tasso J., 93m:58100**
Willem, Michel *see* **Omana, W., 93f:58031**
Xu, Ru Jin *see* **Ling, Fu Hua, 93a:70023**
Yakubovich, V. A. Nonoscillation of linear periodic Hamiltonian equations and related problems. (Russian. Russian summary) **93m:34049**
Yamaguchi, Yoshihiro *see* **Tanikawa, Kiyotaka, 93e:58148**
Yu, L. Y. (*with* Parmenter, R. H.) Some new systems that generate a uniform stochastic web. (English summary) **93i:58133**
— *see also* **Parmenter, R. H., 93i:81040**
Zaslavskiĭ, G. M. (*with* Sagdeev, R. Z.; Usikov, D. A.; Chernikov, Aleksandr Antonovich) ★ Слабый хаос и квазирегулярные структуры. (Russian) [Weak chaos and quasiregular patterns] **93a:58127a**
— (*with* Sagdeev, R. Z.; Usikov, D. A.; Chernikov, Aleksandr Antonovich) ★ Weak chaos and quasi-regular patterns. **93a:58127b**
Zehnder, Eduard *see* **Salamon, Dietmar A., 93g:58028** *and* **Giorgilli, Antonio, 93i:58088**
Zhang, Bao Cai *see* **Mou, Wei Hua; et al., 93m:58053**
Zhang, Mei Qing *see* **Qin, Meng Zhao; et al., 93b:65112**
Zhang, Shi Qing The minimal periodic solution of superquadratic convex autonomous Hamiltonian system. **93f:58203**
— Existence of infinitely many periodic solutions of symmetry singular time-dependence Hamiltonian systems.
Zhang, Zhi Fen (*with* Li, Bao Yi) High order Mel′nikov functions and the problem of uniformity in global bifurcation. (English summary) **93i:34070**
Zhu, Da Xin Existence of multiple periodic solutions to a class of asymptotically linear symmetric Hamiltonian systems of equations. (Chinese. Chinese summary) **93m:58092**
Zombro, B. W. *see* **Marsden, Jerrold Eldon; et al., 93e:58066**

70H15 Canonical transformations

Items with secondary classifications in 70H15

Abia, L. (*with* Sanz-Serna, J. M.) Partitioned Runge-Kutta methods for separable Hamiltonian problems. (English summary) **93i:65074**
Bazzani, Armando (*with* Turchetti, Giorgio) Singularities of normal forms and topology of orbits in area-preserving maps. **93b:58126**
Britals, Janis Canonical theory of perturbations using eccentric anomaly as independent variable. (English summary) **93h:70006**
Cariñena, José F. (*with* Gracia-Bondía, José M.; Ibort, Luis A.; López Lacasta, Carlos; Várilly, Joseph C.) Distinguished Hamiltonian theorem for homogeneous symplectic manifolds. **93i:58051**
Goldberg, Joshua N. (*with* Newman, Ezra T.; Rovelli, Carlo) On Hamiltonian systems with first-class constraints. **93d:70028**
Gracia-Bondía, José M. *see* **Cariñena, José F.; et al., 93i:58051**
Gzyl, Henryk Nonunitary representation of canonical transformations and applications to filtering theory. **93e:93062**
Ibort, Luis A. *see* **Cariñena, José F.; et al., 93i:58051**
López Lacasta, Carlos *see* **Cariñena, José F.; et al., 93i:58051**
Newman, Ezra T. *see* **Goldberg, Joshua N.; et al., 93d:70028**
Reginatto, Marcel Transformation of Kepler orbits to oscillator orbits and the Hamilton-Jacobi equation. (English summary) **93i:70011**
Rovelli, Carlo *see* **Goldberg, Joshua N.; et al., 93d:70028**
Sanz-Serna, J. M. *see* **Abia, L., 93i:65074**
Schäfer, Gerhard Reduction of higher derivative Lagrangians. (German summary) **93d:58043**
Turchetti, Giorgio *see* **Bazzani, Armando, 93b:58126**
Várilly, Joseph C. *see* **Cariñena, José F.; et al., 93i:58051**

70H20 Hamilton-Jacobi equations

Items with secondary classifications in 70H20

Baranowicz, Józef (*with* Nowakowski, Andrzej) Generalized canonical formalism with applications. (Russian and Polish summaries) **93e:49043**
Benenti, S. Separation of variables in the geodesic Hamilton-Jacobi equation. **93d:58185**
Denisov, A. A. Solution of the Lagrangian Cauchy problem in the singular case. (Russian. Russian summary) (*see* **93k:00023**)
Elworthy, K. D. *see* **Zhao, H. Z., 93f:35108**
Gabella, W. E. (*with* Ruth, R. D.; Warnock, R. L.) Iterative determination of invariant tori for a time-periodic Hamiltonian with two degrees of freedom. (English summary) **93g:70004**
Güler, Y. Integration of singular systems. (English summary) **93k:70025**
Nowakowski, Andrzej *see* **Baranowicz, Józef, 93e:49043**
Ruth, R. D. *see* **Gabella, W. E.; et al., 93g:70004**
Vujanović, B. D. Application of the Hamilton-Jacobi method to the study of rheo-linear oscillators. **93a:70021**
Warnock, R. L. *see* **Gabella, W. E.; et al., 93g:70004**
Zhao, H. Z. (*with* Elworthy, K. D.) The travelling wave solutions of scalar generalized KPP equations via classical mechanics and stochastic approaches. (English summary) **93f:35108**

70H25 Hamilton's principle

Price, W. G. *see* **Xing, Jing Tang, 93f:70016**
Xing, Jing Tang (*with* Price, W. G.) Some generalized variational principles for conservative holonomic dynamical systems. (English summary) **93f:70016**

Items with secondary classifications in 70H25

Cariñena, José F. (*with* López Lacasta, Carlos) Geometric study of Hamilton's variational principle. **93a:58055**
López Lacasta, Carlos *see* **Cariñena, José F., 93a:58055**

70H30 Other variational principles

Luo, Shao Kai (*with* Mei, Feng Xiang) The principles of least action of variable mass nonholonomic nonconservative system in noninertial reference frames. (Chinese. English and Chinese summaries) **93j:70006**
Mei, Feng Xiang *see* **Luo, Shao Kai, 93j:70006**

Items with secondary classifications in 70H30

Chen, Li Qun (*with* Wang, Tie Guang) A generalized MacMillan equation for controllable variable-mass mechanical systems. (Chinese. English summary) **93c:70018**
Fecko, Marián On a variational principle for the Nambu dynamics. **93a:58058**
Ferrario, Carlo (*with* Passerini, Arianna) Compatibility conditions for gauge transformations. **93e:58044**
Giachetta, Giovanni Jet methods in nonholonomic mechanics. **93c:58070**
Kalaba, Robert (*with* Udwadia, Firdaus E.) On constrained motion. **93i:70014**
Luo, Shao Kai (*with* Zhang, Kong Hui) The generalized Tsenov method for variable mass arbitrary order nonlinear nonholonomic systems in noninertial reference frames. (Chinese. English and Chinese summaries) **93m:70016**
Meiss, J. D. Regular orbits for the stadium billiard. **93a:58065**
— Cantori for the stadium billiard. **93g:58126**
Passerini, Arianna *see* **Ferrario, Carlo, 93e:58044**
Udwadia, Firdaus E. *see* **Kalaba, Robert, 93i:70014**
Wang, Tie Guang *see* **Chen, Li Qun, 93c:70018**
Zhang, Kong Hui *see* **Luo, Shao Kai, 93m:70016**

70H33 Symmetries

Emel′yanova, I. S. ★ Проблема "симметрия-интегралы движения" в аналитической динамике. (Russian. English and Russian summaries) [The "symmetry-integrals of motion" problem in analytical dynamics] **93k:70030**
García-Sucre, M. (*with* Percoco, U.; Núñez, L. A.) An example of a general class of symmetries of Lagrangians and their equations of motion. (French summary) **93e:70009**
Hojman, Sergio A. A new conservation law constructed without using either Lagrangians or Hamiltonians. **93d:70031**
Horwitz, L. P. Dynamical group of the relativistic Kepler problem. (English summary) **93j:70007**
Krause, Jorge Some remarks on the generalized Noether theory of point symmetry transformations of the Lagrangian. **93f:70017**
Lakshmanan, M. (*with* Senthil Velan, M.) Direct integration of generalized Lie or dynamical symmetries of three degrees of freedom nonlinear Hamiltonian systems: integrability and separability. (English summary) **93m:70020**
Leach, P. G. L. Comment on an aspect of a letter of B. K. Shivamoggi and L. Muilenburg: "On Lewis' exact invariant for the linear harmonic oscillator with time-dependent frequency" [Phys. Lett. A **154** (1991), no. 1-2, 24–28; MR 91m:81053]. (English summary) **93g:70017**
(Muilenburg, Lawrence) *see* **Leach, P. G. L., 93g:70017**
Núñez, L. A. *see* **García-Sucre, M.; et al., 93e:70009**
Percoco, U. *see* **García-Sucre, M.; et al., 93e:70009**
Santilli, Ruggero Maria Isotopic liftings of Galilei's relativity for classical interior dynamical systems. **93i:70018**
Senthil Velan, M. *see* **Lakshmanan, M., 93m:70020**

(Shivamoggi, Bhimsen K.) *see* **Leach, P. G. L., 93g:70017**

Items with secondary classifications in 70H33

Aguirre, Manuel (*with* Friedli, C.; Krause, Jorge) SL(3, **R**) as the group of symmetry transformations for all one-dimensional linear systems. III. Equivalent Lagrangian formalisms. **93g:58128**

Almeida, M. A. *see* **Moreira, I. C., 93h:70010**

Bates, Larry Symmetry preserving deformations of the Kepler problem. **93c:70009**

Corona-Galindo, M. G. *see* **González-Acosta, E., 93k:70031**

Dragt, Alex J. *see* **Healy, Liam M.; et al., 93b:70018**

Evans, N. W. Group theory of the Smorodinsky-Winternitz system. **93a:81062**

Ferrario, Carlo (*with* Passerini, Arianna) Dynamical symmetries in constrained systems: a Lagrangian analysis. **93g:58048**

Forest, Etienne Sixth-order Lie group integrators. **93b:70003**

Friedli, C. *see* **Aguirre, Manuel; et al., 93g:58128**

Gaida, R. P. (*with* Tretyak, V. I.; Yaremko, Yu. G.) Center of mass variables in the relativistic Lagrangian mechanics of a system of particles. (Ukrainian. English, Russian and Ukrainian summaries) **93d:70032**

Gjaja, Ivan M. *see* **Healy, Liam M.; et al., 93b:70018**

González-Acosta, E. (*with* Corona-Galindo, M. G.) Noether's theorem and the invariants for dissipative and driven dissipative like systems. (English and Spanish summaries) **93k:70031**

Gorringe, V. M. (*with* Leach, P. G. L.) The first integrals and their Lie algebra of the most general autonomous Hamiltonian of the form $H = T + V$ possessing a Laplace-Runge-Lenz vector. (English summary) **93m:70018**

Gould, Laurence I. Nonlocal generalized angular-momentum balance laws and equations of motion. (English summary) **93h:70008**

Gozzi, E. (*with* Reuter, M.; Thacker, W. D.) Symmetries of the classical path integral on a generalized phase-space manifold. **93e:81063**

— (*with* Reuter, M.; Thacker, W. D.) Erratum: "Symmetries of the classical path integral on a generalized phase-space manifold" [Phys. Rev. D (3) **46** (1992), no. 2, 757–765; MR 93e: 81063].

Gràcia, X. (*with* Pons, J. M.) A Hamiltonian approach to Lagrangian Noether transformations. (English summary) **93k:58092**

Grigore, D. R. Generalized Lagrangian dynamics and Noetherian symmetries. (English summary) **93j:58048**

Guillemin, Victor (*with* Sternberg, Shlomo) ★ Variations on a theme by Kepler. **93a:58071**

Healy, Liam M. (*with* Dragt, Alex J.; Gjaja, Ivan M.) Computation of error effects in nonlinear Hamiltonian systems using Lie algebraic methods. **93b:70018**

Kara, A. H. (*with* Mahomed, F. M.) Equivalent Lagrangians and the solution of some classes of nonlinear equations $\ddot{q} + p(t)\dot{q} + r(t)q = \mu\dot{q}^2q^{-1} + f(t)q^n$. (English summary) **93i:70019**

(Kepler, Johannes) *see* **Guillemin, Victor, 93a:58071**

Koiller, Jair Reduction of some classical nonholonomic systems with symmetry. **93e:70005**

Krause, Jorge *see* **Aguirre, Manuel; et al., 93g:58128**

Lakshmanan, M. (*with* Senthil Velan, M.) Direct integration of generalized Lie symmetries of nonlinear Hamiltonian systems with two degrees of freedom: integrability and separability. **93c:70011**

Lamb, J. S. W. Reversing symmetries in dynamical systems. **93d:58147**

Leach, P. G. L. *see* **Gorringe, V. M., 93m:70018**

Li, Zi Ping Generalized Noether theorems in canonical formalism for field theories and their applications. (English summary) **93j:58038**

Lin, F. J. (*with* Marsden, Jerrold Eldon) Symplectic reduction and topology for applications in classical molecular dynamics. **93c:58072**

Mahomed, F. M. *see* **Kara, A. H., 93i:70019**

Marsden, Jerrold Eldon ★ Lectures on mechanics. **93f:58078**

— *see also* **Lin, F. J., 93c:58072**

Meiss, J. D. Cantori for the stadium billiard. **93g:58126**

Moreira, I. C. (*with* Almeida, M. A.) Noether symmetries and the swinging Atwood machine. (English summary) **93h:70010**

del Olmo, Mariano A. (*with* Rodríguez, Miguel A.; Winternitz, Pavel) Hamilton-Jacobi equations in SU(2, 2) homogeneous spaces. **93a:58148**

Passerini, Arianna *see* **Ferrario, Carlo, 93g:58048**

Pons, J. M. *see* **Gràcia, X., 93k:58092**

Rañada, Manuel F. The theory of equivalent Lagrangians revisited: a symplectic approach. **93a:58067**

— Alternative Lagrangians for central potentials. **93f:70019**

Reuter, M. *see* **Gozzi, E.; et al., 93e:81063**

Ripa, P. A tale of three theorems. (Spanish summary) **93k:76058**

Rodríguez, Miguel A. *see* **del Olmo, Mariano A.; et al., 93a:58148**

Santilli, Ruggero Maria Isotopic liftings of contemporary mathematical structures. **93d:17039a**

— Isotopies of contemporary mathematical structures. I. Isotopies of fields, vector spaces, transformation theory, Lie algebras, analytic mechanics and space-time symmetries. **93d:17039b**

Senthil Velan, M. *see* **Lakshmanan, M., 93c:70011**

Sternberg, Shlomo *see* **Guillemin, Victor, 93a:58071**

Thacker, W. D. *see* **Gozzi, E.; et al., 93e:81063**

Tretyak, V. I. *see* **Gaida, R. P.; et al., 93d:70032**

Winternitz, Pavel *see* **del Olmo, Mariano A.; et al., 93a:58148**

Yaremko, Yu. G. *see* **Gaida, R. P.; et al., 93d:70032**

70H35 Lagrange's equation of motion

Bressan, Aldo Hyper-impulsive motions and controllizable coordinates for Lagrangian systems. (Italian summary) **93m:70021**

Chobanov, Georgi Iv. (*with* Chobanov, Ivan) Fundamental identities of Lagrangean formalism for holonomic mass-point and rigid body systems. (English and Bulgarian summaries) **93m:70022**

Chobanov, Ivan *see* **Chobanov, Georgi Iv., 93m:70022**

Corona-Galindo, M. G. *see* **González-Acosta, E., 93k:70031**

Furta, Stanislav D. Asymptotic trajectories of natural systems under the action of forces of viscous friction. (Russian) (*see* **93e:00015**)

González-Acosta, E. (*with* Corona-Galindo, M. G.) Noether's theorem and the invariants for dissipative and driven dissipative like systems. (English and Spanish summaries) **93k:70031**

Junkins, John L. *see* **Lee, Sangchul, 93h:70012**

Kara, A. H. (*with* Mahomed, F. M.) Equivalent Lagrangians and the solution of some classes of nonlinear equations $\ddot{q} + p(t)\dot{q} + r(t)q = \mu\dot{q}^2q^{-1} + f(t)q^n$. (English summary) **93i:70019**

Lee, Sangchul (*with* Junkins, John L.) Explicit generalization of Lagrange's equations for hybrid coordinate dynamical systems. (English summary) **93h:70012**

Mahomed, F. M. *see* **Kara, A. H., 93i:70019**

Mukhariyamov, R. G. Mechanical systems with program constraints. (Russian) **93f:70018**

Rañada, Manuel F. Alternative Lagrangians for central potentials. **93f:70019**

Tudosie, Constantin Generalization of Lagrange's equations of the first kind. (English summary) **93m:70023**

Items with secondary classifications in 70H35

Ambrosetti, Antonio Remarks on dynamical systems with singular potentials. **93m:58018**

Anastasiei, Mihai (*with* Kawaguchi, Hiroaki) Geometry of multiparametrized Lagrangians. **93m:58038**

Ascher, Uri M. (*with* Petzold, Linda R.) Stability of computational methods for constrained dynamics systems. (English summary) **93i:65068**

Aulestia, Luis *see* **Hojman, Sergio A.; et al., 93e:49052**

Banshchikov, A. V. (*with* Burlakova, L. A.; Irtegov, V. D.; Novikov, M. A.) Algorithms for the qualitative investigation of complex systems. (Russian. English and Ukrainian summaries) **93g:70003**

Baumann, Gerd (*with* Freyberger, M.) Generalized symmetries and integrals of motion for the Hénon-Heiles model. **93b:85001**

Benci, Vieri (*with* Dell'Antonio, Gianfausto; D'Onofrio, Biancamaria) Index theory and stability of periodic solutions of Lagrangian systems. (English and French summaries) **93h:58126**

Bertotti, Maria Letizia Homoclinics for Lagrangian systems on Riemannian manifolds. (English summary) **93m:58040**

Bressan, Aldo (*with* Favretti, Marco) On motions with bursting characters for Lagrangian mechanical systems with a scalar control. I. Existence of a wide class of Lagrangian systems capable of motions with bursting characters. (Italian summary) **93b:93054**

— (*with* Favretti, Marco) On motions with bursting characters for Lagrangian mechanical systems with a scalar control. II. A geodesic property of motions with bursting characters for Lagrangian systems. (Italian summary) **93d:93045**

Burlakova, L. A. *see* **Banshchikov, A. V.; et al., 93g:70003**

Butenin, N. V. (*with* Fufaev, N. A.) ★ Введение в аналитическую механику. (Russian. English and Russian summaries) [Introduction to analytical mechanics] **93i:70001**

Canino, Annamaria Periodic solutions of quadratic Lagrangian systems on p-convex sets. (English and French summaries) **93j:58115**

Cariñena, José F. (*with* López Lacasta, Carlos) Geometric study of Hamilton's variational principle. **93a:58055**

— (*with* López Lacasta, Carlos) The time-evolution operator for higher-order singular Lagrangians. **93d:58049**

Chrastina, Jan On the equivalence of variational problems. I. **93e:58043**

Dell'Antonio, Gianfausto *see* **Benci, Vieri; et al., 93h:58126**

D'Onofrio, Biancamaria *see* **Benci, Vieri; et al., 93h:58126**

Dovletov, A. M. *see* **Dovletov, M.**

Dovletov, M. (*with* Dovletov, A. M.) A method for integrating equations of the dynamics of a variable mass with impulse coupling factors. (Russian)

Emel'yanova, I. S. ★ Проблема "симметрия-интегралы движения" в аналитической динамике. (Russian. English and Russian summaries) [The "symmetry-integrals of motion" problem in analytical dynamics] **93k:70030**

Favretti, Marco *see* **Bressan, Aldo, 93b:93054** *and* **93d:93045**

Ferrario, Carlo (*with* Passerini, Arianna) Dynamical symmetries in constrained systems: a Lagrangian analysis. **93g:58048**

— (*with* Passerini, Arianna) Compatibility conditions for gauge transformations. **93e:58044**

Freyberger, M. *see* **Baumann, Gerd, 93b:85001**

Fufaev, N. A. *see* **Butenin, N. V., 93i:70001**

Fuller, William Roger A discussion of the quasi-Euler-Lagrange equation. **93b:35128**

Gaida, R. P. (*with* Tretyak, V. I.; Yaremko, Yu. G.) Center of mass variables in the relativistic Lagrangian mechanics of a system of particles. (Ukrainian. English, Russian and Ukrainian summaries) **93d:70032**

Gao, Pu Yun (*with* Guo, Zhong Heng) Lagrange equation of another class of nonholonomic systems. (Chinese. English summary) **93d:70022**

García-Sucre, M. (*with* Percoco, U.; Núñez, L. A.) An example of a general class of symmetries of Lagrangians and their equations of motion. (French summary) **93e:70009**

Giannoni, Fabio Bounce trajectories with one bounce point. **93i:58054**

Godunov, S. K. Investigation into stability of almost conservative systems by means of Lyapunov functions. **93b:34063**

Gràcia, X. (*with* Pons, J. M.; Román-Roy, N.) Higher-order Lagrangian systems: geometric structures, dynamics, and constraints. **93a:58061**

— (*with* Pons, J. M.; Román-Roy, N.) Higher-order conditions for singular Lagrangian dynamics. **93d:58052**

— (*with* Pons, J. M.) A Hamiltonian approach to Lagrangian Noether transformations. (English summary) **93k:58092**

Grigore, D. R. On manifest covariance condition in the Lagrangian formalism. (English summary) **93d:58053**

— Generalized Lagrangian dynamics and Noetherian symmetries. (English summary) **93j:58048**

Guo, Zhong Heng *see* **Gao, Pu Yun, 93d:70022**

Henneaux, Marc On the use of auxiliary fields in classical mechanics and in field theory. (English summary) **93i:58039**

Hojman, Sergio A. (*with* Pardo, Francisco; Aulestia, Luis; de Lisa, Francisco) Lagrangians for differential equations of any order. **93e:49052**
Ibort, Luis A. (*with* Marín Solano, J.) A geometric classification of Lagrangian functions and the reduction of evolution space. **93g:58050**
Irtegov, V. D. *see* **Banshchikov, A. V.; et al., 93g:70003**
Kawaguchi, Hiroaki *see* **Anastasiei, Mihai, 93m:58038**
Kozlov, Valerii V. (*with* Treshchëv, D. V.) ★ Биллиарды. (Russian) [Billiards] **93k:58094b**
Leach, P. G. L. Comment on an aspect of a letter of B. K. Shivamoggi and L. Muilenburg: "On Lewis' exact invariant for the linear harmonic oscillator with time-dependent frequency" [Phys. Lett. A **154** (1991), no. 1-2, 24–28; MR 91m:81053]. (English summary) **93g:70017**
de León, Manuel (*with* Rodrigues, Paulo R.) Second-order differential equations and degenerate Lagrangians. (Italian summary) **93b:58054**
— (*with* Mello, Maria Hermínia; Rodrigues, Paulo R.) Reduction of degenerate nonautonomous Lagrangians. (English summary) **93i:58056**
— (*with* Rodrigues, Paulo R.) The inverse problem of Lagrangian dynamics for higher-order differential equations: a geometrical approach. (English summary) **93j:58051**
Lewis, Debra Lagrangian block diagonalization. **93b:58055**
de Lisa, Francisco *see* **Hojman, Sergio A.; et al., 93e:49052**
López, M. C. (*with* Noriega, R. J.; Schifini, C. G.) Equivalence and s-equivalence of vector-tensor Lagrangians. **93e:70007**
López Lacasta, Carlos *see* **Cariñena, José F., 93a:58055** *and* **93d:58049**
Marín Solano, J. *see* **Ibort, Luis A., 93g:58050**
Marle, Charles-Michel Géométrie des systèmes mécaniques à liaisons actives. [Geometry of mechanical systems with active constraints] **93d:58058**
Mello, Maria Hermínia *see* **de León, Manuel; et al., 93i:58056**
Monterde, J. (*with* Muñoz Masqué, J.) Variational problems on graded manifolds. (English summary) **93i:58024**
(Muilenburg, Lawrence) *see* **Leach, P. G. L., 93g:70017**
Muñoz Lecanda, M. C. (*with* Román-Roy, N.) Lagrangian theory for presymplectic systems. (English and French summaries) **93j:58052**
Muñoz Masqué, J. *see* **Monterde, J., 93i:58024**
Noriega, R. J. *see* **López, M. C.; et al., 93e:70007**
Novikov, M. A. *see* **Banshchikov, A. V.; et al., 93g:70003**
Núñez, L. A. *see* **García-Sucre, M.; et al., 93e:70009**
Pardo, Francisco *see* **Hojman, Sergio A.; et al., 93e:49052**
Passerini, Arianna *see* **Ferrario, Carlo, 93e:58044** *and* **93g:58048**
Percoco, U. *see* **García-Sucre, M.; et al., 93e:70009**
Petzold, Linda R. (*with* Potra, Florian A.) ODAE methods for the numerical solution of Euler-Lagrange equations. (English summary) **93h:65094**
— *see also* **Ascher, Uri M., 93i:65068**
Pons, J. M. *see* **Gràcia, X.; et al., 93a:58061**; **93d:58052** *and* **93k:58092**
Potra, Florian A. *see* **Petzold, Linda R., 93h:65094**
Rañada, Manuel F. The theory of equivalent Lagrangians revisited: a symplectic approach. **93a:58067**
— Extended Legendre transformation approach to the time-dependent Hamiltonian formalism. **93e:58071**
Rodrigues, Paulo R. *see* **de León, Manuel, 93b:58054**; **93i:58056** *and* **93j:58051**
Román-Roy, N. *see* **Gràcia, X.; et al., 93a:58061**; **93d:58052** *and* **Muñoz Lecanda, M. C., 93j:58052**
Schäfer, Gerhard Reduction of higher derivative Lagrangians. (German summary) **93d:58043**
Schifini, C. G. *see* **López, M. C.; et al., 93e:70007**
(Shivamoggi, Bhimsen K.) *see* **Leach, P. G. L., 93g:70017**
Sosnitskiĭ, S. P. Hamiltonian action and equilibrium stability of conservative systems. (Russian. Russian summary) **93j:70010**
Szenthe, J. Lagrangians and sprays. **93k:58101**
Terracini, Susanna Multiplicity of periodic solution with prescribed energy to singular dynamical systems. (English and French summaries) **93k:34095**
Treshchëv, D. V. *see* **Kozlov, Valerii V., 93k:58094b**
Tretyak, V. I. *see* **Gaida, R. P.; et al., 93d:70032**
Veselov, A. P. Integrable Lagrangian relations and factorization of matrix polynomials. (Russian) **93b:58081**
Yaremko, Yu. G. *see* **Gaida, R. P.; et al., 93d:70032**

70H40 Relativistic dynamics

Arshansky, R. I. *see* **Zerzion, Daniel; et al., 93b:70020**
Brumberg, V. A. *see* **Jupp, A. H., 93g:70019** *and* **Soffel, Michael, 93g:70020**
Duviryak, A. A. (*with* Klyuchkovskiĭ, Yu. B.) Covariant two-particle light lines in relativistic Hamiltonian mechanics. (Ukrainian. Ukrainian summary)
— (*with* Klyuchkovskiĭ, Yu. B.) Space-time interpretation of relativistic Hamiltonian mechanics of a system of particles. (Ukrainian. English, Russian and Ukrainian summaries) **93g:70018**
Gaida, R. P. (*with* Tretyak, V. I.; Yaremko, Yu. G.) Center of mass variables in the relativistic Lagrangian mechanics of a system of particles. (Ukrainian. English, Russian and Ukrainian summaries) **93d:70032**
Horwitz, L. P. (*with* Schieve, W. C.) Horseshoes in a relativistic Hamiltonian system in $1+1$ dimensions. (English summary) **93d:70033**
— *see also* **Zerzion, Daniel; et al., 93b:70020**
Jupp, A. H. (*with* Brumberg, V. A.) Relativistic effects in the critical inclination problem in artificial satellite theory. **93g:70019**
Kerner, Edward H. Note on the representation of many-particle dynamics as higher-order single-particle dynamics, with a means to relativistic elevation of Newtonian dynamics. **93b:70019**
Klyuchkovskiĭ, Yu. B. *see* **Duviryak, A. A., 93g:70018**
Leĭko, S. G. Extremals of curve-turn functionals of a pseudo-Riemannian space and the trajectories of spinning particles in gravitational fields. (Russian) **93k:70032**
Li, Fu Bin Correction: "Proof of the noninteraction theorem for a system of N relativistic particles in direct interaction" [J. Math. Phys. **31** (1990), no. 6, 1395–1399; MR 92a:70013]. **93f:70020**
Schieve, W. C. *see* **Horwitz, L. P., 93d:70033**
Soffel, Michael (*with* Brumberg, V. A.) Relativistic reference frames including time scales: questions and answers. **93g:70020**
Tretyak, V. I. *see* **Gaida, R. P.; et al., 93d:70032**
Yaremko, Yu. G. *see* **Gaida, R. P.; et al., 93d:70032**
Zerzion, Daniel (*with* Horwitz, L. P.; Arshansky, R. I.) Classical mechanics of special relativity in a Riemannian space-time. **93b:70020**

Items with secondary classifications in 70H40

Akhiezer, A. I. (*with* Shul'ga, N. F.) Quasiclassical theory of radiation emission from high-energy particles in an external field and the problem of boundary conditions. (Russian) **93g:78012**
Arigazin, A. K. (*with* Jannussis, A.; Lopez, D. F.; Nishioka, M.; Veljanoski, B.) ★ Santilli's Lie-isotopic generalization of Galilei's and Einstein's relativities. **93j:17056**
Blaksley Bazterrica, Enrique J. Unified theory of motion: a new mechanics. **93c:70003**
Carbonaro, Bruno The mathematical structure of the special theory of relativity. (Italian summary) **93f:83003**
Casasayas, Josefina *see* **Nunes, Ana; et al., 93k:70011**
Dagach, Luis A. *see* **Dagach, Sergio L., 93m:83068**
Dagach, Sergio L. (*with* Dagach, Luis A.) The foundation of a theory of moving bodies in a locally nonrelativistic Riemannian space. (English summary) **93m:83068**
Dombrowski, Peter (*with* Zitterbarth, Jürgen) On the planetary motion in the 3-dim. standard spaces M^3_κ of constant curvature $\kappa \in \mathbf{R}$. **93c:53057**
Gambí, J. M. (*with* Romero, P.; San Miguel, A.; Vicente Ruiz, Francisco) Fermi coordinate transformation under baseline change in relativistic celestial mechanics. **93e:70004**
— *see also* **San Miguel, A.; et al., 93a:83006**
Garbaczewski, Piotr Nelson's stochastic mechanics as the problem of random flights and rotations. **93b:81034**
Henneaux, Marc On the use of auxiliary fields in classical mechanics and in field theory. (English summary) **93i:58039**
Horwitz, L. P. Dynamical group of the relativistic Kepler problem. (English summary) **93j:70007**
Jannussis, A. *see* **Arigazin, A. K.; et al., 93j:17056**
Llibre, Jaume *see* **Nunes, Ana; et al., 93k:70011**
Lopez, D. F. *see* **Arigazin, A. K.; et al., 93j:17056**
Nishioka, M. *see* **Arigazin, A. K.; et al., 93j:17056**
Nunes, Ana (*with* Casasayas, Josefina; Llibre, Jaume) A perturbation of the relativistic Kepler problem. (English summary) **93k:70011**
Romero, P. *see* **Gambí, J. M.; et al., 93e:70004**
San Miguel, A. (*with* Vicente Ruiz, Francisco; Gambí, J. M.) Geometry of geodesic triangles and relation between moving frames on time-like curves. (Spanish. English summary) **93a:83006**
— *see also* **Gambí, J. M.; et al., 93e:70004**
Shul'ga, N. F. *see* **Akhiezer, A. I., 93g:78012**
Veljanoski, B. *see* **Arigazin, A. K.; et al., 93j:17056**
Vicente Ruiz, Francisco *see* **San Miguel, A.; et al., 93a:83006** *and* **Gambí, J. M.; et al., 93e:70004**
Zitterbarth, Jürgen Some remarks on the motion of a rigid body in a space of constant curvature without external forces. **93c:70005**
— *see also* **Dombrowski, Peter, 93c:53057**

70H99 None of the above, but in this section

Casas, F. (*with* Oteo, J. A.; Ros, J.) Geometric factors in the adiabatic evolution of classical systems. **93c:70012**
Hughes, Richard J. On Feynman's proof of the Maxwell equations. **93d:70034**
Oteo, J. A. *see* **Casas, F.; et al., 93c:70012**
Ros, J. *see* **Casas, F.; et al., 93c:70012**
Yu, Wen Duo Variational perturbation methods. (Chinese) **93g:70021**
Zhou, Xiao Lin Some applications of the virial theorem. (Chinese. English summary)

Items with secondary classifications in 70H99

Anderson, James L. Multiple time scale methods for adiabatic systems. (English summary) **93h:81036**
Breedveld, P. C. *see* **Maschke, B. M.; et al., 93k:70022**
Creagh, Stephen C. (*with* Littlejohn, Robert G.) Semiclassical trace formulae for systems with nonabelian symmetry. **93b:81067**
Datta, Nilanjana (*with* Ghosh, Gautam) Berry's phase for anharmonic oscillators. (English summary) **93j:81013**
Fecko, Marián On geometrical formulation of the Nambu dynamics. **93a:58057**
Ghosh, Gautam *see* **Datta, Nilanjana, 93j:81013**
Guo, Zhong Heng (*with* Wang, Shu Xun) Dynamics of unilateral systems on a finite-dimensional Riemannian manifold. **93e:58061**
Kadianakis, N. Affine connections and frames of reference in classical mechanics. **93f:70013**
Littlejohn, Robert G. *see* **Creagh, Stephen C., 93b:81067**
Maschke, B. M. (*with* van der Schaft, A. J.; Breedveld, P. C.) An intrinsic Hamiltonian formulation of network dynamics: nonstandard Poisson structures and gyrators. (English summary) **93k:70022**
Mimura, Fumitake (*with* Nôno, Takayuki) Conservation laws of one-dimensional nonconservative motions. **93k:34028**
Nirov, Kh. S. (*with* Pyatov, P. N.; Razumov, A. V.) Gauge invariance and constraints: open gauge algebras. (English summary) **93k:58099**
Nôno, Takayuki *see* **Mimura, Fumitake, 93k:34028**
Pyatov, P. N. *see* **Nirov, Kh. S.; et al., 93k:58099**
Razumov, A. V. *see* **Nirov, Kh. S.; et al., 93k:58099**
Santilli, Ruggero Maria Isotopic liftings of Galilei's relativity for classical interior dynamical systems. **93i:70018**
van der Schaft, A. J. *see* **Maschke, B. M.; et al., 93k:70022**

Śniatycki, Jędrzej Hamiltonian constraints, the Jacobi principle and gravity. **93c:83011**
Wang, Shu Xun *see* **Guo, Zhong Heng, 93e:58061**
Wei, Bai Rong Differential forms and integral invariants in classical mechanics. (Chinese. English and Chinese summaries) **93k:70029**

70Jxx Linear vibration theory [see also 73D30]

Items with secondary classifications in 70Jxx

Cartmell, Matthew ★ Introduction to linear, parametric and nonlinear vibrations. **93b:70001**
Medvedev, V. I. *see* **Migulin, V. V.; et al., 93a:34001**
Migulin, V. V. (*with* Medvedev, V. I.; Mustel′, E. R.; Parygin, V. N.) ★ Fondements de la théorie des oscillations. (French) [Basic theory of oscillations] **93a:34001**
Mustel′, E. R. *see* **Migulin, V. V.; et al., 93a:34001**
Parygin, V. N. *see* **Migulin, V. V.; et al., 93a:34001**
(Platonov, Valéri) *see* **Migulin, V. V.; et al., 93a:34001**

70J05 Finite degree of freedom systems

Items with secondary classifications in 70J05

Aguirre, Manuel (*with* Friedli, C.; Krause, Jorge) SL(3, **R**) as the group of symmetry transformations for all one-dimensional linear systems. III. Equivalent Lagrangian formalisms. **93g:58128**
Filimonov, A. M. Some unexpected results on the classical problem of vibrations of the string with N beads. The case of multiple frequencies. (English and French summaries) **93i:70003**
Friedli, C. *see* **Aguirre, Manuel; et al., 93g:58128**
Krause, Jorge *see* **Aguirre, Manuel; et al., 93g:58128**

70J10 Modal analysis

Items with secondary classifications in 70J10

Ignat′ev, V. A. (*with* Ignat′eva, O. M.) Solution of a partial eigenvalue and eigenvector problem by means of a method of the successive condensation of subsystems. (Russian) (*see* **93k:73001**)
Ignat′eva, O. M. *see* **Ignat′ev, V. A., (93k:73001)**

70J25 Stability

Barkwell, Lawrence (*with* Lancaster, Peter) Overdamped and gyroscopic vibrating systems. (English summary) **93f:70021**
Kliem, W. R. Symmetrizable systems in mechanics and control theory. (English summary) **93d:70035**
Lancaster, Peter *see* **Barkwell, Lawrence, 93f:70021**

Items with secondary classifications in 70J25

Bratus′, A. S. (*with* Myshkis, A. D.) On the effect of small velocity forces on the stability of the equilibrium of a linear nonconservative system. (Russian) (*see* **93f:34004**)
Godunov, S. K. Investigation into stability of almost conservative systems by means of Lyapunov functions. **93b:34063**
Myshkis, A. D. *see* **Bratus′, A. S., (93f:34004)**

70J30 Free motions

Al-Maaitah, A. A. *see* **Antone, T. A., 93f:70022**
Antone, T. A. (*with* Al-Maaitah, A. A.) Analytical solutions to classes of linear oscillator equations with time varying frequencies. (English summary) **93f:70022**

70J35 Forced motions

Zhuravlëv, V. F. Particular directions in the configuration space of linear oscillatory systems. (Russian) **93b:70021**

Items with secondary classifications in 70J35

Levit-skii, N. I. ★ Теория механизмов и машин. (Russian) [Theory of mechanisms and machines] **93a:70001**

70J99 None of the above, but in this section

Yang, B. Eigenvalue inclusion principles for discrete gyroscopic systems. **93d:70036**
— Eigenvalue inclusion principles for distributed gyroscopic systems. (English summary) **93i:70020**

Items with secondary classifications in 70J99

Feng, Zhen Dong *see* **Lü, Zhen Hua, 93c:15012**
Gladwell, G. M. L. (*with* Zhu, Ben Ren) Inverse problems for multidimensional vibrating systems. (English summary) **93m:73023**
Knowles, James K. On a minimization problem associated with linear dynamical systems. **93a:93036**
Lü, Zhen Hua (*with* Feng, Zhen Dong) Perturbation method for reanalysis of the matrix singular value decomposition. (Chinese. English summary) **93c:15012**
Pustyl′nikov, L. D. The spectrum of a discrete inhomogeneous wave equation, and oscillations of a discrete string. (Russian. Russian summary) **93f:34017**
Yu, De Jie (*with* Zhu, Guang Han) A unified derivation method for matrix-type modification formulas of dynamical models. (Chinese. English and Chinese summaries) **93i:73040**
Zhu, Ben Ren *see* **Gladwell, G. M. L., 93m:73023**
Zhu, Guang Han *see* **Yu, De Jie, 93i:73040**

70Kxx Nonlinear motions [see also 34Cxx, 58Fxx, 73D35, 73K12]

Items with secondary classifications in 70Kxx

Awrejcewicz, Jan ★ Bifurcation and chaos in coupled oscillators. **93f:58144**
Filippov, A. T. ★ Многоликий солитон. (Russian) [The many faces of the soliton] **93e:35093**
Grimshaw, R. H. J. ★ Nonlinear ordinary differential equations. **93c:34002**
Guckenheimer, John (*with* Holmes, Philip J.) ★ Nonlinear oscillations, dynamical systems, and bifurcations of vector fields. **93e:58046**
Hale, Jack K. ★ Oscillations in nonlinear systems. (English. English summary) **93j:34047**
Holmes, Philip J. *see* **Guckenheimer, John, 93e:58046**
Medvedev, V. I. *see* **Migulin, V. V.; et al., 93a:34001**
Migulin, V. V. (*with* Medvedev, V. I.; Mustel′, E. R.; Parygin, V. N.) ★ Fondements de la théorie des oscillations. (French) [Basic theory of oscillations] **93a:34001**
Mustel′, E. R. *see* **Migulin, V. V.; et al., 93a:34001**
Parygin, V. N. *see* **Migulin, V. V.; et al., 93a:34001**
(Platonov, Valéri) *see* **Migulin, V. V.; et al., 93a:34001**
(Schiehlen, W.) *see* **Nonlinear dynamics of engineering systems, 93e:73022**
Stoker, J. J. ★ Nonlinear vibrations in mechanical and electrical systems. **93c:34084**
(Thompson, J. M. T.) *see* **Nonlinear dynamics of engineering systems, 93e:73022**

Items listed otherwise than by author

Nonlinear dynamics of engineering systems ★ Nonlinear dynamics of engineering systems. **93e:73022**

70K05 Phase plane analysis

Bravo Yuste, Santos "Cubication" of nonlinear oscillators using the principle of harmonic balance. **93c:70013**
Vujanović, B. D. Application of the Hamilton-Jacobi method to the study of rheo-linear oscillators. **93a:70021**

Items with secondary classifications in 70K05

Ambrosetti, Antonio (*with* Coti Zelati, Vittorio) Multiplicité des orbites homoclines pour des systèmes conservatifs. (English summary) [Multiplicity of homoclinic orbits for a class of conservative systems] **93c:58041**
Coti Zelati, Vittorio *see* **Ambrosetti, Antonio, 93c:58041**
Huang, Hsin Fêng Analysis of large deformation of loading [a loaded] cantilever. **93d:73044**
Mendonça, J. T. *see* **Oliveira e Silva, L., 93h:70022**
Oliveira e Silva, L. (*with* Mendonça, J. T.) Asymmetric pendulum. (English summary) **93h:70022**

70K10 Limit cycles

Items with secondary classifications in 70K10

Díaz Bejarano, José *see* **Garcia-Margallo, J., 93g:34053**
Garcia-Margallo, J. (*with* Díaz Bejarano, José) The limit cycles of the generalized Rayleigh-Liénard oscillator. (English summary) **93g:34053**
Gorringe, V. M. *see* **Moremedi, G. M.; et al., 93k:34080**
Hirano, Masaki On the uniqueness of the periodic orbit of Liénard equation. **93a:34037**
Mason, D. P. *see* **Moremedi, G. M.; et al., 93k:34080**
Matthews, Paul C. (*with* Mirollo, Renato E.; Strogatz, Steven H.) Dynamics of a large system of coupled nonlinear oscillators. **93c:34083**
Mirollo, Renato E. *see* **Matthews, Paul C.; et al., 93c:34083**
Moremedi, G. M. (*with* Mason, D. P.; Gorringe, V. M.) On the limit cycle of a generalized van der Pol equation. (English summary) **93k:34080**
Smith, Peter² (*with* Yorke, Jennifer M. E.) A dual perturbation series analysis of homoclinic bifurcation for autonomous systems. (English, German and Russian summaries) **93e:58164**
Strogatz, Steven H. *see* **Matthews, Paul C.; et al., 93c:34083**
Yorke, Jennifer M. E. *see* **Smith, Peter², 93e:58164**

70K15 Lyapunov theorems

Items with secondary classifications in 70K15

Agafonov, S. A. Stability of nonconservative mechanical systems. (Russian) **93h:70013**
(Barrett, J. F.) *see* **Lyapunov, A. M., 93e:01035**
(Fuller, A. T.) *see* **Lyapunov, A. M., 93e:01035**
Furta, Stanislav D. On the instability of "folded" equilibria of a flexible nonstretchable thread attached to the satellite in a circular orbit. **93b:70029**
Lyapunov, A. M. The general problem of the stability of motion. **93e:01035**
(Smirnov, V. I.) *see* **Lyapunov, A. M., 93e:01035**

Items listed otherwise than by author

Bibliography:
Lyapunov, A. M. *see* **Lyapunov, A. M., 93e:01035**
Biography:
Lyapunov, A. M. *see* **Lyapunov, A. M., 93e:01035**

70K20 Stability

Agafonov, S. A. Stability of nonconservative mechanical systems. (Russian) **93h:70013**
— The stability of the motion of nonconservative mechanical systems. (Russian. Russian summary) **93f:70023**
Blackburn, James A. (*with* Smith, H. J. T.; Grønbech-Jensen, Niels) Stability and Hopf bifurcations in an inverted pendulum. (English summary) **93h:70014**

— *see also* **Smith, H. J. T., 93h:70015**
Bulatović, R. On the instability of the state of equilibrium for analytic conservative systems.
Cantarelli, Giancarlo Stabilization of the equilibrium of holonomic systems by means of time-dependent dissipative forces. (Italian. English summary) **93f:70024**
Furta, Stanislav D. Asymptotic trajectories of mechanical systems and the problem of the inversion of the Routh theorem on stability of equilibrium. (Russian) (*see* **92f:00018**)
Grønbech-Jensen, Niels *see* **Blackburn, James A.; et al., 93h:70014**
Khaitin, Arièl A formulation of a problem on the stability of motion based on the virtual power equation. (Russian. English summary) **93k:70033**
Kounadis, A. N. On the paradox of the destabilizing effect of damping in nonconservative systems. (English summary) **93g:70022**
Kunitsyn, A. L. (*with* Turyakbaev, A. A.) Stability of Hamiltonian systems under fourth-order multiple resonance. (Russian) **93j:70008**
Loseva, N. N. On the stability of a mechanical system with incomplete dissipation of energy. (Russian) **93a:70022**
Loshchinin, N. V. An algorithm for determining stable and unstable periodic regimes of motion of a machine aggregate with a three-phase asynchronous motor. (Russian) (*see* **93b:34003**)
Maddocks, John H. On the stability of relative equilibria. **93g:70023**
Martynyuk, A. A. *see* **Vujičić, Veljko A., 93g:70025**
Peiffer, Karl A remark on the stability of steady state motions. **93d:70037**
— Inversion of the Lagrange-Dirichlet theorem. (Russian) **93d:70038**
Rapoport, L. B. Stability of equilibrium of systems with unilateral constraints, and the sign-definiteness of a pencil of quadratic forms in a cone. (Russian. Russian summary) **93g:70024**
Smith, H. J. T. (*with* Blackburn, James A.) Experimental study of an inverted pendulum. (English summary) **93h:70015**
— *see also* **Blackburn, James A.; et al., 93h:70014**
Sosnitskii, S. P. On the stability of the equilibrium of holonomic systems. (Russian. Russian summary) **93i:70021**
— Equilibrium instability of natural systems. (Russian) **93j:70009**
— Hamiltonian action and equilibrium stability of conservative systems. (Russian. Russian summary) **93j:70010**
— Equilibrium stability for conservative systems. (Russian) **93d:70039**
Thái, V. N. On the behavior of a reversible mechanical system on the boundary of the region of stability. (Russian) **93c:70014**
Turyakbaev, A. A. *see* **Kunitsyn, A. L., 93j:70008**
Vujičić, Veljko A. (*with* Martynyuk, A. A.) Practical stability of holonomic systems. (Russian. English and Russian summaries) **93g:70025**
— Practical stability of equilibrium and motion of mechanical systems. (Russian. English and Ukrainian summaries) **93k:70034**

Items with secondary classifications in 70K20

Aeyels, Dirk On stabilization by means of the energy-Casimir method. (English summary) **93f:70029**
Andres, Ján Note to a certain third-order nonlinear differential equation related to the problem of Littlewood. (English summary) **93g:34050**
Antonova, N. A. Application of a frequency stabilization criterion for investigating the dynamics of an autogenerator. (Russian. Russian summary) (*see* **93m:00034**)
Banshchikov, A. V. (*with* Burlakova, L. A.; Irtegov, V. D.; Novikov, M. A.) Algorithms for the qualitative investigation of complex systems. (Russian. English and Ukrainian summaries) **93g:70003**
(Barrett, J. F.) *see* **Lyapunov, A. M., 93e:01035**
Barts, B. I. (*with* Virchenko, Yu. P.; Moiseev, S. S.) Stability and stochastic parametric resonance of an oscillator with multiplicative noise. (Russian. English, Russian and Ukrainian summaries) **93g:70027**
Batalova, Z. S. (*with* Belyakova, G. V.; Ezhevskaya, N. A.) On the stability of nonlinear nonautonomous oscillators. (Russian) **93e:34075**
Belyakova, G. V. *see* **Batalova, Z. S.; et al., 93e:34075**
Bolgrabskaya, I. A. *see* **Savchenko, A. Ya.; et al., 93d:70011**
Bryant, Peter J. Chaotic breakdown of a periodically forced, weakly damped pendulum. (English summary) **93f:70025**
Bucher, Christian G. Sample stability of multi-degree-of-freedom systems. (English summary) **93f:70027**
Burlakova, L. A. *see* **Banshchikov, A. V.; et al., 93g:70003**
Cao, Zhen Zhong A generalization and corollary of the necessary and sufficient theorem for almost periodic recurrent motions $f(p, t)$. (Chinese. English summary) **93f:34069**
Capodanno, Pierre Sur la stabilité d'un mouvement particulier d'un solide se déplaçant dans un fluide et possédant une cavité partiellement remplie de liquide. (English summary) [On the stability of a particular motion in a fluid of a solid containing a cavity partially filled with liquid] **93i:76018**
Carstensen, Carsten (*with* Wriggers, P.) On perturbation behaviour in nonlinear dynamics. (English summary) **93k:73056**
Cartmell, Matthew ★ Introduction to linear, parametric and nonlinear vibrations. **93b:70001**
Celletti, Alessandra (*with* Giorgilli, Antonio) On the stability of the Lagrangian points in the spatial restricted problem of three bodies. **93a:70007**
Chaikin, S. V. Relative equilibrium positions on a circular orbit of a flexible satellite and their stability. (Russian. Russian summary) **93g:70030**
Dong, Zhi Ming (*with* Yang, Hai Xing) Stability of a Chaplygin sphere rolling with sliding on a horizontal plane with viscous friction. (Chinese. English and Chinese summaries) **93e:70001**
Dunskaya, N. V. Lyapunov functions in problems of the design of a control for mechanical systems by the objective potential method. (Russian. Russian summary) (*see* **93m:93005**)
Ezhevskaya, N. A. *see* **Batalova, Z. S.; et al., 93e:34075**
Fliegner, Thomas *see* **Steigenberger, Joachim, 93i:70007**
(Fuller, A. T.) *see* **Lyapunov, A. M., 93e:01035**
Furta, Stanislav D. Asymptotic trajectories of natural systems under the action of forces of viscous friction. (Russian) (*see* **93e:00015**)
Giorgilli, Antonio *see* **Celletti, Alessandra, 93a:70007**
Gorr, G. V. *see* **Varkhalev, Yu. P., 93m:70010**
Guran, A. Chaotic motion of a Kelvin type gyrostat in a circular orbit. (English summary)
Hatvani, L. On the stability of the solutions of ordinary differential equations with mechanical applications. (Hungarian. English summary) **93f:34082**
— Nonlinear oscillation with large damping. (English summary) **93i:34093**
Irtegov, V. D. *see* **Banshchikov, A. V.; et al., 93g:70003**
Issa, Salem Abdalla *see* **Kovalev, A. M.**
Kalinnikov, V. G. Active damping of oscillations of a rotating linkage. (Russian. Russian summary) **93k:73059**
Kholostova, O. V. On the stability of a particular motion of a rigid body with an elastoviscous membrane on a circular orbit. (Russian) **93d:70012**
Kim, Young B. (*with* Noah, Sherif T.) Periodic response and crisis behavior for a system with piecewise-smooth nonlinearities. (English summary) **93f:70026**
Kirpichnikov, S. N. On the second type of steady motions of two gravitating bodies: one axisymmetric and one spherically symmetric. (Russian. English and Russian summaries) **93m:70012**
Koliopulos, P. K. (*with* Langley, R. S.) Improved stability analysis of the response of a Duffing oscillator under filtered white noise. (English summary) **93k:70037**
Kononykhin, G. A. *see* **Savchenko, A. Ya.; et al., 93d:70011**
Kounadis, A. N. (*with* Simitses, G. J.) Local (classical) and global bifurcations in nonlinear, nongradient autonomous dissipative structural systems. (English summary) **93m:73024**
— *see also* **Mahrenholtz, O., 93m:73025**
Kovalenko, N. V. (*with* Shepelenko, O. V.) The effect of arbitrary rigidity in a hinge on the stabilization of a resting Lagrange gyroscope by a second rotating gyroscope. (Russian. Russian summary)
Kovalev, A. M. (*with* Issa, Salem Abdalla) Stabilization of the uniform motions of a rigid body about the principal axis. (Russian. Russian and Ukrainian summaries)
Krasil'nikov, P. S. (*with* Thái, V. N.) Reversible systems. Stability at resonance 1:1. (Russian. Russian summary) **93m:34068**
Kunitsyn, A. L. (*with* Matveev, M. V.) On the stability of a class of reversible systems. (Russian) **93b:34064**
Langley, R. S. *see* **Koliopulos, P. K., 93k:70037**
Lewis, Debra Lagrangian block diagonalization. **93b:58055**
Lewis, Donald Cain (*with* Ratiu, Tudor S.; Simo, Juan C.; Marsden, Jerrold Eldon) The heavy top: a geometric treatment. **93b:70006**
Lyapunov, A. M. The general problem of the stability of motion. **93e:01035**
Mahrenholtz, O. (*with* Kounadis, A. N.) On the relation of static to dynamic bifurcation in nonlinear autonomous dissipative or nondissipative structural systems. (English and German summaries) **93m:73025**
Marsden, Jerrold Eldon *see* **Lewis, Donald Cain; et al., 93b:70006**
Matveev, M. V. *see* **Kunitsyn, A. L., 93b:34064**
McCartin, Brian J. An alternative analysis of Duffing's equation. (English summary) **93e:34050**
Moiseev, S. S. *see* **Barts, B. I.; et al., 93g:70027**
Mosiyash, T. A. Stabilization of a resting Lagrange gyroscope by a second rotating balanced gyroscope. (Russian. Russian summary)
Nakamura, Takashi (*with* Yoshida, Junzo) Hill stability of the planar three-body problem: general and restricted cases. (English summary) **93g:70011**
Noah, Sherif T. *see* **Kim, Young B., 93f:70026**
Nocilla, Silvio Oscillations, stability and chaos. (Italian. English summary) **93c:58144**
Nosyreva, E. P. Sufficient conditions for the existence of asymptotic pendulum motions of a heavy rigid body with a fixed point. (Russian. Russian summary) **93m:70008**
Novikov, M. A. *see* **Banshchikov, A. V.; et al., 93g:70003**
Onishchenko, S. M. Solution of the navigation problem (SINS) by the second Lyapunov problem under conditions of uncertainty. (Russian. Russian summary) **93k:70039**
Patrick, George W. Relative equilibria in Hamiltonian systems: the dynamic interpretation of nonlinear stability on a reduced phase space. **93e:58070**
Polotskii, V. N. Stabilization and control of the spectrum of mechanical systems with incomplete information about the state. (Russian. Russian summary) (*see* **93m:93005**)
Puta, Mircea A new proof of a theorem due to Aeyels and Szafranski. (English summary) **93k:93097**
Ratiu, Tudor S. *see* **Lewis, Donald Cain; et al., 93b:70006**
Salvadori, L. (*with* Visentin, F.) On conditional total stability in holonomic mechanical systems. (Italian. English and Italian summaries) **93j:34079**
Samson, Claude Velocity and torque feedback control of a nonholonomic cart. (English summary) **93g:70032**
Savchenko, A. Ya. (*with* Bolgrabskaya, I. A.; Kononykhin, G. A.) ★ Устойчивость движения систем связанных твердых тел. (Russian) [Stability of motion of systems of coupled rigid bodies] **93d:70011**
Shepelenko, O. V. *see* **Kovalenko, N. V.**
Simitses, G. J. *see* **Kounadis, A. N., 93m:73024**
Simo, Juan C. *see* **Lewis, Donald Cain; et al., 93b:70006**
(Smirnov, V. I.) *see* **Lyapunov, A. M., 93e:01035**
Sosnitskii, S. P. Poisson stability of reversible systems. (Russian. Russian summary) **93m:34071**
Steigenberger, Joachim (*with* Fliegner, Thomas) Stability of a disturbance decoupled rigid body. (English summary) **93i:70007**
Storozhenko, V. A. (*with* Temchenko, M. E.) On the stability of the rotation of a dynamically asymmetric gyroscope with a special damping device. (Russian. Russian summary) (*see* **93m:00027**)
Temchenko, M. E. *see* **Storozhenko, V. A., (93m:00027)**
Thái, V. N. *see* **Krasil'nikov, P. S., 93m:34068**
Thylwe, Karl-Erik Exact quenching phenomenon of undamped driven Helmholtz and Duffing oscillators. (English summary) **93k:70035**
Varkhalev, Yu. P. (*with* Gorr, G. V.) The first Lyapunov method in the study of asymptotic motions in the dynamics of a rigid body. (Russian. Russian summary) **93m:70010**
Vidyakin, V. V. Sufficient conditions for stability of the regular motion of two perfectly rigid bodies. (Russian) **93f:70006**
Virchenko, Yu. P. *see* **Barts, B. I.; et al., 93g:70027**
Visentin, F. *see* **Salvadori, L., 93j:34079**

Wriggers, P. *see* **Carstensen, Carsten, 93k:73056**
Yang, Hai Xing *see* **Dong, Zhi Ming, 93e:70001**
Yoshida, Junzo *see* **Nakamura, Takashi, 93g:70011**
Zenkov, D. V. On a problem of Routh. (Russian) **93i:70008**
Zhang, Shu Shun The theorem of the stability of linear nonautonomous systems under the frequently-acting perturbation and its application in the stability analysis of robot. (Chinese. English summary) **93e:34070**

Items listed otherwise than by author

Bibliography:
Lyapunov, A. M. *see* **Lyapunov, A. M., 93e:01035**
Biography:
Lyapunov, A. M. *see* **Lyapunov, A. M., 93e:01035**

70K25 Free motions

Vakakis, Alexander F. Nonsimilar normal oscillations in a strongly nonlinear discrete system. (English summary) **93h:70016**

Items with secondary classifications in 70K25

Cetinkaya, Cetin *see* **Vakakis, Alexander F., 93m:34054**
Vakakis, Alexander F. (*with* Cetinkaya, Cetin) Mode localization in a class of multidegree-of-freedom nonlinear systems with cyclic symmetry. (English summary) **93m:34054**

70K28 Parametric resonances

Ortega, Rafael Nonlinear aspects of parametric resonance. (Spanish) (*see* **93k:00042**)

Items with secondary classifications in 70K28

Barts, B. I. (*with* Virchenko, Yu. P.; Moiseev, S. S.) Stability and stochastic parametric resonance of an oscillator with multiplicative noise. (Russian. English, Russian and Ukrainian summaries) **93g:70027**
Cartmell, Matthew ★ Introduction to linear, parametric and nonlinear vibrations. **93b:70001**
Lamarque, C.-H. (*with* Stoffel, A.) Parametric resonance with a nonlinear term: comparison of averaging and the normal form method using a simple example. (English summary) **93i:34065**
Moiseev, S. S. *see* **Barts, B. I.; et al., 93g:70027**
Soliman, Mohamed S. (*with* Thompson, J. M. T.) Indeterminate sub-critical bifurcations in parametric resonance. (English summary) **93h:34058**
Stoffel, A. *see* **Lamarque, C.-H., 93i:34065**
Thompson, J. M. T. *see* **Soliman, Mohamed S., 93h:34058**
Tondl, Aleš A contribution to the analysis of autoparametric systems. (English summary) **93m:34053**
Veselov, A. P. Parametric resonance and geodesics on an ellipsoid. (Russian) **93h:58062**
Virchenko, Yu. P. *see* **Barts, B. I.; et al., 93g:70027**

70K30 Nonlinear resonances

Items with secondary classifications in 70K30

Bosley, D. L. (*with* Kevorkian, J.) Adiabatic invariance and transient resonance in very slowly varying oscillatory Hamiltonian systems. **93c:34081**
Chapman, P. B. The transition through resonance of a nonlinear nonautonomous system. **93g:34052**
Chicone, Carmen Bifurcations of nonlinear oscillations and frequency entrainment near resonance. (English summary) **93h:58109**
Dmitriev, A. S. (*with* Komlev, U. A.; Turaev, D. V.) Bifurcation phenomena in the 1 : 1 resonant horn for the forced van der Pol-Duffing equation. **93g:34060**
El-Bassiouny, A. F. *see* **Elnaggar, A. M., 93i:70022**
Elnaggar, A. M. (*with* El-Bassiouny, A. F.) Response of self-excited three-degree-of-freedom systems to multifrequency excitations. (English summary) **93i:70022**
Ghil, M. (*with* Wolansky, Gershon) Non-Hamiltonian perturbations of integrable systems and resonance trapping. **93g:34066**
Kevorkian, J. *see* **Bosley, D. L., 93c:34081**
Komlev, U. A. *see* **Dmitriev, A. S.; et al., 93g:34060**
Lau, S. L. (*with* Xu, Zhao) On internal resonance of nonlinear vibrating systems with many degrees of freedom. (Chinese. English summary) **93f:34061**
Nikitina, N. V. Separation of motions in resonance systems with constant frequencies. (Russian. English and Ukrainian summaries) **93h:34071**
Perko, L. M. Mel'nikov's method, stochastic layers and nonintegrability of a perturbed Duffing-oscillator. (English summary) **93i:34066**
Soliman, Mohamed S. (*with* Thompson, J. M. T.) Indeterminate sub-critical bifurcations in parametric resonance. (English summary) **93h:34058**
Thompson, J. M. T. *see* **Soliman, Mohamed S., 93h:34058**
Turaev, D. V. *see* **Dmitriev, A. S.; et al., 93g:34060**
Wolansky, Gershon *see* **Ghil, M., 93g:34066**
Xu, Zhao *see* **Lau, S. L., 93f:34061**

70K40 Forced motions

Caughey, T. K. *see* **Vakakis, Alexander F., 93d:70040**
El-Bassiouny, A. F. *see* **Elnaggar, A. M., 93i:70022**
Elnaggar, A. M. (*with* El-Bassiouny, A. F.) Response of self-excited three-degree-of-freedom systems to multifrequency excitations. (English summary) **93i:70022**
Lau, S. L. (*with* Zhang, W.-S.) Nonlinear vibrations of piecewise-linear systems by incremental harmonic balance method. (English summary) **93e:70010**
Nordmark, A. B. Effects due to low velocity impact in mechanical oscillators. (English summary) **93h:70017**
Soliman, Mohamed S. (*with* Thompson, J. M. T.) The effect of damping on the steady state and basin bifurcation patterns of a nonlinear mechanical oscillator. **93b:70022**
Sung, C. K. (*with* Yu, W. S.) Dynamics of a harmonically excited impact damper: bifurcations and chaotic motion. (English summary) **93h:70018**
Thompson, J. M. T. *see* **Soliman, Mohamed S., 93b:70022**
Thylwe, Karl-Erik Exact quenching phenomenon of undamped driven Helmholtz and Duffing oscillators. (English summary) **93k:70035**
Vakakis, Alexander F. (*with* Caughey, T. K.) A theorem on the exact nonsimilar steady-state motions of a nonlinear oscillator. (English summary) **93d:70040**
Wu, Julian J. A generalized harmonic balance method for forced nonlinear oscillations: the subharmonic cases. (English summary) **93m:70024**
Yu, W. S. *see* **Sung, C. K., 93h:70018**
Zhang, W.-S. *see* **Lau, S. L., 93e:70010**

Items with secondary classifications in 70K40

Andres, Ján Note to the asymptotic behaviour of solutions of damped pendulum equations under forcing. **93d:34062**
van der Beek, C. G. A. Analysis of a system of two weakly nonlinear coupled harmonic oscillators arising from the field of wind-induced vibrations. (English summary) **93f:73078**
Beigie, Darin (*with* Leonard, Anthony; Wiggins, Stephen) Chaotic transport in the homoclinic and heteroclinic tangle regions of quasiperiodically forced two-dimensional dynamical systems. **93c:58130**
Billeke G., J. *see* **Burgos Vega, Hernán; et al., 93h:34050**
Bishop, S. R. *see* **Koliopulos, P. K.; et al., 93f:70028** *and* **Foale, S., 93i:70023**
Bryant, Peter J. Chaotic breakdown of a periodically forced, weakly damped pendulum. (English summary) **93f:70025**
Burgos Vega, Hernán (*with* Billeke G., J.; Wallace C., M.) Bifurcations of a weakly forced nonlinear cubic oscillator with quartic friction. (Spanish) **93h:34050**
Cartmell, Matthew ★ Introduction to linear, parametric and nonlinear vibrations. **93b:70001**
Cohen, Harvey Ian *see* **Thylwe, Karl-Erik, 93d:34068**
Delshams, Amadeo (*with* Seara, Teresa M.) An asymptotic expression for the splitting of separatrices of the rapidly forced pendulum. (English summary) **93i:34084**
Dmitriev, A. S. (*with* Komlev, U. A.; Turaev, D. V.) Bifurcation phenomena in the 1 : 1 resonant horn for the forced van der Pol-Duffing equation. **93g:34060**
Dowell, E. H. *see* **Gottwald, J. A.; et al., 93g:70002**
Ebeling, Werner (*with* Engel-Herbert, H.; Herzel, Hans-Peter) ★ Selbstorganisation in der Zeit. (German) [Self-organization in time] **93d:00019**
Engel-Herbert, H. *see* **Ebeling, Werner; et al., 93d:00019**
Euler, Norbert *see* **Steeb, Willi-Hans, 93e:34007**
Feeny, Brian A nonsmooth Coulomb friction oscillator. (English summary) **93j:34046**
Foale, S. (*with* Bishop, S. R.) Dynamical complexities of forced impacting systems. **93i:70023**
Furi, Massimo (*with* Pera, Maria Patrizia) The forced spherical pendulum does have forced oscillations. **93b:34052**
Gaeta, Giuseppe Forced periodic oscillations and the Jones polynomial. **93i:58132**
Geist, Karlheinz (*with* Lauterborn, Werner) The nonlinear dynamics of the damped and driven Toda chain. III. Classification of the nonlinear resonances and local bifurcations. **93a:58130**
Gottwald, J. A. (*with* Virgin, L. N.; Dowell, E. H.) Experimental mimicry of Duffing's equation. (English summary) **93g:70002**
Gupta, Chaitan P. (*with* Nkashama, M. N.) Periodic solutions of some forced nonlinear nonautonomous second order ordinary differential equations at resonance. (English and Italian summaries) **93h:34032**
Herzel, Hans-Peter *see* **Ebeling, Werner; et al., 93d:00019**
Inagaki, Yoshio *see* **Shirao, Yoshiaki; et al., 93h:34052**
Jiménez Olivo, Pedro José (*with* Peña Miralles, Juan; Verdú Martín, Gumersindo; Muñoz-Cobo González, José Luis) Symmetry breaking as a path to chaos in the Duffing oscillator. (Spanish) (*see* **93j:00009**)
Kawabata, Hiroaki *see* **Shirao, Yoshiaki; et al., 93h:34052**
Kim, Young B. (*with* Noah, Sherif T.) Periodic response and crisis behavior for a system with piecewise-smooth nonlinearities. (English summary) **93f:70026**
Koliopulos, P. K. (*with* Bishop, S. R.; Stefanou, G. D.) Effect of variation of input bandwidth on the response of hardening Duffing oscillators. (English summary) **93f:70028**
Komlev, U. A. *see* **Dmitriev, A. S.; et al., 93g:34060**
Krasnopol'skaya, T. S. (*with* Shvets, A. Yu.) Chaotic oscillations of a spherical pendulum as the effect of the interaction with an energy source. (Russian. English and Ukrainian summaries) **93i:70025**
Lauterborn, Werner *see* **Geist, Karlheinz, 93a:58130**
Leonard, Anthony *see* **Beigie, Darin; et al., 93c:58130**
Levi, Mark L. Invariant foliations in forced oscillations. **93e:34049**
Mahmoud, Gamal M. On periodic orbits of nonlinear dynamical systems with many degrees of freedom. **93e:34064**
Mawhin, Jean Forced second order conservative systems with periodic nonlinearity. (*see* **93h:49003**)
McCartin, Brian J. An alternative analysis of Duffing's equation. (English summary) **93e:34050**
McRobie, F. A. (*with* Thompson, J. M. T.) Invariant sets of planar diffeomorphisms in nonlinear vibrations. (English summary) **93i:58118**
Muñoz-Cobo González, José Luis *see* **Jiménez Olivo, Pedro José; et al., (93j:00009)**
Nagahara, Toshikuni *see* **Shirao, Yoshiaki; et al., 93h:34052**
Nkashama, M. N. *see* **Gupta, Chaitan P., 93h:34032**
Noah, Sherif T. *see* **Kim, Young B., 93f:70026**
Parthasarathy, S. Homoclinic bifurcation sets of the parametrically driven Duffing oscillator. (English summary) **93e:34052**
Peña Miralles, Juan *see* **Jiménez Olivo, Pedro José; et al., (93j:00009)**
Pera, Maria Patrizia *see* **Furi, Massimo, 93b:34052**
Rulla, Jim A priori estimates for the optimal control of an oscillating water column. (English summary) **93k:70040**

Schmidt, Günter (*with* Seisl, M.) Subharmonic vibrations and chaos in forced nonlinear oscillators. (English and German summaries) **93m:70025**
Seara, Teresa M. *see* **Delshams, Amadeo, 93i:34084**
Seisl, M. *see* **Schmidt, Günter, 93m:70025**
Shirao, Yoshiaki (*with* Kawabata, Hiroaki; Nagahara, Toshikuni; Inagaki, Yoshio) Bifurcations and chaos phenomena in piecewise linear systems with unsymmetrical restoring force. (English summary) **93h:34052**
Shvets, A. Yu. *see* **Krasnopol'skaya, T. S., 93i:70025**
Soliman, Mohamed S. *see* **Thompson, J. M. T., 93k:70036**
Steeb, Willi-Hans (*with* Euler, Norbert) Parametrically driven pendulum and exact solutions. (English summary) **93e:34007**
Stefanou, G. D. *see* **Koliopulos, P. K.; et al., 93f:70028**
Strygin, V. V. (*with* Yanin, A. L.) Higher approximations in the averaging method for investigating a perturbed oscillatory system. (Russian. English and Ukrainian summaries) **93i:34081**
Thompson, J. M. T. (*with* Soliman, Mohamed S.) Fractal control boundaries of driven oscillators and their relevance to safe engineering design. (English summary) **93k:70036**
— *see also* **McRobie, F. A., 93i:58118**
Thylwe, Karl-Erik (*with* Cohen, Harvey Ian) Exact steady-state responses in undamped driven nonlinear oscillators. (English summary) **93d:34068**
Turaev, D. V. *see* **Dmitriev, A. S.; et al., 93g:34060**
Vakakis, Alexander F. Dynamics of a nonlinear periodic structure with cyclic symmetry. (English summary) **93f:73068**
Verdú Martín, Gumersindo *see* **Jiménez Olivo, Pedro José; et al., (93j:00009)**
Virgin, L. N. *see* **Gottwald, J. A.; et al., 93g:70002**
Wallace C., M. *see* **Burgos Vega, Hernán; et al., 93h:34050**
Wiggins, Stephen *see* **Beigie, Darin; et al., 93c:58130**
Yanin, A. L. *see* **Strygin, V. V., 93i:34081**
You, Jian Gong Global attraction of forced pendulum equations with positive damping. (Chinese) **93b:34066**

70K50 Transition to stochasticity (chaotic behavior) [see also 58F13]

Awrejcewicz, Jan (*with* Someya, Tsuneo) A twisted horseshoe in the roll-slide oscillator. **93d:70041**
Bishop, S. R. *see* **Foale, S., 93i:70023**
Bryant, Peter J. Chaotic breakdown of a periodically forced, weakly damped pendulum. (English summary) **93f:70025**
Dimaggio, F. *see* **Yip, S.-C., 93m:70026**
Foale, S. (*with* Bishop, S. R.) Dynamical complexities of forced impacting systems. **93i:70023**
Hamilton, Ian *see* **Permann, Delmar, 93h:70019**
Kao, Y. H. (*with* Wang, C. S.; Yang, T. H.) Influence of harmonic coupling on bifurcations in Duffing oscillator with bounded potential well. (English summary) **93i:70024**
Kapitaniak, T. Strange nonchaotic transients. **93g:70026**
Kim, Young B. (*with* Noah, Sherif T.) Periodic response and crisis behavior for a system with piecewise-smooth nonlinearities. (English summary) **93f:70026**
Krasnopol'skaya, T. S. (*with* Shvets, A. Yu.) Chaotic oscillations of a spherical pendulum as the effect of the interaction with an energy source. (Russian. English and Ukrainian summaries) **93i:70025**
Lamarque, C.-H. (*with* Malasoma, J.-M.) Computation of basins of attraction for three coexisting attractors of a simple mechanical system. (English summary) **93j:70011**
Ling, Fu Hua (*with* Xu, Ru Jin) Nonintegrability and chaos of a conservative compound pendulum. (Chinese. English summary) **93a:70023**
Malasoma, J.-M. *see* **Lamarque, C.-H., 93j:70011**
Noah, Sherif T. *see* **Kim, Young B., 93f:70026**
Permann, Delmar (*with* Hamilton, Ian) Wavelet analysis of time series for the Duffing oscillator: the detection of order within chaos. (English summary) **93h:70019**
Peterka, F. (*with* Vacík, J.) Transition to chaotic motion in mechanical systems with impacts. **93b:70023**
Rand, R. H. *see* **Vakakis, Alexander F., 93i:70026** *and* **93i:70027**
Rudowski, J. *see* **Szemplińska-Stupnicka, Wanda, 93a:70024**
Schmidt, Günter (*with* Seisl, M.) Subharmonic vibrations and chaos in forced nonlinear oscillators. (English and German summaries) **93m:70025**
Seisl, M. *see* **Schmidt, Günter, 93m:70025**
Shvets, A. Yu. *see* **Krasnopol'skaya, T. S., 93i:70025**
Soliman, Mohamed S. *see* **Thompson, J. M. T., 93k:70036**
Someya, Tsuneo *see* **Awrejcewicz, Jan, 93d:70041**
Szemplińska-Stupnicka, Wanda (*with* Rudowski, J.) Local methods in predicting occurrence of chaos in two-well potential systems: superharmonic frequency region. **93a:70024**
Thompson, J. M. T. (*with* Soliman, Mohamed S.) Fractal control boundaries of driven oscillators and their relevance to safe engineering design. (English summary) **93k:70036**
Vacík, J. *see* **Peterka, F., 93b:70023**
Vakakis, Alexander F. (*with* Rand, R. H.) Normal modes and global dynamics of a two-degree-of-freedom nonlinear system. I. Low energies. (English summary) **93i:70026**
— (*with* Rand, R. H.) Normal modes and global dynamics of a two-degree-of-freedom nonlinear system. II. High energies. (English summary) **93i:70027**
Wang, C. S. *see* **Kao, Y. H.; et al., 93i:70024**
Xu, Ru Jin *see* **Ling, Fu Hua, 93a:70023**
Yang, T. H. *see* **Kao, Y. H.; et al., 93i:70024**
Yip, S.-C. (*with* Dimaggio, F.) Routes to chaos of a pendulum with vertically rotating pivot. (English summary) **93m:70026**

Items with secondary classifications in 70K50

Abbott, Tyler *see* **Tufillaro, Nicholas B.; et al., 93m:58077**
Argyris, John (*with* Faust, Gunter; Haase, Maria) Χάoζ—an adventure in chaos. **93f:58142**
Aubry, Serge (*with* MacKay, Robert S.; Baesens, Claude) Equivalence of uniform hyperbolicity for symplectic twist maps and phonon gap for Frenkel-Kontorova models. **93e:58144**
Baesens, Claude (*with* Guckenheimer, John; Kim, Seung-hwan; MacKay, Robert S.) Three coupled oscillators: mode-locking, global bifurcations and toroidal chaos. **93c:58155**
— *see also* **Aubry, Serge; et al., 93e:58144**
Barbanis, B. A multi-spiral set of solutions of a 3-D Hamiltonian system. (English summary) **93h:70009**
Batalova, Z. S. (*with* Ezhevskaya, N. A.) The structure of a phase space and bifurcations of the Duffing equation. (Russian) **93e:34048**
Battelli, Flaviano (*with* Palmer, Kenneth J.) Chaos in the Duffing equation. **93k:34099**
Bellissard, Jean (*with* Vaienti, Sandro) Rigorous diffusion properties for the sawtooth map. **93e:58145**
Belogortsev, A. B. Bifurcations of tori and chaos in the quasiperiodically forced Duffing oscillator. **93f:58145**
Berretti, A. (*with* Celletti, Alessandra; Chierchia, L.; Falcolini, Corrado) Natural boundaries for area-preserving twist maps. **93b:58121**
Bolotin, S. V. Variational methods for constructing chaotic motions in the dynamics of a rigid body. (Russian. Russian summary) **93g:58025**
Bouquet, S. (*with* Dewisme, A.) First integrals of Hamiltonian and non-Hamiltonian systems and chaos. (English summary) **93h:58051**
Bruhn, B. *see* **Koch, B. P., 93d:70029**
Carney, J. F., III *see* **Hahn, G. D.; et al., 93d:70003**
Celletti, Alessandra *see* **Berretti, A.; et al., 93b:58121**
Chernikov, Aleksandr Antonovich *see* **Zaslavskii, G. M.; et al., 93a:58127a** *and* **93a:58127b**
Chierchia, L. *see* **Berretti, A.; et al., 93b:58121**
Davies, M. A. (*with* Moon, F. C.) 3-D spatial chaos in the elastica and the spinning top: Kirchhoff analogy. (English summary) **93m:58107**
Davies, M. E. An iterated function approximation in shadowing time series. (English summary)
Dewisme, A. *see* **Bouquet, S., 93h:58051**
Dmitriev, A. S. (*with* Komlev, U. A.; Turaev, D. V.) Bifurcation phenomena in the 1 : 1 resonant horn for the forced van der Pol-Duffing equation. **93g:34060**
Dong, Guang Mao (*with* Liu, Zeng Rong; Xu, Zheng Fan) Stochasticity near resonances in a kind of near-integrable Hamiltonian systems based on Smale horseshoes. (Chinese. English summary) **93a:70015**
Dowell, E. H. *see* **Gottwald, J. A.; et al., 93g:70002**
Druzhinina, A. L. *see* **Gulyaev, V. I.; et al., 93a:58121**
Earn, David J. D. (*with* Tremaine, Scott) Exact numerical studies of Hamiltonian maps: iterating without roundoff error. **93c:58068**
Eckhardt, Bruno Periodic orbits and diffusion in standard maps. (English summary) **93j:58113**
Eichwald, C. (*with* Kaiser, Friedemann) Bifurcation structure of a driven multi-limit-cycle van der Pol oscillator. II. Symmetry-breaking crisis and intermittency. **93c:34086**
Elskens, Yves (*with* Escande, D. F.) Infinite resonance overlap: a natural limit for Hamiltonian chaos. (English summary) **93k:58147**
Escande, D. F. *see* **Elskens, Yves, 93k:58147**
Ezhevskaya, N. A. *see* **Batalova, Z. S., 93e:34048**
Falcolini, Corrado *see* **Berretti, A.; et al., 93b:58121**
Faust, Gunter *see* **Argyris, John; et al., 93f:58142**
Feeny, Brian A nonsmooth Coulomb friction oscillator. (English summary) **93j:34046**
Ge, Yan Chao From Newton to chaos and modern physics. I. (English summary) **93i:58104**
Golé, Christophe Ghost circles for twist maps. **93h:58115**
Gottwald, J. A. (*with* Virgin, L. N.; Dowell, E. H.) Experimental mimicry of Duffing's equation. (English summary) **93g:70002**
Graham, Robert *see* **Hamm, Andreas, 93k:58151**
(Grishanin, B. A.) *see* **Neimark, Yu. I., 93d:58103**
Guckenheimer, John *see* **Baesens, Claude; et al., 93c:58155**
Gulyaev, V. I. (*with* Druzhinina, A. L.; Koshkin, V. L.) A universal sequence of period-doubling bifurcations for a conservative oscillator with power nonlinearities. (Russian) **93a:58121**
Guran, A. Chaotic motion of a Kelvin type gyrostat in a circular orbit. (English summary)
Haase, Maria *see* **Argyris, John; et al., 93f:58142**
Hadjidemetriou, John D. Mapping models for Hamiltonian systems with application to resonant asteroid motion. (English summary) **93k:70026**
Hahn, G. D. (*with* Carney, J. F., III; Ray, Malcolm H.) On the numerical evaluation of the unforced response of a Duffing oscillator. (English summary) **93d:70003**
Hamm, Andreas (*with* Graham, Robert) Scaling for small random perturbations of golden critical circle maps. (English summary) **93k:58151**
Heagy, J. F. A physical interpretation of the Hénon map. (English summary) **93e:58130**
Holm, Darryl D. (*with* Kovačič, Gregor) Homoclinic chaos in a laser-matter system. **93c:78013**
Holmes, Philip J. *see* **Mielke, Alexander; et al., 93c:58161**
Horwitz, L. P. (*with* Schieve, W. C.) Horseshoes in a relativistic Hamiltonian system in 1 + 1 dimensions. (English summary) **93d:70033**
Huang, Ke Lei *see* **Lin, Rui; et al., 93c:58160**
Huo, Quan Zhong *see* **Zhang, Wei; et al., 93f:34067**
Inagaki, Yoshio *see* **Shirao, Yoshiaki; et al., 93h:34052**
Jiménez Olivo, Pedro José (*with* Peña Miralles, Juan; Verdú Martín, Gumersindo; Muñoz-Cobo González, José Luis) Symmetry breaking as a path to chaos in the Duffing oscillator. (Spanish) (*see* **93j:00009**)
Kaiser, Friedemann *see* **Eichwald, C., 93c:34086**
Kaluža, M. (*with* Robnik, Marko) Improved accuracy of the Birkhoff-Gustavson normal form and its convergence properties. (English summary) **93i:58135**
Kawabata, Hiroaki *see* **Shirao, Yoshiaki; et al., 93h:34052**
Ketema, Yohannes A physical interpretation of Mel'nikov's method. **93f:34075**
Kim, Seung-hwan *see* **Baesens, Claude; et al., 93c:58155**
King, G. P. (*with* Stewart, Ian N.) Symmetric chaos. **93c:58138**
Kleczka, M. (*with* Kreuzer, E. J.; Schiehlen, W.) Local and global stability of a piecewise linear oscillator. **93i:58107**
Koch, B. P. (*with* Bruhn, B.) Chaotic scattering in a near-integrable system. **93d:70029**
Komlev, U. A. *see* **Dmitriev, A. S.; et al., 93g:34060**

Koshkin, V. L. *see* **Gulyaev, V. I.; et al., 93a:58121**
Kovačič, Gregor *see* **Holm, Darryl D., 93c:78013**
Kreuzer, E. J. *see* **Kleczka, M.; et al., 93i:58107**
Krug, Joachim *see* **Schwägerl, Michael, 93a:58124**
Landa, P. S. (*with* Rozenblyum, M. G.) On the synchronization of chaotic self-oscillating systems. (Russian)
— *see also* **Neimark, Yu. I., 93d:58103**
Lansbury, A. N. (*with* Thompson, J. M. T.; Stewart, H. Bruce) Basin erosion in the twin-well Duffing oscillator: two distinct bifurcation scenarios. (English summary) **93j:34048**
Leyvraz, F. (*with* Seligman, T. H.) Structural invariance and the statistics of quasi-energies. (English summary) **93h:81034**
Li, Li[1] *see* **Zhang, Wei; et al., 93f:34067**
Lichtenberg, Allan J. (*with* Lieberman, M. A.) ★ Regular and chaotic dynamics. **93c:58071**
Lieberman, M. A. *see* **Lichtenberg, Allan J., 93c:58071**
Lin, Rui (*with* Lu, Qi Shao; Huang, Ke Lei) Subharmonic bifurcations, stability and chaos. **93c:58160**
Liu, Zeng Rong *see* **Dong, Guang Mao; et al., 93a:70015**
de la Llave, Rafael A renormalization group explanation of numerical observations of analyticity domains. **93b:58122**
Lu, Qi Shao *see* **Lin, Rui; et al., 93c:58160**
MacKay, Robert S. (*with* Meiss, J. D.) Cantori for symplectic maps near the anti-integrable limit. **93b:58123**
— *see also* **Baesens, Claude; et al., 93c:58155** *and* **Aubry, Serge; et al., 93e:58144**
McKernan, D. *see* **Nicolis, G.; et al., 93i:58109**
McRobie, F. A. Birkhoff signature change: a criterion for the instability of chaotic resonance. **93d:58101**
Meiss, J. D. *see* **MacKay, Robert S., 93b:58123**
Mendonça, J. T. *see* **Oliveira e Silva, L., 93h:70022**
Mielke, Alexander (*with* Holmes, Philip J.; O'Reilly, O. M.) Cascades of homoclinic orbits to, and chaos near, a Hamiltonian saddle-center. **93c:58161**
Moon, F. C. *see* **Davies, M. A., 93m:58107**
Morbidelli, Alessandro On the successive elimination of perturbation harmonics. (English summary) **93i:70016**
Muñoz-Cobo González, José Luis *see* **Jiménez Olivo, Pedro José; et al., (93j:00009)**
Nagahara, Toshikuni *see* **Shirao, Yoshiaki; et al., 93h:34052**
Neimark, Yu. I. (*with* Landa, P. S.) ★ Stochastic and chaotic oscillations. **93d:58103**
Nicolis, C. *see* **Nicolis, G.; et al., 93i:58109**
Nicolis, G. (*with* Nicolis, C.; McKernan, D.) Stochastic resonance in chaotic dynamics. (English summary) **93i:58109**
Nocilla, Silvio Oscillations, stability and chaos. (Italian. English summary) **93c:58144**
Nordmark, A. B. Effects due to low velocity impact in mechanical oscillators. (English summary) **93h:70017**
Nusse, Helena E. (*with* Yorke, James A.) A numerical procedure for finding accessible trajectories on basin boundaries. **93c:58125**
Oliveira e Silva, L. (*with* Mendonça, J. T.) Asymmetric pendulum. (English summary) **93h:70022**
O'Reilly, O. M. *see* **Mielke, Alexander; et al., 93c:58161**
Palmer, Kenneth J. *see* **Battelli, Flaviano, 93k:34099**
Parmenter, R. H. (*with* Yu, L. Y.) The periodically kicked quantum spin. (English summary) **93i:81040**
— *see also* **Yu, L. Y., 93i:58133**
Parthasarathy, S. Homoclinic bifurcation sets of the parametrically driven Duffing oscillator. (English summary) **93e:34052**
Peña Miralles, Juan *see* **Jiménez Olivo, Pedro José; et al., (93j:00009)**
Ray, Malcolm H. *see* **Hahn, G. D.; et al., 93d:70003**
Reilly, Jeremiah *see* **Tufillaro, Nicholas B.; et al., 93m:58077**
Robnik, Marko *see* **Kaluža, M., 93i:58135**
(Roy, Archie E.) *see* **Predictability, stability, and chaos in *N*-body dynamical systems, 93i:70002**
Rozenblyum, M. G. *see* **Landa, P. S.**
Ryrie, Susan C. Mixing by chaotic advection in a class of spatially periodic flows. **93b:76050**
Sagdeev, R. Z. *see* **Zaslavskii, G. M.; et al., 93a:58127a** *and* **93a:58127b**
(Sagdeeva, A. R.) *see* **Zaslavskii, G. M.; et al., 93a:58127b**
Schiehlen, W. *see* **Kleczka, M.; et al., 93i:58107**
Schieve, W. C. *see* **Horwitz, L. P., 93d:70033**
Schwägerl, Michael (*with* Krug, Joachim) Subdiffusive transport in stochastic webs. **93a:58124**
Seligman, T. H. *see* **Leyvraz, F., 93h:81034**
Sevryuk, M. B. Lower-dimensional tori in reversible systems. **93c:58184**
Shilkrut, D. Stability of equilibrium states of nonlinear structures and chaos phenomenon. Chaos in statics? (English summary) **93g:73079**
Shirao, Yoshiaki (*with* Kawabata, Hiroaki; Nagahara, Toshikuni; Inagaki, Yoshio) Bifurcations and chaos phenomena in piecewise linear systems with unsymmetrical restoring force. (English summary) **93h:34052**
Smith, R. H. (*with* Szebehely, Victor) Chaotic trajectories in the restricted problem of three bodies. (English summary) (*see* **93i:70002**)
Soliman, Mohamed S. (*with* Thompson, J. M. T.) The effect of damping on the steady state and basin bifurcation patterns of a nonlinear mechanical oscillator. **93b:70022**
Spirig, Franz (*with* Waldvogel, Jörg) Chaos in coorbital motion. (English summary) **93k:70017**
Steeb, Willi-Hans ★ A handbook of terms used in chaos and quantum chaos. **93d:58001**
Steindl, A. (*with* Troger, H.) Chaotic motion in mechanical and engineering systems. (English summary) **93k:58159**
Stewart, H. Bruce *see* **Lansbury, A. N.; et al., 93j:34048**
Stewart, Ian N. *see* **King, G. P., 93c:58138**
Sung, C. K. (*with* Yu, W. S.) Dynamics of a harmonically excited impact damper: bifurcations and chaotic motion. (English summary) **93h:70018**
Szebehely, Victor Chaos, stability and predictability in Newtonian dynamics. (English summary) **93k:70018**
— *see also* **Smith, R. H., (93i:70002)**
(Szemplińska-Stupnicka, Wanda) *see* **Engineering applications of dynamics of chaos, 93h:58001**
Tanikawa, Kiyotaka (*with* Yamaguchi, Yoshihiro) Stable and unstable manifolds asymptotic to the outermost KAM curve. **93e:58148**
Thompson, J. M. T. Chaotic phenomena triggering the escape from a potential well. (English summary) **93k:58160**
— *see also* **Soliman, Mohamed S., 93b:70022** *and* **Lansbury, A. N.; et al., 93j:34048**
Tremaine, Scott *see* **Earn, David J. D., 93c:58068**
Troger, H. *see* **Steindl, A., 93k:58159** *and* **Engineering applications of dynamics of chaos, 93h:58001**
Tsarfin, E. L. Chaotic behavior of trajectories of an integrable dynamical system in a subspace of its phase space. (Russian. Russian summary) (*see* **93g:00024**)
Tufillaro, Nicholas B. (*with* Abbott, Tyler; Reilly, Jeremiah) ★ An experimental approach to nonlinear dynamics and chaos. (English. English summary) **93m:58077**
Turaev, D. V. *see* **Dmitriev, A. S.; et al., 93g:34060**
Ueda, Yoshisuke Strange attractors and the origin of chaos. **93f:58067**
Usikov, D. A. *see* **Zaslavskii, G. M.; et al., 93a:58127a** *and* **93a:58127b**
Vaienti, Sandro *see* **Bellissard, Jean, 93e:58145**
Verdú Martín, Gumersindo *see* **Jiménez Olivo, Pedro José; et al., (93j:00009)**
Virgin, L. N. *see* **Gottwald, J. A.; et al., 93g:70002**
Waldvogel, Jörg *see* **Spirig, Franz, 93k:70017**
Wiggins, Stephen ★ Chaotic transport in dynamical systems. **93c:58152**
Xu, Zheng Fan *see* **Dong, Guang Mao; et al., 93a:70015**
Yagasaki, Kazuyuki Chaotic dynamics of quasi-periodically forced oscillators detected by Mel'nikov's method. (English summary) **93f:58162**
Yamaguchi, Yoshihiro *see* **Tanikawa, Kiyotaka, 93e:58148**
Yorke, James A. *see* **Nusse, Helena E., 93c:58125**
Yu, L. Y. (*with* Parmenter, R. H.) Some new systems that generate a uniform stochastic web. (English summary) **93i:58133**
— *see also* **Parmenter, R. H., 93i:81040**
Yu, W. S. *see* **Sung, C. K., 93h:70018**
Zaslavskii, G. M. (*with* Sagdeev, R. Z.; Usikov, D. A.; Chernikov, Aleksandr Antonovich) ★ Слабый хаос и квазирегулярные структуры. (Russian) [Weak chaos and quasiregular patterns] **93a:58127a**
— (*with* Sagdeev, R. Z.; Usikov, D. A.; Chernikov, Aleksandr Antonovich) ★ Weak chaos and quasi-regular patterns. **93a:58127b**
Zhang, Wei (*with* Huo, Quan Zhong; Li, Li[1]) Heteroclinic orbit and subharmonic bifurcations and chaos of nonlinear oscillator. (Chinese. English summary) **93f:34067**

Items listed otherwise than by author

Cortina d'Ampezzo ★ Predictability, stability, and chaos in *N*-body dynamical systems. **93i:70002**
Engineering applications of dynamics of chaos ★ Engineering applications of dynamics of chaos. **93h:58001**
NATO Advanced Study Institute:
Predictability, Stability, and Chaos in *N*-body Dynamical Systems ★ Predictability, stability, and chaos in *N*-body dynamical systems. **93i:70002**
Predictability, stability, and chaos in *N*-body dynamical systems ★ Predictability, stability, and chaos in *N*-body dynamical systems. **93i:70002**

70K99 None of the above, but in this section

Bravo Yuste, Santos Quasi-pure-cubic oscillators studied using a Krylov-Bogoliubov method. (English summary) **93h:70020**
Fedyk, S. M. *see* **Spivakovskii, V. B., (93g:00024)**
Hogan, S. J. Heteroclinic bifurcations in damped rigid block motion. (English summary) **93h:70021**
Kiselev, M. I. Applied aspects of the theory of adiabatic invariants. (Russian. Russian summary)
Mendonça, J. T. *see* **Oliveira e Silva, L., 93h:70022**
Oliveira e Silva, L. (*with* Mendonça, J. T.) Asymmetric pendulum. (English summary) **93h:70022**
Owen, David Ross Recent research on elastic-plastic oscillators. **93c:70015**
Spivakovskii, V. B. (*with* Fedyk, S. M.) Oscillations of a mathematical pendulum of variable length in the case of plane displacements of the point of suspension. (Russian. Russian summary) (*see* **93g:00024**)

Items with secondary classifications in 70K99

Almeida, M. A. *see* **Moreira, I. C., 93h:70010**
Alstrøm, Preben *see* **Christiansen, Bo; et al., 93b:34047**
Andrianov, I. V. Application of Padé-approximants in perturbation methods. (English and Russian summaries) **93j:73061**
Awrejcewicz, Jan (*with* Someya, Tsuneo) Analytical condition for the existence of two-parameter family of quasiperiodic orbits in the autonomous system (nonresonance case). (English summary)
Bakhtin, V. I. Averaging in a single-frequency system in general position. (Russian) **93b:34055**
Berger, M. S. (*with* Chen, Yi-Ying) Forced quasiperiodic and almost periodic oscillations of nonlinear Duffing equations. **93j:34062**
Black, R. C. (*with* Satija, Indubala I.) Recurrence phenomenon in dissipative systems. (English summary) **93e:58137**
Bombelli, Luca (*with* Couch, W. E.; Torrence, R. J.) Solvable systems of wave equations and nonabelian Toda lattices. **93a:35143**
Casas, F. (*with* Oteo, J. A.; Ros, J.) Geometric factors in the adiabatic evolution of classical systems. **93c:70012**
— (*with* Oteo, J. A.; Ros, J.) Variation of the action in the classical time-dependent harmonic oscillator: an exact result. (English summary) **93m:70017**
Cecchi, G. A. (*with* González, D. L.; Magnasco, M. O.; Mindlin, Gabriel B.; Piro, Oreste; Santillan, A. J.) Periodically kicked hard oscillators. (English summary) **93k:58130**

Chen, Yi-Ying *see* **Berger, M. S., 93j:34062**
Christiansen, Bo (*with* Alstrøm, Preben; Levinsen, Mogens T.) Collective dynamics of coupled modulated oscillators with random pinning. **93b:34047**
Couch, W. E. *see* **Bombelli, Luca; et al., 93a:35143**
Dold, J. W. A note on integral properties of periodic orbits. (English summary) **93m:34057**
Eilenberger, G. (*with* Schmidt, K.) Poincaré maps of Duffing-type oscillators and their reduction to circle maps. I. Analytic results. (English summary) **93k:34078**
Falcolini, Corrado (*with* de la Llave, Rafael) Numerical calculation of domains of analyticity for perturbation theories in the presence of small divisors. **93d:58145**
Fiedler, Bernold *see* **Vanderbauwhede, André, 93f:58209**
Filimonov, A. M. (*with* Kurchanov, P. F.; Myshkis, A. D.) Some unexpected results in the classical problem of vibrations of the string with n beads when n is large. (French summary) **93a:73026**
González, D. L. *see* **Cecchi, G. A.; et al., 93k:58130**
Hirai, Kazumasa (*with* Shindou, Hisanori) The cooperative behavior of a compound system. (English summary) **93h:34078**
Hogan, S. J. The effect of damping on rigid block motion under harmonic forcing. (English summary) **93e:70002**
Huo, Lin Chun Extension and application of Newton's method in nonlinear oscillation theory. (Chinese. English and Chinese summaries) **93j:34057**
Kahn, Peter B. (*with* Zarmi, Yair) Minimal normal forms in harmonic oscillations with small nonlinear perturbations. **93f:58215**
Kel'zon, A. S. (*with* Meller, A. S.) On the dynamics of a rotor in rolling-contact bearings. (Russian)
Kharitonova, O. I. On an investigation of gyroscopic systems. (Russian) (*see* **93b:34004**)
Klepp, Horst J. Parameters of the periodic response of a system with friction-affected constraints and harmonic excitation. (German summary) **93a:70013**
Kounadis, A. N. (*with* Simitses, G. J.) Local (classical) and global bifurcations in nonlinear, nongradient autonomous dissipative structural systems. (English summary) **93m:73024**
Kurchanov, P. F. *see* **Filimonov, A. M.; et al., 93a:73026**
Laederich, Stephane (*with* Levi, Mark L.) Qualitative dynamics of planar chains. **93a:58102**
Levi, Mark L. Quasiperiodic motions in superquadratic time-periodic potentials. **93i:34080**
— On Littlewood's counterexample of unbounded motions in superquadratic potentials. **93c:34080**
— *see also* **Laederich, Stephane, 93a:58102**
Levine, Raphael D. *see* **Weeks, David E., 93c:58191**
Levinsen, Mogens T. *see* **Christiansen, Bo; et al., 93b:34047**
de la Llave, Rafael *see* **Falcolini, Corrado, 93d:58145**
MacKay, Robert S. Greene's residue criterion. **93m:58097**
Magnasco, M. O. *see* **Cecchi, G. A.; et al., 93k:58130**
Meijaard, J. P. Applications of the singular value decomposition in dynamics. (English summary) **93k:70002**
Meller, A. S. *see* **Kel'zon, A. S.**
Mimura, Fumitake (*with* Nôno, Takayuki) Conservation laws of one-dimensional nonconservative motions. **93k:34028**
Mindlin, Gabriel B. *see* **Cecchi, G. A.; et al., 93k:58130**
Moreira, I. C. (*with* Almeida, M. A.) Noether symmetries and the swinging Atwood machine. (English summary) **93h:70010**
Myshkis, A. D. *see* **Filimonov, A. M.; et al., 93a:73026**
Nagle, R. Kent (*with* Parrott, Mary E.) Bounded perturbations with multiple delays of forced harmonic oscillators at resonance. (English summary) **93k:34161**
Neĭmark, Yu. I. Some problems of the qualitative theory of vibrations. (English and Russian summaries) **93m:34052**
Nôno, Takayuki *see* **Mimura, Fumitake, 93k:34028**
Novozhilov, I. V. ★ Фракционный анализ. (Russian. Russian summary) [Fractional analysis] **93m:34079**
Orlandini, E. (*with* Servizi, Graziano; Tesi, M. C.; Turchetti, Giorgio) Singularities of the potential and energy integrals and scaling laws for the dimensions' spectra. **93e:58121**
Oteo, J. A. *see* **Casas, F.; et al., 93c:70012** *and* **93m:70017**
Parrott, Mary E. *see* **Nagle, R. Kent, 93k:34161**
Piro, Oreste *see* **Cecchi, G. A.; et al., 93k:58130**
Ros, J. *see* **Casas, F.; et al., 93c:70012** *and* **93m:70017**
Santillan, A. J. *see* **Cecchi, G. A.; et al., 93k:58130**
Satija, Indubala I. *see* **Black, R. C., 93e:58137**
Schmidt, K. *see* **Eilenberger, G., 93k:34078**
Servizi, Graziano *see* **Orlandini, E.; et al., 93e:58121**
Shevchenko, A. V. *see* **Zadorozhnyi, V. F., 93f:34079**
Shindou, Hisanori *see* **Hirai, Kazumasa, 93h:34078**
Shishanin, O. E. Some methods for constructing asymptotics for the Hill equation. (Russian. Russian and Ukrainian summaries) **93f:34086**
Simitses, G. J. *see* **Kounadis, A. N., 93m:73024**
Smol'nikov, B. A. ★ Проблемы механики и оптимизации роботов. (Russian) [Problems in the mechanics and optimization of robots] **93a:70003**
Someya, Tsuneo *see* **Awrejcewicz, Jan**
Svetlitskiĭ, V. A. ★ Случайные колебания механических систем. (Russian) [Random oscillations of mechanical systems] **93b:70027**
Tatarinov, Ya. V. Consequences of nonintegrable perturbation of integrable constraints: nonlinear effects of motion near an equilibrium manifold. (Russian. Russian summary) **93k:70021**
Tavener, Simon J. Symmetric and nonsymmetric equilibria of a rod-and-spring model. (English summary) **93e:34054**
Tesi, M. C. *see* **Orlandini, E.; et al., 93e:58121**
Torrence, R. J. *see* **Bombelli, Luca; et al., 93a:35143**
Turchetti, Giorgio *see* **Orlandini, E.; et al., 93e:58121**
Vanderbauwhede, André (*with* Fiedler, Bernold) Homoclinic period blow-up in reversible and conservative systems. **93f:58209**
Weeks, David E. (*with* Levine, Raphael D.) Sub-resonant distortion of phase space tori. (English summary) **93c:58191**
You, Jian Gong Global attraction of forced pendulum equations with positive damping. (Chinese) **93b:34066**
Yu, Wen Duo Variational perturbation methods. (Chinese) **93g:70021**
Zadorozhnyi, V. F. (*with* Shevchenko, A. V.) Complex motions of mechanical systems and a computational process. (Russian. English summary) **93f:34079**
Zarmi, Yair *see* **Kahn, Peter B., 93f:58215**

70L05 Random vibrations [see also 73K35, 93Exx]

Barts, B. I. (*with* Virchenko, Yu. P.; Moiseev, S. S.) Stability and stochastic parametric resonance of an oscillator with multiplicative noise. (Russian. English, Russian and Ukrainian summaries) **93g:70027**
Bishop, S. R. *see* **Koliopulos, P. K.; et al., 93f:70028**
Bucher, Christian G. Sample stability of multi-degree-of-freedom systems. (English summary) **93f:70027**
Cai, Guo Qiang (*with* Lin, Y. K.; Elishakoff, Isaac) A new approximate solution technique for randomly excited nonlinear oscillators. II. (English summary) **93g:70028**
Elishakoff, Isaac (*with* Zhang, X.) An appraisal of different stochastic linearization techniques. **93c:70016**
— *see also* **Cai, Guo Qiang; et al., 93g:70028**
Falsone, G. Stochastic linearization of MDOF systems under parametric excitations. (English summary) **93g:70029**
Hsu, Chieh Su *see* **Sun, J.-Q., 93b:70026**
Iwankiewicz, R. (*with* Nielsen, S. R. K.) Dynamic response of nonlinear inelastic systems to Poisson-driven stochastic excitations. (*see* **93a:60004**)
Koliopulos, P. K. (*with* Bishop, S. R.; Stefanou, G. D.) Effect of variation of input bandwidth on the response of hardening Duffing oscillators. (English summary) **93f:70028**
— (*with* Langley, R. S.) Improved stability analysis of the response of a Duffing oscillator under filtered white noise. (English summary) **93k:70037**
Langley, R. S. *see* **Koliopulos, P. K., 93k:70037**
Leng, Gerard *see* **Sri Namachchivaya, N., 93b:70025**
Lin, Y. K. *see* **Cai, Guo Qiang; et al., 93g:70028**
Moiseev, S. S. *see* **Barts, B. I.; et al., 93g:70027**
Moshchuk, N. K. (*with* Sinitsyn, I. N.) Distributions with invariant measure in stochastic mechanical systems. (Russian) **93b:70024**
Muzychuk, O. V. Application of matrix continued fractions to the analysis of stochastic systems with polynomial nonlinearity. (Russian) **93a:70025**
Nielsen, S. R. K. *see* **Iwankiewicz, R., (93a:60004)**
vom Scheidt, Jürgen (*with* Wöhrl, U.; Wulff, S.) A method for the numerical treatment of nonlinear stochastic vibrations of vehicles.
Sinitsyn, I. N. *see* **Moshchuk, N. K., 93b:70024**
Socha, Lesław (*with* Soong, T. T.) Sensitivity and linearization techniques in analysis of nonlinear stochastic systems. **93c:70017**
Soong, T. T. *see* **Socha, Lesław, 93c:70017**
Sri Namachchivaya, N. (*with* Leng, Gerard) Equivalence of stochastic averaging and stochastic normal forms. **93b:70025**
Stefanou, G. D. *see* **Koliopulos, P. K.; et al., 93f:70028**
Sun, J.-Q. (*with* Hsu, Chieh Su) The generalized cell mapping method in nonlinear random vibration based upon short-time Gaussian approximation. **93b:70026**
Svetlitskiĭ, V. A. ★ Случайные колебания механических систем. (Russian) [Random oscillations of mechanical systems] **93b:70027**
To, C. W. S. A statistical nonlinearization technique in structural dynamics. **93m:70027**
Virchenko, Yu. P. *see* **Barts, B. I.; et al., 93g:70027**
Wöhrl, U. *see* **vom Scheidt, Jürgen; et al.**
Wulff, S. *see* **vom Scheidt, Jürgen; et al.**
Zhang, X. *see* **Elishakoff, Isaac, 93c:70016**

Items with secondary classifications in 70L05

Alstrøm, Preben *see* **Christiansen, Bo; et al., 93b:34047**
Ariaratnam, S. T. (*with* Xie, Wei Chau) Lyapunov exponents and stochastic stability of coupled linear systems under real noise excitation. (English summary) **93g:73092**
Benaroya, Haym Random eigenvalues, algebraic methods and structural dynamic models. (English summary) **93g:73081**
Boxler, Petra How to construct stochastic center manifolds on the level of vector fields. (English summary) **93i:34101**
Calisto, H. (*with* Cerda, E.; Tirapegui, Enrique) Comment on: "Noise and bifurcations" [J. Statist. Phys. **50** (1988), no. 1-2, 345–375; MR 89b:58156] by C. Meunier and A. D. Verga. (English summary) **93j:58095**
Cerda, E. *see* **Calisto, H.; et al., 93j:58095**
Christiansen, Bo (*with* Alstrøm, Preben; Levinsen, Mogens T.) Collective dynamics of coupled modulated oscillators with random pinning. **93b:34047**
Donley, M. G. *see* **Spanos, Pol-T. D., 93f:73072**
Fillatre, O. Identification of weakly nonlinear dynamic systems by means of random excitations. (French. English and French summaries) **93h:73027**
Furta, Stanislav D. Motions of an axisymmetric gyroscope subject to the action of small random perturbations. (Russian) (*see* **93g:00022**)
(Grishanin, B. A.) *see* **Neĭmark, Yu. I., 93d:58103**
Kalynyuk, A. N. A study of second-order differential-difference equations with random deviation of the argument. (Russian. Russian summary) **93g:34126b**
Landa, P. S. *see* **Neĭmark, Yu. I., 93d:58103**
Levinsen, Mogens T. *see* **Christiansen, Bo; et al., 93b:34047**
Longuski, James M. *see* **Ostoja-Starzewski, Martin, 93i:70028**
(Meunier, C.) *see* **Calisto, H.; et al., 93j:58095**
Moshchuk, N. K. (*with* Sinitsyn, I. N.) Stationary regimes and regimes reducible to stationary regimes in normal stochastic differential systems. (Russian) **93e:34083**
— (*with* Sinitsyn, I. N.) On stationary distributions in nonlinear stochastic differential systems. **93c:60086**
Neĭmark, Yu. I. (*with* Landa, P. S.) ★ Stochastic and chaotic oscillations. **93d:58103**

Nguyen Tien Khiem General solution of the Fokker-Planck-Kolmogorov equation in variables of the amplitude and phase of oscillatory processes. (Russian) **93k:34131**
— Conditions for the existence of a stationary solution of the Fokker-Planck-Kolmogorov equation in amplitude and phase variables for nonlinear oscillatory systems. (Russian) **93b:34071**
— A new approach to the solution of the stationary Fokker-Planck-Kolmogorov equation for randomly oscillatory nonlinear systems. (Russian. Russian and Ukrainian summaries) **93g:34087**
Ostoja-Starzewski, Martin (*with* Longuski, James M.) Stochastic Hill's equations for the study of errant rocket burns in orbit. (English summary) **93i:70028**
Sinitsyn, I. N. Finite-dimensional distributions with an invariant measure in stochastic mechanical systems. (Russian) **93m:34083**
— *see also* **Moshchuk, N. K., 93c:60086** *and* **93e:34083**
Sobczyk, Kazimierz ★ Stochastic differential equations. **93f:60091**
Spanos, Pol-T. D. (*with* Donley, M. G.) Nonlinear multi-degree-of-freedom system random vibration by equivalent statistical quadratization. (English summary) **93f:73072**
Sri Namachchivaya, N. (*with* Van Roessel, H. J.) Maximal Lyapunov exponent and rotation numbers for two coupled oscillators driven by real noise. (English summary) **93m:60125**
Tirapegui, Enrique *see* **Calisto, H.; et al., 93j:58095**
Van Roessel, H. J. *see* **Sri Namachchivaya, N., 93m:60125**
(Verga, A. D.) *see* **Calisto, H.; et al., 93j:58095**
Xie, Wei Chau *see* **Ariaratnam, S. T., 93g:73092**

70M20 Orbital mechanics

Beletskii, V. V. (*with* Grushevskii, A. V.) Evolution of rotational motions of a satellite under the action of a dissipative aerodynamical moment. (Russian. English summary) **93a:70026**
Breakwell, J. V. (*with* Janssens, F. L.) On the traverse vibrations of a revolving tether. (English summary) **93h:70023**
Brookes, C. J. Near-circular orbits within a rotating oblate atmosphere with a diurnal variation in density and variable density scale height. **93b:70028**
— Air drag correction for satellite orbits of low eccentricity. (English summary) **93e:70011**
Chaikin, S. V. Relative equilibrium positions on a circular orbit of a flexible satellite and their stability. (Russian. Russian summary) **93g:70030**
Delhaise, Fabienne (*with* Henrard, Jacques) The problem of critical inclination combined with a resonance in mean motion in artificial satellite theory. (English summary)
Dionysiou, D. D. (*with* Zois, A. K.; Iakovidis, K. G.) Artificial satellites and the three-body problem: a general case. **93a:70027**
Furta, Stanislav D. On the instability of "folded" equilibria of a flexible nonstretchable thread attached to the satellite in a circular orbit. **93b:70029**
Grushevskii, A. V. *see* **Beletskii, V. V., 93a:70026**
Henrard, Jacques *see* **Delhaise, Fabienne**
Iakovidis, K. G. *see* **Dionysiou, D. D.; et al., 93a:70027**
Janssens, F. L. *see* **Breakwell, J. V., 93h:70023**
Longuski, James M. *see* **Ostoja-Starzewski, Martin, 93i:70028**
Mioc, Vasile (*with* Radu, Eugenia) Drag perturbations in the nodal period for circular satellite orbits. (English summary)
Ostoja-Starzewski, Martin (*with* Longuski, James M.) Stochastic Hill's equations for the study of errant rocket burns in orbit. (English summary) **93i:70028**
Radu, Eugenia *see* **Mioc, Vasile**
Sidorenko, V. V. Stationary motions of a satellite with elastic rods that admits a symmetry group. (Russian) **93a:70028**
Tikhonov, A. A. Influence of the inhomogeneity of the geomagnetic field on the evolution of the rotational motion of a charged rigid body. (Russian. English summary) **93b:70030**
Zois, A. K. *see* **Dionysiou, D. D.; et al., 93a:70027**

Items with secondary classifications in 70M20

Abad, A. *see* **Elipe Sánchez, Antonio C.; et al., 93k:70010**
Arribas, M. *see* **Elipe Sánchez, Antonio C.; et al., 93k:70010**
Broucke, R. A. The effects of the J_3-harmonic (pear shape) on the orbits of a satellite. (*see* **93i:70002**)
Brumberg, V. A. *see* **Jupp, A. H., 93g:70019**
Cavas, J. A. (*with* Vigueras Campuzano, Antonio) Analytic integration of a particular case of the problem of the rotational motion of a gyrostat with a fixed point in a central Newtonian field. (Spanish. English summary) **93k:70007**
Celletti, Alessandra Stability of satellites in spin-orbit resonances and capture probabilities. (English summary) (*see* **93i:70002**)
Elipe Sánchez, Antonio C. (*with* Abad, A.; Arribas, M.) Scaling Hamiltonians in attitude dynamics of two rigid bodies. (English summary) **93k:70010**
Fernández-Ferreirós Erviti, Ana *see* **Ferrándiz Leal, José Manuel, 93b:70012**
Ferrándiz Leal, José Manuel (*with* Fernández-Ferreirós Erviti, Ana) Exact linearization of nonplanar intermediary orbits in the satellite theory. **93b:70012**
— (*with* San Saturio Lapeña, María Eugenia; Pojman, Joseph R.) Increased accuracy of computations in the main satellite problem through linearization methods. (English summary) **93f:70001**
Guran, A. Chaotic motion of a Kelvin type gyrostat in a circular orbit. (English summary)
Irigoyen, Maÿlis (*with* Simó, Carles) Nonintegrability of the J_2 problem. (English summary) **93k:70020**
Jupp, A. H. (*with* Brumberg, V. A.) Relativistic effects in the critical inclination problem in artificial satellite theory. **93g:70019**
Kholostova, O. V. On the stability of a particular motion of a rigid body with an elastoviscous membrane on a circular orbit. (Russian) **93d:70012**
Krishnaprasad, P. S. *see* **Wang, Li Sheng; et al., 93i:70009**
Kunitsyn, A. L. (*with* Matveev, M. V.) On the stability of a class of reversible systems. (Russian) **93b:34064**
Maddocks, John H. *see* **Wang, Li Sheng; et al., 93i:70009**
Matveev, M. V. *see* **Kunitsyn, A. L., 93b:34064**
Melton, Robert G. *see* **Ross, I. Michael, 93m:70028**
Naĭshul', A. B. The three-dimensional motion of a particle. (Russian. Russian summary) **93g:70008**
Pojman, Joseph R. *see* **Ferrándiz Leal, José Manuel; et al., 93f:70001**
Ross, I. Michael (*with* Melton, Robert G.) Singular arcs for blunt endoatmospheric vehicles. (English summary) **93m:70028**
San Saturio Lapeña, María Eugenia *see* **Ferrándiz Leal, José Manuel; et al., 93f:70001**
Simó, Carles Measuring the lack of integrability of the J_2 problem for Earth's satellites. (English summary) (*see* **93i:70002**)
— *see also* **Irigoyen, Maÿlis, 93k:70020**
Vigueras Campuzano, Antonio *see* **Cavas, J. A., 93k:70007**
Wang, Li Sheng (*with* Maddocks, John H.; Krishnaprasad, P. S.) Steady rigid-body motions in a central gravitational field. (English summary) **93i:70009**

70P05 Variable mass, rockets

Muzzio, Juan C. *see* **Plastino, Angel R., 93b:70031**
Plastino, Angel R. (*with* Muzzio, Juan C.) On the use and abuse of Newton's second law for variable mass problems. **93b:70031**

Items with secondary classifications in 70P05

Chen, Li Qun (*with* Wang, Tie Guang) A generalized MacMillan equation for controllable variable-mass mechanical systems. (Chinese. English summary) **93c:70018**
Dovletov, A. M. *see* **Dovletov, M.**
Dovletov, M. (*with* Dovletov, A. M.) A method for integrating equations of the dynamics of a variable mass with impulse coupling factors. (Russian)
Luk'yanov, L. G. Zero-velocity surfaces in the restricted three-body problem with variable masses. (Russian) **93k:70014**
Luo, Shao Kai (*with* Mei, Feng Xiang) The principles of least action of variable mass nonholonomic nonconservative system in noninertial reference frames. (Chinese. English and Chinese summaries) **93j:70006**
— (*with* Zhang, Kong Hui) The generalized Tsenov method for variable mass arbitrary order nonlinear nonholonomic systems in noninertial reference frames. (Chinese. English and Chinese summaries) **93m:70016**
Mei, Feng Xiang *see* **Luo, Shao Kai, 93j:70006**
Wang, Tie Guang *see* **Chen, Li Qun, 93c:70018**
Zhang, Kong Hui *see* **Luo, Shao Kai, 93m:70016**

70Q05 Control of mechanical systems [see also 49–XX, 73K50, 93Cxx, 93Dxx]

Aeyels, Dirk On stabilization by means of the energy-Casimir method. (English summary) **93f:70029**
Aleksandrov, A. G. (*with* Brutyan, V. Kh.) Optimization of the soft landing of a spacecraft on the surface of the moon. (Russian. Russian summary) (*see* **93m:93004**)
d'Andréa-Novel, B. *see* **Campion, Guy; et al., 93f:70030**
Arimoto, Suguru Passivity of robot dynamics implies capability of motor program learning. (English summary) (*see* **93d:70002**)
Bastin, G. *see* **Campion, Guy; et al., 93f:70030**
Brutyan, V. Kh. *see* **Aleksandrov, A. G., (93m:93004)**
Burdo, O. S. (*with* Gorin, V. V.; Dargeiko, M. M.) On the error estimation problem in determining location in inertial navigation problems. (Russian. Russian summary) **93k:70038**
Campion, Guy (*with* d'Andréa-Novel, B.; Bastin, G.) Controllability and state feedback stabilizability of nonholonomic mechanical systems. (English summary) **93f:70030**
Canudas de Wit, Carlos (*with* Fixot, N.) Adaptive control of robot manipulators via velocity estimated feedback. (English summary) **93f:70031**
— *see also* **Nielsen, Lars; et al., 93f:70035**
Chaumette, François *see* **Espiau, Bernard, (93d:70002)**
Chen, Li Qun (*with* Wang, Tie Guang) A generalized MacMillan equation for controllable variable-mass mechanical systems. (Chinese. English summary) **93c:70018**
(Chen, Yi-Feng) *see* **Myszkorowski, Piotr**
Chiaverini, Stefano (*with* Sciavicco, Lorenzo; Siciliano, Bruno) Control of robotic systems through singularities. (English summary) **93f:70032**
Dargeiko, M. M. *see* **Burdo, O. S.; et al., 93k:70038**
Dunskaya, N. V. Lyapunov functions in problems of the design of a control for mechanical systems by the objective potential method. (Russian. Russian summary) (*see* **93m:93005**)
Espiau, Bernard (*with* Chaumette, François) Some issues in the control of rigid robots in a sensory space. (English summary) (*see* **93d:70002**)
Feng, Zu Ren *see* **Jiang, Fan; et al., 93b:70032**
Fitzmorris, Alan *see* **Ghorbel, Fathi; et al., 93f:70033**
Fixot, N. *see* **Canudas de Wit, Carlos, 93f:70031**
Ghorbel, Fathi (*with* Fitzmorris, Alan; Spong, Mark W.) Robustness of adaptive control of robots: theory and experiment. (English summary) **93f:70033**
Gorin, V. V. *see* **Burdo, O. S.; et al., 93k:70038**
Hagander, Per *see* **Nielsen, Lars; et al., 93f:70035**
Jiang, Fan (*with* Feng, Zu Ren; Shi, Ren) A study on adaptive impedance control of robots. (Chinese. English summary) **93b:70032**
Krut'ko, P. D. Adaptive algorithms for the control of rotational motions and spatial orientation of a rigid body. (Russian) **93i:70029**
Kubyshkin, E. P. Optimal control of the rotation of a solid body with a flexible rod. (Russian. Russian summary) **93i:70030**
Ma, Xian (*with* Peng, Hong Cai; Yang, Hua) Variable structure control for a robot's A.C. servo system. (Chinese. English and Chinese summaries)
Melton, Robert G. *see* **Ross, I. Michael, 93m:70028**
(Mita, Tsutomu) *see* **Myszkorowski, Piotr**
Mukherjee, Ranjan *see* **Nakamura, Yoshihiko, 93f:70034**
Myszkorowski, Piotr Comments on: "A new and simple algorithm for sliding mode trajectory control of the robot arm" [IEEE Trans. Automat. Control **35** (1990), no. 7, 828–829] by Y.-F. Chen, T. Mita and S. Wakui.

Nakamura, Yoshihiko (*with* Mukherjee, Ranjan) Nonlinear control for the nonholonomic motion of space robot systems. (English summary) **93f:70034**

Naumenko, K. I. Design of a system for the control of the orientation of a rigid body. (Russian. Russian summary) (*see* **93m:00038**)

Nielsen, Lars (*with* Canudas de Wit, Carlos; Hagander, Per) Controllability issues of robots near singular configurations. (English summary) **93f:70035**

Onishchenko, S. M. Solution of the navigation problem (SINS) by the second Lyapunov problem under conditions of uncertainty. (Russian. Russian summary) **93k:70039**

Peng, Hong Cai *see* **Ma, Xian; et al.**

Polozhii, T. G. Control of a linear nonstationary inertial navigational system. (Russian. Russian summary) **93g:70031**

Ross, I. Michael (*with* Melton, Robert G.) Singular arcs for blunt endoatmospheric vehicles. (English summary) **93m:70028**

Rulla, Jim A priori estimates for the optimal control of an oscillating water column. (English summary) **93k:70040**

Samson, Claude Velocity and torque feedback control of a nonholonomic cart. (English summary) **93g:70032**

Sciavicco, Lorenzo *see* **Chiaverini, Stefano; et al., 93f:70032**

Shi, Ren *see* **Jiang, Fan; et al., 93b:70032**

Siciliano, Bruno *see* **Chiaverini, Stefano; et al., 93f:70032**

Spong, Mark W. *see* **Ghorbel, Fathi; et al., 93f:70033**

Su, Chun Yi (*with* Zhou, Qi Jie) An adaptive force/position scheme for constrained robot manipulators. (Chinese. English and Chinese summaries)

(Wakui, Shinji) *see* **Myszkorowski, Piotr**

Wang, He Xiang *see* **Yin, Yi Can; et al.**

Wang, Tie Guang *see* **Chen, Li Qun, 93c:70018**

Wei, Jin Duo *see* **Yin, Yi Can; et al.**

Yang, Hua *see* **Ma, Xian; et al.**

Yin, Yi Can (*with* Wang, He Xiang; Wei, Jin Duo) Control of a moving flexible robot arm with variable sections. (Chinese. English and Chinese summaries)

Zhou, Qi Jie *see* **Su, Chun Yi**

Items with secondary classifications in 70Q05

Abidi, Mongi A. Fusion of multi-dimensional data using regularization. (*see* **93g:68002**)

Afanas'ev, V. N. (*with* Neusypin, K. A.) A method for the compensation of dynamic errors of inertial systems. (Russian. Russian summary)

Ahmad, Shaheen (*with* Zribi, Mohamed) Lyapunov based control design for multiple robots handling a common object. **93b:93075**

— (*with* Zribi, Mohamed) Lyapunov-based control design for multiple robots handling a common object. (English summary) **93i:93085**

d'Andréa-Novel, B. (*with* Martin, Philippe; Sepulchre, R.) Full linearization of a class of mechanical systems via dynamic state feedback. (English summary) (*see* **93g:93006**)

Antonyuk, E. Ya. (*with* Larin, V. B.; Pedchenko, A. M.) An algorithm for the choice of generalized coordinates. (Russian) **93b:70015**

Ardema, M. D. (*with* Skowronski, J. M.) Dynamic game applied to coordination control of two arm robotic system. (English summary) **93f:93088**

Berbyuk, V. E. (*with* Yanchak, Ya. I.) Speed optimization of transport motion of a portal robot. (Russian) **93d:93055**

Berghuis, Harry (*with* Nijmeijer, Henk; Löhnberg, Peter) An addendum on: "Robust control of robots by the computed torque method [law]" [Systems Control Lett. **16** (1991), no. 1, 25–32; MR 91j:93066] by Z. Qu, J. F. Dorsey, X. Zhang and D. M. Dawson. (English summary) **93g:93055**

Bhat, M. Seetharama *see* **Vittal, R. Vijaya, (93g:93003)**

Bloch, Anthony M. (*with* Krishnaprasad, P. S.; Marsden, Jerrold Eldon; Sánchez de Alvarez, G.) Stabilization of rigid body dynamics by internal and external torques.

Boichuk, L. M. (*with* Savenkov, A. I.; Yakovlev, V. P.; Yatsenko, V. A.; Yaremenko, N. P.) Synthesizing an optimal control for a class of mechanical systems (rolling stock) and stabilizing its dynamics. (Russian. English, Russian and Ukrainian summaries) **93f:93060**

Borisov, A. V. *see* **Sot·skii, N. M., (93g:00022)**

Botkin, N. D. (*with* Zhukov, S. P.; Krasov, A. I.) A combined method for the control of the landing of an aircraft. (Russian. Russian summary) (*see* **93f:93004**)

Bressan, Aldo On control theory and its applications to certain problems for Lagrangian systems. On hyper-impulsive motions for these. III. Strengthening of the characterizations performed in Parts I and II, for Lagrangian systems. An invariance property. (Italian summary) **93a:93014**

— Hyper-impulsive motions and controllizable coordinates for Lagrangian systems. (Italian summary) **93m:70021**

— (*with* Favretti, Marco) On motions with bursting characters for Lagrangian mechanical systems with a scalar control. I. Existence of a wide class of Lagrangian systems capable of motions with bursting characters. (Italian summary) **93b:93054**

— (*with* Favretti, Marco) On motions with bursting characters for Lagrangian mechanical systems with a scalar control. II. A geodesic property of motions with bursting characters for Lagrangian systems. (Italian summary) **93d:93045**

Broida, T. J. Kinematic and statistical models for data fusion using Kalman filtering. (*see* **93g:68002**)

Brown, Christopher (*with* Durrant-Whyte, H.; Leonard, J.; Rao, B. Y.; Steer, Brian) Distributed data fusion using Kalman filtering: a robotics application. (*see* **93g:68002**)

Burdakov, S. F. Decentralized robot motion control with dynamical compensation and high gain. (Russian. Russian summary)

Canudas de Wit, Carlos Adaptive control of robot manipulators using only position feedback. (*see* **93a:93005**)

— *see also* **Advanced robot control, 93d:70002**

Casavola, Alessandro (*with* Mosca, Edoardo) H_∞ and H_2 simple controllers for robotic applications. **93g:93056**

Chen, Yaobin Structure of the time-optimal control law for multiple arms handling a common object along specified paths. (English summary) **93k:93069**

— (*with* Chien, Stanley Y.-P.; Desrochers, Alan A.) General structure of time-optimal control of robotic manipulators moving along prescribed paths. (English summary) **93f:93089**

— (*with* Desrochers, Alan A.) Minimum-time control laws for robotic manipulators. (English summary) **93k:93070**

Chernous'ko, F. L. Design of a control of a nonlinear dynamical system. (Russian. Russian summary) **93h:93028**

Chien, Stanley Y.-P. *see* **Chen, Yaobin; et al., 93f:93089**

Corless, Martin (*with* Da, D.) Stability robustness of linear feedback controlled flexible mechanical systems. **93b:93082**

Coron, Jean-Michel Global asymptotic stabilization for controllable systems without drift. **93m:93084**

Da, D. *see* **Corless, Martin, 93b:93082**

(Dawson, Darren M.) *see* **Berghuis, Harry; et al., 93g:93055**

Denker, Ahmet *see* **Kaynak, Okyay, 93m:93019**

Desrochers, Alan A. *see* **Chen, Yaobin; et al., 93f:93089** *and* **93k:93070**

Di Benedetto, Maria Domenica (*with* Lucibello, P.) An inversion procedure for nonlinear time-varying systems. (English summary) **93e:93044**

— *see also* **Fossen, Thor I.**

Diligenskii, S. N. (*with* Efremov, A. Yu.) On the synthesis of robust laws for the stabilization of the motion of aircraft. (Russian. Russian summary)

(Dorsey, John F.) *see* **Berghuis, Harry; et al., 93g:93055**

Dugard, Luc *see* **M'Saad, M.; et al.**

Durrant-Whyte, H. *see* **Brown, Christopher; et al., (93g:68002)**

Eason, R. O. (*with* Gonzalez, Rafael C.) Least-squares fusion of multisensory data. (*see* **93g:68002**)

Efremov, A. Yu. *see* **Diligenskii, S. N.**

Egorov, S. N. Solution of a Lyapunov matrix differential equation with constant coefficients. (Russian. Russian summary) **93m:34096**

Enns, Dale F. *see* **Garrard, William L.; et al.**

Favretti, Marco *see* **Bressan, Aldo, 93b:93054** *and* **93d:93045**

Fliegner, Thomas *see* **Steigenberger, Joachim, 93i:70007**

Fossen, Thor I. Comments on: "Hamiltonian adaptive control of spacecraft" [IEEE Trans. Automat. Control **35** (1990), no. 7, 848–852] by J.-J. E. Slotine and M. D. Di Benedetto. (English summary)

Fratini, A. *see* **Jetto, L.; et al., (93g:93004)**

Furuta, Katsuhisa Intelligent control in robotics. (English summary) (*see* **93g:93006**)

Garrard, William L. (*with* Enns, Dale F.; Snell, S. Antony) Nonlinear feedback control of highly manoeuvrable aircraft. (English summary)

Gonzalez, Rafael C. *see* **Eason, R. O., (93g:68002)**

González-López, M. J. (*with* Recio Muñiz, Tomás J.) The modified Laumond algorithm for planning tasks for robots. (Spanish) (*see* **93b:68004**)

Gubaidullin, S. M. (*with* Shikin, E. V.) Tracking domains on a cylinder and a torus. (Russian. Russian summary) **93f:90207**

Guo, Qiao A new kind of decentralized adaptive robust control scheme with task comparability for a redundant manipulator. (Chinese. English and Chinese summaries)

Ham, Woonchul Adaptive control based on explicit model of robot manipulator. (English summary)

Hammad, Sh. *see* **M'Saad, M.; et al.**

Hodgson, S. P. *see* **Stoten, D. P.**

Holm, Darryl D. (*with* Marsden, Jerrold Eldon) The rotor and the pendulum. **93f:58075**

Hong, G. S. *see* **Zhu, H. A.; et al.**

Huang, Han Pang (*with* Lin, Marlon) Robust force control for robotic manipulators. (English summary)

Imura, J. (*with* Sugie, Toshiharu; Yoshikawa, Tsuneo) Adaptive robust control of robot manipulators. (English summary) (*see* **93g:93006**)

Isakov, A. V. Optimal damping of nutational oscillations of a body stabilized by rotation. A pendulum damper. (Russian. Russian summary) (*see* **93m:93005**)

Isobe, Toyosaku (*with* Nagasaka, Kengo; Yamamoto, Shinji) A new approach to kinematic control of simple manipulators. (English summary)

Itoh, T. *see* **Sampei, M.; et al., (93g:93006)**

Iyer, Ashok *see* **Subbarao, G. V.**

Jetto, L. (*with* Longhi, Sauro; Fratini, A.) Adaptive deadbeat trajectory tracking for robotic manipulators. (English summary) (*see* **93g:93004**)

Johnson, Helen M. Model reference adaptive control of a nonlinear oscillator. (English summary) **93k:93061**

Kalinnikov, V. G. Active damping of oscillations of a rotating linkage. (Russian. Russian summary) **93k:73059**

Kawaguchi, Y. (*with* Kikuta, T.; Miyazaki, F.) Map aided flexible trajectory generation for a mobile robot. (English summary) (*see* **93g:93006**)

Kaynak, Okyay (*with* Denker, Ahmet) Discrete-time sliding mode control in the presence of system uncertainty. (English summary) **93m:93019**

Kein, V. M. (*with* Patsko, V. S.; Turova, V. L.) The problem of landing an aircraft under windshear conditions. (Russian. Russian summary) (*see* **93f:93004**)

Kikuta, T. *see* **Kawaguchi, Y.; et al., (93g:93006)**

Kliem, W. R. Symmetrizable systems in mechanics and control theory. (English summary) **93d:70035**

Ko, Kwang-Soob (*with* Read, Russell K.) Stochastic robot forward dynamics with spatially distributed measurement noise. (English summary)

Koshlyakov, V. N. (*with* Novitskii, V. V.; Onishchenko, S. M.) Analytic synthesis of controllable gyroscopic and navigational systems. (Russian. Russian summary) (*see* **93f:00007**)

Kozłowski, Krzysztof New computational algorithms for a discrete Kalman filter in robot dynamics. (English, Russian and Polish summaries)

Krak, Yu. V. (*with* Semenyuk, Yu. V.) An algorithm for minimizing the complexity of equations of the dynamics of a manipulator. (Russian. Russian summary)

Krasov, A. I. *see* **Botkin, N. D.; et al., (93f:93004)**

Krishnan, Hariharan *see* **McClamroch, N. Harris, 93f:93086**

Krishnaprasad, P. S. *see* **Bloch, Anthony M.; et al.**

Lanari, Leonardo (*with* Wen, John T.) Asymptotically stable set point control laws for flexible robots. (English summary)

Langari, G. *see* **Shahruz, S. M.; et al., 93c:34137**

Larcombe, P. J. On the control of a two-dimensional multi-link inverted pendulum: the

form of the dynamic equations from choice of coordinate system. (English summary) **93m:93063**

— (*with* Torsney, Ben) On the control of a two-dimensional uniform multi-link inverted pendulum: the enumeration and identification of equilibrium states. (English summary) **93m:93064**

Larin, V. B. *see* **Antonyuk, E. Ya.; et al., 93b:70015**

Ledwich, G. F. *see* **Teng, F. C.; et al.**

Lee, Allan Y. Solving constrained minimum-time robot problems using the sequential gradient restoration algorithm. (English summary)

Leitmann, George (*with* Reithmeier, Eduard) Semiactive control of a vibrating system by means of electrorheological fluids. (English summary)

Leonard, J. *see* **Brown, Christopher; et al., (93g:68002)**

Lin, Marlon *see* **Huang, Han Pang**

Llanes-Santiago, Orestes *see* **Sira-Ramirez, Hebertt J.**

Löhnberg, Peter *see* **Berghuis, Harry; et al., 93g:93055**

Longhi, Sauro *see* **Jetto, L.; et al., (93g:93004)**

Longuski, James M. *see* **Ostoja-Starzewski, Martin, 93i:70028**

Lü, Bing Chao A design of adaptive control algorithms for robot manipulator systems. (Chinese. English and Chinese summaries) **93h:93047**

Lu, Gui Zhang *see* **Wang, Guo Li**

Lucibello, P. *see* **Di Benedetto, Maria Domenica, 93e:93044**

Ma, L. Y. X. *see* **Tso, S. K.**

Marsden, Jerrold Eldon *see* **Holm, Darryl D., 93f:58075** *and* **Bloch, Anthony M.; et al.**

Martin, Philippe *see* **d'Andréa-Novel, B.; et al., (93g:93006)**

Mayeda, Hirokazu *see* **Osuka, K.; et al., (93g:93006)**

McClamroch, N. Harris (*with* Krishnan, Hariharan) Nonstandard singularly perturbed control systems and differential-algebraic equations. **93f:93086**

Melvin, W. W. *see* **Miele, A.; et al.**

Miele, A. (*with* Wang, Tong; Melvin, W. W.) Wind identification along a flight trajectory. II. 2D-kinematic approach. (English summary)

— (*with* Wang, Tong; Tzeng, C. Y.; Melvin, W. W.) Wind identification along a flight trajectory. III. 2D-dynamic approach. (English summary)

Miyazaki, F. *see* **Kawaguchi, Y.; et al., (93g:93006)**

Mosca, Edoardo *see* **Casavola, Alessandro, 93g:93056**

M'Saad, M. (*with* Dugard, Luc; Hammad, Sh.) A suitable generalized predictive adaptive controller case study: control of a flexible arm. (English summary)

Mukharlyamov, R. G. Mechanical systems with program constraints. (Russian) **93f:70018**

Nagasaka, Kengo *see* **Isobe, Toyosaku; et al.**

Nakamichi, M. *see* **Sampei, M.; et al., (93g:93006)**

Nakamura, Y. Geometric fusion: minimizing uncertainty ellipsoid volumes. (*see* **93g:68002**)

Natke, H. G. (*with* Zamirowski, M.) ARMAX modelling in structural dynamics—approximations of the differential equations of motion. (English and German summaries) **93k:93033**

Neusypin, K. A. *see* **Afanas'ev, V. N.**

Nicosia, S. (*with* Tornambè, Antonio; Valigi, Paolo) Observers in the control of rigid robots. (English summary) (*see* **93d:70002**)

— (*with* Tomei, Patrizio) Attitude control of spacecraft by using only angular positions. (English summary) (*see* **93g:93006**)

Nijmeijer, Henk *see* **Berghuis, Harry; et al., 93g:93055**

Novitskiĭ, V. V. Application of modal decomposition for the control of interval mechanical systems with a given ensured reserve of stability. (Russian. Russian summary) (*see* **93f:00007**)

— *see also* **Koshlyakov, V. N.; et al., (93f:00007)**

Onishchenko, S. M. *see* **Koshlyakov, V. N.; et al., (93f:00007)**

Ono, Toshiro *see* **Osuka, K.; et al., (93g:93006)**

Ostoja-Starzewski, Martin (*with* Longuski, James M.) Stochastic Hill's equations for the study of errant rocket burns in orbit. (English summary) **93i:70028**

Osuka, K. (*with* Ono, Toshiro; Mayeda, Hirokazu) Further results on the identification method for serial manipulators. (English summary) (*see* **93g:93006**)

Patsko, V. S. *see* **Kein, V. M.; et al., (93f:93004)**

Pavlov, V. V. *see* **Volkovich, V. V.**

Pedchenko, A. M. *see* **Antonyuk, E. Ya.; et al., 93b:70015**

Perevozchikov, A. G. A method for the optimization of the construction of a robot that is based on finite-dimensional approximation of function spaces. (Russian) (*see* **93k:00021**)

Polotskiĭ, V. N. Stabilization and control of the spectrum of mechanical systems with incomplete information about the state. (Russian. Russian summary) (*see* **93m:93005**)

Poo, A. N. *see* **Zhu, H. A.; et al.**

Puta, Mircea A new proof of a theorem due to Aeyels and Szafranski. (English summary) **93k:93097**

(Qu, Zhihua) *see* **Berghuis, Harry; et al., 93g:93055**

Rao, B. Y. *see* **Brown, Christopher; et al., (93g:68002)**

Read, Russell K. *see* **Ko, Kwang-Soob**

Recio Muñiz, Tomás J. *see* **González-López, M. J., (93b:68004)**

Reithmeier, Eduard *see* **Leitmann, George**

Sain, Michael K. *see* **Suhardjo, J.; et al., 93d:49027**

Sampei, M. (*with* Itoh, T.; Nakamichi, M.) Application of linearization technique and time scale transformation to trajectory control of tricycle-type mobile robot. (English summary) (*see* **93g:93006**)

Sánchez de Alvarez, G. *see* **Bloch, Anthony M.; et al.**

Savenkov, A. I. (*with* Yakovlev, V. P.) Decomposition of the modal method for the identification of complex mechanical systems. (Russian. Russian summary)

— *see also* **Boichuk, L. M.; et al., 93f:93060**

Schwartz, Jacob T. (*with* Sharir, Micha) Finding effective "force targets" for two-dimensional, multifinger frictional grips. **93d:70006**

Semenyuk, Yu. V. *see* **Krak, Yu. V.**

Sepulchre, R. *see* **d'Andréa-Novel, B.; et al., (93g:93006)**

Shahruz, S. M. (*with* Langari, G.; Tomizuka, Masayoshi) Optimal damping ratio for linear second-order systems. **93c:34137**

Shannon, G. *see* **Teng, F. C.; et al.**

Sharir, Micha *see* **Schwartz, Jacob T., 93d:70006**

Shikin, E. V. *see* **Gubaidullin, S. M., 93f:90207**

Sira-Ramirez, Hebertt J. (*with* Llanes-Santiago, Orestes) Pulse-width-modulation control of some mechanical systems. (English summary)

Skowronski, J. M. *see* **Ardema, M. D., 93f:93088**

(Slotine, Jean-Jacques) *see* **Fossen, Thor I.**

Smol'nikov, B. A. ★ Проблемы механики и оптимизации роботов. (Russian) [Problems in the mechanics and optimization of robots] **93a:70003**

Snell, S. Antony *see* **Garrard, William L.; et al.**

Sot·skiĭ, N. M. (*with* Borisov, A. V.) A method for estimating the motion of a particle by means of two filters. (Russian) (*see* **93g:00022**)

Spencer, Billie F., Jr. *see* **Suhardjo, J.; et al., 93d:49027**

Sreenath, N. Nonlinear control of planar multibody systems in shape space. (English summary) **93f:93065**

Steer, Brian *see* **Brown, Christopher; et al., (93g:68002)**

Steigenberger, Joachim (*with* Fliegner, Thomas) Stability of a disturbance decoupled rigid body. (English summary) **93i:70007**

Stepanenko, Yu. *see* **Yuan, Jing**

Stokić, D. *see* **Vukobratović, M., 93d:93057**

Stoten, D. P. (*with* Hodgson, S. P.) The application of the minimal control synthesis algorithm to the hybrid control of a class 1 manipulator. (English summary)

Subbarao, G. V. (*with* Iyer, Ashok) Nonlinear excitation and governor control using variable structures. (English summary)

Sugie, Toshiharu *see* **Imura, J.; et al., (93g:93006)**

Suhardjo, J. (*with* Spencer, Billie F., Jr.; Sain, Michael K.) Nonlinear optimal control of a Duffing system. **93d:49027**

Sun, Fu Chun (*with* Sun, Zeng Qi) The discrete-time controller design based on sliding mode for manipulators. (English and Chinese summaries)

Sun, Zeng Qi *see* **Sun, Fu Chun**

Teng, F. C. (*with* Ledwich, G. F.; Shannon, G.) Adaptive control scheme for a robot manipulator: direct decoupler and PID controller. (English summary)

Teo, C. L. *see* **Zhu, H. A.; et al.**

Timofeev, D. S. Optimal control of the motion of an object in four-dimensional space. (Russian. Russian summary) **93g:49012**

Tkachenko, A. I. A variational treatment of dual methods for the calculation of velocity. (Russian. Russian summary) **93m:70004**

Tomei, Patrizio *see* **Nicosia, S., (93g:93006)**

Tomizuka, Masayoshi *see* **Shahruz, S. M.; et al., 93c:34137**

Tornambè, Antonio *see* **Nicosia, S.; et al., (93d:70002)**

Torsney, Ben *see* **Larcombe, P. J., 93m:93064**

Tso, S. K. (*with* Ma, L. Y. X.) Discrete learning control for robots: strategy, convergence and robustness. (English summary)

Turova, V. L. *see* **Kein, V. M.; et al., (93f:93004)**

Tyatyushkin, A. I. ★ Численные методы и программные средства оптимизации управляемых систем. (Russian. Russian summary) [Numerical methods and program means for optimization of control systems] **93i:49003**

Tzeng, C. Y. *see* **Miele, A.; et al.**

Valigi, Paolo *see* **Nicosia, S.; et al., (93d:70002)**

Vittal, R. Vijaya (*with* Bhat, M. Seetharama) Terminal guidance for a launch vehicle. (English summary) (*see* **93g:93003**)

Volkovich, V. V. (*with* Pavlov, V. V.) Analyzing the control of a dynamic object in curvilinear space. (Russian. English, Russian and Ukrainian summaries)

Vukobratović, M. (*with* Stokić, D.) Is adaptive control necessary for manipulation robots, and if so, to what degree? (Russian) **93d:93057**

Wang, Guo Li (*with* Lu, Gui Zhang) Modelling and control of nonslender flexible robot links. (English summary)

Wang, Tong *see* **Miele, A.; et al.**

Wen, John T. *see* **Lanari, Leonardo**

Yakovlev, V. P. *see* **Boichuk, L. M.; et al., 93f:93060** *and* **Savenkov, A. I.**

Yakovleva, L. M. Construction of a nonlinear controller for platform-free inertial navigational systems. (Russian. Russian summary)

Yamamoto, Shinji *see* **Isobe, Toyosaku; et al.**

Yanchak, Ya. I. *see* **Berbyuk, V. E., 93d:93055**

Yang, B. Eigenvalue inclusion principles for distributed gyroscopic systems. (English summary) **93i:70020**

Yaremenko, N. P. *see* **Boichuk, L. M.; et al., 93f:93060**

Yatsenko, V. A. *see* **Boichuk, L. M.; et al., 93f:93060**

Yoshikawa, Tsuneo Digital control of robot manipulators by computed torque method. (*see* **93f:93007**)

— *see also* **Imura, J.; et al., (93g:93006)**

Yuan, Jing (*with* Stepanenko, Yu.) Composite adaptive control of flexible joint robots. (English summary)

Yun, Xiao Ping Dynamic state feedback control of two cooperative manipulators. (English summary) **93k:93072**

Zamirowski, M. *see* **Natke, H. G., 93k:93033**

Zhang, Shu Shun The theorem of the stability of linear nonautonomous systems under the frequently-acting perturbation and its application in the stability analysis of robot. (Chinese. English summary) **93e:34070**

(Zhang, Xinfan) *see* **Berghuis, Harry; et al., 93g:93055**

Zhu, H. A. (*with* Teo, C. L.; Hong, G. S.; Poo, A. N.) An enhanced scheme for the model-based control of robot manipulators. (English summary)

Zhukov, S. P. *see* **Botkin, N. D.; et al., (93f:93004)**

(Zolésio, Jean-Paul) *see* **Stabilization of flexible structures, 93c:93006**

Zribi, Mohamed *see* **Ahmad, Shaheen, 93b:93075** *and* **93i:93085**

Items listed otherwise than by author

Advanced robot control ★ Advanced robot control. **93d:70002**

Conference:

Stabilization of Flexible Structures ★ Stabilization of flexible structures. **93c:93006**

Grenoble ★ Advanced robot control. **93d:70002**

Lecture Notes in Control and Information Sciences ★ Stabilization of flexible structures. **93c:93006**
— ★ Advanced robot control. **93d:70002**
Montpellier ★ Stabilization of flexible structures. **93c:93006**
Stabilization of flexible structures ★ Stabilization of flexible structures. **93c:93006**
Workshop:
Nonlinear and Adaptive Control: Issues in Robotics ★ Advanced robot control. **93d:70002**

73–XX Mechanics of solids

Items with secondary classifications in 73–XX

Castillo, Enrique (*with* Ruiz Cobo, María Reyes) ★ Functional equations and modelling in science and engineering. **93k:39006**
Ruiz Cobo, María Reyes *see* **Castillo, Enrique, 93k:39006**

73–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Items with secondary classifications in 73–00

Mackerle, Jaroslav ★ Finite element methods. **93d:00007**

73–01 Instructional exposition (textbooks, tutorial papers, etc.)

Babuška, Ivo M. *see* **Szabo, Barna A., 93f:73001**
Karasudhi, P. ★ Foundations of solid mechanics. **93d:73001**
Koya, Tatsuhito *see* **Mura, Toshio, 93j:73001**
Mura, Toshio (*with* Koya, Tatsuhito) ★ Variational methods in mechanics. **93j:73001**
Szabo, Barna A. (*with* Babuška, Ivo M.) ★ Finite element analysis. **93f:73001**

Items with secondary classifications in 73–01

Ball, J. M. Dynamic energy minimization and phase transformations in solids. (*see* **93b:00026**)
Ericksen, J. L. ★ Introduction to the thermodynamics of solids. **93d:73010**
Fließbach, Torsten ★ Mechanik. (German) [Mechanics] **93j:70001**
(Göhler, Wolfgang) *see* **Landau, L. D., 93b:00001d**
(Kozik, Benjamin) *see* **Landau, L. D., 93b:00001d**
Landau, L. D. (*with* Lifshits, E. M.) ★ Lehrbuch der theoretischen Physik ("Landau-Lifschitz"). Band VII. (German) [Textbook of theoretical physics ("Landau-Lifschitz"). Vol. VII] **93b:00001d**
Lifshits, E. M. *see* **Landau, L. D., 93b:00001d**
Makushok, E. M. ★ Самоорганизация деформационных процессов. (Russian) [Self-organization of deformation processes] **93f:73006**
(Schöpf, Hans-Georg) *see* **Landau, L. D., 93b:00001d**
Truesdell, Clifford A., III ★ A first course in rational continuum mechanics. Vol. 1. **93g:73003**
(Ziesche, Paul) *see* **Landau, L. D., 93b:00001d**

73–02 Research exposition (monographs, survey articles)

Maugin, Gérard A. ★ The thermomechanics of plasticity and fracture. **93i:73001**

Items with secondary classifications in 73–02

Argyris, John (*with* Mlejnek, Hans-Peter) ★ Dynamics of structures. **93c:73055**
Fabrizio, Mauro (*with* Morro, Angelo) ★ Mathematical problems in linear viscoelasticity. **93a:73034**
Iosif'yan, G. A. *see* **Oleĭnik, O. A.; et al., 93k:35025**
Kaveh, A. ★ Structural mechanics: graph and matrix methods. **93g:73074**
Mlejnek, Hans-Peter *see* **Argyris, John, 93c:73055**
Morro, Angelo *see* **Fabrizio, Mauro, 93a:73034**
Oleĭnik, O. A. (*with* Shamaev, A. S.; Iosif'yan, G. A.) ★ Mathematical problems in elasticity and homogenization. **93k:35025**
Shamaev, A. S. *see* **Oleĭnik, O. A.; et al., 93k:35025**

73–03 Historical (must also be assigned at least one classification number from Section 01)

Dill, Ellis Harold Kirchhoff's theory of rods. **93e:73001**

Items with secondary classifications in 73–03

(Appell, Paul) *see* **Encyclopedia: Pure and applied mathematical sciences, 93m:00055a** *and* **93m:00055b**
Bell, James F. The late twentieth-century resolution of a mid-nineteenth-century dilemma generated by the eighteenth-century experiments of Ernst Chladni on the dynamics of rods. **93d:01025**
Casey, James The principle of rigidification. **93f:73004**
(Chladni, Ernst) *see* **Bell, James F., 93d:01025**
(Euler, Leonhard) *see* **Fraser, Craig G., 93c:01017**
Fraser, Craig G. Mathematical technique and physical conception in Euler's investigation of the elastica. **93c:01017**
(Germain, Sophie) *see* **Truesdell, Clifford A., III, 93m:01039**
Mackerle, Jaroslav Finite and boundary elements and supercomputing—a bibliography (1989–1991). (English summary)
(Molk, Jules) *see* **Encyclopedia: Pure and applied mathematical sciences, 93m:00055a** *and* **93m:00055b**
Truesdell, Clifford A., III Sophie Germain: fame earned by stubborn error. **93m:01039**
— Cauchy and the modern mechanics of continua. (English and French summaries) **93k:01045**

Items listed otherwise than by author

Encyclopedia:
Pure and applied mathematical sciences ★ Encyclopédie des sciences mathématiques pures et appliquées. Tome IV. Vol. 1. (French) [Encyclopedia of the pure and applied mathematical sciences. Tome IV. Vol. 1] **93m:00055a**
— ★ Encyclopédie des sciences mathématiques pures et appliquées. Tome IV. Vol. 2. (French) [Encyclopedia of the pure and applied mathematical sciences. Tome IV. Vol. 2] **93m:00055b**

73–04 Explicit machine computation and programs (not the theory of computation or programming)

Balfour, James A. D. ★ Computer analysis of structural frameworks. **93f:73002**

Items with secondary classifications in 73–04

Brebbia, C. A. (*with* Domínguez, José) ★ Boundary elements: an introductory course. **93d:73069**
De Roeck, Yann-Hervé (*with* Le Tallec, Patrick; Vidrascu, Marina) A domain-decomposed solver for nonlinear elasticity. (English summary) **93g:73109**
Domínguez, José *see* **Brebbia, C. A., 93d:73069**
Doyle, James F. ★ Static and dynamic analysis of structures. **93i:73031**
Kalker, J. J. ★ Three-dimensional elastic bodies in rolling contact. **93e:73037**
Le Tallec, Patrick *see* **De Roeck, Yann-Hervé; et al., 93g:73109**
Mackerle, Jaroslav *see* **Zhong, Zhi-Hua, 93f:73096**
Novikov, N. A. *see* **Sporykhin, A. N., 93g:73115**
Oden, J. Tinsley *see* **Tworzydlo, W. W.**
Sporykhin, A. N. (*with* Novikov, N. A.) ★ Комбинированный подход Эйлера-Лагранжа в механике сплошной среды. (Russian) [The combined Euler-Lagrange approach in continuum mechanics] **93g:73115**
Tworzydlo, W. W. (*with* Oden, J. Tinsley) Towards an automated environment in computational mechanics. (English summary)
Vidrascu, Marina *see* **De Roeck, Yann-Hervé; et al., 93g:73109**
Zhong, Zhi-Hua (*with* Mackerle, Jaroslav) Static contact problems—a review. (English summary) **93f:73096**

73–06 Proceedings, conferences, collections, etc.

(Babuška, Ivo M.) *see* **Reliability in computational mechanics, 93g:73001**
(Chadwick, Peter) *see* **Elastic waves and related topics, 93f:73003**
(Del Piero, Gianpietro) *see* **Unilateral problems in structural analysis, 93a:73001**
(Demkowicz, Leszek) *see* **Reliability in computational mechanics, 93g:73001**
(Doltsinis, I. St.) *see* **Congress: Computational Mechanics, 93d:73002**
(Fitzgibbon, W. E.) *see* **Wave propagation and inversion, 93d:73004**
(Fomin, Vasiliĭ Mikhaĭlovich) *see* **Numerical methods for solving problems in elasticity and plasticity theory, 93k:73001**
(Maceri, F.) *see* **Unilateral problems in structural analysis, 93a:73001**
(Maugin, Gérard A.) *see* **Nonlinear waves in solids, 93d:73003**
(Oden, J. Tinsley) *see* **Reliability in computational mechanics, 93g:73001**
(Wheeler, Mary Fanett) *see* **Wave propagation and inversion, 93d:73004**
(Willis, J. R.) *see* **Elastic waves and related topics, 93f:73003**

Items listed otherwise than by author

All-Union Conference:
Numerical Methods for Solving Problems in Elasticity and Plasticity Theory ★ Численные методы решения задач теории упругости и пластичности. (Russian) [Numerical methods for solving problems in elasticity and plasticity theory] **93k:73001**
Capri ★ Unilateral problems in structural analysis. IV. **93a:73001**
Conference:
Chadwick, Peter ★ Elastic waves and related topics. **93f:73003**
Congress:
Computational Mechanics ★ Second World Congress of Computational Mechanics. **93d:73002**
Dublin ★ Elastic waves and related topics. **93f:73003**
Elastic waves and related topics ★ Elastic waves and related topics. **93f:73003**
Kraków ★ Reliability in computational mechanics. **93g:73001**
Meeting:
Unilateral Problems in Structural Analysis ★ Unilateral problems in structural analysis. IV. **93a:73001**
Minisymposium:
Nonlinear Waves in Deformable Solids ★ Nonlinear waves in solids. **93d:73003**
Nonlinear waves in solids ★ Nonlinear waves in solids. **93d:73003**
Numerical methods for solving problems in elasticity and plasticity theory ★ Численные методы решения задач теории упругости и пластичности. (Russian) [Numerical methods for solving problems in elasticity and plasticity theory] **93k:73001**
Reliability in computational mechanics ★ Reliability in computational mechanics. **93g:73001**
Stuttgart ★ Second World Congress of Computational Mechanics. **93d:73002**
Unilateral problems in structural analysis ★ Unilateral problems in structural analysis. IV. **93a:73001**
Volgograd ★ Численные методы решения задач теории упругости и пластичности. (Russian) [Numerical methods for solving problems in elasticity and plasticity theory] **93k:73001**
Washington, DC ★ Nonlinear waves in solids. **93d:73003**
Wave propagation and inversion ★ Wave propagation and inversion. **93d:73004**

Workshop:
Reliability in Computational Mechanics ★ Reliability in computational mechanics. **93g:73001**

Items with secondary classifications in 73–06

(Aliabadi, M. Hosseini) *see* **Adaptive finite and boundary element methods, 93m:65005**
(Anderson, Gary L.) *see* **Intelligent structural systems, 93e:73030**
(Brebbia, C. A.) *see* **Adaptive finite and boundary element methods, 93m:65005**
(Canuto, Claudio) *see* **Spectral and high order methods for partial differential equations, 93d:65005**
(Eringen, A. Cemal) *see* **Eringen anniversary issue, 93e:00032**
(Goldstein, Jerome A.) *see* **Differential equations with applications in biology, physics, and engineering, 93a:00021**
(Idelsohn, Sergio R.) *see* **MECOM '91, 93i:00019**
(Kappel, Franz) *see* **Differential equations with applications in biology, physics, and engineering, 93a:00021**
(Kosiński, Witold) *see* **Thermodynamics and kinetic theory, 93a:82002**
(Larecki, Wiesław) *see* **Thermodynamics and kinetic theory, 93a:82002**
(Morro, Angelo) *see* **Thermodynamics and kinetic theory, 93a:82002**
(Quarteroni, Alfio) *see* **Spectral and high order methods for partial differential equations, 93d:65005**
(Schappacher, Wilhelm) *see* **Differential equations with applications in biology, physics, and engineering, 93a:00021**
(Speziale, Charles G.) *see* **Eringen anniversary issue, 93e:00032**
(Tzou, H. S.) *see* **Intelligent structural systems, 93e:73030**
(Zorski, Henryk) *see* **Thermodynamics and kinetic theory, 93a:82002**

Items listed otherwise than by author

Adaptive finite and boundary element methods ★ Adaptive finite and boundary element methods. **93m:65005**
Birthday:
Eringen, A. Cemal ★ The Eringen anniversary issue. **93e:00032**
Como ★ Spectral and high order methods for partial differential equations. **93d:65005**
Conference:
Differential Equations and Applications ★ Differential equations with applications in biology, physics, and engineering. **93a:00021**
Spectral and High Order Methods for Partial Differnetial Equations ★ Spectral and high order methods for partial differential equations. **93d:65005**
Congress:
Computational Mechanics ★ MECOM '91. (Spanish) **93i:00019**
Computational Methods in Engineering ★ MECOM '91. (Spanish) **93i:00019**
Differential equations with applications in biology, physics, and engineering ★ Differential equations with applications in biology, physics, and engineering. **93a:00021**
Eringen anniversary issue ★ The Eringen anniversary issue. **93e:00032**
Intelligent structural systems ★ Intelligent structural systems. **93e:73030**
Kraków ★ Bericht über die Wissenschaftliche Jahrestagung der GAMM. (German) [Proceedings of the Annual Scientific Meeting of the GAMM] **93b:00034**
Leibnitz ★ Differential equations with applications in biology, physics, and engineering. **93a:00021**
Mądralin ★ Thermodynamics and kinetic theory. **93a:82002**
MECOM '91 ★ MECOM '91. (Spanish) **93i:00019**
Meeting:
GAMM ★ Bericht über die Wissenschaftliche Jahrestagung der GAMM. (German) [Proceedings of the Annual Scientific Meeting of the GAMM] **93b:00034**
Thermodynamics and Kinetic Theory ★ Thermodynamics and kinetic theory. **93a:82002**
Paraná ★ MECOM '91. (Spanish) **93i:00019**
Proceedings:
Meeting of the GAMM ★ Bericht über die Wissenschaftliche Jahrestagung der GAMM. (German) [Proceedings of the Annual Scientific Meeting of the GAMM] **93b:00034**
Santa Fe ★ MECOM '91. (Spanish) **93i:00019**
Special Issue:
Eringen anniversary ★ The Eringen anniversary issue. **93e:00032**
Spectral and high order methods for partial differential equations ★ Spectral and high order methods for partial differential equations. **93d:65005**
Thermodynamics and kinetic theory ★ Thermodynamics and kinetic theory. **93a:82002**

73A05 Axiomatics, foundations of solid mechanics

Ball, J. M. Dynamic energy minimization and phase transformations in solids. (*see* **93b:00026**)
Casey, James The principle of rigidification. **93f:73004**
Flippen, L. D., Jr. Fundamental law preservation in model reduction. (English summary) **93j:73002**
Mişicu, M. The conservation principles of energy and entropy of the dual nonlinear theory of continuum. **93a:73002**
Montanaro, Adriano On the response stress function of an elastic body, from the Mach-Painlevé point of view. **93h:73001**
Moreau, J.-J. An expression of classical dynamics. (English summary) (*see* **93h:49003**)
Rougée, P. A new Lagrangian intrinsic approach to large deformations in continuous media. **93a:73003**
— Kinematics of finite deformations. **93g:73002**
Šilhavý, Miroslav Cauchy's stress theorem and tensor fields with divergences in L^p. **93b:73001**
Truesdell, Clifford A., III ★ A first course in rational continuum mechanics. Vol. 1. **93g:73003**

Items with secondary classifications in 73A05

Barenblatt, G. I. Intermediate asymptotics in micromechanics. (*see* **93b:00026**)
Kadianakis, N. Affine connections and frames of reference in classical mechanics. **93f:70013**
Klyuchkovskiĭ, Yu. B. (*with* Navrotskiĭ, P. P.) Transformation properties of certain characteristics of the motion of a deformable solid in different forms of relativistic dynamics. (Ukrainian) **93c:73018**
Malyshev, K. L. Gauge group and gauge transformation in the continuum theory of defects. (Russian. English summary) **93k:73014**
Murdoch, A. I. Remarks on the foundations of linear viscoelasticity. (English summary) **93h:73020**
Navrotskiĭ, P. P. *see* **Klyuchkovskiĭ, Yu. B., 93c:73018**
Rivlin, Ronald An isotropic elastic solid is a simple fluid! (Italian summary) **93b:73005**
— Frame indifference. (Italian summary) **93e:73002**

73Bxx Continuum mechanics of solids (constitutive description and properties)

Items with secondary classifications in 73Bxx

Karasudhi, P. ★ Foundations of solid mechanics. **93d:73001**

73B05 Constitutive equations

Adams, B. L. (*with* Boehler, J.-P.; Guidi, M.; Onat, E. T.) Group theory and representation of microstructure and mechanical behavior of polycrystals. **93b:73002**
Albert, H.-F. An extension of Hamilton's principle for dissipative continua. (English, German and Russian summaries) **93k:73002**
Betten, J. Recent advances in applications of tensor functions in solid mechanics. (Russian summary) **93j:73003**
Binz, E. Symmetry, constitutive laws of bounded smoothly deformable media and Neumann problems. **93g:73004**
Blume, Janet A. On the form of the inverted stress-strain law for isotropic hyperelastic solids. **93b:73003**
Boehler, J.-P. *see* **Adams, B. L.; et al., 93b:73002**
Carlsson, T. *see* **Leslie, F. M.; et al., 93f:73005**
Di Carlo, Antonio (*with* Gurtin, Morton E.; Podio-Guidugli, Paolo) A regularized equation for anisotropic motion-by-curvature. **93g:73005**
Guidi, M. *see* **Adams, B. L.; et al., 93b:73002**
Gurtin, Morton E. *see* **Di Carlo, Antonio; et al., 93g:73005**
Huang, Zi Ping A multigrid algorithm for the plane elasticity by the mixed finite element approximation. (English summary) (*see* **93d:65004**)
Leslie, F. M. (*with* Stewart, I. W.; Carlsson, T.; Nakagawa, Masahiro) Equivalent smectic C liquid crystal energies. **93f:73005**
Makushok, E. M. ★ Самоорганизация деформационных процессов. (Russian) [Self-organization of deformation processes] **93f:73006**
Michel, J.-C. (*with* Suquet, Pierre) The constitutive law of nonlinear viscous and porous materials. **93c:73001**
Montanaro, Adriano On the indeterminateness of the constitutive equations for certain dissipative materials. **93h:73002**
Nakagawa, Masahiro *see* **Leslie, F. M.; et al., 93f:73005**
Negahban, Mehrdad (*with* Wineman, Alan S.) Modeling the mechanical response of a material undergoing continuous isothermal crystallization. **93b:73004**
Onat, E. T. *see* **Adams, B. L.; et al., 93b:73002**
Podio-Guidugli, Paolo *see* **Di Carlo, Antonio; et al., 93g:73005**
Rivlin, Ronald An isotropic elastic solid is a simple fluid! (Italian summary) **93b:73005**
— Frame indifference. (Italian summary) **93e:73002**
Stewart, I. W. *see* **Leslie, F. M.; et al., 93f:73005**
Suquet, Pierre *see* **Michel, J.-C., 93c:73001**
Wineman, Alan S. *see* **Negahban, Mehrdad, 93b:73004**

Items with secondary classifications in 73B05

Acerbi, Emilio (*with* Buttazzo, Giuseppe; Percivale, Danilo) A variational definition of the strain energy for an elastic string. **93c:73025**
Antman, Stuart S. (*with* Marlow, Randall Scot) Material constraints, Lagrange multipliers, and compatibility. Applications to rod and shell theories. **93c:73026**
Blenk, Stefan (*with* Ehrentraut, Harald; Muschik, Wolfgang) Macroscopic constitutive equations for liquid crystals induced by their mesoscopic orientation distribution.
Blume, Janet A. Reference configurations for homogeneous and inhomogeneous nonlinearly elastic materials. **93d:73027**
Buggisch, H. (*with* Mazilu, P.; Weber, H.) Identifizierung des Zustandsparameters für viskoelastiche Materialien. I. (English summary) [Identification of the state parameter for viscoelastic materials. I] **93j:73033**
Buttazzo, Giuseppe *see* **Acerbi, Emilio; et al., 93c:73025**
Carini, A. (*with* De Donato, O.) Fundamental solutions for linear viscoelastic continua. (English summary) **93f:73051**
Chiroiu, Veturia *see* **Nicolae, V.**
Costa Mattos, H. (*with* Frémond, M.; Mamiya, E. N.) A simple model of the mechanical behavior of ceramic-like materials. (English summary) **93f:73086**
De Donato, O. *see* **Carini, A., 93f:73051**
Ehrentraut, Harald *see* **Blenk, Stefan; et al.**
Elżanowski, Marek (*with* Epstein, Marcelo) The interplay of uniformity with constrained elasticity. **93a:73042**
Epstein, Marcelo *see* **Elżanowski, Marek, 93a:73042**
Ericksen, J. L. Bifurcation and martensitic transformations in Bravais lattices. **93f:73013**
Fabrizio, Mauro On the inversion of a linear viscoelastic constitutive equation. (Italian. English summary) **93d:73041**
— *see also* **Graffi, Dario, 93a:73036** *and* **93a:73037**
Frémond, M. *see* **Costa Mattos, H.; et al., 93f:73086**
Giorgi, Claudio (*with* Morro, Angelo) Viscoelastic solids with unbounded relaxation function. **93c:73044**
Giovine, Pasquale Note on the constitutive equations for superfluid helium. (Italian. Italian summary) **93g:76014**

Graffi, Dario (*with* Fabrizio, Mauro) On the notion of state for viscoelastic materials of "rate" type. (Italian. English summary) **93a:73036**
— (*with* Fabrizio, Mauro) Nonuniqueness of free energy for viscoelastic materials. (Italian. English summary) **93a:73037**
Green, Albert E. (*with* Naghdi, P. M.) Errata: "A re-examination of the basic postulates of thermomechanics" [Proc. Roy. Soc. London Ser. A **432** (1991), no. 1885, 171–194; MR 92i:73016]. **93g:73018**
James, Richard Dana (*with* Spector, Scott J.) The formation of filamentary voids in solids. **93d:73059**
— (*with* Spector, Scott J.) Remarks on $W^{1,p}$-quasiconvexity, interpenetration of matter, and function spaces for elasticity. (French summary) **93h:73013**
Kopisz, M. Coupled fields in a piezoelectric body. **93i:73044**
Liang, C. (*with* Rogers, C. A.) A multidimensional constitutive model for shape memory alloys. (English summary)
Lucchesi, M. (*with* Owen, David Ross; Podio-Guidugli, Paolo) Materials with elastic range: a theory with a view toward applications. III. Approximate constitutive relations. **93a:73046**
Mamiya, E. N. *see* **Costa Mattos, H.; et al., 93f:73086**
Marlow, Randall Scot *see* **Antman, Stuart S., 93c:73026**
Marotti de Sciarra, F. *see* **Romano, Giovanni; et al., 93m:73041**
Maugin, Gérard A. Thermomechanical equations of magnetic fluids. (English summary) **93h:76078**
Mazilu, P. *see* **Buggisch, H.; et al., 93j:73033**
Montanaro, Adriano On the response stress function of an elastic body, from the Mach-Painlevé point of view. **93h:73001**
Moodie, T. Bryant *see* **Öncü, T. Sabri, 93j:73009**
Morro, Angelo *see* **Giorgi, Claudio, 93c:73044**
Muschik, Wolfgang *see* **Blenk, Stefan; et al.**
Naghdi, P. M. (*with* Srinivasa, A. R.) On the dynamical theory of rigid-viscoplastic materials. (English summary) **93m:73014**
— *see also* **Green, Albert E., 93g:73018**
Negahban, Mehrdad (*with* Wineman, Alan S.) Material symmetry and the evolution of anisotropies in a simple material. I. Change of reference configuration. **93c:73002a**
— (*with* Wineman, Alan S.) Material symmetry and the evolution of anisotropies in a simple material. II. The evolution of material symmetry. **93c:73002b**
Nicolae, V. (*with* Chiroiu, Veturia) Study of the small deformations of a viscoelastic body in finite rototranslatory motion. (Romanian)
Nowinski, J. L. On the three-dimensional Cerruti problem for an elastic nonlocal half-space. (English, German and Russian summaries) **93c:73003**
Öncü, T. Sabri (*with* Moodie, T. Bryant) On the constitutive relations for second sound in elastic solids. (English summary) **93j:73009**
Owen, David Ross *see* **Lucchesi, M.; et al., 93a:73046**
Percivale, Danilo *see* **Acerbi, Emilio; et al., 93c:73025**
Podio-Guidugli, Paolo *see* **Lucchesi, M.; et al., 93a:73046**
Pucci, Edvige (*with* Saccomandi, Giuseppe) On the controllable states of elastic dielectrics and magnetoelastic solids. (English summary) **93g:73103**
Qiu, X. Y. (*with* Singh, M. C.) Thermoplastic constitutive relations for metallic solids. (English summary) **93i:73005**
Rogers, C. A. *see* **Liang, C.**
Romano, Giovanni (*with* Rosati, Luciano; Marotti de Sciarra, F.) Variational formulations of nonlinear and nonsmooth structural problems. (English summary) **93m:73041**
Rosati, Luciano *see* **Romano, Giovanni; et al., 93m:73041**
Rougée, P. A new Lagrangian intrinsic approach to large deformations in continuous media. **93a:73003**
Rychlewski, Jan *see* **Zhang, Jin Min, 93h:73005**
Saccomandi, Giuseppe *see* **Pucci, Edvige, 93g:73103**
Singh, M. C. *see* **Qiu, X. Y., 93i:73005**
Spector, Scott J. *see* **James, Richard Dana, 93d:73059** *and* **93h:73013**
Spencer, A. J. M. *see* **Zheng, Quan Shui, 93k:73003**
Srinivasa, A. R. *see* **Naghdi, P. M., 93m:73014**
Truesdell, Clifford A., III ★ A first course in rational continuum mechanics. Vol. 1. **93g:73003**
Weber, H. *see* **Buggisch, H.; et al., 93j:73033**
Wehrli, Christoph *see* **Ziegler, Hans[1], 93e:73006**
Wineman, Alan S. *see* **Negahban, Mehrdad, 93c:73002a** *and* **93c:73002b**
Woźniak, Czesław Macro-modelling of thermoinelastic composites. (English, Russian and Polish summaries) **93g:73020**
Zbib, H. M. On the mechanics of large inelastic deformations: kinematics and constitutive modeling. (English summary) **93j:73039**
Zhang, Jin Min (*with* Rychlewski, Jan) Structural tensors for anisotropic solids. (Russian and Polish summaries) **93h:73005**
Zheng, Quan Shui (*with* Spencer, A. J. M.) On the canonical representations for Kronecker powers of orthogonal tensors with application to material symmetry problems. (English summary) **93k:73003**
Ziegler, Hans[1] (*with* Wehrli, Christoph) The derivation of constitutive relations from the free energy and the dissipation function. **93e:73006**

73B10 Symmetry groups

Elżanowski, Marek (*with* Epstein, Marcelo) The symmetry group of second-grade materials. (English summary) **93f:73007**
Epstein, Marcelo *see* **Elżanowski, Marek, 93f:73007**
Negahban, Mehrdad (*with* Wineman, Alan S.) Material symmetry and the evolution of anisotropies in a simple material. I. Change of reference configuration. **93c:73002a**
— (*with* Wineman, Alan S.) Material symmetry and the evolution of anisotropies in a simple material. II. The evolution of material symmetry. **93c:73002b**
Spencer, A. J. M. *see* **Zheng, Quan Shui, 93k:73003**
Wineman, Alan S. *see* **Negahban, Mehrdad, 93c:73002a** *and* **93c:73002b**
Zheng, Quan Shui (*with* Spencer, A. J. M.) On the canonical representations for Kronecker powers of orthogonal tensors with application to material symmetry problems. (English summary) **93k:73003**

Items with secondary classifications in 73B10

Adams, B. L. (*with* Boehler, J.-P.; Guidi, M.; Onat, E. T.) Group theory and representation of microstructure and mechanical behavior of polycrystals. **93b:73002**
Binz, E. Symmetry, constitutive laws of bounded smoothly deformable media and Neumann problems. **93g:73004**
Boehler, J.-P. *see* **Adams, B. L.; et al., 93b:73002**
Chadwick, Paul (*with* Wilson, N. J.) The behaviour of elastic surface waves polarized in a plane of material symmetry. III. Orthorhombic and cubic media. **93f:73038**
Chiorescu, Gh. Symmetries in the linear thermoelasticity of the directed rods. (Romanian summary)
Cowin, S. C. (*with* Mehrabadi, M. M.) The structure of the linear anisotropic elastic symmetries. (English summary) **93i:73008**
Domokos, G. Taylor approximation of operators with discrete rotational symmetry. **93f:58022**
Edelen, Dominic G. B. A 1-dimensional elastic model with time translation gauge invariance. (English summary) **93g:73025**
Gritsaichuk, V. M. Structures of the solution of problems in elasticity theory with rotational symmetry. (Russian. English and Russian summaries) **93g:73031**
Guidi, M. *see* **Adams, B. L.; et al., 93b:73002**
Healey, Timothy J. Large rotatory oscillations of transversely isotropic rods: spatio-temporal symmetry-breaking bifurcation. **93k:34032**
Manganaro, N. (*with* Valenti, Giovanna) Group analysis and linearization procedure for a nonautonomous model describing rate-type materials. (English summary) **93m:58126**
Mehrabadi, M. M. *see* **Cowin, S. C., 93i:73008**
Norris, Andrew One-component surface waves in materials with symmetry. (English summary) **93h:73016**
Onat, E. T. *see* **Adams, B. L.; et al., 93b:73002**
Pennisi, Sebastiano On third order tensor-valued isotropic functions. **93h:73007**
Pucci, Edvige (*with* Saccomandi, Giuseppe) Conservation laws in the elastic theory of materials with voids. (Italian summary) **93m:73001**
Rychlewski, Jan (*with* Zhang, Jin Min) On representation of tensor functions: a review. (Russian summary) **93f:73020**
— *see also* **Zhang, Jin Min, 93h:73005**
Saccomandi, Giuseppe *see* **Pucci, Edvige, 93m:73001**
Senashov, S. I. Exact solutions and symmetries of equations in the nonlinear theory of elasticity. (Russian. English and Russian summaries) **93k:73019**
Valenti, Giovanna *see* **Manganaro, N., 93m:58126**
Wilson, N. J. *see* **Chadwick, Paul, 93f:73038**
Zanzotto, Giovanni On the material symmetry group of elastic crystals and the Born rule. (English summary) **93j:73020**
Zhang, Jin Min (*with* Rychlewski, Jan) Structural tensors for anisotropic solids. (Russian and Polish summaries) **93h:73005**
— *see also* **Rychlewski, Jan, 93f:73020**

73B18 Nonlocal theories

Chen, Zhi Da *see* **Gao, Jian[2], 93k:73004**
Eringen, A. Cemal Vistas of nonlocal continuum physics. (English summary) **93g:73006**
Gao, Jian[2] (*with* Chen, Zhi Da) Theory of nonlocal asymmetric elastic solids. (Chinese. English and Chinese summaries) **93k:73004**
Kuzmanović, D. *see* **Vukobrat, M., 93d:73005**
Nowinski, J. L. On the three-dimensional Cerruti problem for an elastic nonlocal half-space. (English, German and Russian summaries) **93c:73003**
Vukobrat, M. (*with* Kuzmanović, D.) Conservation laws in nonlocal elasticity. **93d:73005**

Items with secondary classifications in 73B18

Crăciun, Ion Al. On the uniqueness of the solution of some boundary value problems of the linear micropolar thermoelasticity. (Romanian summary) **93g:73016**
Gould, Laurence I. Nonlocal generalized angular-momentum balance laws and equations of motion. (English summary) **93h:70008**
Nowinski, J. L. On the surface waves in an elastic micropolar and microstretch medium with nonlocal cohesion. (English summary) **93k:73026**

73B25 Polar theories

Felippa, C. A. Parametrized variational principles for micropolar elasticity. (Spanish. English and Spanish summaries)
Nečas, Jindřich (*with* Růžička, Michael) Global solution to the incompressible viscous-multipolar material problem. (English summary) **93g:73007**
Růžička, Michael *see* **Nečas, Jindřich, 93g:73007**
Šilhavý, Miroslav Multipolar viscoelastic materials and the symmetry of the coefficients of viscosity. (English and Czech summaries) **93e:73003**

Items with secondary classifications in 73B25

Assaf, M. A. (*with* Jentsch, Lothar) On the elasticity theory of microporous solids. (English, German and Russian summaries) **93k:73009**
Chen, Zhi Da *see* **Gao, Jian[2], 93k:73004**
Easwaran, C. V. (*with* Majumdar, S. R.) Oseen flow past a split-plate in a micropolar fluid. (English summary)
Eringen, A. Cemal An assessment of director and micropolar theories of liquid crystals. (English summary) **93m:76002**
Gao, Jian[2] (*with* Chen, Zhi Da) Theory of nonlocal asymmetric elastic solids. (Chinese. English and Chinese summaries) **93k:73004**
Ieşan, Dorin (*with* Quintanilla, Ramón) On the grade consistent theory of micropolar thermoelasticity. (English summary) **93j:73007**
Jentsch, Lothar *see* **Assaf, M. A., 93k:73009**
Majumdar, S. R. *see* **Easwaran, C. V.**

Málek, Josef (*with* Nečas, Jindřich; Novotný, Antonín) Measure-valued solutions and asymptotic behavior of a multipolar model of a boundary layer. **93h:35159**
Nečas, Jindřich (*with* Novotný, Antonín; Šilhavý, Miroslav) Global solution to the compressible isothermal multipolar fluid. **93e:35089**
— *see also* **Málek, Josef; et al., 93h:35159**
Novotný, Antonín Viscous multipolar fluids. Physical background and mathematical theory. (English summary) **93m:76001**
— (*with* Padula, Mariarosaria) On the stability of the rest state of compressible multipolar fluids. (English summary) **93k:76056**
— *see also* **Nečas, Jindřich; et al., 93e:35089** *and* **Málek, Josef; et al., 93h:35159**
Nowinski, J. L. On the surface waves in an elastic micropolar and microstretch medium with nonlocal cohesion. (English summary) **93k:73026**
Padula, Mariarosaria *see* **Novotný, Antonín, 93k:76056**
Quintanilla, Ramón *see* **Ieşan, Dorin, 93j:73007**
Ruggeri, Tommaso Polar continua as a particular case of relativistic extended thermodynamics. (Italian) **93b:80001**
Scalia, Antonio A grade consistent micropolar theory of thermoelastic materials with voids. (German and Russian summaries) **93d:73017**
Schiavone, Peter (*with* Tait, R. J.) Thermal effects in Mindlin-type plates. (English summary) **93m:73019**
Šilhavý, Miroslav *see* **Nečas, Jindřich; et al., 93e:35089**
Spencer, A. J. M. *see* **Zheng, Quan Shui, 93k:73003**
Tait, R. J. *see* **Schiavone, Peter, 93m:73019**
Zheng, Quan Shui (*with* Spencer, A. J. M.) On the canonical representations for Kronecker powers of orthogonal tensors with application to material symmetry problems. (English summary) **93k:73003**

73B27 Nonhomogeneous materials; homogenization

Arminjon, M. Macro-homogeneous strain fields with arbitrary local inhomogeneity. (Russian and Polish summaries) **93c:73004**
Berlyand, L. V. (*with* Kozlov, S. M.) Asymptotics of the homogenized moduli for the elastic chess-board composite. **93h:73003**
Bouchitté, Guy (*with* Suquet, Pierre) Homogenization, plasticity and yield design. **93f:73008**
Bourquin, Frédéric (*with* Ciarlet, Philippe G.; Geymonat, Giuseppe; Raoult, Annie) Γ-convergence et analyse asymptotique des plaques minces. (English and French summaries) [Γ-convergence and asymptotic analysis of thin plates] **93g:73008**
Bruno, Oscar P. (*with* Leo, Perry H.) On the stiffness of materials containing a disordered array of microscopic holes or hard inclusions. (English summary) **93k:73005**
Cherkaev, A. V. (*with* Lur'e, K. A.; Milton, Graeme W.) Invariant properties of the stress in plane elasticity and equivalence classes of composites. (English summary) **93g:73009**
— (*with* Gibiansky, L. V.) The exact coupled bounds for effective tensors of electrical and magnetic properties of two-component two-dimensional composites. (English summary) **93k:73006**
Ciarlet, Philippe G. *see* **Bourquin, Frédéric; et al., 93g:73008**
Cioranescu, Doïna (*with* Saint Jean Paulin, J.) Mathematical study of large space structures. **93f:73009**
Francfort, G. A. Homogenisation of a class of fourth order equations with application to incompressible elasticity. **93d:73006**
Geymonat, Giuseppe *see* **Bourquin, Frédéric; et al., 93g:73008**
Gibiansky, L. V. *see* **Cherkaev, A. V., 93k:73006**
Hashin, Zvi Extremum principles for elastic heterogenous media with imperfect interfaces and their application to bounding of effective moduli. **93b:73006**
Kozlov, S. M. On the domain of change of added mass, polarization and effective characteristics of composites. (Russian) **93f:73010**
— *see also* **Berlyand, L. V., 93h:73003**
Kucharski, St. *see* **Lewiński, Tomasz, 93g:73010**
Lado, F. *see* **Torquato, S., 93c:73007**
Leo, Perry H. *see* **Bruno, Oscar P., 93k:73005**
Lewiński, Tomasz (*with* Kucharski, St.) A model with length scales for composites with periodic structure. Steady state heat conduction problem. I. Formulation. (English summary) **93g:73010**
Lur'e, K. A. *see* **Cherkaev, A. V.; et al., 93g:73009**
Matysiak, Stanisław J. On the homogenized model of periodic stratified fluid-saturated porous solids. **93a:73004**
Mazurov, P. A. A variational approach in the theories of filtration consolidation and two-phase filtration. (Russian) **93c:73005**
Milgrom, Mordehai (*with* Shtrikman, S.) The energy of inclusions in linear media exact shape-independent relations. **93g:73011**
Milton, Graeme W. The field equation recursion method. **93b:73007**
— *see also* **Cherkaev, A. V.; et al., 93g:73009**
Panasenko, G. P. Averaging of a system of equations in the theory of elasticity in a medium with weakly compressible inclusions. (Russian) **93f:73011**
Paşa, Gelu I. Bounds for effective coefficients of periodic materials in the nonsymmetric case. (English summary) **93f:73012**
Ponte Castañeda, P. A new variational principle and its application to nonlinear heterogeneous systems. (English summary) **93g:73012**
Pucci, Edvige (*with* Saccomandi, Giuseppe) Conservation laws in the elastic theory of materials with voids. (Italian summary) **93m:73001**
Raoult, Annie *see* **Bourquin, Frédéric; et al., 93g:73008**
Rychlewski, Jan (*with* Xiao, Heng) Elasticity models of multidirectional composites with strong fibres. (Russian summary) **93c:73006**
Sab, K. On the homogenization and the simulation of random materials. (English summary) **93g:73013**
Saccomandi, Giuseppe *see* **Pucci, Edvige, 93m:73001**
Saint Jean Paulin, J. *see* **Cioranescu, Doïna, 93f:73009**
Sanday, S. C. *see* **Yu, H. Y., 93j:73004**
Shtrikman, S. *see* **Milgrom, Mordehai, 93g:73011**
Suquet, Pierre *see* **Bouchitté, Guy, 93f:73008**
Telega, Józef Joachim Perfectly plastic plates loaded by boundary bending moments: relaxation and homogenization. **93i:73002**
Torquato, S. (*with* Lado, F.) Improved bounds on the effective elastic moduli of random arrays of cylinders. (English summary) **93c:73007**
Willis, J. R. Correction and addition: "On methods for bounding the overall properties of nonlinear composites" [J. Mech. Phys. Solids **39** (1991), no. 1, 73–86; MR 92f:73041b]. **93c:73008**
Xiao, Heng *see* **Rychlewski, Jan, 93c:73006**
Yu, H. Y. (*with* Sanday, S. C.) Elastic inhomogeneous inclusion and inhomogeneity in bimaterials. (English summary) **93j:73004**
Zhikov, V. V. Estimates for the trace of an averaged tensor. (Russian. Ukrainian summary) **93a:73006**
— Estimates for an averaged matrix and an averaged tensor. (Russian) **93a:73005**

Items with secondary classifications in 73B27

Aganović, I. Homogenization of free boundary oscillations of an inviscid fluid in a porous reservoir. (English and French summaries) **93j:35027**
Allaire, Grégoire Homogénéisation et convergence à deux échelles. Application à un problème de convection diffusion. (English summary) [Homogeneization and two-scale convergence. Application to an advection-diffusion problem] **93d:76063**
— Homogenization and two-scale convergence. (English summary) **93k:35022**
Álvarez Vázquez, L. J. (*with* Viaño Rey, Juan M.) Asymptotic derivation of an evolution thermoelastic model for linear rods. (English summary) **93k:73007**
— (*with* Quintela Estévez, Peregrina) The effect of different scalings in the modelling of nonlinearly elastic plates with rapidly varying thickness. **93h:73024**
Amirat, Youcef (*with* Hamdache, K.; Ziani, A.) Some results on homogenization of convection-diffusion equations. **93d:76064**
— (*with* Hamdache, K.; Ziani, A.) Homogenisation of parametrised families of hyperbolic problems. **93f:35021**
Auriault, J.-L. (*with* He, S.) Liquid phase sintering: rearrangement and densification. (English summary) **93k:73010**
Avellaneda, Marco Bounds on the effective elastic constants of two-phase composite materials. **93f:73070**
— (*with* Bardos, Claude; Rauch, Jeffrey) Contrôlabilité exacte, homogénéisation et localisation d'ondes dans un milieu non-homogène. [Exact controllability, homogenization and localization of waves in a nonhomogeneous medium] **93e:93004**
Bakhvalov, N. S. (*with* Knyazev, Andrei Vladimirovich) Methods for the effective computation of averaged characteristics of composites of periodic structure consisting of essentially different materials. (Russian) **93c:35006**
— (*with* Èglit, M. È.) On the rate of propagation of perturbations in micro-inhomogeneous elastic media with small shear elasticity. (Russian) **93g:73053**
Bardos, Claude *see* **Avellaneda, Marco; et al., 93e:93004**
Bensoussan, Alain (*with* Boccardo, Lucio; Murat, François) *H* convergence for quasi-linear elliptic equations with quadratic growth. (English summary) **93j:35028**
— (*with* Kozlov, S. M.) Diffusion effective dans un flux périodique. (English and French summaries) [Effective diffusion in a periodic flow] **93i:35109**
Benveniste, Yakov (*with* Dvorak, George J.) Uniform fields and universal relations in piezoelectric composites. (English summary) **93g:73101**
— *see also* **Dvorak, George J., 93e:73034a**
Berryman, James G. Waves in partially saturated porous media. (English summary) **93f:73033**
Boccardo, Lucio *see* **Bensoussan, Alain; et al., 93j:35028**
Bouchitté, Guy (*with* Lidouh, Abdel; Suquet, Pierre) Homogénéisation de frontière pour la modélisation du contact entre un corps déformable non linéaire et un corps rigide. (English summary) [Boundary homogenization and modeling of friction between a nonlinear deformable body and a rigid body] **93c:73090**
Bourgeat, A. (*with* El Amri, Hassan; Tapiéro, R.) Existence d'une taille critique pour une fissure dans un milieu poreux. (English summary) [Existence of a critical ratio for a fissure in a porous medium] **93c:76076**
Braides, Andrea Correctors for the homogenization of almost periodic monotone operators. **93c:35007**
Brauner, C.-M. (*with* Fife, Paul C.; Namah, G.; Schmidt-Lainé, Cl.) Homogenization of propagative combustion processes. **93m:80011**
Bruno, Oscar P. Taylor expansions and bounds for the effective conductivity and the effective elastic moduli of multicomponent composites and polycrystals. **93c:73072**
Buryachenko, V. A. (*with* Parton, V. Z.) Effective parameters of the strength of composites in joint physical-mechanical fields. (Russian) **93j:73055**
Bytner, S. (*with* Gambin, B.) Homogenization of heterogeneous elastic conductor in a magnetic field. (English summary)
Chacha, D. (*with* Sánchez-Palencia, Enrique) Overall behavior of elastic plates with periodically distributed fissures. (French summary) **93d:73046**
Chudinovich, I. Yu. Boundary equations in problems of the dynamics of piecewise-homogeneous elastic media. (Russian) **93g:73029**
Cioranescu, Doïna (*with* Saint Jean Paulin, J.) Particules déformables en suspension dans un fluide visqueux. (English summary) [Suspensions of deformable particles in a viscous fluid] **93b:76029**
Dobran, Flavio Modeling of structured multiphase mixtures. (English summary) **93g:73017**
Dvorak, George J. (*with* Benveniste, Yakov) On transformation strains and uniform fields in multiphase elastic media. **93e:73034a**
— Transformation field analysis of inelastic composite materials. **93e:73034b**
— *see also* **Benveniste, Yakov, 93g:73101**
Èglit, M. È. *see* **Bakhvalov, N. S., 93g:73053**
El Amri, Hassan *see* **Bourgeat, A.; et al., 93c:76076**
Epstein, Marcelo (*with* Śniatycki, Jędrzej) Fermat's principle in elastodynamics. **93a:73029**
— *see also* **Maugin, Gérard A.; et al., 93c:73020** *and* **93h:73032**
Fedorov, Alexandre V. *see* **Varlamov, E. V., 93d:73032**
Fife, Paul C. *see* **Brauner, C.-M.; et al., 93m:80011**
Figari, R. (*with* Teta, A.) Effective potential and fluctuations for a boundary value problem on a randomly perforated domain. (English summary) **93m:35192**

Gałka, A. (*with* Telega, Józef Joachim; Wojnar, R.) Homogenization of thermoelastic solid in the presence of diffusion. **93d:73012**

— (*with* Telega, Józef Joachim; Wojnar, R.) Homogenization and thermopiezoelectricity. **93d:73063**

Gambin, B. *see* **Bytner, S.**

Gavazzi, A. C. *see* **Lagoudas, D. C.; et al., 93g:73055**

Gavioli, Andrea Some bounds on the bulk conductivity of a two-phase medium: a comparison between periodic and random structure. (English summary) **93k:82032**

Getman, I. P. (*with* Mol′kov, V. A.) On effective characteristics of piezoactive composites with cylindrical inclusions. (Russian. Russian summary) **93g:73090**

Grinfel′d, M. A. ★ Методы механики сплошных сред в теории фазовых превращений. (Russian) [Methods of continuum mechanics in the theory of phase transitions] **93c:73012**

Hamdache, K. *see* **Amirat, Youcef; et al., 93d:76064** *and* **93f:35021**

Hasegawa, Hisao (*with* Lee, Ven-Gen; Mura, Toshio) Green's functions for axisymmetric problems of dissimilar elastic solids. (English summary) **93e:73009**

He, S. *see* **Auriault, J.-L., 93k:73010**

Herrmann, G. *see* **Honein, E.; et al., 93f:73031**

Honein, E. (*with* Honein, T.; Herrmann, G.) On two circular inclusions in harmonic problems. (English summary) **93f:73031**

Honein, T. *see* **Honein, E.; et al., 93f:73031**

Joly, Patrick (*with* Weder, Ricardo) New results for guided waves in heterogeneous elastic media. (English summary) **93f:73043**

Kaczmarek, M. On kinematics in the theory of multiphase media: comparison between two traditions. **93d:73018**

Kalamkarov, A. L. *see* **Parton, V. Z., 93e:73024**

Kanaun, S. K. *see* **Vil′chevskaya, E. N., 93f:73026**

Karaliūnas, Romas J. Formal averaging of equations in plasticity theory in the case of two-stage deformation processes. (Russian. Lithuanian summary) **93j:73056**

Knyazev, Andrei Vladimirovich *see* **Bakhvalov, N. S., 93c:35006**

Kolpakov, A. G. Thin elastic plates of periodic structure with internal unilateral contacts. (Russian) **93c:73062**

— Averaging in a problem of thermomechanochemistry. (Russian. Russian summary) **93h:35028**

— On a problem of the thermoelasticity of nonhomogeneous plates. (Russian. Russian summary) **93k:73051**

Kouris, D. (*with* Tsuchida, E.) An analytical solution for the fiber indentation problem. **93d:73020**

Kozlov, S. M. *see* **Bensoussan, Alain, 93i:35109**

Lagoudas, D. C. (*with* Gavazzi, A. C.; Nigam, H.) Elastoplastic behavior of metal matrix composites based on incremental plasticity and the Mori-Tanaka averaging scheme. (English summary) **93g:73055**

Lee, Ven-Gen *see* **Hasegawa, Hisao; et al., 93e:73009**

Lewiński, Tomasz (*with* Telega, Józef Joachim) Homogenization and effective properties of plates weakened by partially penetrating fissures: asymptotic analysis. **93f:73059**

Lidouh, Abdel *see* **Bouchitté, Guy; et al., 93c:73090**

Lobo-Hidalgo, Miguel (*with* Pérez, Eugenia) Vibration of systems with many concentrated masses. (Spanish) (*see* **93j:00009**)

— (*with* Pérez, Eugenia) Boundary homogenization of certain elliptic problems for cylindrical bodies. (English and French summaries) **93i:35015**

Markov, Konstantin Z. (*with* Zvyatkov, K. D.) Optimal third-order bounds on the effective properties of some composite media, and related problems. (English and Russian summaries) **93f:73071**

Mascarenhas, M. L. (*with* Trabucho, L.) Asymptotic, homogenization and Galerkin methods in three-dimensional beam theory. (English summary) (*see* **93j:00008**)

— (*with* Poliševski, Dan) Homogenization of the torsion problem with quasiperiodic structure. (English summary) **93j:35029**

Maugin, Gérard A. (*with* Epstein, Marcelo; Trimarco, Carmine) Pseudomomentum and material forces in inhomogeneous materials (application to the fracture of electromagnetic materials in electromagnetoelastic fields). **93c:73020**

— (*with* Epstein, Marcelo; Trimarco, Carmine) Theory of elastic inhomogeneities in electromagnetic materials. (English summary) **93h:73032**

Maz′ya, V. G. (*with* Nazarov, S. A.; Plamenevskiĭ, B. A.) ★ Asymptotische Theorie elliptischer Randwertaufgaben in singulär gestörten Gebieten. II. (German) [Asymptotic theory of elliptic boundary value problems in singularly perturbed domains. II] **93j:35025**

Milton, Graeme W. Composite materials with Poisson's ratios close to −1. **93c:73074**

Mol′kov, V. A. *see* **Getman, I. P., 93g:73090**

Molotkov, L. A. A new method of deriving the equations of an averaged effective model of periodic media. (Russian. English summary) **93c:73031**

— A two-phase effective model of a medium that contains cracks of finite length. (Russian. English and Russian summaries) **93g:73038**

Movchan, A. B. Integral characteristics of elastic inclusions and cavities in the two-dimensional theory of elasticity. **93c:73023**

Mura, Toshio *see* **Hasegawa, Hisao; et al., 93e:73009**

Murat, François *see* **Bensoussan, Alain; et al., 93j:35028**

Namah, G. *see* **Brauner, C.-M.; et al., 93m:80011**

Nazarov, S. A. Averaging of boundary value problems in a domain that contains a thin cavity with a periodically changing cross section. (Russian) **93b:35031**

— *see also* **Maz′ya, V. G.; et al., 93j:35025**

Nigam, H. *see* **Lagoudas, D. C.; et al., 93g:73055**

Parton, V. Z. (*with* Kalamkarov, A. L.) The general homogenized composite shell model and the applications. **93e:73024**

— *see also* **Buryachenko, V. A., 93j:73055**

Pérez, Eugenia *see* **Lobo-Hidalgo, Miguel, 93i:35015** *and* **(93j:00009)**

Pham Duc Chinh Bounds on the effective shear modulus of multiphase materials. (English summary) **93i:73036**

Plamenevskiĭ, B. A. *see* **Maz′ya, V. G.; et al., 93j:35025**

Poliševski, Dan *see* **Mascarenhas, M. L., 93j:35029**

Ponte Castañeda, P. New variational principles in plasticity and their application to composite materials. (English summary) **93j:73073**

Quintela Estévez, Peregrina *see* **Álvarez Vázquez, L. J., 93h:73024**

Randles, P. W. Synthesis of equivalent dynamic laminate behavior by homogenization techniques. (English summary) **93f:73034**

Raoult, Annie Asymptotic modeling of the elastodynamics of a multi-structure. (English and French summaries) **93m:73008**

Rauch, Jeffrey *see* **Avellaneda, Marco; et al., 93e:93004**

Rogers, T. G. (*with* Watson, P.; Spencer, A. J. M.) An exact three-dimensional solution for normal loading of inhomogeneous and laminated anisotropic elastic plates of moderate thickness. (English summary) **93f:73061**

Rushchitskiĭ, Ya. Ya. ★ Элементы теории смеси. (Russian) [Elements of mixture theory] **93e:73035**

Saint Jean Paulin, J. *see* **Cioranescu, Doïna, 93b:76029**

Sánchez-Palencia, Enrique *see* **Chacha, D., 93d:73046**

Schmidt-Lainé, Cl. *see* **Brauner, C.-M.; et al., 93m:80011**

Schulgasser, K. Relationships between the effective properties of transversely isotropic piezoelectric composites. **93a:73062**

Śniatycki, Jędrzej *see* **Epstein, Marcelo, 93a:73029**

Spencer, A. J. M. *see* **Rogers, T. G.; et al., 93f:73061**

Suquet, Pierre *see* **Bouchitté, Guy; et al., 93c:73090**

Talbot, D. R. S. (*with* Willis, J. R.) Some simple explicit bounds for the overall behaviour of nonlinear composites. **93e:73028**

Tapiéro, R. *see* **Bourgeat, A.; et al., 93c:76076**

Telega, Józef Joachim *see* **Gałka, A.; et al., 93d:73012; 93d:73063** *and* **Lewiński, Tomasz, 93f:73059**

Teta, A. *see* **Figari, R., 93m:35192**

Trabucho, L. *see* **Mascarenhas, M. L., (93j:00008)**

Trimarco, Carmine *see* **Maugin, Gérard A.; et al., 93c:73020** *and* **93h:73032**

Tsuchida, E. *see* **Kouris, D., 93d:73020**

Varlamov, E. V. (*with* Fedorov, Alexandre V.) A traveling wave in a nonisothermic mixture of two solids. (Russian) **93d:73032**

Viaño Rey, Juan M. *see* **Álvarez Vázquez, L. J., 93k:73007**

Vil′chevskaya, E. N. (*with* Kanaun, S. K.) Integral equations for a problem on a thin inclusion in a homogeneous elastic medium. (Russian. Russian summary) **93f:73026**

Watson, P. *see* **Rogers, T. G.; et al., 93f:73061**

Weder, Ricardo *see* **Joly, Patrick, 93f:73043**

Willis, J. R. *see* **Talbot, D. R. S., 93e:73028**

Wojnar, R. *see* **Gałka, A.; et al., 93d:73012** *and* **93d:73063**

Woźniak, Czesław Macro-modelling of thermoinelastic composites. (English, Russian and Polish summaries) **93g:73020**

— Averaged thermodynamics of nonelastic composite materials. (*see* **93a:82002**)

Ziani, A. *see* **Amirat, Youcef; et al., 93d:76064** *and* **93f:35021**

Zimmerman, Robert W. Hashin-Shtrikman bounds on the Poisson ratio of a composite material. **93g:73091**

Zvyatkov, K. D. *see* **Markov, Konstantin Z., 93f:73071**

73B30 Thermodynamics of solids {For gases and fluids, see 80-XX.}

Álvarez Vázquez, L. J. (*with* Viaño Rey, Juan M.) Asymptotic derivation of an evolution thermoelastic model for linear rods. (English summary) **93k:73007**

Beju, Iulian A uniqueness theorem in thermoelasticity with thermal relaxation. **93a:73007**

Bhattacharya, Kaushik Self-accommodation in martensite. (English summary) **93g:73014**

Blanchard, Dominique (*with* Nicolas, Pierre) The dissipation as a tool to account for trapped internal variables in a convex set. (*see* **93k:00037**)

Chandrasekharaiah, D. S. (*with* Murthy, H. Narasimha) Plane waves in anisotropic generalized thermoelasticity. (English summary) **93j:73005**

— (*with* Keshavan, H. R.) Thermoelastic effects due to a laser pulse in a half space. (English summary)

Chen, Tung Yang Interfacial discontinuities in thermal conductions. (English summary) **93k:73008**

Chiorescu, Gh. Symmetries in the linear thermoelasticity of the directed rods. (Romanian summary)

Chrzęszczyk, Andrzej Initial-boundary value problems for nonlinear equations of generalized thermoelasticity and elasticity. (English summary) **93m:73002**

Cimmelli, Vito Antonio (*with* Kosiński, Witold) Evolution hyperbolic equations for heat conduction. **93d:73007**

Coleman, Bernard D. (*with* Marcus, Moshe M.; Mizel, Victor J.) On the thermodynamics of periodic phases. **93d:73008**

Colli, Pierluigi An existence result for a thermomechanical model of shape memory alloys. **93c:73009**

— Global existence for a second-order thermomechanical model of shape memory alloys. (English summary) **93g:73015**

— (*with* Sprekels, Jürgen) Global existence for a three-dimensional model for the thermomechanical evolution of shape memory alloys. **93c:73010**

Crăciun, Ion Al. On the uniqueness of the solution of some boundary value problems of the linear micropolar thermoelasticity. (Romanian summary) **93g:73016**

Day, W. A. Quasistatic cycles in dynamic linear thermoelasticity. (English summary) **93m:73003**

Dobran, Flavio Modeling of structured multiphase mixtures. (English summary) **93g:73017**

Dunwoody, J. Linear thermoelastic singular surfaces: a revision. (English summary) **93j:73006**

Dvorak, George J. On some exact results in thermoplasticity of composite materials. (English summary) **93e:73004**

Elnaggar, A. M. On the dynamical problem of a generalized thermoelastic granular infinite cylinder under initial stress. **93d:73009**

Eremeev, V. A. (*with* Zubov, L. M.) Conditions for phase equilibrium in non-linearly elastic media with microstructure. (Russian) **93c:73011**

Ericksen, J. L. ★ Introduction to the thermodynamics of solids. **93d:73010**

— Bifurcation and martensitic transformations in Bravais lattices. **93f:73013**

Fam Shu Vin′ *see* **Martynenko, Mikhailo D., 93f:73016**

Fried, Eliot Stability of a two-phase process involving a planar phase boundary in a thermoelastic solid. **93d:73011**

Gałka, A. (*with* Telega, Józef Joachim; Wojnar, R.) Homogenization of thermoelastic solid in the presence of diffusion. **93d:73012**

Green, Albert E. (*with* Naghdi, P. M.) A demonstration of consistency of an entropy balance with balance of energy. **93a:73008**

— (*with* Naghdi, P. M.) On undamped heat waves in an elastic solid. (English summary) **93i:73003**

— (*with* Naghdi, P. M.) Errata: "A re-examination of the basic postulates of thermomechanics" [Proc. Roy. Soc. London Ser. A **432** (1991), no. 1885, 171–194; MR 92i:73016]. **93g:73018**

Grinfel′d, M. A. ★ Методы механики сплошных сред в теории фазовых превращений. (Russian) [Methods of continuum mechanics in the theory of phase transitions] **93c:73012**

Gurtin, Morton E. (*with* Podio-Guidugli, Paolo) A hyperbolic theory for the evolution of plane curves. **93b:73008**

Hoffmann, Karl-Heinz[1] (*with* Żochowski, A.) Existence of solutions of some nonlinear thermoelastic systems with viscosity. **93d:73013**

Ieşan, Dorin (*with* Quintanilla, Ramón) On the grade consistent theory of micropolar thermoelasticity. (English summary) **93j:73007**

Ignaczak, Józef ★ Termosprężystość ze skończonymi prędkościami falowymi. (Polish) [Thermoelasticity with finite wave speeds] **93g:73019**

Keshavan, H. R. *see* **Chandrasekharaiah, D. S.**

Khakimov, M. *see* **Rozenfel′d, G. O., (93a:00020)**

Kluitenberg, Gerrit Alfred *see* **Restuccia, Liliana, 93a:73011**

Kohn, Robert V. The relaxation of a double-well energy. **93d:73014**

Kosiński, Witold *see* **Cimmelli, Vito Antonio, 93d:73007**

Lenyuk, M. P. (*with* Paskar′, A. A.) Quasistatic thermoelastic fields in a continuous bicomposite cylindrically anisotropic plate. Solution in stresses. (Russian. English, Russian and Moldavian summaries) **93f:73014**

Liang, C. (*with* Rogers, C. A.) A multidimensional constitutive model for shape memory alloys. (English summary)

Liolios, A. A direct derivation of dual extremum principles in dynamic anisotropic coupled thermoelasticity. (Bulgarian summary) **93a:73009**

Liu, I-Shih On interface equilibrium and inclusion problems. (English summary) **93f:73015**

Maddocks, John H. (*with* Malek-Madani, Reza) Steady-state shear-bands in thermoplasticity. I. Vanishing yield stress. **93b:73009**

Malek-Madani, Reza *see* **Maddocks, John H., 93b:73009**

Mamedov, Yu. M. On potential theory for two-dimensional quasistatic problems of uncoupled thermoelasticity. (Russian) **93b:73010**

Marcus, Moshe M. *see* **Coleman, Bernard D.; et al., 93d:73008**

Martins Costa, M. L. (*with* Sampaio, Rubens; Saldanha da Gama, Rogério Martins) On the energy balance for continuous mixtures.

Martynenko, Mikhailo D. (*with* Fam Shu Vin′) Existence of solitary waves in a prestressed nonlinear thermoelastic medium with dry friction. (English summary) **93f:73016**

Maruszewski, Bogdan Extended thermodynamical description of elastic paramagnets. **93d:73015**

— On a nonconventional thermodynamical model of description of coupled fields in solids. (*see* **93a:82002**)

Meĭrmanov, A. M. (*with* Shemetov, N. V.) On the correctness of a phenomenological model of equilibrium phase transitions in a deformable elastic medium. **93d:73016**

Mizel, Victor J. *see* **Coleman, Bernard D.; et al., 93d:73008**

Montanaro, Adriano A note on differential materials. (English summary) (*see* **93g:00030**)

— Entropy-free theories for differential materials. (English summary) **93j:73008**

— On heat flux in simple media. (English summary) **93m:73004**

Moodie, T. Bryant *see* **Öncü, T. Sabri, 93h:73004** *and* **93j:73009**

Murthy, H. Narasimha *see* **Chandrasekharaiah, D. S., 93j:73005**

Naghdi, P. M. *see* **Green, Albert E., 93a:73008; 93g:73018** *and* **93i:73003**

Nečas, Jindřich (*with* Růžička, Michael) A dynamic problem of thermoelasticity. **93a:73010**

Nicolas, Pierre *see* **Blanchard, Dominique, (93k:00037)**

Ogden, R. W. On the thermoelastic modeling of rubberlike solids. (English summary) **93i:73004**

Öncü, T. Sabri (*with* Moodie, T. Bryant) On the constitutive relations for second sound in elastic solids. (English summary) **93j:73009**

— (*with* Moodie, T. Bryant) On the propagation of thermoelastic waves in temperature rate-dependent materials. (English summary) **93h:73004**

Ortner, Norbert (*with* Wagner, Peter[2]) On the fundamental solution of the operator of dynamic linear thermoelasticity. (English summary) **93j:73010**

Paskar′, A. A. *see* **Lenyuk, M. P., 93f:73014**

Pitteri, Mario A derivation of equations of balance for microstructured continua. (English summary) (*see* **93g:00030**)

Podio-Guidugli, Paolo (*with* Vergara-Caffarelli, Giorgio) Equilibrium phases and layered phase mixtures in elasticity. **93f:73017**

— *see also* **Gurtin, Morton E., 93b:73008**

Qiu, X. Y. (*with* Singh, M. C.) Thermoplastic constitutive relations for metallic solids. (English summary) **93i:73005**

Quintanilla, Ramón A note on prestressed thermoelastic bodies. (English summary) **93i:73006**

— *see also* **Ieşan, Dorin, 93j:73007**

Restuccia, Liliana (*with* Kluitenberg, Gerrit Alfred) On the heat dissipation function for dielectric relaxation phenomena in anisotropic media. **93a:73011**

Rogers, C. A. *see* **Liang, C.**

Rosakis, Phoebus Compact zones of shear transformation in an anisotropic solid. (English summary)

Rozenfel′d, G. O. (*with* Khakimov, M.) A conveyer method for solving two-dimensional problems of thermoelasticity. (Russian) (*see* **93a:00020**)

Ruggeri, Tommaso Shocks and changes of shape of second sound wave. (English summary) **93m:73005**

Růžička, Michael *see* **Nečas, Jindřich, 93a:73010**

Saccomandi, Giuseppe Some remarks about the thermoelastic theory of materials with voids. (English and Italian summaries) **93j:73011**

Saldanha da Gama, Rogério Martins *see* **Martins Costa, M. L.; et al.**

Sampaio, Rubens *see* **Martins Costa, M. L.; et al.**

Scalia, Antonio A grade consistent micropolar theory of thermoelastic materials with voids. (German and Russian summaries) **93d:73017**

Shemetov, N. V. *see* **Meĭrmanov, A. M., 93d:73016**

Shi, Peter (*with* Shillor, Meir) On design of contact patterns in one-dimensional thermoelasticity. **93e:73005**

Shillor, Meir *see* **Shi, Peter, 93e:73005**

Simionescu-Panait, Robin Olivian The effect of concentrated loads in quasi-static coupled thermoelasticity. (English summary) **93j:73012**

Singh, M. C. *see* **Qiu, X. Y., 93i:73005**

Sprekels, Jürgen *see* **Colli, Pierluigi, 93c:73010**

Tarabek, Michael A. On the existence of smooth solutions in one-dimensional nonlinear thermoelasticity with second sound. **93j:73013**

Telega, Józef Joachim *see* **Gałka, A.; et al., 93d:73012**

Vergara-Caffarelli, Giorgio *see* **Podio-Guidugli, Paolo, 93f:73017**

Viaño Rey, Juan M. *see* **Álvarez Vázquez, L. J., 93k:73007**

Wagner, Peter[2] *see* **Ortner, Norbert, 93j:73010**

Wehrli, Christoph *see* **Ziegler, Hans[1], 93e:73006**

Wojnar, R. *see* **Gałka, A.; et al., 93d:73012**

Woźniak, Czesław Macro-modelling of thermoinelastic composites. (English, Russian and Polish summaries) **93g:73020**

— Averaged thermodynamics of nonelastic composite materials. (*see* **93a:82002**)

Ziegler, Hans[1] (*with* Wehrli, Christoph) The derivation of constitutive relations from the free energy and the dissipation function. **93e:73006**

Żochowski, A. *see* **Hoffmann, Karl-Heinz[1], 93d:73013**

Zubov, L. M. *see* **Eremeev, V. A., 93c:73011**

Items with secondary classifications in 73B30

Abrashin, V. N. (*with* Dzyuba, I. A.; Kamenskaya, N. E.) Efficient methods for solving multidimensional thermoelasticity problems. (Russian. Russian summary) **93j:65208**

Allam, M. A. M. On reduction of thermoviscoelastic equations to integral equations. II. (English summary) **93j:73035**

Álvarez Vázquez, L. J. (*with* Viaño Rey, Juan M.) Asymptotic derivation of a linear thermoelastic evolution model for beams. (Spanish. Spanish summary) (*see* **93j:00009**)

Amendola, Giovambattista Cylindrical waves in incompressible thermoelastic solids. (Italian. English summary) **93d:73033**

Ames, K. A. (*with* Payne, L. E.) Stabilizing solutions of the equations of dynamical linear thermoelasticity backward in time. **93f:35231**

Andrews, Kevin T. (*with* Mikelić, Andro; Shi, Peter; Shillor, Meir; Wright, Stephen James) One-dimensional thermoelastic contact with a stress-dependent radiation condition. (English summary) **93i:73047**

Andrianov, I. V. *see* **Obraztsov, I. F.; et al., 93a:73064**

Antontsev, S. N. (*with* Chipot, Michel) Existence, stability and blowup of the solution of the thermistor problem. (Russian) **93k:35247**

Armero, F. (*with* Simo, Juan C.) A new unconditionally stable fractional step method for nonlinear coupled thermomechanical problems. (English summary) **93c:73101**

Azanov, N. P. On an infinitesimal deformation of a thermoelastic membrane. (Russian) **93h:73026**

Baer, M. *see* **Embid, Pedro, 93h:80004**

Barber, J. R. *see* **Zhang, Ronggang, 93k:73076**

Beckermann, C. (*with* Viskanta, R.) Mathematical modeling of transport phenomena during alloy solidification. (English summary) **93j:80002**

Belov, N. N. (*with* Demidov, V. N.; Efremova, L. V.; et al.) Computer modeling of the dynamics of high-velocity impact and of the accompanying physical phenomena. (Russian. Russian summary) **93k:73023**

(Boley, Bruno A.) *see* **Symposium: Boley, Bruno A., 93c:00008** *and* **93c:00009**

Borino, G. *see* **Polizzotto, C.; et al., 93a:73031**

Borodenko, Yu. N. *see* **Zozulya, V. V., 93c:73093**

Borrelli, Alessandra (*with* Patria, Maria Cristina) Induced discontinuities in thermoviscoelastic solids of integral type. (Italian summary) **93b:73022**

Brattkus, K. *see* **Merchant, Gregory J.; et al., 93h:35203**

Braun, R. J. *see* **Merchant, Gregory J.; et al., 93h:35203**

Caddemi, S. *see* **Polizzotto, C.; et al., 93a:73031**

Chadam, John M. (*with* Yin, Hong Ming) The two-phase Stefan problem in materials with memory. (English summary) (*see* **93k:00037**)

Chernyĭ, G. G. The asymptotic method in problems on the motion of bodies in a melting medium. (Russian. Russian summary) **93m:80009**

Chipot, Michel *see* **Antontsev, S. N., 93k:35247**

Christov, Christo Ivanov *see* **Markov, Konstantin Z., 93h:82070**

Ciancio, Vincenzo (*with* Verhás, József) On heat conduction in media with isotropic microstructure. **93a:80004**

Clément, Philippe (*with* Prüss, Jan) Global existence for a semilinear parabolic Volterra equation. **93a:35085**

Costa Mattos, H. (*with* Frémond, M.; Mamiya, E. N.) A simple model of the mechanical behavior of ceramic-like materials. (English summary) **93f:73086**

Das, Pravangsu Sekhar (*with* Sengupta, P. R.; Debnath, Lokenath) Lamb's plane problem in a thermoviscoelastic micropolar medium with the effect of gravity. (English summary) **93i:73021**

Dassios, George (*with* Zafiropoulos, Filareti) Errata: "Equipartition of energy in linearized 3-D viscoelasticity" [Quart. Appl. Math. **48** (1990), no. 4, 715–730; MR 92e:73021].

Davis, S. H. *see* **Merchant, Gregory J.; et al., 93h:35203**

Debnath, Lokenath *see* **Das, Pravangsu Sekhar; et al., 93i:73021**

Dell'isola, Francesco (*with* Kosiński, Witold) The interface between phases as a layer. II. A *H*-order model for two-dimensional nonmaterial continua. (English summary) (*see* **93g:00030**)

— (*with* Kosiński, Witold) The curved interface with variable thickness. **93d:82060**

Demidov, V. N. *see* **Belov, N. N.; et al., 93k:73023**
Deng, K. M. (*with* Long, Qi Wei; Wang, K. L.) A gauge field theory of dislocations and disclinations with irreversible processes. **93a:73071**
Di Carlo, Antonio (*with* Gurtin, Morton E.; Podio-Guidugli, Paolo) A regularized equation for anisotropic motion-by-curvature. **93g:73005**
Dinariev, O. Yu. Perturbation front structure for transport processes with relaxation. (Russian) **93g:82089**
Dobran, Flavio ★ Theory of structured multiphase mixtures. **93g:73024**
Dzyuba, I. A. *see* **Abrashin, V. N.; et al., 93j:65208**
Efremova, L. V. *see* **Belov, N. N.; et al., 93k:73023**
Embid, Pedro (*with* Baer, M.) Mathematical analysis of a two-phase continuum mixture theory. (English summary) **93h:80004**
Eremenko, S. Yu. ★ Методы конечных элементов в механике деформируемых тел. (Russian. Russian summary) [Finite-element methods in the mechanics of deformable bodies] **93h:73037**
Evans, Lawrence C. (*with* Soner, H. Mete; Souganidis, P. E.) Phase transitions and generalized motion by mean curvature. (English summary) **93g:35064**
Evzerov, I. D. An approximate scheme for a coupled problem of thermoelastoviscoplasticity. (Russian. Russian summary) **93h:73019**
Fabrizio, Mauro Stability properties for systems with memory. (Italian. English summary) **93a:73033**
— (*with* Morro, Angelo) ★ Mathematical problems in linear viscoelasticity. **93a:73034**
Fedelich, B. (*with* Zanzotto, Giovanni) Hysteresis in discrete systems of possibly interacting elements with a double-well energy. (English summary) **93g:73026**
Fedorov, Alexandre V. *see* **Varlamov, E. V., 93d:73032**
Fitzpatrick, Ben G. Approximation and control in integral equations of nonlinear viscoelasticity. **93d:73042**
Fotiu, P. A. Elastodynamics of thin plates with internal dissipative processes. I. Theoretical foundations. (English summary) **93g:73076**
Frémond, M. *see* **Costa Mattos, H.; et al., 93f:73086**
Fursevich, L. V. Properties of the fundamental solution of an evolution equation with attenuating memory. (Russian. Russian summary) (*see* **93m:00027**)
Fuschi, P. *see* **Polizzotto, C.; et al., 93a:73031**
Gachkevich, A. R. ★ Термомеханика электропроводных тел при воздействии квазиустановившихся электромагнитных полей. (Russian. Russian summary) [The thermomechanics of electroconducting bodies under the effect of quasisteady electromagnetic fields] **93k:73072**
Galka, A. (*with* Telega, Józef Joachim; Wojnar, R.) Homogenization and thermopiezoelectricity. **93d:73063**
Gawinecki, Jerzy A. On thermoelastic potential in three-dimensional hyperbolic thermoelasticity theory. **93c:35096**
— Global solution to the Cauchy problem in nonlinear hyperbolic thermoelasticity. **93e:35111**
Gibson, J. S. (*with* Rosen, I. G.; Tao, Gang) Approximation in control of thermoelastic systems. (English summary) **93f:65074**
Giorgi, Claudio (*with* Lazzari, Barbara) Uniqueness and stability in linear viscoelasticity: some counterexamples. (English summary) **93i:73027**
— (*with* Marzocchi, Alfredo) Extremum principles for the quasi-static problem in linear viscoelasticity. **93f:73053**
— (*with* Marzocchi, Alfredo) A minimum principle for the quasi-static problem in linear viscoelasticity. (Italian summary) **93f:73052**
— (*with* Morro, Angelo) Viscoelastic solids with unbounded relaxation function. **93c:73044**
Golubović, Z. *see* **Jarić, Jovo P., 93k:73013**
Gurtin, Morton E. *see* **Di Carlo, Antonio; et al., 93g:73005**
Hansen, Scott W. Exponential energy decay in a linear thermoelastic rod. **93f:35229**
Hattori, Harumi (*with* Mischaikow, Konstantin) A dynamical system approach to a phase transition problem. **93m:58104**
Hoffmann, Karl-Heinz[1] (*with* Żochowski, A.) Analysis of the thermoelastic model of a plate with nonlinear shape memory alloy reinforcements. (English summary) **93i:35146**
Ilic, M. A class of moving boundary problems arising in drying processes. (English summary) **93h:35219**
Il'yalov, O. R. *see* **Nyashin, Yu. I., (93k:00022)**
Jarić, Jovo P. (*with* Golubović, Z.) The balance laws of the interline and the bulk material. **93k:73013**
Jarušek, Jiří On the regularity of solutions of a thermoelastic system under noncontinuous heating regimes. III. (English summary) **93j:35040**
Jiang, Song Global solutions of the Neumann problem in one-dimensional nonlinear thermoelasticity. **93f:35227**
Kalpakidis, V. K. (*with* Massalas, C. V.) Tiersten's theory of thermoelectroelasticity: an extension. (English summary) **93j:73068**
Kamenskaya, N. E. *see* **Abrashin, V. N.; et al., 93j:65208**
Kim, Jong Uhn On the energy decay of a linear thermoelastic bar and plate. **93f:35159**
Kolpakov, A. G. Averaging in a problem of thermomechanochemistry. (Russian. Russian summary) **93h:35028**
— On a problem of the thermoelasticity of nonhomogeneous plates. (Russian. Russian summary) **93k:73051**
Kosiński, Witold (*with* Saxton, K.) The effect on finite time breakdown due to modified Fourier laws. (English summary) **93m:35118**
— *see also* **Dell'isola, Francesco, 93d:82060**; **(93g:00030)** *and* **Thermodynamics and kinetic theory, 93a:82002**
Kucharski, St. *see* **Lewiński, Tomasz, 93g:73010**
(Larecki, Wiesław) *see* **Thermodynamics and kinetic theory, 93a:82002**
Lazzari, Barbara *see* **Giorgi, Claudio, 93i:73027**
Lebeltel, Christophe Sur quelques modèles bidimensionnels de plaques en thermoélasticité linéarisée. (English summary) [On some bidimensional plate models in linearized thermoelasticity] **93a:73057**
Leugering, G. A decomposition method for integro-partial differential equations and applications. (English summary) **93i:45012**
Lewiński, Tomasz (*with* Kucharski, St.) A model with length scales for composites with periodic structure. Steady state heat conduction problem. I. Formulation. (English summary) **93g:73010**
Lipton, Robert *see* **Lur'e, K. A., 93b:49029**
Liu, I-Shih Extended thermodynamics of viscoelasticity. (*see* **93a:82002**)
Long, Qi Wei *see* **Deng, K. M.; et al., 93a:73071**
Loper, D. E. A nonequilibrium theory of a slurry. (English summary) **93g:76108**
Lur'e, K. A. (*with* Lipton, Robert) Direct solution of an optimal layout problem for isotropic heat conductors in three dimensions. **93b:49029**
— Direct solution of an optimal layout problem for isotropic and anisotropic heat conductors on a plane. **93b:49005**
Mamiya, E. N. *see* **Costa Mattos, H.; et al., 93f:73086**
Markov, Konstantin Z. (*with* Zvyatkov, K. D.) Optimal third-order bounds on the effective properties of some composite media, and related problems. (English and Russian summaries) **93f:73071**
— (*with* Christov, Christo Ivanov) On the problem of heat conduction for random dispersions of spheres allowed to overlap. (English summary) **93h:82070**
Marzocchi, Alfredo *see* **Giorgi, Claudio, 93f:73052** *and* **93f:73053**
Massalas, C. V. *see* **Kalpakidis, V. K., 93j:73068**
Maugin, Gérard A. ★ The thermomechanics of plasticity and fracture. **93i:73001**
Mel'nik, V. N. On the exactness of a difference scheme for solving a nonstationary problem of coupled thermoelasticity in stresses. (Russian. Russian summary) **93f:65064**
Merchant, Gregory J. (*with* Braun, R. J.; Brattkus, K.; Davis, S. H.) Pulsatile instability in rapid directional solidification: strongly-nonlinear analysis. (English summary) **93h:35203**
Mikelić, Andro *see* **Andrews, Kevin T.; et al., 93i:73047**
Mikhalevskii, V. Ts. Quasistatic thermic oscillations of a freely supported rectangular orthotropic plate. (Russian. English, Russian and Moldavian summaries) **93k:73052**
Mischaikow, Konstantin *see* **Hattori, Harumi, 93m:58104**
Montanaro, Adriano On the indeterminateness of the constitutive equations for certain dissipative materials. **93h:73002**
Morro, Angelo Thermodynamics of linear viscoelasticity. **93b:73023**
— *see also* **Fabrizio, Mauro, 93a:73034**; **Giorgi, Claudio, 93c:73044** *and* **Thermodynamics and kinetic theory, 93a:82002**
Muñoz Rivera, Jaime Edilberto Energy decay rates in linear thermoelasticity. **93f:35228**
— Asymptotic behaviour of energy in linear thermoviscoelasticity. (English and Portuguese summaries) **93j:73037**
Nečas, Jindřich (*with* Růžička, Michael) Global solution to the incompressible viscous-multipolar material problem. (English summary) **93g:73007**
Negahban, Mehrdad (*with* Wineman, Alan S.) Modeling the mechanical response of a material undergoing continuous isothermal crystallization. **93b:73004**
Nemat-Nasser, Sia Phenomenological theories of elastoplasticity and strain localization at high strain rates. **93a:73050**
Nerubailo, B. V. *see* **Obraztsov, I. F.; et al., 93a:73064**
Nyashin, Yu. I. (*with* Il'yalov, O. R.) On the formulation of a boundary value problem on determining residual stresses (in the general case). (Russian. Russian summary) (*see* **93k:00022**)
Obraztsov, I. F. (*with* Nerubailo, B. V.; Andrianov, I. V.) ★ Асимптотические методы в строительной механике тонкостенных конструкций. (Russian) [Asymptotic methods in the structural mechanics of thin-walled structures] **93a:73064**
Ockendon, H. *see* **Wright, T. W., 93g:73058**
Onuki, Akira Instabilities and patterns in elastic materials: gels and solid solutions. **93h:73006**
Orlov, V. P. Local solvability of one-dimensional problem of thermoviscoelasticity. (English summary) **93i:35147**
Patria, Maria Cristina *see* **Borrelli, Alessandra, 93b:73022**
Payne, L. E. *see* **Ames, K. A., 93f:35231**
Perret, C. (*with* Witomski, P.) Équation de la chaleur et réflections multiples. (English summary) [The heat equation and multiple reflections] **93d:35056**
Pham Duc Chinh Shakedown of bars subjected to cycles of loads and temperature. (English summary) **93k:73034**
Piekarski, Sławomir On integration of constraints imposed on a system of conservation laws by the second law of thermodynamics. **93b:80004**
Pitteri, Mario Some remarks on a derivation of equations of balance for microstructured continua from Maxwell's statistical mechanics. **93e:82005**
Podio-Guidugli, Paolo Hyperbolic evolution of phase interfaces. (English summary) (*see* **93g:00030**)
— *see also* **Di Carlo, Antonio; et al., 93g:73005**
Polizzotto, C. (*with* Borino, G.; Caddemi, S.; Fuschi, P.) Shakedown problems for material models with internal variables. **93a:73031**
Prüss, Jan *see* **Clément, Philippe, 93a:35085**
Racke, Reinhard ★ Lectures on nonlinear evolution equations. **93a:35002**
— Global small solutions to nonlinear evolution equations. (*see* **93b:00022**)
Rivlin, Ronald Frame indifference. (Italian summary) **93e:73002**
Rosen, I. G. *see* **Gibson, J. S.; et al., 93f:65074**
Roubíček, Tomáš A Stefan problem in multi-component media coupled with a Signorini problem. (*see* **93k:00037**)
Rubin, M. B. Hyperbolic heat conduction and the second law. (English summary) **93f:80011**
Ruggeri, Tommaso Polar continua as a particular case of relativistic extended thermodynamics. (Italian) **93b:80001**
Růžička, Michael *see* **Nečas, Jindřich, 93g:73007**
(Rvachëv, V. L.) *see* **Eremenko, S. Yu., 93h:73037**
Rybka, Piotr Dynamical modelling of phase transitions by means of viscoelasticity in many dimensions. **93d:35164**
Rymarz, Cz. Ferroelectric liquid crystals as micropolar medium in bundle space. (Russian and Polish summaries) **93a:82060**
Saldanha da Gama, Rogério Martins On the solutions of the energy transfer problem in a nonconvex black body with convective/radiative boundary conditions. **93d:80003**
Saxton, K. *see* **Kosiński, Witold, 93m:35118**
Schiavone, Peter (*with* Tait, R. J.) Thermal effects in Mindlin-type plates. (English summary) **93m:73019**

Sengupta, P. R. *see* **Das, Pravangsu Sekhar; et al., 93i:73021**
Shi, Peter (*with* Shillor, Meir) Existence of a solution to the N-dimensional problem of thermoelastic contact. **93i:73052**
— (*with* Shillor, Meir) A quasistatic contact problem in thermoelasticity with a radiation condition for the temperature. (English summary) **93k:73075**
— *see also* **Andrews, Kevin T.; et al., 93i:73047**
Shibata, Yoshihiro On one-dimensional nonlinear thermoelasticity. (*see* **93d:35003**)
Shilkrut, D. Stability of equilibrium states of nonlinear structures and chaos phenomenon. Chaos in statics? (English summary) **93g:73079**
Shillor, Meir *see* **Andrews, Kevin T.; et al., 93i:73047**; **Shi, Peter, 93i:73052** *and* **93k:73075**
Shukla, K. N. ★ Diffusion processes during drying of solids. **93b:80007**
Šilhavý, Miroslav Multipolar viscoelastic materials and the symmetry of the coefficients of viscosity. (English and Czech summaries) **93e:73003**
Simo, Juan C. *see* **Armero, F., 93c:73101**
Soner, H. Mete *see* **Evans, Lawrence C.; et al., 93g:35064**
Souganidis, P. E. *see* **Evans, Lawrence C.; et al., 93g:35064**
Sprekels, Jürgen Global existence of thermomechanical processes in nonlinear thin rods under velocity feedbacks. **93f:35230**
— On thermomechanical phase transitions. (*see* **93k:00037**)
Tait, R. J. *see* **Schiavone, Peter, 93m:73019**
Tao, Gang *see* **Gibson, J. S.; et al., 93f:65074**
Telega, Józef Joachim *see* **Gałka, A.; et al., 93d:73063**
Ting, T. C. T. (*with* Yan, Gong Pu) The $r^{-1/2}(\ln r)$ singularity at interface cracks in anisotropic bimaterials due to heat flow. (English summary) **93d:73060**
Varlamov, E. V. (*with* Fedorov, Alexandre V.) A traveling wave in a nonisothermic mixture of two solids. (Russian) **93d:73032**
Verhás, József *see* **Ciancio, Vincenzo, 93a:80004**
Viaño Rey, Juan M. *see* **Álvarez Vázquez, L. J., (93j:00009)**
Viskanta, R. *see* **Beckermann, C., 93j:80002**
Vodyanitskii, A. A. Becoming of nonlinear thermomagnetoelastic structures in dissipative media. (English summary) (*see* **93g:76004**)
Wang, K. L. *see* **Deng, K. M.; et al., 93a:73071**
Wineman, Alan S. *see* **Negahban, Mehrdad, 93b:73004**
Witomski, P. *see* **Perret, C., 93d:35056**
Wojnar, R. *see* **Gałka, A.; et al., 93d:73063**
Wright, Stephen James *see* **Andrews, Kevin T.; et al., 93i:73047**
Wright, T. W. (*with* Ockendon, H.) A model for fully formed shear bands. (English summary) **93g:73058**
Xie, Wei Qing A class of nonlinear parabolic integro-differential equations. (English summary) **93m:45004**
Yan, Gong Pu *see* **Ting, T. C. T., 93d:73060**
Yin, Hong Ming *see* **Chadam, John M., (93k:00037)**
Zafiropoulos, Filareti *see* **Dassios, George**
Zanzotto, Giovanni *see* **Fedelich, B., 93g:73026**
Zhang, Ronggang (*with* Barber, J. R.) Transient thermoelastic contact and stability of two thin-walled cylinders. (English summary) **93k:73076**
Zheng, Song Mu Global existence for a thermodynamically consistent model of phase field type. **93a:35091**
Żochowski, A. *see* **Hoffmann, Karl-Heinz[1], 93i:35146**
(Zorski, Henryk) *see* **Thermodynamics and kinetic theory, 93a:82002**
Zozulya, V. V. (*with* Borodenko, Yu. N.) A coupled problem on the contact of a cylindrical shell with a rigid body through a heat-conducting layer. (Russian. English summary) **93c:73093**
Zvyatkov, K. D. *see* **Markov, Konstantin Z., 93f:73071**

Items listed otherwise than by author

Atlanta, GA ★ Sixty-fifth Birthday of Bruno A. Boley Symposium. Part 1. **93c:00008**
— ★ Sixty-fifth Birthday of Bruno A. Boley Symposium. Part 2. **93c:00009**
Birthday:
Boley, Bruno A. ★ Sixty-fifth Birthday of Bruno A. Boley Symposium. Part 1. **93c:00008**
— ★ Sixty-fifth Birthday of Bruno A. Boley Symposium. Part 2. **93c:00009**
Mądralin ★ Thermodynamics and kinetic theory. **93a:82002**
Meeting:
American Society of Mechanical Engineers ★ Sixty-fifth Birthday of Bruno A. Boley Symposium. Part 1. **93c:00008**
— ★ Sixty-fifth Birthday of Bruno A. Boley Symposium. Part 2. **93c:00009**
Thermodynamics and Kinetic Theory ★ Thermodynamics and kinetic theory. **93a:82002**
Symposium:
Boley, Bruno A. ★ Sixty-fifth Birthday of Bruno A. Boley Symposium. Part 1. **93c:00008**
— ★ Sixty-fifth Birthday of Bruno A. Boley Symposium. Part 2. **93c:00009**
Thermodynamics and kinetic theory ★ Thermodynamics and kinetic theory. **93a:82002**

73B35 Random materials

Girs, V. N. *see* **Vainshtein, A. A.; et al., 93i:73007**
Lokin, V. V. *see* **Vainshtein, A. A.; et al., 93i:73007**
Vainshtein, A. A. (*with* Girs, V. N.; Lokin, V. V.) Tensors of the sixth rank as characteristics of random tensor fields. (Russian) **93i:73007**

Items with secondary classifications in 73B35

Ariaratnam, S. T. (*with* Xie, Wei Chau) Lyapunov exponents in stochastic structural dynamics. (English summary) **93f:73063**
Asch, M. (*with* Kohler, Werner E.; Papanicolaou, G. C.; Postel, M.; White, Benjamin S.) Frequency content of randomly scattered signals. **93f:73041**
Benveniste, Yakov (*with* Dvorak, George J.) Uniform fields and universal relations in piezoelectric composites. (English summary) **93g:73101**
Bradley, R. Mark *see* **Buchalter, B. J., 93h:82033**
Buchalter, B. J. (*with* Bradley, R. Mark) Orientational order in random packings of ellipses. (English summary) **93h:82033**
Dvorak, George J. *see* **Benveniste, Yakov, 93g:73101**
Kohler, Werner E. *see* **Asch, M.; et al., 93f:73041**
Kuske, R. Wave localization in a one-dimensional random medium. (English summary) **93g:78015**
Lado, F. *see* **Torquato, S., 93c:73007**
Markov, Konstantin Z. (*with* Zvyatkov, K. D.) Optimal third-order bounds on the effective properties of some composite media, and related problems. (English and Russian summaries) **93f:73071**
Papanicolaou, G. C. *see* **Asch, M.; et al., 93f:73041**
Postel, M. *see* **Asch, M.; et al., 93f:73041**
Sab, K. On the homogenization and the simulation of random materials. (English summary) **93g:73013**
Torquato, S. (*with* Lado, F.) Improved bounds on the effective elastic moduli of random arrays of cylinders. (English summary) **93c:73007**
White, Benjamin S. *see* **Asch, M.; et al., 93f:73041**
Xie, Wei Chau *see* **Ariaratnam, S. T., 93f:73063**
Yurinskiĭ, V. V. On the homogenization error for a zero drift diffusion in a random medium [translation of Trudy Inst. Mat. (Novosibirsk) **20** (1991)]. **93d:60129**
Zvyatkov, K. D. *see* **Markov, Konstantin Z., 93f:73071**

73B40 Anisotropic materials

Cowin, S. C. (*with* Mehrabadi, M. M.) The structure of the linear anisotropic elastic symmetries. (English summary) **93i:73008**
Hayes, Michael A. (*with* Norris, Andrew) Static implications of the existence of a plane of symmetry in an anisotropic elastic solid. (English summary) **93c:73013**
Kuznetsov, Sergeĭ Vladimirovich Construction of the Green and Neumann tensor in the theory of elasticity of an anisotropic body. (Russian. English summary) **93c:73014**
Mehrabadi, M. M. *see* **Cowin, S. C., 93i:73008**
Norris, Andrew *see* **Hayes, Michael A., 93c:73013**
Rychlewski, Jan *see* **Zhang, Jin Min, 93h:73005**
Zhang, Jin Min (*with* Rychlewski, Jan) Structural tensors for anisotropic solids. (Russian and Polish summaries) **93h:73005**
— On anisotropic invariants of vectors and second order tensors. (Russian and Polish summaries) **93f:73018**

Items with secondary classifications in 73B40

Abrahams, I. D. (*with* Wickham, G. R.) The propagation of elastic waves in a certain class of inhomogeneous anisotropic materials. I. The refraction of a horizontally polarized shear wave source. (English summary) **93j:73023**
Achenbach, J. D. *see* **Wang, Canyun, 93j:73022**
Barber, J. R. (*with* Sturla, F. A.) Application of the reciprocal theorem to some problems for the elastic half-space. **93a:73014**
Bardzokas, Dem. (*with* Parton, V. Z.) Singular integral equations in problems of crack arrest. (Russian) **93h:73011**
Barnett, D. M. (*with* Chadwick, Paul; Lothe, J.) Addendum: "The behaviour of elastic surface waves polarized in a plane of material symmetry. I. General analysis" [Proc. Roy. Soc. London Ser. A **430** (1990), no. 1878, 213–240; MR 92c:73037] by Chadwick. **93f:73037**
— *see also* **Ting, T. C. T., 93i:73046**
Begehr, Heinrich (*with* Lin, Wei[1]) A mixed-contact boundary problem in orthotropic elasticity. (English summary) **93m:35175**
Betten, J. Recent advances in applications of tensor functions in solid mechanics. (Russian summary) **93j:73003**
Biroli, Marco (*with* Mosco, Umberto) Discontinuous media and Dirichlet forms of diffusion type. (English summary) (*see* **93j:35004**)
Bradford, I. D. R. *see* **Rogers, T. G.; et al., 93i:73032**
Cai, Hai Tao On the periodic fundamental problems of a half plane with anisotropic elasticity. **93a:73016**
Cao, Da Wei (*with* He, Hua Can; Zhang, Guo Qi) Similarity analysis of Lie group method applied to solving the partial differential equation of orthogonal anisotropic plates. (English summary) **93g:35004**
Caviglia, G. (*with* Morro, Angelo) Rays and transport equation for pre-stressed solids. (Italian summary) **93b:73018**
Chadwick, Paul (*with* Wilson, N. J.) The behaviour of elastic surface waves polarized in a plane of material symmetry. III. Orthorhombic and cubic media. **93f:73038**
— *see also* **Barnett, D. M.; et al., 93f:73037**
Chandrasekharaiah, D. S. (*with* Murthy, H. Narasimha) Plane waves in anisotropic generalized thermoelasticity. (English summary) **93j:73005**
Charalambopoulos, Antonios (*with* Kiriaki, Kiriakie) Characterization of functions as radiation patterns in linear elasticity. (English summary) **93j:73030**
Chugainova, A. P. Steady quasitransversal ordinary and shock waves in a weakly anisotropic nonlinearly elastic medium. (Russian) **93b:73016**
Cohen, Harley (*with* Wang, Chao Chen) Some equilibrium problems for compressible, anisotropic, laminated nonlinearly elastic bodies. **93e:73011**
Craine, R. E. *see* **Harvey, A. P.; et al., 93h:73015**
England, A. H. *see* **Rogers, T. G.; et al., 93i:73032**
Epstein, Marcelo (*with* Śniatycki, Jędrzej) Fermat's principle in elastodynamics. **93a:73029**
— *see also* **Maugin, Gérard A.; et al., 93c:73020**
Gao, Huajian Stress analysis of holes in anisotropic elastic solids: conformal mapping and boundary perturbation. (English summary) **93c:73102**
Grioli, Giuseppe On internal constraints of inextendability. (Italian) **93f:73022**
Harvey, A. P. (*with* Craine, R. E.; Syngellakis, S.) Propagation of nonlinear surface acoustic waves on elastic and piezoelectric solids. (English summary) **93h:73015**
— (*with* Tupholme, G. E.) Propagation of anisotropic elastic and piezoelectric nonlinear surface acoustic waves. (English summary) **93g:73041**
He, Hua Can *see* **Cao, Da Wei; et al., 93g:35004**
Hwu, Chyan Bin Explicit solutions for collinear interface crack problems. (English summary) **93i:73041**

Ignaczak, Józef (*with* Rao, C. R. A.) A tensorial classification of elastic waves. (English summary) **93i:73019**
Kagadii, T. S. (*with* Massakovskaya, L. V.; Pavlenko, A. V.) The perturbation method in a three-dimensional problem of linear viscoelasticity of anisotropic bodies. (Russian) **93b:73024**
Khatiashvili, G. M. On the bending by a transverse force of composite cylindrical bodies with rectilinear anisotropy of general form. (Russian) **93j:73062**
Khutoryanskii, N. M. The nonstationary dynamic Green tensor for a three-dimensional transversally isotropic elastic medium. (Russian) **93b:73012**
Kiriaki, Kiriakie *see* **Charalambopoulos, Antonios, 93j:73030**
Kornev, V. M. (*with* Mul'kibaev, A. O.) Asymptotic analysis of problems on free oscillations of rectangular transversally isotropic and three-layered plates. (Russian) **93j:73047**
Kuznetsov, Sergei Vladimirovich Fundamental solutions of the statics of anisotropic elastic media in the case of two independent variables. (Russian) **93f:73024**
Leguillon, D. Asymptotic and numerical analysis of a crack branching in nonisotropic materials. (English summary) **93i:73042**
Leslie, F. M. Continuum theory for nematic liquid crystals. (English summary) **93f:76004**
Lin, Wei[1] *see* **Begehr, Heinrich, 93m:35175**
Liolios, A. A direct derivation of dual extremum principles in dynamic anisotropic coupled thermoelasticity. (Bulgarian summary) **93a:73009**
Loret, Benjamin Does deviation from deviatoric associativity lead to the onset of flutter instability? (English summary) **93i:73024**
Lothe, J. *see* **Barnett, D. M.; et al., 93f:73037**
Maradudin, A. A. *see* **Parker, David F.; et al., 93g:73042**
Massakovskaya, L. V. *see* **Kagadii, T. S.; et al., 93b:73024**
Maugin, Gérard A. (*with* Epstein, Marcelo; Trimarco, Carmine) Pseudomomentum and material forces in inhomogeneous materials (application to the fracture of electromagnetic materials in electromagnetoelastic fields). **93c:73020**
Mayer, A. P. *see* **Parker, David F.; et al., 93g:73042**
Mićunović, Milan V. On viscoplasticity of transversely isotropic materials. (German and Serbo-Croatian summaries) **93e:73016**
Mirenkova, G. N. (*with* Sosnina, È. G.) Stresses on the surface of a rigid needle in an orthotropic elastic medium. (Russian. Russian summary) **93g:73021**
Morro, Angelo *see* **Caviglia, G., 93b:73018**
Mosco, Umberto *see* **Biroli, Marco, (93j:35004)**
Mul'kibaev, A. O. *see* **Kornev, V. M., 93j:73047**
Murthy, H. Narasimha *see* **Chandrasekharaiah, D. S., 93j:73005**
Nafasov, È. A system of differential equations in the theory of orthotropic plates of medium thickness. (Russian. English summary)
Natroshvili, D. G. Exterior boundary value problems for differential equations of oscillations in the anisotropic theory of elasticity. (Russian) (*see* **93f:34004**)
Negahban, Mehrdad (*with* Wineman, Alan S.) Material symmetry and the evolution of anisotropies in a simple material. I. Change of reference configuration. **93c:73002a**
— (*with* Wineman, Alan S.) Material symmetry and the evolution of anisotropies in a simple material. II. The evolution of material symmetry. **93c:73002b**
Nemat-Nasser, Sia *see* **Ni, Lu Qun, 93a:73067**
Ni, Lu Qun (*with* Nemat-Nasser, Sia) Interface cracks in anisotropic dissimilar materials: general case. **93a:73067**
Norris, Andrew One-component surface waves in materials with symmetry. (English summary) **93h:73016**
Oleinik, O. A. On Boussinesq and Cerruti problems in elasticity. **93g:73034**
Parker, David F. (*with* Mayer, A. P.; Maradudin, A. A.) The projection method for nonlinear surface acoustic waves. (English summary) **93g:73042**
Parton, V. Z. *see* **Bardzokas, Dem., 93h:73011**
Paşa, Gelu I. Bounds for effective coefficients of periodic materials in the nonsymmetric case. (English summary) **93f:73012**
Pavlenko, A. V. *see* **Kagadii, T. S.; et al., 93b:73024**
Payton, Robert G. Wave propagation in a restricted transversely isotropic elastic solid whose slowness surface contains conical points. (English summary) **93j:73024**
Ponte Castañeda, P. New variational principles in plasticity and their application to composite materials. (English summary) **93j:73073**
Rajagopal, K. R. On a class of solutions in elastodynamics. **93d:73031**
— (*with* Tao, L.) Wave propagation in elastic solids infused with fluids. **93g:73039**
Rao, C. R. A. *see* **Ignaczak, Józef, 93i:73019**
Rogers, T. G. (*with* Bradford, I. D. R.; England, A. H.) Finite plane deformations of highly anisotropic elastic-plastic plates and shells. (English summary) **93i:73032**
— (*with* Watson, P.; Spencer, A. J. M.) An exact three-dimensional solution for normal loading of inhomogeneous and laminated anisotropic elastic plates of moderate thickness. (English summary) **93f:73061**
Rogerson, G. A. (*with* Scott, N. H.) Aspects of energy propagation in highly anisotropic elastic solids. **93f:73035**
Rosakis, Phoebus Compact zones of shear transformation in an anisotropic solid. (English summary)
Rychlewski, Jan (*with* Zhang, Jin Min) On representation of tensor functions: a review. (Russian summary) **93f:73020**
Schulgasser, K. Relationships between the effective properties of transversely isotropic piezoelectric composites. **93a:73062**
Scott, N. H. *see* **Rogerson, G. A., 93f:73035**
Sneddon, Ian N. Fourier-transform solution of a Boussinesq problem for a hexagonally aeolotropic elastic half-space. (English summary) **93k:73017**
Śniatycki, Jędrzej *see* **Epstein, Marcelo, 93a:73029**
Soldatos, K. P. A transverse shear deformation theory for homogeneous monoclinic plates. **93c:73064**
Sosnina, È. G. *see* **Mirenkova, G. N., 93g:73021**
Spencer, A. J. M. Plasticity theory for fibre-reinforced composites. **93d:73036**
— (*with* Watson, P.) Buckling of laminated anisotropic plates under cylindrical bending. (English summary) **93i:73030**
— *see also* **Rogers, T. G.; et al., 93f:73061**
Sturla, F. A. *see* **Barber, J. R., 93a:73014**
Syngellakis, S. *see* **Harvey, A. P.; et al., 93h:73015**
Tao, L. *see* **Rajagopal, K. R., 93g:73039**
Ting, T. C. T. The motion of one-component surface waves. (English summary) **93j:73025**
— (*with* Barnett, D. M.) Image force on line dislocations in anisotropic elastic half-spaces with a fixed boundary. (English summary) **93i:73046**
Trimarco, Carmine *see* **Maugin, Gérard A.; et al., 93c:73020**
Tupholme, G. E. *see* **Harvey, A. P., 93g:73041**
Tvardovskii, V. V. A pseudo-macro-crack in an anisotropic body. (Russian) **93d:73061**
Walpole, L. J. Long elastic waves in a periodic composite. (English summary) **93h:73014**
Wang, Canyun (*with* Achenbach, J. D.) A new look at 2-D time-domain elastodynamic Green's functions for general anisotropic solids. (English summary) **93j:73022**
Wang, Chao Chen *see* **Cohen, Harley, 93e:73011**
Watson, P. *see* **Rogers, T. G.; et al., 93f:73061** *and* **Spencer, A. J. M., 93i:73030**
Wickham, G. R. *see* **Abrahams, I. D., 93j:73023**
Willis, J. R. The stress field near the tip of an accelerating crack. (English summary) **93h:73030**
Wilson, N. J. *see* **Chadwick, Paul, 93f:73038**
Wineman, Alan S. *see* **Negahban, Mehrdad, 93c:73002a** *and* **93c:73002b**
Yanson, Z. A. On nonstationary Love waves near the surface of an anisotropic elastic body. (Russian. English and Russian summaries) **93h:73017**
Zhang, Guo Qi *see* **Cao, Da Wei; et al., 93g:35004**
Zhang, Jin Min *see* **Rychlewski, Jan, 93f:73020**

73B50 Stress concentrations

Mirenkova, G. N. (*with* Sosnina, È. G.) Stresses on the surface of a rigid needle in an orthotropic elastic medium. (Russian. Russian summary) **93g:73021**
Sosnina, È. G. *see* **Mirenkova, G. N., 93g:73021**

Items with secondary classifications in 73B50

Movchan, A. B. (*with* Nazarov, S. A.) Asymptotic behaviour of stress-strain state in the vicinity of sharp defects in an elastic body. (English summary) **93k:73022**
Nazarov, S. A. *see* **Movchan, A. B., 93k:73022**
Popov, G. Ya. A new approach to problems on elastic stress concentrations near cracks. (Russian) **93a:73019**
Schaeffer, David G. A mathematical model for localization in granular flow. (English summary) **93g:73061**

73B99 None of the above, but in this section

Assaf, M. A. (*with* Jentsch, Lothar) On the elasticity theory of microporous solids. (English, German and Russian summaries) **93k:73009**
Auriault, J.-L. (*with* He, S.) Liquid phase sintering: rearrangement and densification. (English summary) **93k:73010**
Balankin, A. S. The theory of elasticity of fractals and models of nonlinear elasticity, high elasticity and fracture of materials with a multifractal structure. (Russian)
Banfi, Carlo ★ Introduzione alla meccanica dei continui. (Italian) [Introduction to continuum mechanics] **93e:73007**
Casey, James On infinitesimal deformation measures. **93g:73022**
Caviglia, G. (*with* Morro, Angelo) Energy flux in dissipative media. **93c:73015**
Cohen, Harley (*with* MacSithigh, Gearoid P.) Symmetric and asymmetric roto-deformations of a symmetrical, isotropic, elastic pseudo-rigid body. (English summary) **93g:73023**
Dobran, Flavio ★ Theory of structured multiphase mixtures. **93g:73024**
Edelen, Dominic G. B. A 1-dimensional elastic model with time translation gauge invariance. (English summary) **93g:73025**
Epstein, Marcelo *see* **Maugin, Gérard A.; et al., 93c:73020**
Eringen, A. Cemal Continuum theory of microstretch liquid crystals. (English summary) **93k:73011**
Fedelich, B. (*with* Zanzotto, Giovanni) Hysteresis in discrete systems of possibly interacting elements with a double-well energy. (English summary) **93g:73026**
Frémond, M. On the flattening of materials. (*see* **93k:00037**)
Golubović, Z. *see* **Jarić, Jovo P., 93k:73013**
Govindjee, Sanjay (*with* Simo, Juan C.) Coupled stress-diffusion: case II. (English summary)
Guo, Zhong Heng (*with* Man, Chi-Sing) Conjugate stress and tensor equation $\sum_{r=1}^{m} \mathbf{U}^{m-r}\mathbf{X}\mathbf{U}^{r-1} = \mathbf{C}$. **93k:73012**
— *see also* **Lehmann, Th.; et al., 93c:73019**
Hayes, Michael A. Special circles in mechanics. **93c:73016**
He, S. *see* **Auriault, J.-L., 93k:73010**
Huang, Ke Zhi *see* **Zheng, Quan Shui, 93c:73021**
Jarić, Jovo P. (*with* Golubović, Z.) The balance laws of the interline and the bulk material. **93k:73013**
— On a transport theorem for moving interface. (English summary) **93j:73014**
Jentsch, Lothar *see* **Assaf, M. A., 93k:73009**
Kaczmarek, M. On kinematics in the theory of multiphase media: comparison between two traditions. **93d:73018**
Katanaev, M. O. (*with* Volovich, I. V.) Theory of defects in solids and three-dimensional gravity. **93c:73017**
Klyuchkovskii, Yu. B. (*with* Navrotskiĭ, P. P.) Transformation properties of certain characteristics of the motion of a deformable solid in different forms of relativistic dynamics. (Ukrainian) **93c:73018**
Ladopoulos, E. G. Relativistic elastic stress analysis for moving frames. **93f:73019**
Lehmann, Th. (*with* Guo, Zhong Heng; Liang, Hao Yun) The conjugacy between Cauchy stress and logarithm of the left stretch tensor. **93c:73019**
Liang, Hao Yun *see* **Lehmann, Th.; et al., 93c:73019**
MacSithigh, Gearoid P. *see* **Cohen, Harley, 93g:73023**
Malyshev, K. L. Gauge group and gauge transformation in the continuum theory of defects. (Russian. English summary) **93k:73014**
Man, Chi-Sing *see* **Guo, Zhong Heng, 93k:73012**

Martins, Luiz C. (*with* Podio-Guidugli, Paolo) On the local measures of mean rotation in continuum mechanics. **93a:73012**

Maugin, Gérard A. (*with* Epstein, Marcelo; Trimarco, Carmine) Pseudomomentum and material forces in inhomogeneous materials (application to the fracture of electromagnetic materials in electromagnetoelastic fields). **93c:73020**

Morro, Angelo *see* **Caviglia, G., 93c:73015**

Navrots'kiĭ, P. P. *see* **Klyuchkovskiĭ, Yu. B., 93c:73018**

Nikolaevskiĭ, V. N. ★ Mechanics of porous and fractured media. **93a:73013**

Onuki, Akira Instabilities and patterns in elastic materials: gels and solid solutions. **93h:73006**

Panagiotopoulos, P. D. Fractal geometry in solids and structures. **93b:73011**

Pennisi, Sebastiano On third order tensor-valued isotropic functions. **93h:73007**

Pismen, L. M. (*with* Rubinstein, Jacob) Dynamics of disclinations in liquid crystals. **93h:73008**

Podio-Guidugli, Paolo (*with* Vianello, Maurizio) The representation problem of constrained linear elasticity. (English summary) **93i:73009**

— *see also* **Martins, Luiz C., 93a:73012**

Rubinstein, Jacob *see* **Pismen, L. M., 93h:73008**

Rychlewski, Jan (*with* Zhang, Jin Min) On representation of tensor functions: a review. (Russian summary) **93f:73020**

Silli, Carlo Some observations about the energy-conservation law in one-dimensional continua. (Italian. English and Italian summaries) **93j:73015**

Simo, Juan C. *see* **Govindjee, Sanjay**

Trimarco, Carmine *see* **Maugin, Gérard A.; et al., 93c:73020**

Ugodchikov, A. G. On the correctness of the equations of the dynamics of a deformable solid body. (Russian) **93g:73027**

Vianello, Maurizio *see* **Podio-Guidugli, Paolo, 93i:73009**

Volovich, I. V. *see* **Katanaev, M. O., 93c:73017**

Zanzotto, Giovanni *see* **Fedelich, B., 93g:73026**

Zhang, Jin Min *see* **Rychlewski, Jan, 93f:73020**

Zheng, Quan Shui (*with* Huang, Ke Zhi) On Cauchy's mean rotation. (English summary) **93c:73021**

Items with secondary classifications in 73B99

Argon, Ali S. *see* **Mott, Peter H.; et al.**

Arminjon, M. Macro-homogeneous strain fields with arbitrary local inhomogeneity. (Russian and Polish summaries) **93c:73004**

Arutyunyan, N. Kh. (*with* Manzhirov, A. V.; Naumov, V. È.) ★ Контактные задачи механики растущих тел. (Russian. English and Russian summaries) [Contact problems in the mechanics of growing bodies] **93i:73048**

Bertsch, Michiel (*with* Dal Passo, Roberta) Hyperbolic phenomena in a strongly degenerate parabolic equation. **93g:35078**

Binz, E. Global differential geometric methods in elasticity and hydrodynamics. (English summary) **93f:58057**

Blanchard, Dominique (*with* Nicolas, Pierre) The dissipation as a tool to account for trapped internal variables in a convex set. (*see* **93k:00037**)

Blokhin, A. M. Investigation of the stability of strong discontinuities in continuum mechanics. (Russian) (*see* **93b:35002**)

Carlsson, T. *see* **Leslie, F. M.; et al., 93m:76003**

(Casas-Vázquez, J.) *see* **Rheological modelling: thermodynamical and statistical approaches, 93c:76002**

Casey, James The principle of rigidification. **93f:73004**

Cimmelli, Vito Antonio Structured adsorbing interface in phase transition of classical fluid mixtures. (English summary) **93j:82029**

Cleja-Ţigoiu, Sanda (*with* Soós, E.) Elastic range and relaxed configurations in rate-independent elastoplasticity. I. Basical [Basic] assumptions. **93g:73056a**

— (*with* Soós, E.) Elastic range and relaxed configurations in rate-independent elastoplasticity. II. Connection between the two models. **93g:73056b**

Cohen, Harley (*with* Sun, Q.-X.) A further work on directed rods. **93c:73058**

Curnier, A. (*with* Rakotomanana, L.) Generalized strain and stress measures: critical survey and new results. (English, Russian and Polish summaries) **93j:73016**

Dal Passo, Roberta *see* **Bertsch, Michiel, 93g:35078**

Denardo, Bruce (*with* Larraza, Andrés; Putterman, Seth; Roberts, Paul H.) Nonlinear theory of localized standing waves. **93d:73034**

Dinariev, O. Yu. Perturbation front structure for transport processes with relaxation. (Russian) **93g:82089**

Dincă, G. (*with* Mateescu, D.) Friedrichs-type extension theorems for multivalued operators and some applications to mechanics. **93b:49013**

Elżanowski, Marek (*with* Epstein, Marcelo) The symmetry group of second-grade materials. (English summary) **93f:73007**

Epstein, Marcelo *see* **Elżanowski, Marek, 93f:73007**

Flippen, L. D., Jr. Fundamental law preservation in model reduction. (English summary) **93j:73002**

Fonseca, Irene (*with* Parry, Gareth P.) On a class of invariant functionals. (English summary) **93i:73045**

Friedman, Avner (*with* Hu, Bei; Velázquez, Juan J. L.) A free-boundary problem modeling loop dislocations in crystals. **93h:35217**

Gevirtz, Julian On planar mappings with prescribed principal strains. **93f:73054**

Giaquinta, M. (*with* Modica, G.; Souček, Jiří) Cartesian currents and liquid crystals: dipoles, singular lines and singular points. (English summary) **93h:49062**

Girs, V. N. *see* **Vainshtein, A. A.; et al., 93i:73007**

Grioli, Giuseppe On internal constraints of inextendability. (Italian) **93f:73022**

Haupt, Peter (*with* Pao, Yih Hsing; Hutter, Kolumban) Theory of incremental motion in a body with initial elastoplastic deformation. (English and German summaries) **93f:73046**

Hill, James M. (*with* Wu, Yong-Hong) Some axially symmetric flows of Mohr-Coulomb compressible granular materials. **93i:73023**

Hill, Rodney Similarity analysis of creep indentation tests. (English summary) **93e:73036**

Hu, Bei *see* **Friedman, Avner; et al., 93h:35217**

Hull, B. D. (*with* Rogers, T. G.; Spencer, A. J. M.) Controllable flows of ideal fibre-reinforced fluids.

Hutter, Kolumban *see* **Haupt, Peter; et al., 93f:73046**

Jongschaap, R. J. J. Towards a unified formulation of microrheological models. **93h:76005**

(Jou, D.) *see* **Rheological modelling: thermodynamical and statistical approaches, 93c:76002**

Kijowski, Jerzy (*with* Magli, Giulio) Relativistic elastomechanics as a Lagrangian field theory. **93i:58040**

Kimia, Benjamin B. (*with* Tannenbaum, Allen R.; Zucker, Steven W.) On the evolution of curves via a function of curvature. I. The classical case. **93a:58037**

Kinderlehrer, David Some methods of analysis in the study of microstructure. (*see* **93m:00047**)

Kopisz, M. Principle of conservation of momentum, angular momentum and energy for a deformable continuum in an electromagnetic field. **93i:73043**

Krichevets, Yu. M. A model of a crystal with defects on the basis of the theory of fiber bundles. (Russian. Russian summary)

Kytömaa, H. K. (*with* Schmid, Peter J.) On the collision of rigid spheres in a weakly compressible fluid. (English summary) **93h:76006**

Larraza, Andrés *see* **Denardo, Bruce; et al., 93d:73034**

Laverty, J. S. *see* **Leslie, F. M.; et al., 93m:76003**

Leslie, F. M. Continuum theory for nematic liquid crystals. (English summary) **93f:76004**

— (*with* Laverty, J. S.; Carlsson, T.) Continuum theory for biaxial nematic liquid crystals. (English summary) **93m:76003**

Lokin, V. V. *see* **Vainshtein, A. A.; et al., 93i:73007**

MacMillan, Ernest H. On the hydrodynamics of biaxial nematic liquid crystals. II. Steady-state analysis. **93f:76005b**

— On the spin of tensors. **93c:15022**

— On the equations of rigid body motion. (English summary) **93j:70003**

Magli, Giulio *see* **Kijowski, Jerzy, 93i:58040**

Manganaro, N. (*with* Valenti, Giovanna) Group analysis and linearization procedure for a nonautonomous model describing rate-type materials. (English summary) **93m:58126**

Manzhirov, A. V. *see* **Arutyunyan, N. Kh.; et al., 93i:73048**

Marlow, Randall Scot On the stress in an internally constrained elastic material. **93c:73027**

Mateescu, D. *see* **Dincă, G., 93b:49013**

Matos, João Palhoto Young measures and the absence of fine microstructures in a class of phase transitions. **93i:58033**

Mattheij, R. M. M. *see* **van de Vorst, G. A. L., 93k:76034**

Maugin, Gérard A. (*with* Trimarco, Carmine) Pseudomomentum and material forces in nonlinear elasticity: variational formulations and application to brittle fracture. **93f:73029**

— Applications of an energy-momentum tensor in nonlinear elastodynamics: pseudomomentum and Eshelby stress in solitonic elastic systems. (English summary) **93k:73031**

McNamara, Sean (*with* Young, W. R.) Kinetics of a one-dimensional granular medium in the quasielastic limit. (English summary) **93i:76006**

Milton, Graeme W. *see* **Nesi, Vincenzo, 93a:73070**

Mişicu, M. The conservation principles of energy and entropy of the dual nonlinear theory of continuum. **93a:73002**

Mizel, Victor J. Remarks on materials with memory. (Italian summary) **93a:73038**

Mls, Jiří A contribution to mechanics of two-phase systems. **93d:76067**

Modica, G. *see* **Giaquinta, M.; et al., 93h:49062**

Mora, Peter The lattice Boltzmann phononic lattice solid. (English summary) **93g:82094**

Moreau, J.-J. An expression of classical dynamics. (English summary) (*see* **93h:49003**)

Mott, Peter H. (*with* Argon, Ali S.; Suter, Ulrich W.) The atomic strain tensor.

Moura Neto, F. Defect dynamics in a dissipative system. **93d:35066**

Murdoch, A. I. Remarks on the foundations of linear viscoelasticity. (English summary) **93h:73020**

Naumov, V. È. *see* **Arutyunyan, N. Kh.; et al., 93i:73048**

Nesi, Vincenzo (*with* Milton, Graeme W.) Polycrystalline configurations that maximize electrical resistivity. **93a:73070**

Nicolas, Pierre *see* **Blanchard, Dominique, (93k:00037)**

Novikov, N. A. *see* **Sporykhin, A. N., 93g:73115**

Olaosebikan, O. Equilibrium states of a hyperelastic subfluid. (English, Russian and Polish summaries) **93g:76012**

Pao, Yih Hsing *see* **Haupt, Peter; et al., 93f:73046**

Parry, Gareth P. *see* **Fonseca, Irene, 93i:73045**

Pawar, A. R. Stationary tensor fields in relativistic continuum mechanics. (English summary) **93j:83013**

Piekarski, Sławomir Quasi-particle kinetic equation in a deformable material continuum. **93g:82098**

Podio-Guidugli, Paolo On energy-growth conditions in elasticity. **93a:73048**

Putterman, Seth *see* **Denardo, Bruce; et al., 93d:73034**

Rajagopal, K. R. (*with* Tao, L.) Wave propagation in elastic solids infused with fluids. **93g:73039**

Rakotomanana, L. *see* **Curnier, A., 93j:73016**

Roberts, Paul H. *see* **Denardo, Bruce; et al., 93d:73034**

Rogers, T. G. *see* **Hull, B. D.; et al.**

Rougée, P. Kinematics of finite deformations. **93g:73002**

Sánchez, Angel (*with* Vázquez, Luis) Nonlinear wave propagation in disordered media. **93d:35147**

Schmid, Peter J. *see* **Kytömaa, H. K., 93h:76006**

Schneider, Manfred ★ Himmelsmechanik. Band I. (German) [Celestial mechanics. Vol. I] **93h:70007**

Seleznëv, V. A. Uniqueness of the solution of an initial value problem for ordinary differential equations in a given class of mappings. (Russian. Russian summary) **93e:34010**

Šilhavý, Miroslav Cauchy's stress theorem and tensor fields with divergences in L^p. **93b:73001**

Simo, Juan C. (*with* Tarnow, N.) The discrete energy-momentum method. Conserving algorithms for nonlinear elastodynamics. (English summary) **93g:73118**

Soós, E. *see* **Cleja-Ţigoiu, Sanda, 93g:73056a** *and* **93g:73056b**

Souček, Jiří *see* **Giaquinta, M.; et al., 93h:49062**

Spencer, A. J. M. *see* **Hull, B. D.; et al.**

Sporykhin, A. N. (*with* Novikov, N. A.) ★ Комбинированный подход Эйлера-Лагранжа

в механике сплошной среды. (Russian) [The combined Euler-Lagrange approach in continuum mechanics] **93g:73115**

Starita, Giulio Nonlocal variational mechanics and equilibrium of small crystals. (English summary) (*see* **93g:00030**)

Sun, Q.-X. *see* **Cohen, Harley, 93c:73058**

Suter, Ulrich W. *see* **Mott, Peter H.; et al.**

Tannenbaum, Allen R. *see* **Kimia, Benjamin B.; et al., 93a:58037**

Tao, L. *see* **Rajagopal, K. R., 93g:73039**

Tarnow, N. *see* **Simo, Juan C., 93g:73118**

Trimarco, Carmine *see* **Maugin, Gérard A., 93f:73029**

Vainshtein, A. A. (*with* Girs, V. N.; Lokin, V. V.) Tensors of the sixth rank as characteristics of random tensor fields. (Russian) **93i:73007**

Valenti, Giovanna *see* **Manganaro, N., 93m:58126**

Vallée, Claude Compatibility equations for large deformations. (English summary) **93h:73021**

Vázquez, Luis *see* **Sánchez, Angel, 93d:35147**

Velázquez, Juan J. L. *see* **Friedman, Avner; et al., 93h:35217**

Virga, Epifanio G. Defects in nematic liquid crystals with variable degree of orientation. (English summary) **93j:76011**

van de Vorst, G. A. L. (*with* Mattheij, R. M. M.) Numerical analysis of a 2-D viscous sintering problem with nonsmooth boundaries. (English and German summaries) **93k:76034**

Wu, Chien H. Cohesive elasticity and surface phenomena. **93a:73075**

Wu, Yong-Hong *see* **Hill, James M., 93i:73023**

Young, W. R. *see* **McNamara, Sean, 93i:76006**

Zanzotto, Giovanni On the material symmetry group of elastic crystals and the Born rule. (English summary) **93j:73020**

Zucker, Steven W. *see* **Kimia, Benjamin B.; et al., 93a:58037**

Items listed otherwise than by author

Lecture Notes in Physics ★ Rheological modelling: thermodynamical and statistical approaches. **93c:76002**

Meeting:

Rheological Modelling: Thermodynamical and Statistical Approaches ★ Rheological modelling: thermodynamical and statistical approaches. **93c:76002**

Rheological modelling: thermodynamical and statistical approaches ★ Rheological modelling: thermodynamical and statistical approaches. **93c:76002**

San Feliu de Guíxols ★ Rheological modelling: thermodynamical and statistical approaches. **93c:76002**

73Cxx Elasticity {For the biharmonic equation, see 31A30, 31B30.}

Items with secondary classifications in 73Cxx

Karasudhi, P. ★ Foundations of solid mechanics. **93d:73001**

73C02 Classical linear elasticity

Agalovyan, L. A. (*with* Khachatryan, G. G.) An asymptotic method for solving boundary value problems in the theory of elasticity for nonclassical domains. (Russian)

Agzamov, I. *see* **Kholmatov, T. Kh.; et al.**

Bahar, Leon Y. *see* **Sosa, Horacio A., 93f:73025**

Barber, J. R. (*with* Sturla, F. A.) Application of the reciprocal theorem to some problems for the elastic half-space. **93a:73014**

Blanchard, Dominique (*with* Xiang, Yan) Clamped plates as limits of genuinely clamped plates in linear and nonlinear elasticity. **93d:73019**

Bogashov, F. A. Description of three-dimensional problems in elasticity theory by means of analytic functions of a Hamilton variable. II. (Russian) **93f:73021**

Boulanger, Ph. (*with* Hayes, Michael A.) Shear, shear stress and shearing. (English summary) **93h:73009**

Butenko, Yu. I. On conditions for the existence of damped solutions of a plane problem of elasticity theory. (Russian) **93a:73015**

Cai, Hai Tao On the periodic fundamental problems of a half plane with anisotropic elasticity. **93a:73016**

Carvalho, J. L. (*with* Curran, J. H.) Two-dimensional Green's functions for elastic bi-materials. (English summary) **93e:73008**

Chebakov, M. I. *see* **Lubyagin, I. A.; et al., 93b:73013**

Chen, T. Some remarks on the solutions of a concentrated torque and double forces on an elastic half-space. **93g:73028**

Chudinovich, I. Yu. Boundary equations in problems of the dynamics of piecewise-homogeneous elastic media. (Russian) **93g:73029**

Ciarlet, Philippe G. (*with* Miara, Bernadette) On the ellipticity of linear shell models. **93c:73022**

Cruse, T. A. (*with* Suwito, W.) On the Somigliana stress identity in elasticity. (English summary) **93i:73010**

Curran, J. H. *see* **Carvalho, J. L., 93e:73008**

Flavin, J. N. Convexity considerations for the biharmonic equation in plane polars with applications to elasticity. (English summary) **93k:73015**

Gregory, R. D. The general form of the three-dimensional elastic field inside an isotropic plate with free faces. **93g:73030**

Grioli, Giuseppe On internal constraints of inextendability. (Italian) **93f:73022**

Gritsaichuk, V. M. Structures of the solution of problems in elasticity theory with rotational symmetry. (Russian. English and Russian summaries) **93g:73031**

Gu, An Hai The traction problem in elastodynamics. (Chinese. English and Chinese summaries) **93k:73016**

Hasegawa, Hisao (*with* Lee, Ven-Gen; Mura, Toshio) Green's functions for axisymmetric problems of dissimilar elastic solids. (English summary) **93e:73009**

Hayes, Michael A. *see* **Boulanger, Ph., 93h:73009**

Heise, Ulrich Fundamental solutions of Navier's differential operator for elastic Riemann spaces with a finite and with an infinite number of sheets. (English summary) **93f:73023**

Ishankulov, T. I. *see* **Yarmukhamedov, Sh. Ya.; et al., 93e:73010**

Kanaun, S. K. *see* **Vil'chevskaya, E. N., 93f:73026**

Kaplunov, Yu. D. (*with* Nol'de, E. V.) The Lamb problem for the case of a generalized plane stress state. (Russian) **93i:73011**

Khachatryan, G. G. *see* **Agalovyan, L. A.**

Kholmatov, T. Kh. (*with* Radzhabov, N. A.; Agzamov, I.) Fundamental solutions of a problem in the theory of elasticity in stresses. (Russian. Russian summary)

Khutoryanskiĭ, N. M. The nonstationary dynamic Green tensor for a three-dimensional transversally isotropic elastic medium. (Russian) **93b:73012**

Kolomiets, A. N. Homogeneous solutions of a system of differential equations of an elastic medium. (Russian. Russian summary) (*see* **93g:00024**)

Kouris, D. (*with* Tsuchida, E.) An analytical solution for the fiber indentation problem. **93d:73020**

Kovalenko, M. D. Bi-orthogonal expansions in the first fundamental problem in elasticity theory. (Russian) **93a:73017**

Kozlov, Vladimir Arkad'evich (*with* Maz'ya, V. G.; Schwab, Christoph) On singularities of solutions of the displacement problem of linear elasticity near the vertex of a cone. **93g:73032**

Kuznetsov, Sergei Vladimirovich Fundamental solutions of the statics of anisotropic elastic media in the case of two independent variables. (Russian) **93f:73024**

Lee, Ven-Gen *see* **Hasegawa, Hisao; et al., 93e:73009**

Lubyagin, I. A. (*with* Pozharskiĭ, D. A.; Chebakov, M. I.) Generalization of Boussinesq and Cerruti problems for the case of an elastic three-dimensional wedge. (Russian) **93b:73013**

Makhmudov, O. I. *see* **Yarmukhamedov, Sh. Ya.; et al., 93e:73010**

Maz'ya, V. G. *see* **Kozlov, Vladimir Arkad'evich; et al., 93g:73032**

Miara, Bernadette *see* **Ciarlet, Philippe G., 93c:73022**

Movchan, A. B. Integral characteristics of elastic inclusions and cavities in the two-dimensional theory of elasticity. **93c:73023**

Mura, Toshio *see* **Hasegawa, Hisao; et al., 93e:73009**

Nikolaev, A. G. Exact solutions of the Lamé equation for one- and two sheeted hyperboloids of revolution and a paraboloid of revolution. (Russian. English and Russian summaries) **93g:73033**

Nol'de, E. V. *see* **Kaplunov, Yu. D., 93i:73011**

Oleinik, O. A. On Boussinesq and Cerruti problems in elasticity. **93g:73034**

Pen'kov, V. B. (*with* Tolokonnikov, L. A.) Strict solutions of two-dimensional problems in the mechanics of a deformable solid. (Russian. English and Ukrainian summaries) **93i:73012**

Pozharskiĭ, D. A. *see* **Lubyagin, I. A.; et al., 93b:73013**

Radzhabov, N. A. *see* **Kholmatov, T. Kh.; et al.**

Ren, Yong Jian *see* **Zou, Dao Qin**

Rogowski, Bogdan The Reissner-Sagoci problem for layered orthotropic elastic media. (English summary)

Russo, Remigio On the traction problem in linear elastostatics. **93c:73024**

Schwab, Christoph *see* **Kozlov, Vladimir Arkad'evich; et al., 93g:73032**

Sneddon, Ian N. On Muki's solution of the equations of linear elasticity. (English summary) **93i:73013**

— Fourier-transform solution of a Boussinesq problem for a hexagonally aeolotropic elastic half-space. (English summary) **93k:73017**

Sosa, Horacio A. (*with* Bahar, Leon Y.) Transition from Airy stress function to state space formulation of elasticity. (English summary) **93f:73025**

Sturla, F. A. *see* **Barber, J. R., 93a:73014**

Suwito, W. *see* **Cruse, T. A., 93i:73010**

Tarakanov, V. I. Some a priori estimates in problems of mechanics. (Russian. Russian summary) **93i:73014**

Tolokonnikov, L. A. *see* **Pen'kov, V. B., 93i:73012**

Torres del Castillo, G. F. Debye potentials for isotropic elastic media. (English and Spanish summaries) **93i:73015**

Tsuchida, E. *see* **Kouris, D., 93d:73020**

Tsurkis, I. Ya. Stress state in a half-plane with an elliptic inclusion. (Russian) **93d:73021**

Vil'chevskaya, E. N. (*with* Kanaun, S. K.) Integral equations for a problem on a thin inclusion in a homogeneous elastic medium. (Russian. Russian summary) **93f:73026**

Xiang, Yan *see* **Blanchard, Dominique, 93d:73019**

Xing, Jing Tang (*with* Zheng, Zhao Chang) Some general theorems and generalized and piecewise generalized variational principles for linear elastodynamics. (Chinese. English and Chinese summaries) **93k:73018**

Yarmukhamedov, Sh. Ya. (*with* Ishankulov, T. I.; Makhmudov, O. I.) The Cauchy problem for a system of equations in the theory of elasticity in space. (Russian) **93e:73010**

Zargaryan, S. S. Singularities of the solution of integral equations of potential theory arising in problems of elasticity for nonhomogeneous media. **93h:73010**

Zheng, Zhao Chang *see* **Xing, Jing Tang, 93k:73018**

Zlatanovski, Tomislav Strenge Lösung des Torsionsproblems für den Kreiszylinder mit Zwei kreislöchern. (English and Macedonian summaries) [Strict solution of the torsion problem for the circular cylinder with two circular holes] **93f:73027**

Zou, Dao Qin (*with* Ren, Yong Jian) The displacement and stress distributions of elastic cones under self-weight. (Chinese. English and Chinese summaries)

Items with secondary classifications in 73C02

Atluri, S. N. *see* **Chien, C. C.; et al., 93f:73108**

Avellaneda, Marco Bounds on the effective elastic constants of two-phase composite materials. **93f:73070**

Bakhvalov, N. S. (*with* Knyazev, Andreĭ Vladimirovich) An effective iterative method for the solution of Lamé equations for almost incompressible media and of Stokes equations. (Russian) **93b:65194**

Brenner, Susanne C. A nonconforming mixed multigrid method for the pure displacement problem in planar linear elasticity. (English summary) **93m:65166**

Cao, Da Wei (*with* He, Hua Can; Zhang, Guo Qi) Similarity analysis of Lie group method applied to solving the partial differential equation of orthogonal anisotropic plates. (English summary) **93g:35004**

Cardoso, Fernando (*with* Popov, Georgi) Rayleigh quasimodes in linear elasticity. (French summary) **93f:58233**

Chen, Goong (*with* Zhou, Jian-Xin) ★ Boundary element methods. **93e:65143**

Chen, Tung Yang Green's functions and the nonuniform transformation problem in a piezoelectric medium.

Chien, C. C. (*with* Rajiyah, H.; Atluri, S. N.) On the evaluation of hyper-singular integrals arising in the boundary element method for linear elasticity. (English summary) **93f:73108**

Chiu, Yu Tsung *see* **Wu, Kuang Chong; et al., 93c:73100**

Constanda, Christian The rigorous solution of the classical theory of plates. (English summary) **93g:73075**

Cowin, S. C. (*with* Mehrabadi, M. M.) The structure of the linear anisotropic elastic symmetries. (English summary) **93i:73008**

Dai, C. *see* **Meek, J. L.**

Davì, Fabrizio The theory of Kirchhoff rods as an exact consequence of three-dimensional elasticity. (English summary) **93g:73073**

Dubovik, A. V. *see* **Savula, Ya. G.; et al.**

Figueiredo, Isabel M. N. (*with* Trabucho, L.) A Galerkin approximation for linear elastic shallow shells. (English summary) **93i:73034**

Fil'shtinskiĭ, M. L. *see* **Parton, V. Z., 93f:73091**

Flavin, J. N. (*with* Knops, R. J.; Payne, L. E.) Asymptotic and other estimates for a semilinear elliptic equation in a cylinder. (English summary) **93k:35089**

Gao, Huajian Stress analysis of holes in anisotropic elastic solids: conformal mapping and boundary perturbation. (English summary) **93c:73102**

Gol'dshtein, R. V. (*with* Zhitnikov, Yu. V.; Morozova, T. M.) Equilibrium of a system of cracks with the formation of overlap and opening regions on them. (Russian) **93c:73082**

Gürlebeck, K. Lower and upper bounds for the first eigenvalue of the Lamé system. **93d:35106**

Han, Hou De A boundary element method for Signorini problems in three dimensions. **93a:65166**

Haslinger, Jaroslav (*with* Neittaanmäki, Pekka; Salmenjoki, K.) Sensitivity analysis for discretized unilateral plane elasticity problem. (English summary) **93j:73058**

Hayes, Michael A. (*with* Norris, Andrew) Static implications of the existence of a plane of symmetry in an anisotropic elastic solid. (English summary) **93c:73013**

He, Hua Can *see* **Cao, Da Wei; et al., 93g:35004**

Horgan, Cornelius O. (*with* Payne, L. E.) The influence of geometric perturbations on the decay of Saint-Venant end effects in linear isotropic elasticity. (English summary) **93m:35177**

Hwu, Zhong Her *see* **Wu, Kuang Chong; et al., 93c:73100**

Jentsch, Lothar Zur klassischen Kontaktaufgabe der Elastostatik. (English and Russian summaries) [On the classical contact problem of elastostatics] **93f:73094**

Kawashita, Mishio On the local-energy decay property for the elastic wave equation with the Neumann boundary condition. **93k:35161**

Knops, R. J. *see* **Flavin, J. N.; et al., 93k:35089**

Knyazev, Andrei Vladimirovich *see* **Bakhvalov, N. S., 93b:65194**

Lebeltel, Christophe Sur quelques modèles bidimensionnels de plaques en thermoélasticité linéarisée. (English summary) [On some bidimensional plate models in linearized thermoelasticity] **93a:73057**

Maier, Giulio *see* **Sirtori, S.; et al., 93d:73070**

Marin, M. Relaxed Saint-Venant problem for a bar with its cross-section by conics limited. (English and Romanian summaries)

Maz'ya, V. G. (*with* Nazarov, S. A.; Plamenevskiĭ, B. A.) ★ Asymptotische Theorie elliptischer Randwertaufgaben in singulär gestörten Gebieten. II. (German) [Asymptotic theory of elliptic boundary value problems in singularly perturbed domains. II] **93j:35025**

Meek, J. L. (*with* Dai, C.) The integration of the Melan solution over a line segment—implementation for boundary element modelling of surface excavations. (English summary)

Mehrabadi, M. M. *see* **Cowin, S. C., 93i:73008**

Miara, Bernadette Justification des mises à l'échelle et des hypothèses sur les données dans l'analyse asymptotique des modèles bidimensionnels de plaques minces élastiques. I. Le cas linéaire. (English summary) [Justification of the scalings and of the assumptions on the data in the asymptotic analysis of bidimensional models of elastic thin plates. I. The linear case] **93b:73026**

— (*with* Trabucho, L.) A Galerkin spectral approximation in linearized beam theory. (French summary) **93b:65182**

Miccoli, S. *see* **Sirtori, S.; et al., 93d:73070**

Mirenkova, G. N. (*with* Sosnina, È. G.) Stresses on the surface of a rigid needle in an orthotropic elastic medium. (Russian. Russian summary) **93g:73021**

Morozova, T. M. *see* **Gol'dshtein, R. V.; et al., 93c:73082**

Mukha, I. S. A numerical scheme for solving problems of the nonlinear deformation of solid bodies in the presence of initial displacements. (Ukrainian)

Natroshvili, D. G. Exterior boundary value problems for differential equations of oscillations in the anisotropic theory of elasticity. (Russian) (*see* **93f:34004**)

Nazarov, S. A. *see* **Maz'ya, V. G.; et al., 93j:35025**

Neittaanmäki, Pekka *see* **Haslinger, Jaroslav; et al., 93j:73058**

Norris, Andrew *see* **Hayes, Michael A., 93c:73013**

Novati, G. *see* **Sirtori, S.; et al., 93d:73070**

Parton, V. Z. (*with* Fil'shtinskiĭ, M. L.) A stationary wave process in a piezo-electric layer and half-layer that are weakened by tunnel cuts (antiplanar deformation). (Russian. Russian summary) **93f:73091**

Pauk, N. M. *see* **Savula, Ya. G.; et al.**

Payne, L. E. *see* **Flavin, J. N.; et al., 93k:35089** *and* **Horgan, Cornelius O., 93m:35177**

Payton, Robert G. Wave propagation in a restricted transversely isotropic elastic solid whose slowness surface contains conical points. (English summary) **93j:73024**

Pen'kov, V. B. (*with* Tolokonnikov, L. A.) On the solution of plate bending problems. (Russian) **93k:73054**

Perchik, E. L. Nonunique representations of solutions for reducing boundary value problems in the mechanics of an inhomogeneous medium to integral equations of the second kind with smooth kernels. (Russian. English and Russian summaries) **93j:73074**

Piltner, Reinhard The derivation of a thick and thin plate formulation without ad hoc assumptions. (English summary) **93f:73060**

Plamenevskiĭ, B. A. *see* **Maz'ya, V. G.; et al., 93j:35025**

Podio-Guidugli, Paolo (*with* Vianello, Maurizio) The representation problem of constrained linear elasticity. (English summary) **93i:73009**

Popov, Georgi *see* **Cardoso, Fernando, 93f:58233**

Puladze, È. P. An inverse problem in elasticity theory for an infinite domain. (Russian. English and Georgian summaries)

Quarteroni, Alfio (*with* Zampieri, Elena) Finite element preconditioning for Legendre spectral collocation approximations to elliptic equations and systems. **93c:65146**

Rajiyah, H. *see* **Chien, C. C.; et al., 93f:73108**

Salmenjoki, K. *see* **Haslinger, Jaroslav; et al., 93j:73058**

Savula, Ya. G. (*with* Dubovik, A. V.; Pauk, N. M.) Boundary value and variational problems with a penalty for a combined model in the plane theory of elasticity. (Ukrainian)

Schumann, Rainer Zur Regularität einer Kontakt-Randwertaufgabe. (English and Russian summaries) [On the regularity of a contact boundary value problem] **93e:73040**

Sirtori, S. (*with* Maier, Giulio; Novati, G.; Miccoli, S.) A Galerkin symmetric boundary-element method in elasticity: formulation and implementation. **93d:73070**

Sosnina, È. G. *see* **Mirenkova, G. N., 93g:73021**

Sweers, Guido On examples to a conjecture of de Saint Venant. **93d:35037**

Tarakanov, V. I. Convergence of a method of elastic solutions in nonlinear boundary value problems of plane elasticity. (Russian) (*see* **93k:73001**)

Tcha-Kondor, Ouro Nouvelles séries trigonométriques adaptées à l'étude de problèmes aux limites pour l'équation biharmonique. Étude du cas de la fissure. (English and French summaries) [New trigonometric series adapted to the study of boundary value problems for the biharmonic equation. The case of the crack] **93f:35056**

Tolokonnikov, L. A. *see* **Pen'kov, V. B., 93k:73054**

Trabucho, L. *see* **Miara, Bernadette, 93b:65182** *and* **Figueiredo, Isabel M. N., 93i:73034**

Vianello, Maurizio *see* **Podio-Guidugli, Paolo, 93i:73009**

White, Luther W. Estimation of elastic parameters in a von Kármán model. **93h:35068**

Wu, Chang Chun *see* **Zhang, You Qi**

Wu, Kuang Chong (*with* Chiu, Yu Tsung; Hwu, Zhong Her) A new boundary integral equation formulation for linear elastic solids. (English summary) **93c:73100**

Zampieri, Elena *see* **Quarteroni, Alfio, 93c:65146**

Zhang, Guo Qi *see* **Cao, Da Wei; et al., 93g:35004**

Zhang, J. D. A boundary integral equation approach for the calculation of gradients and higher order derivatives in solid mechanics problems. (English summary) **93d:73071**

Zhang, You Qi (*with* Wu, Chang Chun) The patch test condition in curvilinear coordinate system—formulation and application. (English summary)

Zhitnikov, Yu. V. *see* **Gol'dshtein, R. V.; et al., 93c:73082**

Zhou, Jian-Xin *see* **Chen, Goong, 93e:65143**

Zimmerman, Robert W. Hashin-Shtrikman bounds on the Poisson ratio of a composite material. **93g:73091**

73C05 Stress functions

Curnier, A. (*with* Rakotomanana, L.) Generalized strain and stress measures: critical survey and new results. (English, Russian and Polish summaries) **93j:73016**

Rakotomanana, L. *see* **Curnier, A., 93j:73016**

Rvachev, M. A. Stress functions in multiply connected volumes. (Russian) **93d:73022**

Items with secondary classifications in 73C05

Tsurkis, I. Ya. Stress state in a half-plane with an elliptic inclusion. (Russian) **93d:73021**

73C10 Saint-Venant's principle

Horgan, Cornelius O. (*with* Payne, L. E.) A Saint-Venant principle for a theory of nonlinear plane elasticity. (English summary) **93j:73017**

Payne, L. E. *see* **Horgan, Cornelius O., 93j:73017**

Ramaswamy, Mythily On a counterexample to a conjecture of Saint-Venant. **93a:73018**

Roseman, Joseph J. *see* **Shenker, Yevgeni, 93m:73006**

Shenker, Yevgeni (*with* Roseman, Joseph J.) On the Saint-Venant principle in the case of infinite energy. (English summary) **93m:73006**

Items with secondary classifications in 73C10

Biroli, Marco (*with* Mosco, Umberto) Formes de Dirichlet et estimations structurelles dans les milieux discontinus. (English summary) [Dirichlet forms and structural estimates in discontinuous media] **93c:35028**

Flavin, J. N. Convexity considerations for the biharmonic equation in plane polars with applications to elasticity. (English summary) **93k:73015**

Mosco, Umberto *see* **Biroli, Marco, 93c:35028**

73C15 Uniqueness theorems

Items with secondary classifications in 73C15

Quintanilla, Ramón A note on prestressed thermoelastic bodies. (English summary) **93i:73006**

Russo, Remigio On the traction problem in linear elastostatics. **93c:73024**

73C35 Mixed boundary value problems [see also 45F05]

Abedzadeh, F. *see* **Pak, R. Y. S., 93d:73025**

Bardzokas, Dem. (*with* Parton, V. Z.) Singular integral equations in problems of crack arrest. (Russian) **93h:73011**

Chudinovich, I. Yu. Boundary equations in problems of the dynamics of elastic media with boundary conditions of mixed type. (Russian. English and Russian summaries) **93i:73016**

Hakobyan, Ashot Use of single layer potential in mixed problems of elasticity. **93d:73023**

Nakhmein, E. L. (*with* Nuller, B. M.) Periodic combined boundary value problems and their applications in elasticity theory. (Russian) **93d:73024**

Nuller, B. M. *see* **Nakhmein, E. L., 93d:73024**
Pak, R. Y. S. (*with* Abedzadeh, F.) Torsional traction on an open finite cylindrical cavity. **93d:73025**
Parton, V. Z. *see* **Bardzokas, Dem., 93h:73011**
Popov, G. Ya. A new approach to problems on elastic stress concentrations near cracks. (Russian) **93a:73019**
Reissner, E. On some ramifications of the center of shear problem. (English, German and Russian summaries) **93g:73035**
Sadykhov, V. È. A mixed boundary value problem for functions that are harmonic in a polygon and its application to the theory of elasticity. (Russian. English and Azerbaijani summaries) **93d:73026**
Shirokova, E. The first basic problem exact solution for a right-angled V-crack on the plane.
Sil'vestrov, V. V. Effective solution of basic quasiperiodic problems in elasticity theory for a plane with cuts along a line. (Russian. Russian summary) **93g:73036**
Szeidl, Gy. (*with* Van Gemert, D.) On Mitchell conditions for plane problems in elastostatics. **93h:73012**
Van Gemert, D. *see* **Szeidl, Gy., 93h:73012**
Zhorzholiani, G. T. The stretching of an infinite plane with cross-shaped cut. (Russian)

Items with secondary classifications in 73C35

Antipov, Yu. A. (*with* Arutyunyan, N. Kh.) Contact problems in elasticity theory in the presence of friction and adhesion. (Russian) **93b:73033**
Arutyunyan, N. Kh. *see* **Antipov, Yu. A., 93b:73033**
Begehr, Heinrich (*with* Lin, Wei[1]) A mixed-contact boundary problem in orthotropic elasticity. (English summary) **93m:35175**
Dzyuba, I. A. Difference schemes of the multicomponent method of variable directions for the solution of problems in elasticity theory. (Russian) **93b:73038**
Heise, Ulrich Fundamental solutions of the plane and three-dimensional bipotential operators defined on various types of Riemann surfaces and spaces. (English summary) **93k:73088**
Huang, Xiao Ling Equilibrium of an anisotropic infinite plate with circular holes when isotropic circular disks are welded to it. (Chinese. Chinese summary)
Lacroix, Marie-Thérèse Une méthode intégrale de frontière. Application au laplacien et à l'élasticité. (English summary) [An integral boundary value method applied to the Laplacian and to elasticity] **93g:35028**
Lin, Wei[1] *see* **Begehr, Heinrich, 93m:35175**
Martynenko, Mikhaĭlo D. (*with* Zhuravkov, M. A.; Zhuravkova, E. P.) Multivalued Green quasifunctions and the solution of boundary value problems for domains with slits and cuts. (Russian. English and Russian summaries)
Mikhaĭlova, T. V. A mixed boundary value problem for a system in the theory of elasticity in unbounded domains. (Russian) **93c:35154**
Nicaise, Serge Regularity of the weak solution of the Lamé system in nonsmooth domains. **93k:35256**
Schmitz, Hermann A collocation method for potential problems with a mixed Dirichlet-Signorini boundary condition. (*see* **93k:35004**)
Sten'kin, V. V. A new method for the explicit solution of the biharmonic equation for a plane with a finite rectilinear cut. (Russian. English and Russian summaries) **93m:31003**
Zhuravkov, M. A. *see* **Martynenko, Mikhaĭlo D.; et al.**
Zhuravkova, E. P. *see* **Martynenko, Mikhaĭlo D.; et al.**

73C50 Nonlinear elasticity

Acerbi, Emilio (*with* Buttazzo, Giuseppe; Percivale, Danilo) A variational definition of the strain energy for an elastic string. **93c:73025**
Antman, Stuart S. (*with* Marlow, Randall Scot) Material constraints, Lagrange multipliers, and compatibility. Applications to rod and shell theories. **93c:73026**
Ball, J. M. (*with* James, Richard Dana) A characterization of plane strain. **93b:73014**
Blume, Janet A. Reference configurations for homogeneous and inhomogeneous nonlinearly elastic materials. **93d:73027**
Buttazzo, Giuseppe *see* **Acerbi, Emilio; et al., 93c:73025**
Chernega, N. Ya. *see* **Eremeev, V. A.; et al., 93j:73018**
Cohen, Harley (*with* Wang, Chao Chen) Some equilibrium problems for compressible, anisotropic, laminated nonlinearly elastic bodies. **93e:73011**
De Tommasi, Domenico One-parameter families of isochoric deformations. **93f:73028**
Eremeev, V. A. (*with* Zubov, L. M.; Karyakin, M. I.; Chernega, N. Ya.) Cavitation in nonlinearly elastic bodies with dislocations and disclinations. (Russian) **93j:73018**
Fosdick, Roger (*with* MacSithigh, Gearoid P.) Minimization in nonlinear elasticity theory for bodies reinforced with inextensible cords. **93e:73012**
James, Richard Dana (*with* Spector, Scott J.) Remarks on $W^{1,p}$-quasiconvexity, interpenetration of matter, and function spaces for elasticity. (French summary) **93h:73013**
— *see also* **Ball, J. M., 93b:73014**
Karyakin, M. I. *see* **Eremeev, V. A.; et al., 93j:73018**
MacSithigh, Gearoid P. *see* **Fosdick, Roger, 93e:73012**
Marlow, Randall Scot On the stress in an internally constrained elastic material. **93c:73027**
— *see also* **Antman, Stuart S., 93c:73026**
Maugin, Gérard A. (*with* Trimarco, Carmine) Pseudomomentum and material forces in nonlinear elasticity: variational formulations and application to brittle fracture. **93f:73029**
Ogden, R. W. Nonlinear elasticity: incremental equations and bifurcation phenomena. **93d:73028**
Percivale, Danilo *see* **Acerbi, Emilio; et al., 93c:73025**
Rajagopal, K. R. Inhomogeneous deformations in non-linearly elastic materials. (English summary) (*see* **93g:00030**)
— (*with* Zhang, J. P.) Secondary deformation due to axial shearing of a cylinder of noncircular cross-section. (English summary) **93i:73017**
— *see also* **Zhang, J. P., 93e:73013** *and* **Tao, L., 93f:73030**
Rudev, A. N. *see* **Zubov, L. M., 93k:73020**
Senashov, S. I. Exact solutions and symmetries of equations in the nonlinear theory of elasticity. (Russian. English and Russian summaries) **93k:73019**
Shibata, Yoshihiro On one-dimensional nonlinear thermoelasticity. (*see* **93d:35003**)
Spector, Scott J. *see* **James, Richard Dana, 93h:73013**
Stephan, E. P. Coupling of finite elements and boundary elements for some nonlinear interface problems. (English summary) **93j:73019**
Tao, L. (*with* Rajagopal, K. R.) On an inhomogeneous deformation of an isotropic compressible elastic material. (English summary) **93f:73030**
Tomarelli, Franco A quasi-variational problem in nonlinear elasticity. **93g:73037**
Trimarco, Carmine *see* **Maugin, Gérard A., 93f:73029**
Wang, Chao Chen *see* **Cohen, Harley, 93e:73011**
Zanzotto, Giovanni On the material symmetry group of elastic crystals and the Born rule. (English summary) **93j:73020**
Zhang, J. P. (*with* Rajagopal, K. R.) Some inhomogeneous motions and deformations within the context of a nonlinear elastic solid. **93e:73013**
— *see also* **Rajagopal, K. R., 93i:73017**
Zhang, Ke Wei[1] Remarks on the two well problem with rotations. **93d:73029**
Zubov, L. M. Variational principles of nonlinear elastostatics in Euler coordinates. (Russian) **93c:73028**
— Dual solutions in the nonlinear theory of elasticity. (Russian) **93i:73018**
— (*with* Rudev, A. N.) An efficient method for testing the Hadamard condition for a nonlinearly elastic compressible medium. (Russian. Russian summary) **93k:73020**
— *see also* **Eremeev, V. A.; et al., 93j:73018**

Items with secondary classifications in 73C50

Ali Mehmeti, Felix (*with* Nicaise, Serge) Nonlinear interaction problems. **93m:35093**
Álvarez Vázquez, L. J. (*with* Viaño Rey, Juan M.) Asymptotic justification of an evolution model for nonlinear elastic beams. (Spanish. Spanish summary) (*see* **93j:00009**)
Antman, Stuart S. (*with* Marlow, Randall Scot) Transcritical buckling of columns. **93e:73018**
Anfranc, Martial Junctions between three-dimensional and two-dimensional non-linearly elastic structures. **93a:73054**
Balankin, A. S. The theory of elasticity of fractals and models of nonlinear elasticity, high elasticity and fracture of materials with a multifractal structure. (Russian)
Bauman, Patricia (*with* Owen, Nicholas C.; Phillips, Daniel) Maximum principles and a priori estimates for an incompressible material in nonlinear elasticity. **93k:35052**
Beatty, M. F. *see* **Johnson, M. A.**
Bhattacharya, Kaushik Self-accommodation in martensite. (English summary) **93g:73014**
Blanchard, Dominique (*with* Xiang, Yan) Clamped plates as limits of genuinely clamped plates in linear and nonlinear elasticity. **93d:73019**
Chaplain, M. A. J. (*with* Sleeman, B. D.) A mathematical model for the growth and classification of a solid tumor: a new approach via nonlinear elasticity theory using strain-energy functions. (English summary)
Ciarlet, Philippe G. The method of asymptotic expansions for a non-linearly elastic clamped plate. **93a:73020**
De Roeck, Yann-Hervé (*with* Le Tallec, Patrick; Vidrascu, Marina) A domain-decomposed solver for nonlinear elasticity. (English summary) **93g:73109**
Dobrowolski, Manfred A mixed finite element method for approximating incompressible materials. **93b:65167**
Elżanowski, Marek (*with* Epstein, Marcelo) The interplay of uniformity with constrained elasticity. **93a:73042**
Epstein, Marcelo *see* **Elżanowski, Marek, 93a:73042** *and* **Maugin, Gérard A.; et al., 93h:73032**
Eremeev, V. A. (*with* Zubov, L. M.) Conditions for phase equilibrium in non-linearly elastic media with microstructure. (Russian) **93c:73011**
Fan, Haitao A limiting "viscosity" approach to the Riemann problem for materials exhibiting a change of phase. II. **93a:35102**
Ferro, Giuseppe *see* **Romano, Giovanni; et al., 93h:73029**
Grinfel'd, M. A. ★ Методы механики сплошных сред в теории фазовых превращений. (Russian) [Methods of continuum mechanics in the theory of phase transitions] **93c:73012**
Haupt, Peter (*with* Pao, Yih Hsing; Hutter, Kolumban) Theory of incremental motion in a body with initial elastoplastic deformation. (English and German summaries) **93f:73046**
Havner, K. S. ★ Finite plastic deformation of crystalline solids. **93e:73017**
Hilgers, M. G. (*with* Pipkin, A. C.) The Graves condition for variational problems of arbitrary order. **93i:49025**
Hill, Rodney Similarity analysis of creep indentation tests. (English summary) **93e:73036**
Horgan, Cornelius O. (*with* Payne, L. E.) A Saint-Venant principle for a theory of nonlinear plane elasticity. (English summary) **93j:73017**
— *see also* **Polignone, Debra A., 93a:73049**
Hutter, Kolumban *see* **Haupt, Peter; et al., 93f:73046**
Itskovitš, M. *see* **Lokshin, A. A., 93c:73034**
Jensen, Soren S. Adaptive-dimensional reduction numerical solution of monotone quasilinear boundary value problems. (English summary) **93g:65146**
Jiang, Song Global solutions of the Neumann problem in one-dimensional nonlinear thermoelasticity. **93f:35227**
Johnson, M. A. (*with* Beatty, M. F.) The Mullins effect in uniaxial extension and its influence on the transverse vibration of a rubber string. (English summary)
Kamberov, Georgi I. Prescribing the strain of a diffeomorphism and solvability of the singular Cauchy problem. **93m:58032**
Kijowski, Jerzy (*with* Magli, Giulio) Relativistic elastomechanics as a Lagrangian field theory. **93i:58040**
Klarbring, Anders The rigid punch problem in nonlinear elasticity: formulation, variational principles and linearization. (Russian and Polish summaries) **93e:73039**
Le Tallec, Patrick *see* **De Roeck, Yann-Hervé; et al., 93g:73109**
Lewiński, Tomasz (*with* Telega, Józef Joachim) Homogenization and effective properties of plates weakened by partially penetrating fissures: asymptotic analysis. **93f:73059**
Li, Zhi Ping Globally 1-1 solutions and finite element method for elastic-contact problems in nonlinear elasticity. **93h:73034**
Lokshin, A. A. (*with* Itskovitš, M.) Exact solution to the reflection problem in a hereditary nonlinear composite bar. **93c:73034**
Magli, Giulio *see* **Kijowski, Jerzy, 93i:58040**
Malý, Jan L^p-approximation of Jacobians. **93b:49014**

Marlow, Randall Scot *see* **Antman, Stuart S., 93e:73018**
Martio, Olli (*with* Ziemer, William P.) Lusin's condition (N) and mappings with nonnegative Jacobians. **93h:26021**
Maugin, Gérard A. (*with* Epstein, Marcelo; Trimarco, Carmine) Theory of elastic inhomogeneities in electromagnetic materials. (English summary) **93h:73032**
Meynard, François Existence and nonexistence results on the radially symmetric cavitation problem. **93c:73049**
Miara, Bernadette Justification des mises à l'échelle et des hypothèses sur les données dans l'analyse asymptotique des modèles bidimensionnels de plaques minces élastiques. II. Le cas non linéaire. (English summary) [Justification of the scalings and of the assumptions on the data in the asymptotic analysis of bidimensional models for elastic thin plates. II. The nonlinear case] **93g:73077**
Mizel, Victor J. Relevance of Lavrentiev's phenomenon in 1-dimension to continuum mechanics. **93h:49005**
— Remarks on materials with memory. (Italian summary) **93a:73038**
Nicaise, Serge *see* **Ali Mehmeti, Felix, 93m:35093**
Oberguggenberger, M. Case study of a nonlinear, nonconservative, non-strictly hyperbolic system. **93g:35090**
Owen, Nicholas C. *see* **Bauman, Patricia; et al., 93k:35052**
Pao, Yih Hsing *see* **Haupt, Peter; et al., 93f:73046**
Payne, L. E. *see* **Horgan, Cornelius O., 93j:73017**
Pen'kov, V. B. (*with* Tolokonnikov, L. A.) Strict solutions of two-dimensional problems in the mechanics of a deformable solid. (Russian. English and Ukrainian summaries) **93i:73012**
Phillips, Daniel *see* **Bauman, Patricia; et al., 93k:35052**
Pipkin, A. C. *see* **Hilgers, M. G., 93i:49025**
Polignone, Debra A. (*with* Horgan, Cornelius O.) Axisymmetric finite anti-plane shear of compressible nonlinearly elastic circular tubes. **93a:73049**
Ponte Castañeda, P. A new variational principle and its application to nonlinear heterogeneous systems. (English summary) **93g:73012**
Romano, Giovanni (*with* Rosati, Luciano; Ferro, Giuseppe) Theorems of the alternative in unilateral structural mechanics. **93h:73029**
Rosati, Luciano *see* **Romano, Giovanni; et al., 93h:73029**
Roseman, Joseph J. *see* **Shenker, Yevgeni, 93m:73006**
Rushchitskii, Ya. Ya. Interaction of elastic waves in a two-phase material. (Russian. English and Ukrainian summaries) **93g:73049**
Scott, N. H. Plane waves in twinned crystals modelled as multi-constrained and nearly constrained elastic materials. (English summary) **93k:73029**
Shenker, Yevgeni (*with* Roseman, Joseph J.) On the Saint-Venant principle in the case of infinite energy. (English summary) **93m:73006**
Simo, Juan C. (*with* Tarnow, N.) The discrete energy-momentum method. Conserving algorithms for nonlinear elastodynamics. (English summary) **93g:73118**
Sleeman, B. D. *see* **Chaplain, M. A. J.**
Sofer, M. A note on the growth of trajectories in nonlinear elastodynamics. **93g:73050**
Şuhubi, Erdoğan S. Similarity solutions for one-dimensional nonlinear elastodynamics. (English summary) (*see* **93g:00030**)
Tahraoui, R. Régularité de la solution d'un problème variationnel. (English summary) [Regularity of the solution of a variational problem] **93e:49057**
Talbot, D. R. S. (*with* Willis, J. R.) Some simple explicit bounds for the overall behaviour of nonlinear composites. **93e:73028**
Tarabek, Michael A. On the existence of smooth solutions in one-dimensional nonlinear thermoelasticity with second sound. **93j:73013**
Tarnow, N. *see* **Simo, Juan C., 93g:73118**
Telega, Józef Joachim *see* **Lewiński, Tomasz, 93f:73059**
Tolokonnikov, L. A. *see* **Pen'kov, V. B., 93i:73012**
Trimarco, Carmine *see* **Maugin, Gérard A.; et al., 93h:73032**
Viaño Rey, Juan M. *see* **Álvarez Vázquez, L. J., (93j:00009)**
Vidrascu, Marina *see* **De Roeck, Yann-Hervé; et al., 93g:73109**
Weissman, S. L. A mixed formulation of nonlinear-elastic problems. (English summary) **93f:73105**
Willis, J. R. *see* **Talbot, D. R. S., 93e:73028**
Xiang, Yan *see* **Blanchard, Dominique, 93d:73019**
Zhang, Ru Qing Elastic dynamics variational principle for nonlinear elastic body. (Chinese. English summary) **93d:73072**
Ziemer, William P. *see* **Martio, Olli, 93h:26021**
Zubov, L. M. *see* **Eremeev, V. A., 93c:73011**

73C99 None of the above, but in this section

Andrieux, Stéphane (*with* Ben Abda, Amel) Identification de fissures planes par une donnée de bord unique: un procédé direct de localisation et d'identification. (English and French summaries) [Identification of planar cracks by unique boundary measurement: a direct location and identification process] **93k:73021**
Ben Abda, Amel *see* **Andrieux, Stéphane, 93k:73021**
Ciarlet, Philippe G. The method of asymptotic expansions for a non-linearly elastic clamped plate. **93a:73020**
Davini, Cesare (*with* Parry, Gareth P.) Uniform rearrangement in defective crystals. (English summary) **93m:73007**
Herrmann, G. *see* **Honein, E.; et al., 93f:73031**
Hlaváček, Ivan (*with* Křížek, Michal) Weight minimization of elastic bodies weakly supporting tension. I. Domains with one curved side. (Czech summary) **93c:73029**
Honein, E. (*with* Honein, T.; Herrmann, G.) On two circular inclusions in harmonic problems. (English summary) **93f:73031**
Honein, T. *see* **Honein, E.; et al., 93f:73031**
Křížek, Michal *see* **Hlaváček, Ivan, 93c:73029**
Liu, Xing Ye (*with* Zheng, Jian Jun) Dynamic fundamental solutions of symmetric problems in elasticity. (*see* **93b:65008**)
Movchan, A. B. (*with* Nazarov, S. A.) Asymptotic behaviour of stress-strain state in the vicinity of sharp defects in an elastic body. (English summary) **93k:73022**
Nazarov, S. A. *see* **Movchan, A. B., 93k:73022**
Parry, Gareth P. *see* **Davini, Cesare, 93m:73007**
Puladze, È. P. An inverse problem in elasticity theory for an infinite domain. (Russian. English and Georgian summaries)
Raoult, Annie Asymptotic modeling of the elastodynamics of a multi-structure. (English and French summaries) **93m:73008**
Senitskii, Yu. È. A multicomponent generalized finite integral transformation and its application to nonstationary problems in mechanics. (Russian) **93a:73021**
Villaggio, Piero The best position of a reinforcement in an elastic sheet. (Italian summary) **93b:73015**
Wen, Guo Chun (*with* Xu, Zuo Liang) Free boundary problems in elasticity. **93a:73022**
Xu, Zuo Liang *see* **Wen, Guo Chun, 93a:73022**
Zheng, Jian Jun *see* **Liu, Xing Ye, (93b:65008)**

Items with secondary classifications in 73C99

Assaf, M. A. (*with* Jentsch, Lothar) On the elasticity theory of microporous solids. (English, German and Russian summaries) **93k:73009**
Biroli, Marco (*with* Mosco, Umberto) Discontinuous media and Dirichlet forms of diffusion type. (English summary) (*see* **93j:35004**)
Cherkaev, A. V. (*with* Lur'e, K. A.; Milton, Graeme W.) Invariant properties of the stress in plane elasticity and equivalence classes of composites. (English summary) **93g:73009**
Chiorescu, Gh. Symmetries in the linear thermoelasticity of the directed rods. (Romanian summary)
Chiriță, S. Saint-Venant's problem and semi-inverse solutions in linear viscoelasticity. **93g:73063**
Ciarlet, Philippe G. Échange de limites en théorie asymptotique de coques. II. En premier lieu, l'épaisseur tend vers zéro. (English and French summaries) [Interchanging limits in asymptotic shell theory. II. First, the thickness approaches zero] **93k:73061**
— (*with* Miara, Bernadette) Justification of the two-dimensional equations of a linearly elastic shallow shell. **93e:73023**
Feofanova, V. A. The one-dimensional inverse dynamical Lamb problem for a three-layer medium. (Russian. Russian summary) (*see* **93e:00018**)
Francfort, G. A. Homogenisation of a class of fourth order equations with application to incompressible elasticity. **93d:73006**
Garaizar, Xabier Solution of a Riemann problem for elasticity. **93g:73048**
Girs, V. N. *see* **Vainshtein, A. A.; et al., 93i:73007**
Grabmüller, Hans (*with* Pirner, Robert) Existence theorems for some boundary value problems in the nonlinear theory of annular elastic membranes. (English summary) **93j:73046**
Guo, Zhong Heng (*with* Man, Chi-Sing) Conjugate stress and tensor equation $\sum_{r=1}^{m} \mathbf{U}^{m-r}\mathbf{X}\mathbf{U}^{r-1} = \mathbf{C}$. **93k:73012**
Gürlebeck, K. *see* **Sprössig, W., 93j:35122**
Haslinger, Jaroslav *see* **Panagiotopoulos, P. D., 93m:49007**
Jarušek, Jiří On the regularity of solutions of a thermoelastic system under noncontinuous heating regimes. III. (English summary) **93j:35040**
Jentsch, Lothar *see* **Assaf, M. A., 93k:73009**
Khatiashvili, G. M. On the bending by a transverse force of composite cylindrical bodies with rectilinear anisotropy of general form. (Russian) **93j:73062**
Kohn, Robert V. The relaxation of a double-well energy. **93d:73014**
Kurbanov, I. O. Smoothness of generalized solutions of nonlinear boundary value problems in electromagnetoelasticity with memory. (Russian. Russian summary) **93g:73102**
Kuznetsov, Sergei Vladimirovich Construction of the Green and Neumann tensor in the theory of elasticity of an anisotropic body. (Russian. English summary) **93c:73014**
Ladopoulos, E. G. Relativistic elastic stress analysis for moving frames. **93f:73019**
Lanzara, Flavia Theory and applications of intermediate operators. II. Elastostatics with discontinuous coefficients, the problem of displacements. (Italian. English and Italian summaries) **93i:47112**
Lindsay, K. A. The second-order deformation of an incompressible isotropic slab under torsion. (English summary) **93k:73042**
Lions, Jacques-Louis On some hyperbolic equations with a pressure term. (*see* **93e:35004**)
Liu, I-Shih On interface equilibrium and inclusion problems. (English summary) **93f:73015**
Lokin, V. V. *see* **Vainshtein, A. A.; et al., 93i:73007**
Lur'e, K. A. *see* **Cherkaev, A. V.; et al., 93g:73009**
Mamedov, Yu. M. On potential theory for two-dimensional quasistatic problems of uncoupled thermoelasticity. (Russian) **93b:73010**
Man, Chi-Sing *see* **Guo, Zhong Heng, 93k:73012**
Marlow, Randall Scot On the stress in an internally constrained elastic material. **93c:73027**
Martin, Paul Andrew Tip behaviour for cracks in bonded inhomogeneous materials. (English summary) **93j:73065**
Mel'nik, V. N. On the existence and uniqueness of generalized solutions in coupled nonstationary problems of two-dimensional electroelasticity. (Russian. Russian summary) **93f:73090**
Miara, Bernadette *see* **Ciarlet, Philippe G., 93e:73023**
Milton, Graeme W. Composite materials with Poisson's ratios close to -1. **93c:73074**
— *see also* **Cherkaev, A. V.; et al., 93g:73009**
Morar', G. A. On the construction of discontinuous solutions in polar coordinates. (Russian. English and Moldavian summaries) **93b:73032**
Mosco, Umberto *see* **Biroli, Marco, (93j:35004)**
Muñoz Rivera, Jaime Edilberto Energy decay rates in linear thermoelasticity. **93f:35228**
Novikov, N. A. *see* **Sporykhin, A. N., 93g:73115**
Nowinski, J. L. On the three-dimensional Cerruti problem for an elastic nonlocal half-space. (English, German and Russian summaries) **93c:73003**
Ortner, Norbert (*with* Wagner, Peter[2]) On the fundamental solution of the operator of dynamic linear thermoelasticity. (English summary) **93j:73010**
Panagiotopoulos, P. D. (*with* Panagouli, O. K.) Fractal interfaces in structures: methods of calculation. (English summary) **93i:73051**
— (*with* Haslinger, Jaroslav) On the dual reciprocal variational approach to the Signorini-Fichera problem. Convex and nonconvex generalization. (English, German and Russian summaries) **93m:49007**
Panagouli, O. K. *see* **Panagiotopoulos, P. D., 93i:73051**
Pirner, Robert *see* **Grabmüller, Hans, 93j:73046**

Podio-Guidugli, Paolo (*with* Vergara-Caffarelli, Giorgio) Equilibrium phases and layered phase mixtures in elasticity. **93f:73017**
Pucci, Edvige (*with* Saccomandi, Giuseppe) Conservation laws in the elastic theory of materials with voids. (Italian summary) **93m:73001**
Rushchitskii, Ya. Ya. ★ Элементы теории смеси. (Russian) [Elements of mixture theory] **93e:73035**
Saccomandi, Giuseppe *see* **Pucci, Edvige, 93m:73001**
Sanday, S. C. *see* **Yu, H. Y., 93j:73004**
Sporykhin, A. N. (*with* Novikov, N. A.) ★ Комбинированный подход Эйлера-Лагранжа в механике сплошной среды. (Russian) [The combined Euler-Lagrange approach in continuum mechanics] **93g:73115**
Sprössig, W. (*with* Gürlebeck, K.) On eigenvalue estimates of nonlinear Stokes eigenvalue problems. **93j:35122**
Vainshtein, A. A. (*with* Girs, V. N.; Lokin, V. V.) Tensors of the sixth rank as characteristics of random tensor fields. (Russian) **93i:73007**
Vergara-Caffarelli, Giorgio *see* **Podio-Guidugli, Paolo, 93f:73017**
Wagner, Peter² *see* **Ortner, Norbert, 93j:73010**
Wu, Chien H. Cohesive elasticity and surface phenomena. **93a:73075**
Yu, H. Y. (*with* Sanday, S. C.) Elastic inhomogeneous inclusion and inhomogeneity in bimaterials. (English summary) **93j:73004**
Zumbrun, Kevin *N*-waves in elasticity. (English summary) **93k:35173**

73Dxx Wave propagation in and vibrations of solids

Items with secondary classifications in 73Dxx

(Chadwick, Peter) *see* **Elastic waves and related topics, 93f:73003**
(Maugin, Gérard A.) *see* **Nonlinear waves in solids, 93d:73003**
(Willis, J. R.) *see* **Elastic waves and related topics, 93f:73003**

Items listed otherwise than by author

Conference:
Chadwick, Peter ★ Elastic waves and related topics. **93f:73003**
Dublin ★ Elastic waves and related topics. **93f:73003**
Elastic waves and related topics ★ Elastic waves and related topics. **93f:73003**
Minisymposium:
Nonlinear Waves in Deformable Solids ★ Nonlinear waves in solids. **93d:73003**
Nonlinear waves in solids ★ Nonlinear waves in solids. **93d:73003**
Washington, DC ★ Nonlinear waves in solids. **93d:73003**

73D05 Impact and explosion problems [see also 76L05]

Belov, N. N. (*with* Demidov, V. N.; Efremova, L. V.; et al.) Computer modeling of the dynamics of high-velocity impact and of the accompanying physical phenomena. (Russian. Russian summary) **93k:73023**
Cheban, V. G. A problem on the longitudinal impact of a rigid body on a bar. (Russian. English and Moldavian summaries)
Chugainova, A. P. Steady quasitransversal ordinary and shock waves in a weakly anisotropic nonlinearly elastic medium. (Russian) **93b:73016**
Demidov, V. N. *see* **Belov, N. N.; et al., 93k:73023**
Efremova, L. V. *see* **Belov, N. N.; et al., 93k:73023**
Fazio, Riccardo A moving boundary hyperbolic problem for a stress impact in a bar of rate-type material. (English summary) **93j:73021**
Fedorov, Alexandre V. The structure of a shock wave in a mixture of two solid bodies (hydrodynamic approximation). (Russian. Russian summary) **93k:73024**
— *see also* **Tetenov, E. V., 93m:73010**
Gaiduk, S. I. Application of the contour integral method to the solution of a problem on transverse vibrations of a viscoelastic membrane caused by an impact. (Russian) **93b:73017**
Lions, Pierre-Louis Remarks on incompressible models of fluid mechanics. (*see* **93j:35004**)
Nuriev, B. R. Rate-dependent behaviour of flexible cables under the high velocity impact by a cone. (English and Turkish summaries) **93m:73009**
Rybakin, B. P. Numerical modeling of the process of high-velocity penetration of an obstacle. (Russian. English, Russian and Moldavian summaries)
Stoimenov, L. G. On the solution of a problem on the oblique impact of bodies. Models of the impact of rough bodies. (Russian. English, Russian and Ukrainian summaries) **93k:73025**
Tetenov, E. V. (*with* Fedorov, Alexandre V.) Propagation of shock waves in a medium with a nonmonotone rheological equation. (Russian. Russian summary) **93m:73010**

Items with secondary classifications in 73D05

Balashov, D. B. Simple waves in the Prandtl-Reuss equations. (Russian) **93d:73038**
Ergashov, M. Investigation of processes of elastic wave propagation in winding connections taking into account the effects of their rotation and stretching. (Russian) **93d:73035**
Fedorov, Alexandre V. *see* **Varlamov, E. V., 93d:73032**
Glushak, B. L. (*with* Kuropatenko, V. F.; Novikov, S. A.) ★ Исследование прочности материалов при динамических нагрузках. (Russian. Russian summary) [Research on the strength of materials under dynamic loads] **93g:73054**
Hogan, S. J. The effect of damping on rigid block motion under harmonic forcing. (English summary) **93e:70002**
Kuropatenko, V. F. *see* **Glushak, B. L.; et al., 93g:73054**
Leray, J. (*with* Pecker, A.) Calcul explicite du déplacement ou de la tension du demi-plan élastique, isotrope et homogène, soumis à un choc en son bord. [Explicit calculation of the displacement and stress of the isotropic homogeneous elastic half-plane subject to a shock at its boundary] **93f:35014**
Naugol'nykh, K. A. (*with* Ostrovskii, L. A.) ★ Нелинейные волновые процессы в акустике. (Russian) [Nonlinear wave processes in acoustics] **93a:73030**
Novikov, S. A. *see* **Glushak, B. L.; et al., 93g:73054**
Ostrovskii, L. A. *see* **Naugol'nykh, K. A., 93a:73030**
Pecker, A. *see* **Leray, J., 93f:35014**
Trangenstein, John A. A comparison of two numerical methods for shocks in one-dimensional elastic-plastic solids. **93f:73049**
Varlamov, E. V. (*with* Fedorov, Alexandre V.) A traveling wave in a nonisothermic mixture of two solids. (Russian) **93d:73032**

73D10 Integral transforms

Achenbach, J. D. *see* **Wang, Canyun, 93j:73022**
Budreck, David E. (*with* Rose, James H.) Elastodynamic completeness relations for scattered wavefields. **93a:73023**
Rose, James H. *see* **Budreck, David E., 93a:73023**
Wang, Canyun (*with* Achenbach, J. D.) A new look at 2-D time-domain elastodynamic Green's functions for general anisotropic solids. (English summary) **93j:73022**

Items with secondary classifications in 73D10

Ivansson, Sven (*with* Karasalo, Ilkka) A high-order adaptive integration method for wave propagation in range-independent fluid-solid media. (English summary) **93g:73113**
Karasalo, Ilkka *see* **Ivansson, Sven, 93g:73113**

73D15 Body waves

Abrahams, I. D. (*with* Wickham, G. R.) The propagation of elastic waves in a certain class of inhomogeneous anisotropic materials. I. The refraction of a horizontally polarized shear wave source. (English summary) **93j:73023**
Alessandrini, B. (*with* Raganelli, V.) The propagation of acoustic and elastic waves in an heterogeneous discrete medium. (English summary) **93e:73014**
Babeshko, V. A. (*with* Glushkov, E. V.; Glushkova, N. V.) Energy vortices and backward fluxes in elastic waveguides. (English summary) **93f:73032**
Berryman, James G. Waves in partially saturated porous media. (English summary) **93f:73033**
Caviglia, G. (*with* Morro, Angelo) Rays and transport equation for pre-stressed solids. (Italian summary) **93b:73018**
Chaskelis, H. H. *see* **Delsanto, P. P.; et al.**
Delsanto, P. P. (*with* Whitcombe, T.; Chaskelis, H. H.; Mignogna, R. B.) Connection Machine simulation of ultrasonic wave propagation in materials. I. The one-dimensional case.
Engelbrecht, Jüri K. Etalon evolution equations. (English, Russian and Estonian summaries)
Glushkov, E. V. *see* **Babeshko, V. A.; et al., 93f:73032**
Glushkova, N. V. *see* **Babeshko, V. A.; et al., 93f:73032**
Ignaczak, Józef (*with* Rao, C. R. A.) A tensorial classification of elastic waves. (English summary) **93i:73019**
Ke, Huei Yaw *see* **Lee, Sen Yung, 93c:73030**
Lee, Sen Yung (*with* Ke, Huei Yaw) Flexural wave propagation in an elastic beam with periodic structure. (English summary) **93c:73030**
Mignogna, R. B. *see* **Delsanto, P. P.; et al.**
Molotkov, L. A. A new method of deriving the equations of an averaged effective model of periodic media. (Russian. English summary) **93c:73031**
— A two-phase effective model of a medium that contains cracks of finite length. (Russian. English and Russian summaries) **93g:73038**
Morro, Angelo *see* **Caviglia, G., 93b:73018**
Payton, Robert G. Wave propagation in a restricted transversely isotropic elastic solid whose slowness surface contains conical points. (English summary) **93j:73024**
Raganelli, V. *see* **Alessandrini, B., 93e:73014**
Rajagopal, K. R. (*with* Tao, L.) Wave propagation in elastic solids infused with fluids. **93g:73039**
Randles, P. W. Synthesis of equivalent dynamic laminate behavior by homogenization techniques. (English summary) **93f:73034**
Rao, C. R. A. *see* **Ignaczak, Józef, 93i:73019**
Rogerson, G. A. (*with* Scott, N. H.) Aspects of energy propagation in highly anisotropic elastic solids. **93f:73035**
— (*with* Scott, N. H.) Wave propagation in singly-constrained and nearly-constrained elastic materials. **93a:73024**
Scott, N. H. *see* **Rogerson, G. A., 93a:73024** *and* **93f:73035**
Tao, L. *see* **Rajagopal, K. R., 93g:73039**
Walpole, L. J. Long elastic waves in a periodic composite. (English summary) **93h:73014**
Whitcombe, T. *see* **Delsanto, P. P.; et al.**
Wickham, G. R. *see* **Abrahams, I. D., 93j:73023**

Items with secondary classifications in 73D15

Blagoveshchenskii, A. S. An inverse axisymmetric Lamb problem. (Russian. English and Russian summaries) **93k:35174**
Boulanger, Ph. Propagation of small-amplitude waves in a deformed hemitropic dielectric. **93a:73069**
Bratus', A. S. (*with* Myshkis, A. D.) On the ratio between the first and the second eigenfrequency of the oscillations of a membrane. (Russian) **93b:35030**
Chen, Zhang Xing A quasi-projection analysis for elastic wave propagation in fluid-saturated porous media. (English summary) **93g:65121**
Chudinovich, I. Yu. Boundary equations in problems of the dynamics of piecewise-homogeneous elastic media. (Russian) **93g:73029**
Elnaggar, A. M. On the dynamical problem of a generalized thermoelastic granular infinite cylinder under initial stress. **93d:73009**
Escauriaza, Luis (*with* Seo, Jin Keun) Regularity properties of solutions to transmission problems. **93j:35039**
Fam Shu Vin' *see* **Martynenko, Mikhailo D., 93f:73016**
Goloshubin, G. M. *see* **Krauklis, P. V.; et al., 93g:73099**
Gur'yanov, V. V. Monotype plane nonlinear seismic waves. (Russian) **93f:73042**
Guz', A. N. (*with* Kabelka, I.; Markush, Sh.; et al.) ★ Динамика и устойчивость слоистых композитных материалов. (Russian. Russian summary) [Dynamics and stability of layered composite materials] **93g:73084**

Higdon, Robert L. Absorbing boundary conditions for acoustic and elastic waves in stratified media. **93c:73035**
Hulbert, Gregory M. Discontinuity-capturing operators for elastodynamics. **93b:73036**
Joó, István A remark on the vibration of a circular membrane in different points. **93c:35089**
Kabelka, I. *see* **Guz', A. N.; et al., 93g:73084**
Khutoryanskiĭ, N. M. The nonstationary dynamic Green tensor for a three-dimensional transversally isotropic elastic medium. (Russian) **93b:73012**
Krauklis, L. A. *see* **Krauklis, P. V.; et al., 93g:73099**
Krauklis, P. V. (*with* Goloshubin, G. M.; Krauklis, L. A.) A low-velocity wave in a layer of a fluid that models an oilfield stratum. (Russian. English and Russian summaries) **93g:73099**
Markush, Sh. *see* **Guz', A. N.; et al., 93g:73084**
Martynenko, Mikhailo D. (*with* Fam Shu Vin') Existence of solitary waves in a prestressed nonlinear thermoelastic medium with dry friction. (English summary) **93f:73016**
Maugin, Gérard A. Applications of an energy-momentum tensor in nonlinear elastodynamics: pseudomomentum and Eshelby stress in solitonic elastic systems. (English summary) **93k:73031**
Myshkis, A. D. *see* **Bratus', A. S., 93b:35030**
Scott, N. H. Plane waves in twinned crystals modelled as multi-constrained and nearly constrained elastic materials. (English summary) **93k:73029**
Seo, Jin Keun *see* **Escauriaza, Luis, 93j:35039**

73D20 Surface waves

Asghar, Saleem *see* **Zaman, F. D.; et al., 93a:73025**
Bamberger, A. (*with* Joly, Patrick; Kern, Michel) Propagation of elastic surface waves along a cylindrical cavity of arbitrary cross section. (French summary) **93f:73036**
Barnett, D. M. (*with* Chadwick, Paul; Lothe, J.) Addendum: "The behaviour of elastic surface waves polarized in a plane of material symmetry. I. General analysis" [Proc. Roy. Soc. London Ser. A **430** (1990), no. 1878, 213–240; MR 92c:73037] by Chadwick. **93f:73037**
Chadwick, Paul (*with* Wilson, N. J.) The behaviour of elastic surface waves polarized in a plane of material symmetry. III. Orthorhombic and cubic media. **93f:73038**
— *see also* **Barnett, D. M.; et al., 93f:73037**
Craine, R. E. *see* **Harvey, A. P.; et al., 93h:73015**
Hadouaj, H. (*with* Maugin, Gérard A.) Surface solitons on elastic surfaces: numerics. (English summary) **93g:73040**
Hanif, Khalid *see* **Zaman, F. D.; et al., 93a:73025**
Harvey, A. P. (*with* Craine, R. E.; Syngellakis, S.) Propagation of nonlinear surface acoustic waves on elastic and piezoelectric solids. (English summary) **93h:73015**
— (*with* Tupholme, G. E.) Propagation of anisotropic elastic and piezoelectric nonlinear surface acoustic waves. (English summary) **93g:73041**
Joly, Patrick *see* **Bamberger, A.; et al., 93f:73036**
Kern, Michel *see* **Bamberger, A.; et al., 93f:73036**
Lothe, J. *see* **Barnett, D. M.; et al., 93f:73037**
Maradudin, A. A. *see* **Parker, David F.; et al., 93g:73042**
Maugin, Gérard A. *see* **Hadouaj, H., 93g:73040**
Mayer, A. P. *see* **Parker, David F.; et al., 93g:73042**
Norris, Andrew One-component surface waves in materials with symmetry. (English summary) **93h:73016**
Nowinski, J. L. On the surface waves in an elastic micropolar and microstretch medium with nonlocal cohesion. (English summary) **93k:73026**
Parker, David F. (*with* Mayer, A. P.; Maradudin, A. A.) The projection method for nonlinear surface acoustic waves. (English summary) **93g:73042**
Syngellakis, S. *see* **Harvey, A. P.; et al., 93h:73015**
Ting, T. C. T. The motion of one-component surface waves. (English summary) **93j:73025**
Tupholme, G. E. *see* **Harvey, A. P., 93g:73041**
Vodyanitskiĭ, A. A. Becoming of nonlinear thermomagnetoelastic structures in dissipative media. (English summary) (*see* **93g:76004**)
Wilson, N. J. *see* **Chadwick, Paul, 93f:73038**
Yanson, Z. A. On nonstationary Love waves near the surface of an anisotropic elastic body. (Russian. English and Russian summaries) **93h:73017**
Zaman, F. D. (*with* Asghar, Saleem; Hanif, Khalid) Dispersion of Love waves in an inhomogeneous layer due to a source. **93a:73025**

Items with secondary classifications in 73D20

Abrahams, I. D. (*with* Wickham, G. R.) Scattering of elastic waves by a small inclined surface-breaking crack. (English summary) **93j:73027**
Coimbra Charão, R. (*with* Perla Menzala, G.) On Huygens' principle and perturbed elastic waves. **93d:35095**
Das, Kanak Kanti Study of propagation of waves in a magnetoelastic initially stressed conducting layer. (English summary)
Higdon, Robert L. Absorbing boundary conditions for acoustic and elastic waves in stratified media. **93c:73035**
It-s, E. N. *see* **Lee, J. S., 93f:73089**
Lee, J. S. (*with* It-s, E. N.) Green's function and energy integrals for magnetoelastic surface waves in perfectly conducting media. (English summary) **93f:73089**
Maugin, Gérard A. Applications of an energy-momentum tensor in nonlinear elastodynamics: pseudomomentum and Eshelby stress in solitonic elastic systems. (English summary) **93k:73031**
Parker, David F. Elastic wedge waves. (English summary) **93k:73028**
Perla Menzala, G. *see* **Coimbra Charão, R., 93d:35095**
Smirnova, N. S. Calculation of wave fields in multilayered media. (Russian. English and Russian summaries)
Wickham, G. R. *see* **Abrahams, I. D., 93j:73027**

73D25 Wave diffraction and dispersion

Abrahams, I. D. (*with* Wickham, G. R.) Scattering of elastic waves by an arbitrary small imperfection in the surface of a half-space. (English summary) **93j:73026**
— (*with* Wickham, G. R.) Scattering of elastic waves by a small inclined surface-breaking crack. (English summary) **93j:73027**
Andronov, I. V. Application of point models of cracks in boundary value contact problems of acoustics. (Russian) **93g:73043**
Budreck, David E. (*with* Rose, James H.) A Newton-Marchenko equation and generalized optical theorem for elastodynamics. **93h:73018**
Chudinovich, I. Yu. Boundary equations in problems of nonstationary diffraction of elastic waves by spatial cracks. (Russian) **93g:73044**
Dassios, George (*with* Rigou, Zafiria) On the density of traction traces in scattering of elastic waves. (English summary) **93k:73027**
Demkowicz, Leszek (*with* Karafiat, A.; Oden, J. Tinsley) Solution of elastic scattering problems in linear acoustics using *h-p* boundary element method. (English summary) **93j:73028**
Faĭzullin, I. S. *see* **Shapiro, S. A., 93c:73032**
Ghosh, M. L. *see* **Mandal, S. C., 93j:73029**
Goncharenko, V. M. (*with* Orazgulyev, A.) Some problems of the diffraction of elastic waves by inclusions. (Russian. Russian summary) **93f:73039**
Karafiat, A. *see* **Demkowicz, Leszek; et al., 93j:73028**
Mandal, S. C. (*with* Ghosh, M. L.) Diffraction of antiplane shear wave by a pair of parallel rigid strips at the interface of two bonded dissimilar elastic media. (English summary) **93j:73029**
Norris, Andrew (*with* Santosa, Fadil) Shear wave propagation in a periodically layered medium—an asymptotic theory. **93d:73030**
Oden, J. Tinsley *see* **Demkowicz, Leszek; et al., 93j:73028**
Orazgulyev, A. *see* **Goncharenko, V. M., 93f:73039**
Rigou, Zafiria *see* **Dassios, George, 93k:73027**
Rorres, Chris *see* **Wimp, Jet; et al., 93f:73040**
Rose, James H. *see* **Budreck, David E., 93h:73018**
Santosa, Fadil *see* **Norris, Andrew, 93d:73030**
Shapiro, S. A. (*with* Faĭzullin, I. S.) Scattering of elastic waves by a fractal inhomogeneity in a medium. (Russian) **93c:73032**
Smirnova, N. S. Determination of groups of dynamically equivalent waves propagating in layered elastic media. (Russian. English summary) **93c:73033**
Tenenbaum, Roberto A. (*with* Zindeluk, Moysés) An exact solution for the one-dimensional elastic wave equation in layered media. (English summary) **93i:73020**
Wayland, Richard F., Jr. *see* **Wimp, Jet; et al., 93f:73040**
Wickham, G. R. *see* **Abrahams, I. D., 93j:73026** *and* **93j:73027**
Wimp, Jet (*with* Rorres, Chris; Wayland, Richard F., Jr.) Acoustic impulse responses for nonuniform media. (English summary) **93f:73040**
Zindeluk, Moysés *see* **Tenenbaum, Roberto A., 93i:73020**

Items with secondary classifications in 73D25

Abrahams, I. D. (*with* Wickham, G. R.) The propagation of elastic waves in a certain class of inhomogeneous anisotropic materials. I. The refraction of a horizontally polarized shear wave source. (English summary) **93j:73023**
Babeshko, V. A. (*with* Glushkov, E. V.; Glushkova, N. V.) Energy vortices and backward fluxes in elastic waveguides. (English summary) **93f:73032**
Babich, V. M. A case of the exact integrability of the SH-wave equation. (Russian. English and Russian summaries) **93k:35253**
Budreck, David E. (*with* Rose, James H.) Elastodynamic completeness relations for scattered wavefields. **93a:73023**
Charalambopoulos, Antonios (*with* Kiriaki, Kiriakie) Characterization of functions as radiation patterns in linear elasticity. (English summary) **93j:73030**
Corones, James P. (*with* Sun, Zhiming) Simultaneous reconstruction of material and transient source parameters using the invariant imbedding method. (English summary) **93k:35270**
Dassios, George *see* **Martin, Paul Andrew, 93k:73030**
Dupuy, F. (*with* Sabatier, Pierre C.) Discontinuous media and underdetermined scattering problems. (English summary) **93g:35138**
Gingold, Harry (*with* She, Jianming; Zorumski, William E.) Local principles of wave propagation in inhomogeneous media. (English summary) **93m:34077**
Gintides, Drossos (*with* Kiriaki, Kiriakie) On the continuity dependence of elastic scattering amplitudes upon the shape of the scatterer. **93e:35079**
Glushkov, E. V. *see* **Babeshko, V. A.; et al., 93f:73032**
Glushkova, N. V. *see* **Babeshko, V. A.; et al., 93f:73032**
Harari, Isaac (*with* Hughes, Thomas J. R.) Galerkin/least-squares finite element methods for the reduced wave equation with nonreflecting boundary conditions in unbounded domains. (English summary) **93c:76060**
Herman, Gérard C. Estimation of the inverse acoustic transmission operator of a heterogeneous region directly from its reflection operator. (English summary) **93g:73051**
Hillion, Pierre T. M. Generalized phases and nondispersive waves. (English summary) **93k:35157**
Hughes, Thomas J. R. *see* **Harari, Isaac, 93c:76060**
Kiriaki, Kiriakie *see* **Gintides, Drossos, 93e:35079** *and* **Charalambopoulos, Antonios, 93j:73030**
(Lakhtakia, Akhlesh) *see* **Field representations and introduction to scattering, 93j:78018**
Leung, A. Y. T. Nonlinear modal analysis of frames by the incremental harmonic-balance method. **93c:73066**
Li, W. L. (*with* Wu, T. W.; Seybert, A. F.) Boundary element analysis of acoustic radiation and scattering in half space using a generalized Green's function. (English summary) (*see* **93b:65002**)
Martin, Paul Andrew (*with* Dassios, George) Karp's theorem in elastodynamic inverse scattering. (English summary) **93k:73030**
Naugol'nykh, K. A. (*with* Ostrovskiĭ, L. A.) ★ Нелинейные волновые процессы в акустике. (Russian) [Nonlinear wave processes in acoustics] **93a:73030**
Ostrovskiĭ, L. A. *see* **Naugol'nykh, K. A., 93a:73030**
Roach, Gary F. (*with* Zhang, Bo[1]) The limiting-amplitude principle for the wave propagation problem with two unbounded media. **93g:35084**
— (*with* Zhang, Bo[1]) A transmission problem for the reduced wave equation in inhomogeneous media with an infinite interface. (English summary) **93j:35056**

Rose, James H. *see* **Budreck, David E., 93a:73023**
Sabatier, Pierre C. *see* **Dupuy, F., 93g:35138**
Seybert, A. F. *see* **Li, W. L.; et al., (93b:65002)**
She, Jianming *see* **Gingold, Harry; et al., 93m:34077**
Skelton, E. A. Errata: "Acoustic scattering by a rigid barrier between two fluid-loaded parallel elastic plates" [Proc. Roy. Soc. London Ser. A **435** (1991), no. 1893, 217–232; MR 92h:76073].
Sumbatyan, M. A. (*with* Troyan, È. A.) Reconstruction of the shape of a convex defect from a scattered wave field in the ray approximation. (Russian. Russian summary) **93g:73052**
Sun, Zhiming *see* **Corones, James P., 93k:35270**
Tew, R. H. Diffraction of sound by a surface inhomogeneity at a fluid-solid interface. **93d:76061**
Troyan, È. A. *see* **Sumbatyan, M. A., 93g:73052**
(Varadan, V. K.) *see* **Field representations and introduction to scattering, 93j:78018**
(Varadan, V. V.) *see* **Field representations and introduction to scattering, 93j:78018**
Wickham, G. R. *see* **Abrahams, I. D., 93j:73023**
Wu, T. W. *see* **Li, W. L.; et al., (93b:65002)**
Zhang, Bo[1] *see* **Roach, Gary F., 93g:35084** *and* **93j:35056**
Zorumski, William E. *see* **Gingold, Harry; et al., 93m:34077**

Items listed otherwise than by author

Field representations and introduction to scattering ★ Field representations and introduction to scattering. **93j:78018**

73D30 Linear vibrations [see also 70Jxx]

Belyankova, T. I. (*with* Kalinchuk, V. V.) Shear vibrations of a stamp on the surface of a prestressed half-space. (Russian. Russian summary)
Bui, H. D. On the variational boundary integral equations in elastodynamics with the use of conjugate functions. (English summary) **93g:73045**
Charalambopoulos, Antonios (*with* Kiriaki, Kiriakie) Characterization of functions as radiation patterns in linear elasticity. (English summary) **93j:73030**
Das, Pravangsu Sekhar (*with* Sengupta, P. R.; Debnath, Lokenath) Lamb's plane problem in a thermoviscoelastic micropolar medium with the effect of gravity. (English summary) **93i:73021**
Debnath, Lokenath *see* **Das, Pravangsu Sekhar; et al., 93i:73021**
Filimonov, A. M. (*with* Kurchanov, P. F.; Myshkis, A. D.) Some unexpected results in the classical problem of vibrations of the string with n beads when n is large. (French summary) **93a:73026**
Goncharenko, V. M. (*with* Lychman, V. V.) Numerical solution of a boundary value problem in the theory of elasticity for a body with an inclusion. (Russian)
Kalinchuk, V. V. *see* **Belyankova, T. I.**
Kiriaki, Kiriakie *see* **Charalambopoulos, Antonios, 93j:73030**
Kurchanov, P. F. *see* **Filimonov, A. M.; et al., 93a:73026**
Lobo-Hidalgo, Miguel (*with* Pérez, Eugenia) Vibration of systems with many concentrated masses. (Spanish) (*see* **93j:00009**)
Lychman, V. V. *see* **Goncharenko, V. M.**
Metrikin, A. V. *see* **Vesnitskii, A. I., 93g:73046**
Myshkis, A. D. *see* **Filimonov, A. M.; et al., 93a:73026**
Pérez, Eugenia *see* **Lobo-Hidalgo, Miguel, (93j:00009)**
Rajagopal, K. R. On a class of solutions in elastodynamics. **93d:73031**
Sengupta, P. R. *see* **Das, Pravangsu Sekhar; et al., 93i:73021**
Vesnitskii, A. I. (*with* Metrikin, A. V.) Transient radiation in one-dimensional elastic systems. (Russian) **93g:73046**

Items with secondary classifications in 73D30

Abeyaratne, Rohan (*with* Knowles, James K.) Wave propagation in linear, bilinear and trilinear elastic bars. **93g:73047**
Abrahams, I. D. (*with* Engineer, J. C.) A secularity condition for systems of linear partial differential equations. **93a:73058**
Achenbach, J. D. *see* **Wang, Canyun, 93j:73022**
Akulenko, L. D. (*with* Kostin, G. V.) The perturbation method in problems of the dynamics of nonuniform elastic rods. (Russian. Russian summary) **93j:73051**
Arosio, Alberto (*with* Panizzi, Stefano; Paoli, Maria Gabriella) Inhomogeneous Timoshenko beam equations. (English summary) **93j:73042**
Avdonin, S. A. (*with* Ivanov, S. A.; Ishmukhametov, A. Z.) A quadratic problem of the optimal control of the vibrations of a string. (Russian) **93d:49025**
Barkar', S. M. (*with* Pivovarchik, V. N.) On the spectrum in the right half-plane of a class of operator pencils. (Russian. English, Russian and Moldavian summaries) **93m:47017**
— (*with* Pivovarchik, V. N.) Small transverse vibrations of a viscoelastic rod with rigidly fastened ends. (Russian) **93b:35129**
Bourquin, Frédéric (*with* d'Hennezel, Frédéric) Numerical study of an intrinsic component mode synthesis method. (English summary) **93g:73082**
Cai, Cheng Wu *see* **Yang, Zong Lian**
Conca, C. (*with* Planchard, J.; Vanninathan, M.) Resonance frequencies of a cavity containing a compressible viscous fluid. (English summary) **93m:73030**
Das, Tapan Kumar (*with* Sengupta, P. R.) Effect of gravity on wave propagation in a general higher order visco-elastic layer including strain rate and stress rate.
Engineer, J. C. *see* **Abrahams, I. D., 93a:73058**
Gaiduk, S. I. Application of the contour integral method to the solution of a problem on transverse vibrations of a viscoelastic membrane caused by an impact. (Russian) **93b:73017**
Gingold, Harry (*with* She, Jianming; Zorumski, William E.) Local principles of wave propagation in inhomogeneous media. (English summary) **93m:34077**
Golovatyĭ, Yu. D. Some inequalities for natural frequencies of rods and plates. (Russian) (*see* **93m:35006**)
Gottlieb, H. P. W. Axisymmetric isospectral annular plates and membranes. (English summary) **93g:73083**
d'Hennezel, Frédéric *see* **Bourquin, Frédéric, 93g:73082**
Ishankulov, T. I. *see* **Yarmukhamedov, Sh. Ya.; et al., 93e:73010**
Ishmukhametov, A. Z. *see* **Avdonin, S. A.; et al., 93d:49025**
Ivanov, S. A. *see* **Avdonin, S. A.; et al., 93d:49025**
Joó, István On some Riesz bases. **93a:47025**
— A remark on the vibration of a circular membrane in different points. **93c:35089**
Kawashita, Mishio On the local-energy decay property for the elastic wave equation with the Neumann boundary condition. **93k:35161**
Knowles, James K. *see* **Abeyaratne, Rohan, 93g:73047**
Kodnár, Rudolf (*with* Tesár, Alexander) Some remarks to transfer matrix method. **93a:73059**
Kolomiets, V. G. (*with* Pritula, N. N.; Tsymbal, Victor N.) Asymptotic solution of a problem for a singularly perturbed equation that is of transverse-oscillations-of-a-rod type. (Russian. Russian summary) (*see* **93m:00016**)
Kornev, V. M. An analogue of the d'Alembert formula for equations of the vibrations of nonhomogeneous rods and strings. (Russian. Russian summary)
— (*with* Mul'kibaev, A. O.) Asymptotic analysis of problems on free oscillations of rectangular transversally isotropic and three-layered plates. (Russian) **93j:73047**
Kostin, G. V. *see* **Akulenko, L. D., 93j:73051**
Lavrenyuk, S. P. Weak convergence of generalized solutions of an equation of transverse oscillations of a rod type. (Ukrainian)
Lunardi, Alessandra Neumann boundary stabilization of structurally damped time periodic wave and plate equations. **93g:35087**
Lyashenko, A. A. Solvability of the Dirichlet problem for an equation of the vibration of a string in domains with corner points. (Russian) **93c:35092**
Makhmudov, O. I. *see* **Yarmukhamedov, Sh. Ya.; et al., 93e:73010**
Mul'kibaev, A. O. *see* **Kornev, V. M., 93j:73047**
Natroshvili, D. G. Exterior boundary value problems for differential equations of oscillations in the anisotropic theory of elasticity. (Russian) (*see* **93f:34004**)
Naval, I. K. (*with* Patsyuk, V. I.; Rimskii, V. K.) The stress state of a multiply connected plate under a longitudinal impulse load. (Russian. English and Moldavian summaries) **93c:73063**
Panizzi, Stefano *see* **Arosio, Alberto; et al., 93j:73042**
Paoli, Maria Gabriella *see* **Arosio, Alberto; et al., 93j:73042**
Patsyuk, V. I. *see* **Naval, I. K.; et al., 93c:73063**
Peradze, D. G. The dynamic problem for Reissner's one-dimensional system. **93a:73061**
Pivovarchik, V. N. Polynomial operator pencils connected with problems in mechanics. (Russian) **93m:47016**
— *see also* **Barkar', S. M., 93b:35129** *and* **93m:47017**
Planchard, J. *see* **Conca, C.; et al., 93m:73030**
Pritula, N. N. *see* **Kolomiets, V. G.; et al., (93m:00016)**
Pustovoĭt, S. P. An integral-iterative method for solving a boundary value problem for an oscillation equation on a segment of variable length. (Russian. Russian summary) (*see* **93k:00022**)
Pustyl'nikov, L. D. The spectrum of a discrete inhomogeneous wave equation, and oscillations of a discrete string. (Russian. Russian summary) **93f:34017**
Rimskii, V. K. *see* **Naval, I. K.; et al., 93c:73063**
Sarkisyan, S. V. On a problem of the vibration of a nonhomogeneous string. (Russian. English and Armenian summaries) **93b:73025**
Sengupta, P. R. *see* **Das, Tapan Kumar**
She, Jianming *see* **Gingold, Harry; et al., 93m:34077**
Takemiya, Hirokazu *see* **Wang, Canyun, 93a:73085**
Tesár, Alexander *see* **Kodnár, Rudolf, 93a:73059**
Tonon, Maria Luisa Decay of multiple waves in linearly elastic rods. (English summary) **93m:73011**
Tovstik, P. E. Free high-frequency oscillations of anisotropic plates of variable thickness. (Russian. Russian summary) **93f:73067**
Tsymbal, Victor N. *see* **Kolomiets, V. G.; et al., (93m:00016)**
Vakakis, Alexander F. Dynamics of a nonlinear periodic structure with cyclic symmetry. (English summary) **93f:73068**
Vanninathan, M. *see* **Conca, C.; et al., 93m:73030**
Wang, Canyun (*with* Takemiya, Hirokazu) Analytical elements of time domain BEM for two-dimensional scalar wave problems. **93a:73085**
— (*with* Achenbach, J. D.) A new look at 2-D time-domain elastodynamic Green's functions for general anisotropic solids. (English summary) **93j:73022**
Yang, J. S. A few properties of the resonant frequencies of a piezoelectric body. (English summary) **93m:73035**
Yang, Zong Lian (*with* Cai, Cheng Wu) Finding the dynamic response of infinite periodic chain structures by using Fourier series. (Chinese. English and Chinese summaries)
Yarmukhamedov, Sh. Ya. (*with* Ishankulov, T. I.; Makhmudov, O. I.) The Cauchy problem for a system of equations in the theory of elasticity in space. (Russian) **93e:73010**
Yoshida, Norio Resonance oscillations of beam equations. **93k:35259**
Zorumski, William E. *see* **Gingold, Harry; et al., 93m:34077**

73D35 Nonlinear vibrations [see also 70Kxx]

Abeyaratne, Rohan (*with* Knowles, James K.) Wave propagation in linear, bilinear and trilinear elastic bars. **93g:73047**
Asch, M. (*with* Kohler, Werner E.; Papanicolaou, G. C.; Postel, M.; White, Benjamin S.) Frequency content of randomly scattered signals. **93f:73041**
Garaizar, Xabier Solution of a Riemann problem for elasticity. **93g:73048**
Gur'yanov, V. V. Monotype plane nonlinear seismic waves. (Russian) **93f:73042**
Haberman, Richard Standard form and a method of averaging for strongly nonlinear oscillatory dispersive traveling waves. **93a:73027**
Itskovitš, M. *see* **Lokshin, A. A., 93c:73034**
Knowles, James K. *see* **Abeyaratne, Rohan, 93g:73047**
Kohler, Werner E. *see* **Asch, M.; et al., 93f:73041**
Lokshin, A. A. (*with* Itskovitš, M.) Exact solution to the reflection problem in a hereditary nonlinear composite bar. **93c:73034**
Papanicolaou, G. C. *see* **Asch, M.; et al., 93f:73041**
Parker, David F. Elastic wedge waves. (English summary) **93k:73028**

Postel, M. *see* **Asch, M.; et al., 93f:73041**
Rushchitskiĭ, Ya. Ya. Interaction of elastic waves in a two-phase material. (Russian. English and Ukrainian summaries) **93g:73049**
Samsonov, A. M. Deformation waves in non-linearly elastic inhomogeneous wave guides. **93a:73028**
Scott, N. H. Plane waves in twinned crystals modelled as multi-constrained and nearly constrained elastic materials. (English summary) **93k:73029**
Sofer, M. A note on the growth of trajectories in nonlinear elastodynamics. **93g:73050**
White, Benjamin S. *see* **Asch, M.; et al., 93f:73041**

Items with secondary classifications in 73D35

Bajaj, A. K. (*with* Johnson, J. M.) On the amplitude dynamics and crisis in resonant motion of stretched strings. **93a:73053**
Beatty, M. F. *see* **Johnson, M. A.**
Chugainova, A. P. Steady quasitransversal ordinary and shock waves in a weakly anisotropic nonlinearly elastic medium. (Russian) **93b:73016**
Coleman, Bernard D. (*with* Dill, Ellis Harold) Flexure waves in elastic rods. **93b:73028**
Craine, R. E. *see* **Harvey, A. P.; et al., 93h:73015**
Dill, Ellis Harold *see* **Coleman, Bernard D., 93b:73028**
Esquivel-Avila, Jorge A. Liapunov stability properties in second order evolution equations with finite memory. **93i:34115**
Feireisl, Eduard Forced vibrations in one-dimensional nonlinear viscoelasticity. **93a:45009a**
— Errata: "Forced vibrations in one-dimensional nonlinear viscoelasticity". **93a:45009b**
— Errata: "Forced vibrations in one-dimensional nonlinear viscoelasticity". **93a:45009c**
— (*with* Herrmann, Leopold) Oscillations of a non-linearly damped extensible beam. (English summary) **93k:35013**
— The monotonicity method and free vibrations of extensible beams. **93b:35092**
— Exponential attractors for nonautonomous systems: long-time behaviour of vibrating beams. **93h:35136**
— Spatially localized free vibrations for a nonlinear string model. **93h:35197**
Ferreira, Jorge (*with* Pereira, Ducival Carvalho) Existence of global weak solutions for equation of nonlinear vibrations. (English summary) **93f:35151**
Geng, Di (*with* Qu, Chang Zheng) On nonlinear hyperbolic equation in unbounded domain. (Chinese. English summary) **93c:35104**
Gur'yanov, V. V. Monotype plane nonlinear seismic waves. (Russian. Russian summary) **93g:86005**
Gutowski, Roman Investigation of the stability of tranversal vibrations of a nonlinear string by the method of differential inequalities. (English summary) (*see* **93g:00030**)
Harvey, A. P. (*with* Craine, R. E.; Syngellakis, S.) Propagation of nonlinear surface acoustic waves on elastic and piezoelectric solids. (English summary) **93h:73015**
Hayes, Michael A. (*with* Rajagopal, K. R.) Inhomogeneous finite amplitude motions in a neo-Hookean solid. (English summary) **93k:73040**
Herrmann, Leopold *see* **Feireisl, Eduard, 93k:35013**
Johnson, J. M. *see* **Bajaj, A. K., 93a:73053**
Johnson, M. A. (*with* Beatty, M. F.) The Mullins effect in uniaxial extension and its influence on the transverse vibration of a rubber string. (English summary)
Komech, A. I. Stabilization of the interaction of a string with a nonlinear oscillator. (Russian. Russian summary) **93k:35255**
Li, Da Qian (*with* Serre, Denis; Zhang, Hao) The generalized Riemann problem for the motion of elastic strings. (English summary) **93k:35168**
Muganlinskiĭ, F. D. On the existence and nonexistence of global a priori estimates for the solutions of a nonlinear initial-boundary value problem for a Kirchhoff equation system. (Russian. English and Azerbaijani summaries) **93i:35033**
Naugol'nykh, K. A. (*with* Ostrovskiĭ, L. A.) ★ Нелинейные волновые процессы в акустике. (Russian) [Nonlinear wave processes in acoustics] **93a:73030**
Ostrovskiĭ, L. A. *see* **Naugol'nykh, K. A., 93a:73030**
Pereira, Ducival Carvalho *see* **Ferreira, Jorge, 93f:35151**
Qu, Chang Zheng *see* **Geng, Di, 93c:35104**
Racke, Reinhard ★ Lectures on nonlinear evolution equations. **93a:35002**
Rajagopal, K. R. *see* **Hayes, Michael A., 93k:73040**
Serre, Denis *see* **Li, Da Qian; et al., 93k:35168**
Syngellakis, S. *see* **Harvey, A. P.; et al., 93h:73015**
You, Yun Cheng Inertial manifolds and stabilization in nonlinear elastic systems with structural damping. (English summary) **93k:35260**
Zhang, Hao *see* **Li, Da Qian; et al., 93k:35168**
Zhang, Weijian A Krylow-Bogoliubov-type approximation for continuous-oscillation systems with damping nonlinearities. (English summary) **93i:73033**

73D40 Singular surfaces

Fedorov, Alexandre V. *see* **Varlamov, E. V., 93d:73032**
Tonon, Maria Luisa Decay of multiple waves in linearly elastic rods. (English summary) **93m:73011**
Varlamov, E. V. (*with* Fedorov, Alexandre V.) A traveling wave in a nonisothermic mixture of two solids. (Russian) **93d:73032**

Items with secondary classifications in 73D40

Abeyaratne, Rohan (*with* Knowles, James K.) Wave propagation in linear, bilinear and trilinear elastic bars. **93g:73047**
Balashov, D. B. Simple waves in the Prandtl-Reuss equations. (Russian) **93d:73038**
Cohen, Harley On wave propagation and evolution in rods. **93e:73021**
Dunwoody, J. Linear thermoelastic singular surfaces: a revision. (English summary) **93j:73006**
Ergashov, M. Investigation of processes of elastic wave propagation in winding connections taking into account the effects of their rotation and stretching. (Russian) **93d:73035**
Fazio, Riccardo A moving boundary hyperbolic problem for a stress impact in a bar of rate-type material. (English summary) **93j:73021**
Fedorov, Alexandre V. (*with* Fedorova, N. N.) The structure, propagation and reflection of shock waves in a mixture of solid bodies (hydrodynamic approximation). (Russian) **93m:76056**
— *see also* **Tetenov, E. V., 93m:73010**
Fedorova, N. N. *see* **Fedorov, Alexandre V., 93m:76056**
Freistühler, Heinrich Dynamical stability and vanishing viscosity: a case study of a non-strictly hyperbolic system. **93b:35085**
Golubović, Z. *see* **Jarić, Jovo P., 93k:73013**
Ionescu, Ioan R. (*with* Paumier, Jean-Claude) Friction dynamique avec coefficient dépendant de la vitesse de glissement. (English and French summaries) [Dynamical stick-slip motion with sliding velocity-dependent friction] **93k:73073**
Jarić, Jovo P. (*with* Golubović, Z.) The balance laws of the interline and the bulk material. **93k:73013**
Knowles, James K. *see* **Abeyaratne, Rohan, 93g:73047**
Liu, Tai-Ping (*with* Xin, Zhou Ping) Stability of viscous shock waves associated with a system of non-strictly hyperbolic conservation laws. **93k:35170**
Nuriev, B. R. Rate-dependent behaviour of flexible cables under the high velocity impact by a cone. (English and Turkish summaries) **93m:73009**
Paumier, Jean-Claude *see* **Ionescu, Ioan R., 93k:73073**
Petryk, H. Material instability and strain-rate discontinuities in incrementally nonlinear continua. (English summary) **93f:73047**
Ruggeri, Tommaso Shocks and changes of shape of second sound wave. (English summary) **93m:73005**
Schaeffer, David G. (*with* Shearer, Michael) Scale-invariant initial value problems in one-dimensional dynamic elastoplasticity, with consequences for multidimensional nonassociative plasticity. (English summary) **93g:73057**
Shearer, Michael *see* **Schaeffer, David G., 93g:73057**
Silli, Carlo Some observations about the energy-conservation law in one-dimensional continua. (Italian. English and Italian summaries) **93j:73015**
Sosnina, E. V. On types of discontinuities of solutions of a class of partial differential equations. (Russian. Russian summary) (*see* **93m:00017**)
Tetenov, E. V. (*with* Fedorov, Alexandre V.) Propagation of shock waves in a medium with a nonmonotone rheological equation. (Russian. Russian summary) **93m:73010**
Trangenstein, John A. A comparison of two numerical methods for shocks in one-dimensional elastic-plastic solids. **93f:73049**
Xin, Zhou Ping *see* **Liu, Tai-Ping, 93k:35170**

73D50 Inverse problems [see also 35Lxx, 35R30]

Dassios, George *see* **Martin, Paul Andrew, 93k:73030**
Herman, Gérard C. Estimation of the inverse acoustic transmission operator of a heterogeneous region directly from its reflection operator. (English summary) **93g:73051**
Martin, Paul Andrew (*with* Dassios, George) Karp's theorem in elastodynamic inverse scattering. (English summary) **93k:73030**
Sumbatyan, M. A. (*with* Troyan, È. A.) Reconstruction of the shape of a convex defect from a scattered wave field in the ray approximation. (Russian. Russian summary) **93g:73052**
Troyan, È. A. *see* **Sumbatyan, M. A., 93g:73052**

Items with secondary classifications in 73D50

Alekseev, A. S. (*with* Avdeev, A. V.; Fat'yanov, A. G.; Cheverda, V. A.) A closed cycle of the mathematical modeling of wave processes in vertically inhomogeneous media (direct and inverse problems). (Russian. English summary) **93b:86003**
Avdeev, A. V. *see* **Alekseev, A. S.; et al., 93b:86003**
Baev, A. V. A method for solving an inverse dynamic problem of seismics with absorption. (Russian. Russian summary) **93k:86012**
— (*with* Tabakov, A. A.) Solution of inverse problems of seismic profiling and monitoring during borehole drilling. (Russian) **93m:86003**
Berryman, James G. Global extrema in traveltime tomography. (English summary) **93m:86004**
Budreck, David E. (*with* Rose, James H.) A Newton-Marchenko equation and generalized optical theorem for elastodynamics. **93h:73018**
Burdakova, O. A. (*with* Yakhno, V. G.) A one-dimensional inverse problem of electroelasticity. (Russian. Russian summary) (*see* **93e:00018**)
Cheverda, V. A. *see* **Alekseev, A. S.; et al., 93b:86003**
Dupuy, F. (*with* Sabatier, Pierre C.) Discontinuous media and underdetermined scattering problems. (English summary) **93g:35138**
Fat'yanov, A. G. *see* **Alekseev, A. S.; et al., 93b:86003**
Feofanova, V. A. The one-dimensional inverse dynamical Lamb problem for a three-layer medium. (Russian. Russian summary) (*see* **93e:00018**)
(Fitzgibbon, W. E.) *see* **Wave propagation and inversion, 93d:73004**
Gladwell, G. M. L. (*with* Zhu, Ben Ren) Inverse problems for multidimensional vibrating systems. (English summary) **93m:73023**
Janno, Jaan On a well-posed approximation of an inverse problem in isotropic medium with memory. (English summary) **93i:45011**
Mikhailenko, B. G. (*with* Sergeev-Al'bov, N. N.) Reconstruction of the form of a curvilinear boundary of an acoustic medium from seismic data. (Russian) **93e:86005**
Rorres, Chris *see* **Wimp, Jet; et al., 93f:73040**
Rose, James H. *see* **Budreck, David E., 93h:73018**
Sabatier, Pierre C. *see* **Dupuy, F., 93g:35138**
Sergeev-Al'bov, N. N. *see* **Mikhailenko, B. G., 93e:86005**
Tabakov, A. A. *see* **Baev, A. V., 93m:86003**
Wayland, Richard F., Jr. *see* **Wimp, Jet; et al., 93f:73040**
(Wheeler, Mary Fanett) *see* **Wave propagation and inversion, 93d:73004**
Wimp, Jet (*with* Rorres, Chris; Wayland, Richard F., Jr.) Acoustic impulse responses for nonuniform media. (English summary) **93f:73040**
Yakhno, V. G. *see* **Burdakova, O. A., (93e:00018)**
Zhu, Ben Ren *see* **Gladwell, G. M. L., 93m:73023**

Items listed otherwise than by author

Wave propagation and inversion ★ Wave propagation and inversion. **93d:73004**

73D99 None of the above, but in this section

Amendola, Giovambattista Cylindrical waves in incompressible thermoelastic solids. (Italian. English summary) **93d:73033**

Bakhvalov, N. S. (*with* Èglit, M. È.) On the rate of propagation of perturbations in micro-inhomogeneous elastic media with small shear elasticity. (Russian) **93g:73053**

Demiray, Hilmi Torsional waves in a stressed elastic tube filled with a viscous fluid. **93b:73019**

Denardo, Bruce (*with* Larraza, Andrés; Putterman, Seth; Roberts, Paul H.) Nonlinear theory of localized standing waves. **93d:73034**

Èglit, M. È. *see* **Bakhvalov, N. S., 93g:73053**

Epstein, Marcelo (*with* Śniatycki, Jędrzej) Fermat's principle in elastodynamics. **93a:73029**

Èrgashov, M. Investigation of processes of elastic wave propagation in winding connections taking into account the effects of their rotation and stretching. (Russian) **93d:73035**

Glushak, B. L. (*with* Kuropatenko, V. F.; Novikov, S. A.) ★ Исследование прочности материалов при динамических нагрузках. (Russian. Russian summary) [Research on the strength of materials under dynamic loads] **93g:73054**

Higdon, Robert L. Absorbing boundary conditions for acoustic and elastic waves in stratified media. **93c:73035**

Hunter, John K. Interaction of elastic waves. **93c:73036**

Joly, Patrick (*with* Weder, Ricardo) New results for guided waves in heterogeneous elastic media. (English summary) **93f:73043**

Kuropatenko, V. F. *see* **Glushak, B. L.; et al., 93g:73054**

Larraza, Andrés *see* **Denardo, Bruce; et al., 93d:73034**

Maugin, Gérard A. Applications of an energy-momentum tensor in nonlinear elastodynamics: pseudomomentum and Eshelby stress in solitonic elastic systems. (English summary) **93k:73031**

Naugol'nykh, K. A. (*with* Ostrovskiĭ, L. A.) ★ Нелинейные волновые процессы в акустике. (Russian) [Nonlinear wave processes in acoustics] **93a:73030**

Novikov, S. A. *see* **Glushak, B. L.; et al., 93g:73054**

Ostrovskiĭ, L. A. *see* **Naugol'nykh, K. A., 93a:73030**

Pai, D. M. Wave propagation by step marching. (English summary) (*see* **93d:73004**)

Putterman, Seth *see* **Denardo, Bruce; et al., 93d:73034**

Roberts, Paul H. *see* **Denardo, Bruce; et al., 93d:73034**

Śniatycki, Jędrzej *see* **Epstein, Marcelo, 93a:73029**

Şuhubi, Erdoğan S. Similarity solutions for one-dimensional nonlinear elastodynamics. (English summary) (*see* **93g:00030**)

Weder, Ricardo *see* **Joly, Patrick, 93f:73043**

Items with secondary classifications in 73D99

Aleksandrov, S. E. Discontinuous velocity fields under arbitrary deformation of an ideal rigid-plastic body. (Russian)

Boldin, V. P. (*with* Malanov, S. B.; Utkin, G. A.) Formulation of boundary value problems of the dynamics of two-dimensional systems with moving loads and fastenings. (Russian) **93f:73064**

Borrelli, Alessandra (*with* Patria, Maria Cristina) Induced discontinuities in thermoviscoelastic solids of integral type. (Italian summary) **93b:73022**

Bourne, J. P. (*with* Walton, J. R.) On a dynamically accelerating crack in an Achenbach-Chao viscoelastic solid. (English summary) **93k:73069**

Caviglia, G. (*with* Morro, Angelo) Energy flux in dissipative media. **93c:73015**

Chandrasekharaiah, D. S. (*with* Murthy, H. Narasimha) Plane waves in anisotropic generalized thermoelasticity. (English summary) **93j:73005**

Chudinovich, I. Yu. Boundary equations in problems of the dynamics of elastic media with boundary conditions of mixed type. (Russian. English and Russian summaries) **93i:73016**

Coleman, Bernard D. (*with* Dill, Ellis Harold; Lembo, Marzio; Lu, Zheng; Tobias, Irwin) On the dynamics of rods in the theory of Kirchhoff and Clebsch. **93k:73046**

Cramer, M. S. (*with* Sen, R.) A general scheme for the derivation of evolution equations describing mixed nonlinearity. **93f:35149**

Currò, Carmela (*with* Valenti, Giovanna) Group analysis and nonlinear wave propagation for the hypoelastic media. **93d:58192**

Dassios, George (*with* Zafiropoulos, Filareti) Errata: "Equipartition of energy in linearized 3-D viscoelasticity" [Quart. Appl. Math. **48** (1990), no. 4, 715–730; MR 92e:73021].

Deineka, V. S. *see* **Skopetskiĭ, V. V.; et al., 93d:73068**

Derks, G. (*with* van Groesen, E.) Energy propagation in dissipative systems. II. Centrovelocity for nonlinear wave equations. **93a:35133**

Dill, Ellis Harold *see* **Coleman, Bernard D.; et al., 93k:73046**

Edelen, Dominic G. B. A 1-dimensional elastic model with time translation gauge invariance. (English summary) **93g:73025**

Fil'shtinskiĭ, M. L. *see* **Parton, V. Z., 93f:73091**

Gallo, Angela (*with* Piccirillo, Anna Maria) Existence theorem for a second-order unilateral Cauchy problem. (Italian. English summary) **93f:35009**

van Groesen, E. *see* **Derks, G., 93a:35133**

Gu, An Hai The traction problem in elastodynamics. (Chinese. English and Chinese summaries) **93k:73016**

Herrmann, J. M. *see* **Walton, J. R., 93c:73086**

Hogan, S. J. The effect of damping on rigid block motion under harmonic forcing. (English summary) **93e:70002**

de Hoop, Adrianus T. *see* **de Hoop, Maarten V., 93a:86001**

de Hoop, Maarten V. (*with* de Hoop, Adrianus T.) Scalar space-time waves in their spectral-domain first- and second-order Thiele approximations. **93a:86001**

Ieşan, Dorin (*with* Quintanilla, Ramón) On the grade consistent theory of micropolar thermoelasticity. (English summary) **93j:73007**

Ionescu, Ioan R. (*with* Paumier, Jean-Claude) Friction dynamique avec coefficient dépendant de la vitesse de glissement. (English and French summaries) [Dynamical stick-slip motion with sliding velocity-dependent friction] **93k:73073**

Jacobson, Dmitry (*with* Maddocks, John H.) On the dynamics of chains. (English summary) **93k:73068**

Kamel, Aladin H. *see* **Sguazzero, P.; et al., (93d:65005)**

Kindelan, M. *see* **Sguazzero, P.; et al., (93d:65005)**

Kurbanov, I. O. Electromagnetoelastic waves in a half-space with general defining equations. (Russian. Russian summary)

Lembo, Marzio *see* **Coleman, Bernard D.; et al., 93k:73046**

Leray, J. Adaptation de la transformation de Laplace-d'Alembert à l'étude du demi-plan élastique. [Adaptation of the Laplace-d'Alembert transform to the study of the elastic half-plane] **93f:35013**

Lie, Ivar Heterogeneous domain decomposition for acoustic bottom interaction problems. (English summary) **93i:76083**

Lions, Jacques-Louis On some hyperbolic equations with a pressure term. (*see* **93e:35004**)

Loret, Benjamin Does deviation from deviatoric associativity lead to the onset of flutter instability? (English summary) **93i:73024**

Lu, Zheng *see* **Coleman, Bernard D.; et al., 93k:73046**

Maddocks, John H. *see* **Jacobson, Dmitry, 93k:73068**

Malanov, S. B. *see* **Boldin, V. P.; et al., 93f:73064**

Marchenko, O. A. *see* **Skopetskiĭ, V. V.; et al., 93d:73068**

Maremonti, Paolo (*with* Russo, Remigio) A domain of influence theorem in finite elasticity. (English summary) (*see* **93g:00030**)

McCarthy, Matthew F. Pulse propagation in particulate suspensions. (English summary) **93k:76118**

Moodie, T. Bryant *see* **Öncü, T. Sabri, 93h:73004**

Mora, Peter The lattice Boltzmann phononic lattice solid. (English summary) **93g:82094**

Morro, Angelo *see* **Caviglia, G., 93c:73015**

Murthy, H. Narasimha *see* **Chandrasekharaiah, D. S., 93j:73005**

Nikolaevskiĭ, V. N. ★ Mechanics of porous and fractured media. **93a:73013**

Oberguggenberger, M. Case study of a nonlinear, nonconservative, non-strictly hyperbolic system. **93g:35090**

Öncü, T. Sabri (*with* Moodie, T. Bryant) On the propagation of thermoelastic waves in temperature rate-dependent materials. (English summary) **93h:73004**

Ortner, Norbert (*with* Wagner, Peter[2]) On the fundamental solution of the operator of dynamic linear thermoelasticity. (English summary) **93j:73010**

Parton, V. Z. (*with* Fil'shtinskiĭ, M. L.) A stationary wave process in a piezo-electric layer and half-layer that are weakened by tunnel cuts (antiplanar deformation). (Russian. Russian summary) **93f:73091**

Patria, Maria Cristina *see* **Borrelli, Alessandra, 93b:73022**

Paumier, Jean-Claude *see* **Ionescu, Ioan R., 93k:73073**

Piccirillo, Anna Maria *see* **Gallo, Angela, 93f:35009**

Quintanilla, Ramón *see* **Ieşan, Dorin, 93j:73007**

Raoult, Annie Asymptotic modeling of the elastodynamics of a multi-structure. (English and French summaries) **93m:73008**

Russo, Remigio *see* **Maremonti, Paolo, (93g:00030)**

Saccomandi, Giuseppe Some remarks about the thermoelastic theory of materials with voids. (English and Italian summaries) **93j:73011**

Sánchez-Palencia, Enrique Asymptotic and spectral properties of a class of singular-stiff problems. (English summary) **93m:47075**

Sen, R. *see* **Cramer, M. S., 93f:35149**

Sguazzero, P. (*with* Kindelan, M.; Kamel, Aladin H.) Dispersion-bounded numerical integration of the elastodynamic equations with cost-effective staggered schemes. (English summary) (*see* **93d:65005**)

Shaginyan, S. G. A problem on the stability of systems with distributed parameters under small integral disturbances with respect to time. (Russian. English and Armenian summaries) **93a:35070**

Shkalikov, A. A. A problem on steady oscillations of a transversally isotropic semicylinder with a free boundary. (Russian) **93c:35097**

Skopetskiĭ, V. V. (*with* Deineka, V. S.; Marchenko, O. A.) Discretization of a dynamic problem in the theory of elasticity that admits a discontinuity in the solution. (Russian) **93d:73068**

Tobias, Irwin *see* **Coleman, Bernard D.; et al., 93k:73046**

Ugodchikov, A. G. On the correctness of the equations of the dynamics of a deformable solid body. (Russian) **93g:73027**

Utkin, G. A. *see* **Boldin, V. P.; et al., 93f:73064**

Valenti, Giovanna *see* **Currò, Carmela, 93d:58192**

Varlamov, V. V. Energy estimates for an integro-differential equation that describes acoustic waves in a medium with "memory". (Russian. Russian summary) **93h:45005**

Vichnevetsky, Robert On wave propagation in almost periodic structures. (English summary) **93i:65125**

Wagner, Peter[2] *see* **Ortner, Norbert, 93j:73010**

Walton, J. R. (*with* Herrmann, J. M.) A new method for solving dynamically accelerating crack problems. I. The case of a semi-infinite mode III crack in elastic material revisited. **93c:73086**

— *see also* **Bourne, J. P., 93k:73069**

Xing, Jing Tang (*with* Zheng, Zhao Chang) Some general theorems and generalized and piecewise generalized variational principles for linear elastodynamics. (Chinese. English and Chinese summaries) **93k:73018**

Zafiropoulos, Filareti *see* **Dassios, George**

Zeng, Yanni Convergence to diffusion waves of solutions to nonlinear viscoelastic model with fading memory. **93d:35172**

Zhang, Ru Qing Elastic dynamics variational principle for nonlinear elastic body. (Chinese. English summary) **93d:73072**

Zheng, Zhao Chang *see* **Xing, Jing Tang, 93k:73018**

Zumbrun, Kevin *N*-waves in elasticity. (English summary) **93k:35173**

73Exx Plasticity

Items with secondary classifications in 73Exx

Maugin, Gérard A. ★ The thermomechanics of plasticity and fracture. **93i:73001**

73E05 Constitutive specifications (yield criteria, flow rules, hardening, softening)

Aleksandrov, S. E. Discontinuous velocity fields under arbitrary deformation of an ideal rigid-plastic body. (Russian)

Annovazzi, Lorella *see* **Corradi, Leone; et al., (93a:73001)**

Backhaus, G. Zum Evolutionsgesetz der kinematischen Verfestigung in objektiver Darstellung. (English and German summaries) [On the law of evolution of kinematic hardening in objective presentation] **93i:73022**

Bigoni, Davide (*with* Zaccaria, Daniele) Strong ellipticity of comparison solids in elastoplasticity with volumetric nonassociativity. **93c:73037**

— (*with* Zaccaria, Daniele) Loss of strong ellipticity in nonassociative elastoplasticity. (English summary) **93j:73031**

Borino, G. *see* **Polizzotto, C.; et al., 93a:73031**

Caddemi, S. *see* **Polizzotto, C.; et al., 93a:73031**

Corradi, Leone (*with* Genna, Francesco; Annovazzi, Lorella) Holonomic versus rate relations in plasticity. (*see* **93a:73001**)

(Fazio, C. J.) *see* **Valanis, K. C., 93b:73020**

Feijóo, Raúl A. (*with* Zouain, Néstor) Elastic-plastic potential functionals for rates and increments of stress and strain. (English and Portuguese summaries) **93f:73044**

Fuschi, P. *see* **Polizzotto, C.; et al., 93a:73031**

Gambin, W. Plasticity of crystals with interacting slip systems. (English, Russian and Polish summaries)

Gavazzi, A. C. *see* **Lagoudas, D. C.; et al., 93g:73055**

Genna, Francesco *see* **Corradi, Leone; et al., (93a:73001)**

Giambanco, F. (*with* Palizzolo, L.; Panzeca, T.) A bounding technique for plastic deformations. (English summary) **93f:73045**

Guo, Xiao Ming (*with* She, Ying He) Variational inequality in elastoplastic problems. (English summary) **93k:73032**

Haupt, Peter (*with* Pao, Yih Hsing; Hutter, Kolumban) Theory of incremental motion in a body with initial elastoplastic deformation. (English and German summaries) **93f:73046**

Hill, James M. (*with* Wu, Yong-Hong) Some axially symmetric flows of Mohr-Coulomb compressible granular materials. **93i:73023**

Hutter, Kolumban *see* **Haupt, Peter; et al., 93f:73046**

Lagoudas, D. C. (*with* Gavazzi, A. C.; Nigam, H.) Elastoplastic behavior of metal matrix composites based on incremental plasticity and the Mori-Tanaka averaging scheme. (English summary) **93g:73055**

Nigam, H. *see* **Lagoudas, D. C.; et al., 93g:73055**

Palizzolo, L. *see* **Giambanco, F.; et al., 93f:73045**

Panzeca, T. *see* **Giambanco, F.; et al., 93f:73045**

Pao, Yih Hsing *see* **Haupt, Peter; et al., 93f:73046**

Petryk, H. On the second-order work in plasticity. (Russian and Polish summaries) **93c:73038**

— Material instability and strain-rate discontinuities in incrementally nonlinear continua. (English summary) **93f:73047**

Plohr, Bradley J. (*with* Sharp, David H.) A conservative formulation for plasticity. (English summary) **93k:73033**

Polizzotto, C. (*with* Borino, G.; Caddemi, S.; Fuschi, P.) Shakedown problems for material models with internal variables. **93a:73031**

Raad, L. *see* **Weichert, D.**

Reddy, B. D. Aspects of the modern theory of elastoplasticity. (English summary) (*see* **93k:00037**)

Serëgin, G. A. A local estimate for the maximum modulus of the deviator of a deformation tensor in an elastoplastic body with linear hardening. (Russian. English and Russian summaries) **93j:73032**

Sharp, David H. *see* **Plohr, Bradley J., 93k:73033**

She, Ying He *see* **Guo, Xiao Ming, 93k:73032**

Spencer, A. J. M. Plasticity theory for fibre-reinforced composites. **93d:73036**

Valanis, K. C. Discussion of: "A one-dimensional study of the limit cases of the endochronic theory" [Internat. J. Solids and Structures **25** (1989), no. 8, 863–877; MR 90k:73038] by C. J. Fazio. **93b:73020**

Weichert, D. (*with* Raad, L.) Extension of the static shakedown-theorem to a certain class of materials with variable elastic coefficients.

Wu, Yong-Hong *see* **Hill, James M., 93i:73023**

Zaccaria, Daniele *see* **Bigoni, Davide, 93c:73037** *and* **93j:73031**

Zouain, Néstor *see* **Feijóo, Raúl A., 93f:73044**

Items with secondary classifications in 73E05

An, Lian Jun (*with* Schaeffer, David G.) The flutter instability in granular flow. **93c:73053**

Balashov, D. B. Simple waves in the Prandtl-Reuss equations. (Russian) **93d:73038**

Başar, Y. (*with* Weichert, D.) A finite-rotation theory for elastic-plastic shells under consideration of shear deformations. (German and Russian summaries) **93a:73060**

Betten, J. Recent advances in applications of tensor functions in solid mechanics. (Russian summary) **93j:73003**

Bouchitté, Guy (*with* Suquet, Pierre) Homogenization, plasticity and yield design. **93f:73008**

Casey, James (*with* Naghdi, P. M.) A prescription for the identification of finite plastic strain. (English summary) **93i:73029**

Chernorutskii, V. V. (*with* Krasnosel'skii, M. A.) Hysteresis systems with variable characteristics. **93c:47091**

Cleja-Ţigoiu, Sanda (*with* Soós, E.) Elastic range and relaxed configurations in rate-independent elastoplasticity. I. Basical [Basic] assumptions. **93g:73056a**

— (*with* Soós, E.) Elastic range and relaxed configurations in rate-independent elastoplasticity. II. Connection between the two models. **93g:73056b**

Comi, C. (*with* Maier, Giulio; Perego, U.) Generalized variable finite element modeling and extremum theorems in stepwise holonomic elastoplasticity with internal variables. **93a:73080**

Dafalias, Y. F. *see* **Loret, Benjamin; et al., 93c:73094**

Del Piero, Gianpietro (*with* Sampaio, Rubens) A unified treatment of damage and plasticity based on a new definition of microfracture. **93d:73058**

Dvorak, George J. On some exact results in thermoplasticity of composite materials. (English summary) **93e:73004**

Fosdick, Roger (*with* Volkmann, Eric) Normality and convexity of the yield surface in nonlinear plasticity. (English summary) **93m:73013**

Fressengeas, Claude (*with* Molinari, Alain) The time development of Eulerian/Lagrangian perturbations to simple shear and its applications to shear banding. (English summary) **93i:73025**

Hammoum, F. *see* **Loret, Benjamin; et al., 93c:73094**

Havner, K. S. ★ Finite plastic deformation of crystalline solids. **93e:73017**

Karaliūnas, Romas J. Formal averaging of equations in plasticity theory in the case of two-stage deformation processes. (Russian. Lithuanian summary) **93j:73056**

Krasnosel'skii, M. A. *see* **Chernorutskii, V. V., 93c:47091**

Laborde, Patrick (*with* Michrafy, Abderrahim) Algorithme à "rigidité tangente" pour des problèmes d'endommagement. (English and French summaries) ["Tangent stiffness" algorithm for some damage problems] **93g:73114**

Li, Y.-F. *see* **Nemat-Nasser, Sia, 93f:73110** *and* **93k:73085**

Loret, Benjamin (*with* Hammoum, F.; Dafalias, Y. F.) A note on the accuracy of stress-point algorithms for anisotropic elastic-plastic solids. (English summary) **93c:73094**

— Does deviation from deviatoric associativity lead to the onset of flutter instability? (English summary) **93i:73024**

Lucchesi, M. (*with* Owen, David Ross; Podio-Guidugli, Paolo) Materials with elastic range: a theory with a view toward applications. III. Approximate constitutive relations. **93a:73046**

Maier, Giulio *see* **Comi, C.; et al., 93a:73080**

McDowell, D. L. (*with* Moosbrugger, J. C.) Continuum slip foundations of elastoviscoplasticity. **93c:73041**

Michrafy, Abderrahim *see* **Laborde, Patrick, 93g:73114**

Molinari, Alain *see* **Fressengeas, Claude, 93i:73025**

Moosbrugger, J. C. *see* **McDowell, D. L., 93c:73041**

Morland, L. W. Compaction and shear settlement of granular materials. (English summary) **93k:73036**

Mróz, Z. *see* **Raniecki, B., 93h:73022**

Naghdi, P. M. *see* **Casey, James, 93i:73029**

Nemat-Nasser, Sia Phenomenological theories of elastoplasticity and strain localization at high strain rates. **93a:73050**

— (*with* Li, Y.-F.) A new explicit algorithm for finite-deformation elastoplasticity and elastoviscoplasticity: performance evaluation. (English summary) **93f:73110**

— (*with* Li, Y.-F.) Errata: "A new explicit algorithm for finite-deformation elastoplasticity and elastoviscoplasticity: performance evaluation" [Comput. & Structures **44** (1992), no. 5, 937–963; MR 93f:73110]. **93k:73085**

Owen, David Ross *see* **Lucchesi, M.; et al., 93a:73046**

Perego, U. *see* **Comi, C.; et al., 93a:73080**

Petryk, H. (*with* Thermann, K.) On discretized plasticity problems with bifurcations. **93d:73043**

Podio-Guidugli, Paolo *see* **Lucchesi, M.; et al., 93a:73046**

Qiu, X. Y. (*with* Singh, M. C.) Thermoplastic constitutive relations for metallic solids. (English summary) **93i:73005**

Raniecki, B. (*with* Mróz, Z.) On the strain-induced anisotropy and texture in rigid-plastic solids. **93h:73022**

Repin, S. I. Variational formulations for discontinuous displacement fields in problems of ideal plasticity. (Russian) **93d:73040**

— Variational formulations for discontinuous displacement fields in problems of the deformation theory of plasticity without hardening. (Russian) **93d:73039**

Sampaio, Rubens *see* **Del Piero, Gianpietro, 93d:73058**

Schaeffer, David G. (*with* Shearer, Michael) Scale-invariant initial value problems in one-dimensional dynamic elastoplasticity, with consequences for multidimensional nonassociative plasticity. (English summary) **93g:73057**

— *see also* **An, Lian Jun, 93c:73053**

Serëgin, G. A. Differential properties of the stress tensor in the Coulomb-Mohr theory of plasticity. (Russian. Russian summary) **93k:73037**

Shearer, Michael *see* **Schaeffer, David G., 93g:73057**

Silling, S. A. Stability and accuracy of differencing methods for viscoplastic models in wavecodes. (English summary) **93g:73112**

Singh, M. C. *see* **Qiu, X. Y., 93i:73005**

Soós, E. *see* **Cleja-Ţigoiu, Sanda, 93g:73056a** *and* **93g:73056b**

Suquet, Pierre *see* **Bouchitté, Guy, 93f:73008**

Thermann, K. *see* **Petryk, H., 93d:73043**

Volkmann, Eric *see* **Fosdick, Roger, 93m:73013**

Weichert, D. *see* **Başar, Y., 93a:73060**

Zbib, H. M. On the mechanics of large inelastic deformations: kinematics and constitutive modeling. (English summary) **93j:73039**

73E20 Limit analysis

Pham Duc Chinh Shakedown of bars subjected to cycles of loads and temperature. (English summary) **93k:73034**

Items with secondary classifications in 73E20

(Fazio, C. J.) *see* **Valanis, K. C., 93b:73020**

Giambanco, F. (*with* Palizzolo, L.; Panzeca, T.) A bounding technique for plastic deformations. (English summary) **93f:73045**

Palizzolo, L. *see* **Giambanco, F.; et al., 93f:73045**

Panzeca, T. *see* **Giambanco, F.; et al., 93f:73045**

Petryk, H. Material instability and strain-rate discontinuities in incrementally nonlinear continua. (English summary) **93f:73047**

Valanis, K. C. Discussion of: "A one-dimensional study of the limit cases of the endochronic theory" [Internat. J. Solids and Structures **25** (1989), no. 8, 863–877; MR 90k:73038] by C. J. Fazio. **93b:73020**

73E50 Time-dependent problems

Binder, A. On the numerical treatment of bulging of continuously cast slabs. (English and German summaries)

Cleja-Ţigoiu, Sanda (*with* Soós, E.) Elastic range and relaxed configurations in rate-independent elastoplasticity. I. Basical [Basic] assumptions. **93g:73056a**

— (*with* Soós, E.) Elastic range and relaxed configurations in rate-independent elastoplasticity. II. Connection between the two models. **93g:73056b**

Davydov, M. G. On an energy criterion for the stability of the elastoplastic deformation process. (Russian. Russian summary) (*see* **93m:00017**)

Gardner, Carl L. *see* **Wang, Feng; et al., 93c:73040**

Goncharenko, V. M. (*with* Rakhmanov, Kh. B.) Generalized solution of a problem that describes the oscillations of elastoplastic bodies. (Ukrainian. Russian and Ukrainian summaries) **93d:73037**

Greenberg, J. M. The long time behavior of elastic-perfectly plastic materials. (*see* **93k:00037**)

Ionescu, Ioan R. Some existence results in one-dimensional dynamic viscoplasticity with work hardening. **93e:73015**

Kadymov, V. A. Flows of plastic material in a thin layer under combined force effects. (Russian. English and Azerbaijani summaries)

Loret, Benjamin Does deviation from deviatoric associativity lead to the onset of flutter instability? (English summary) **93i:73024**

Mróz, Z. *see* **Pycko, S., 93c:73039**

Ockendon, H. *see* **Wright, T. W., 93g:73058**

Pycko, S. (*with* Mróz, Z.) Alternative approach to shakedown as a solution of a min-max problem. **93c:73039**

Rakhmanov, Kh. B. *see* **Goncharenko, V. M., 93d:73037**

Schaeffer, David G. (*with* Shearer, Michael) Scale-invariant initial value problems in one-dimensional dynamic elastoplasticity, with consequences for multidimensional nonassociative plasticity. (English summary) **93g:73057**

— *see also* **Wang, Feng; et al., 93c:73040**

Shearer, Michael *see* **Schaeffer, David G., 93g:73057**

Soós, E. *see* **Cleja-Ţigoiu, Sanda, 93g:73056a** *and* **93g:73056b**

Wang, Feng (*with* Gardner, Carl L.; Schaeffer, David G.) Steady-state computations of granular flow in an axisymmetric hopper. **93c:73040**

Wright, T. W. (*with* Ockendon, H.) A model for fully formed shear bands. (English summary) **93g:73058**

Items with secondary classifications in 73E50

Aleksandrov, S. E. Discontinuous velocity fields under arbitrary deformation of an ideal rigid-plastic body. (Russian)

Arutyunyan, N. Kh. (*with* Manzhirov, A. V.; Naumov, V. È.) ★ Контактные задачи механики растущих тел. (Russian. English and Russian summaries) [Contact problems in the mechanics of growing bodies] **93i:73048**

Backhaus, G. Zum Evolutionsgesetz der kinematischen Verfestigung in objektiver Darstellung. (English and German summaries) [On the law of evolution of kinematic hardening in objective presentation] **93i:73022**

Comi, C. (*with* Maier, Giulio; Perego, U.) Generalized variable finite element modeling and extremum theorems in stepwise holonomic elastoplasticity with internal variables. **93a:73080**

Corigliano, A. (*with* Perego, U.) Generalized midpoint finite element dynamic analysis of elastoplastic systems. (English summary) **93i:73054**

Dvorak, George J. On some exact results in thermoplasticity of composite materials. (English summary) **93e:73004**

Entov, V. M. (*with* Ètingof, P. I.) Some exact solutions of the thin-sheet stamping problem. (Russian. Russian summary) **93i:76029**

Ètingof, P. I. *see* **Entov, V. M., 93i:76029**

Fotiu, P. A. Elastodynamics of thin plates with internal dissipative processes. I. Theoretical foundations. (English summary) **93g:73076**

Fressengeas, Claude (*with* Molinari, Alain) The time development of Eulerian/Lagrangian perturbations to simple shear and its applications to shear banding. (English summary) **93i:73025**

Fryazinov, I. V. *see* **Weinelt, Wilfried; et al., 93k:76031**

Goncharov, A. L. *see* **Weinelt, Wilfried; et al., 93k:76031**

Gulidov, A. I. Organization of the computation process and the data structure in the numerical solution of dynamic problems of the mechanics of deformable media. (Russian) **93f:73111**

Hartwig, Karl-Heinz *see* **Weinelt, Wilfried; et al., 93k:76031**

Ionescu, Ioan R. Dynamic processes for a class of elastic-viscoplastic materials. (English summary) **93f:73048**

Kayumov, Sh. Construction of multiparametric two-dimensional mathematical models in the theory of the filtration of viscoplastic fluids. (Russian. Russian summary)

Maier, Giulio *see* **Comi, C.; et al., 93a:73080**

Manzhirov, A. V. *see* **Arutyunyan, N. Kh.; et al., 93i:73048**

Molinari, Alain *see* **Fressengeas, Claude, 93i:73025**

Naumov, V. È. *see* **Arutyunyan, N. Kh.; et al., 93i:73048**

Nemat-Nasser, Sia Phenomenological theories of elastoplasticity and strain localization at high strain rates. **93a:73050**

Nuriev, B. R. Rate-dependent behaviour of flexible cables under the high velocity impact by a cone. (English and Turkish summaries) **93m:73009**

Owen, David Ross Recent research on elastic-plastic oscillators. **93c:70015**

Perego, U. *see* **Comi, C.; et al., 93a:73080** *and* **Corigliano, A., 93i:73054**

Reddy, B. D. Aspects of the modern theory of elastoplasticity. (English summary) (*see* **93k:00037**)

Simo, Juan C. Algorithms for static and dynamic multiplicative plasticity that preserve the classical return mapping schemes of the infinitesimal theory. (English summary) **93f:73056**

Weinelt, Wilfried (*with* Goncharov, A. L.; Fryazinov, I. V.; Hartwig, Karl-Heinz) Numerical methods for solving the problem of injection of plastic into thin forms. (Russian. Russian summary) **93k:76031**

73E60 Viscoplasticity

Dement'ev, O. N. (*with* Karas', E. V.) Stability of the stretching of a rectangular band. (Russian) **93g:73059**

Evzerov, I. D. An approximate scheme for a coupled problem of thermoelastoviscoplasticity. (Russian. Russian summary) **93h:73019**

Fressengeas, Claude (*with* Molinari, Alain) The time development of Eulerian/Lagrangian perturbations to simple shear and its applications to shear banding. (English summary) **93i:73025**

Ionescu, Ioan R. Dynamic processes for a class of elastic-viscoplastic materials. (English summary) **93f:73048**

Karas', E. V. *see* **Dement'ev, O. N., 93g:73059**

McDowell, D. L. (*with* Moosbrugger, J. C.) Continuum slip foundations of elastoviscoplasticity. **93c:73041**

Mićunović, Milan V. On viscoplasticity of transversely isotropic materials. (German and Serbo-Croatian summaries) **93e:73016**

Molinari, Alain *see* **Fressengeas, Claude, 93i:73025**

Moosbrugger, J. C. *see* **McDowell, D. L., 93c:73041**

Items with secondary classifications in 73E60

Fotiu, P. A. Elastodynamics of thin plates with internal dissipative processes. I. Theoretical foundations. (English summary) **93g:73076**

Ionescu, Ioan R. Some existence results in one-dimensional dynamic viscoplasticity with work hardening. **93e:73015**

Li, Y.-F. *see* **Nemat-Nasser, Sia, 93f:73110** *and* **93k:73085**

Naghdi, P. M. (*with* Srinivasa, A. R.) On the dynamical theory of rigid-viscoplastic materials. (English summary) **93m:73014**

Nemat-Nasser, Sia (*with* Li, Y.-F.) A new explicit algorithm for finite-deformation elastoplasticity and elastoviscoplasticity: performance evaluation. (English summary) **93f:73110**

— (*with* Li, Y.-F.) Errata: "A new explicit algorithm for finite-deformation elastoplasticity and elastoviscoplasticity: performance evaluation" [Comput. & Structures **44** (1992), no. 5, 937–963; MR 93f:73110]. **93k:73085**

Pen'kov, V. B. (*with* Tolokonnikov, L. A.) Strict solutions of two-dimensional problems in the mechanics of a deformable solid. (Russian. English and Ukrainian summaries) **93i:73012**

Silling, S. A. Stability and accuracy of differencing methods for viscoplastic models in wavecodes. (English summary) **93g:73112**

Srinivasa, A. R. *see* **Naghdi, P. M., 93m:73014**

Tolokonnikov, L. A. *see* **Pen'kov, V. B., 93i:73012**

73E70 Plastic waves

Balashov, D. B. Simple waves in the Prandtl-Reuss equations. (Russian) **93d:73038**

Chossat, Pascal *see* **Nouri, A., 93k:73035**

Nouri, A. (*with* Chossat, Pascal) Shock waves of small amplitude in elastoplastic solids. (English summary) **93k:73035**

Pember, Richard B. *see* **Trangenstein, John A., 93g:73060**

Trangenstein, John A. A comparison of two numerical methods for shocks in one-dimensional elastic-plastic solids. **93f:73049**

— (*with* Pember, Richard B.) Numerical algorithms for strong discontinuities in elastic-plastic solids. (English summary) **93g:73060**

Items with secondary classifications in 73E70

Haupt, Peter (*with* Pao, Yih Hsing; Hutter, Kolumban) Theory of incremental motion in a body with initial elastoplastic deformation. (English and German summaries) **93f:73046**

Hutter, Kolumban *see* **Haupt, Peter; et al., 93f:73046**

Loret, Benjamin Does deviation from deviatoric associativity lead to the onset of flutter instability? (English summary) **93i:73024**

Pao, Yih Hsing *see* **Haupt, Peter; et al., 93f:73046**

Petryk, H. Material instability and strain-rate discontinuities in incrementally nonlinear continua. (English summary) **93f:73047**

Plohr, Bradley J. (*with* Sharp, David H.) A conservative formulation for plasticity. (English summary) **93k:73033**

Schaeffer, David G. (*with* Shearer, Michael) Scale-invariant initial value problems in one-dimensional dynamic elastoplasticity, with consequences for multidimensional nonassociative plasticity. (English summary) **93g:73057**

Sharp, David H. *see* **Plohr, Bradley J., 93k:73033**

Shearer, Michael *see* **Schaeffer, David G., 93g:73057**

73E99 None of the above, but in this section

Brandi, Primo (*with* Salvadori, Anna) A variational approach to problems of plastic deformation. (*see* **93j:35004**)

Carini, A. Extremal formulations for the single finite time step analysis of elastoplastic continua. **93b:73021**

Il'yalov, O. R. *see* **Nyashin, Yu. I., (93k:00022)**

Morland, L. W. Compaction and shear settlement of granular materials. (English summary) **93k:73036**

Nyashin, Yu. I. (*with* Il'yalov, O. R.) On the formulation of a boundary value problem on determining residual stresses (in the general case). (Russian. Russian summary) (*see* **93k:00022**)

Repin, S. I. Variational formulations for discontinuous displacement fields in problems of ideal plasticity. (Russian) **93d:73040**

— Variational formulations for discontinuous displacement fields in problems of the deformation theory of plasticity without hardening. (Russian) **93d:73039**

Salvadori, Anna *see* **Brandi, Primo, (93j:35004)**

Schaeffer, David G. A mathematical model for localization in granular flow. (English summary) **93g:73061**

Serëgin, G. A. A local estimate of the Caccioppoli inequality type for extremal variational problems of Hencky plasticity. (Russian. Russian summary) **93f:73050**

— Differential properties of the stress tensor in the Coulomb-Mohr theory of plasticity. (Russian. Russian summary) **93k:73037**

Tang, Qi Relaxation and existence in nonisotropical plasticity problems. **93c:73042**

Items with secondary classifications in 73E99

Abdrashitov, D. V. (*with* Gafurov, M. B.) Investigation of nonreflecting conditions on the boundaries of a computational domain for elastoplastic media. (Russian) (*see* **93m:00033**)

Acerbi, Emilio (*with* Percivale, Danilo) Reinforcement of plates in Hencky's plasticity. **93j:73045**

Arminjon, M. Macro-homogeneous strain fields with arbitrary local inhomogeneity. (Russian and Polish summaries) **93c:73004**

Bathe, Klaus-Jürgen *see* **Eterovic, A. L., 93d:73067**

Belov, N. N. (*with* Demidov, V. N.; Efremova, L. V.; et al.) Computer modeling of the dynamics of high-velocity impact and of the accompanying physical phenomena. (Russian. Russian summary) **93k:73023**

Ben Dhia, Hachmi Numerical analysis of a bidimensional Hencky problem approximated by a discontinuous finite element method. **93c:65129**

Borino, G. *see* **Polizzotto, C.; et al., 93a:73031**

Caddemi, S. *see* **Polizzotto, C.; et al., 93a:73031**

Chernopazov, S. A. (*with* Nyashin, Yu. I.) Variational methods for solving some contact problems of elastoplasticity. (Russian. Russian summary) (*see* **93k:00022**)

Davini, Cesare (*with* Parry, Gareth P.) Uniform rearrangement in defective crystals. (English summary) **93m:73007**

Demidov, V. N. *see* **Belov, N. N.; et al., 93k:73023**

Dvorak, George J. Transformation field analysis of inelastic composite materials. **93e:73034b**

Efremova, L. V. *see* **Belov, N. N.; et al., 93k:73023**

Eremenko, S. Yu. ★ Методы конечных элементов в механике деформируемых тел. (Russian. Russian summary) [Finite-element methods in the mechanics of deformable bodies] **93h:73037**

Eterovic, A. L. (*with* Zanzotto, Giovanni) On large strain elastoplastic analysis with frictional contact conditions. **93d:73067**

(Fazio, C. J.) *see* **Valanis, K. C., 93b:73020**

Fedelich, B. (*with* Zanzotto, Giovanni) Hysteresis in discrete systems of possibly interacting elements with a double-well energy. (English summary) **93g:73026**

Fuschi, P. *see* **Polizzotto, C.; et al., 93a:73031**

Gafurov, M. B. *see* **Abdrashitov, D. V., (93m:00033)**

Hill, Rodney Similarity analysis of creep indentation tests. (English summary) **93e:73036**

Hlaváček, Ivan Shape optimization of elastoplastic bodies by the finite element method. (*see* **93b:65007**)

Hoffmann, Karl-Heinz[1] *see* **Khludnev, A. M., 93a:73072**

Kamin, Shoshana (*with* Peletier, L. A.; Vázquez, Juan Luis) On the Barenblatt equation of elastoplastic filtration. **93b:35117**

Kennedy, J. G. *see* **Simo, Juan C., 93e:73026**

Khludnev, A. M. (*with* Hoffmann, Karl-Heinz[1]) A variational inequality in a contact elastoplastic problem for a bar. **93a:73072**

Lee, J. H. An algorithm in finding partial volumes of 3-D 20-node elements in localization analysis. (English summary) **93i:73055**

Léger, A. (*with* Potier-Ferry, M.) Elastic-plastic post-buckling from a heterogeneous state. (English summary) **93m:73016**

Lellep, Jaan ★ Optimization of plastic structures. **93d:73055**

Maddocks, John H. (*with* Malek-Madani, Reza) Steady-state shear-bands in thermoplasticity. I. Vanishing yield stress. **93b:73009**

Makushok, E. M. ★ Самоорганизация деформационных процессов. (Russian) [Self-organization of deformation processes] **93f:73006**

Malek-Madani, Reza *see* **Maddocks, John H., 93b:73009**

Malyshev, K. L. Gauge group and gauge transformation in the continuum theory of defects. (Russian. English summary) **93k:73014**

Man, Chi-Sing Nonsteady channel flow of ice as a modified second-order fluid with power-law viscosity. **93c:76001**

Massoudi, M. *see* **Rajagopal, K. R.; et al., 93c:73045**

Nikolaevskiĭ, V. N. ★ Mechanics of porous and fractured media. **93a:73013**

Nyashin, Yu. I. *see* **Chernopazov, S. A., (93k:00022)**

Parry, Gareth P. *see* **Davini, Cesare, 93m:73007**

Peletier, L. A. *see* **Kamin, Shoshana; et al., 93b:35117**

Percivale, Danilo *see* **Acerbi, Emilio, 93j:73045**

Polizzotto, C. (*with* Borino, G.; Caddemi, S.; Fuschi, P.) Shakedown problems for material models with internal variables. **93a:73031**

Ponte Castañeda, P. New variational principles in plasticity and their application to composite materials. (English summary) **93j:73073**

Potier-Ferry, M. *see* **Léger, A., 93m:73016**

Rajagopal, K. R. (*with* Troy, William C.; Massoudi, M.) Existence of solutions to the equations governing the flow of granular materials. **93c:73045**

Rosakis, Phoebus Compact zones of shear transformation in an anisotropic solid. (English summary)

(Rvachëv, V. L.) *see* **Eremenko, S. Yu., 93h:73037**

Simo, Juan C. (*with* Kennedy, J. G.) On a stress resultant geometrically exact shell model. V. Nonlinear plasticity: formulation and integration algorithms. **93e:73026**

Sukhorukov, I. V. *see* **Tsvelodub, I. Yu., 93j:73048**

Tang, Qi An elastoplastic problem with frictions. (*see* **93k:00037**)

Telega, Józef Joachim Perfectly plastic plates loaded by boundary bending moments: relaxation and homogenization. **93i:73002**

Troy, William C. *see* **Rajagopal, K. R.; et al., 93c:73045**

Tsvelodub, I. Yu. (*with* Sukhorukov, I. V.) Some inverse problems of elastoplastic deformation of plates. (Russian. Russian summary) **93j:73048**

Valanis, K. C. Discussion of: "A one-dimensional study of the limit cases of the endochronic theory" [Internat. J. Solids and Structures **25** (1989), no. 8, 863–877; MR 90k:73038] by C. J. Fazio. **93b:73020**

Vázquez, Juan Luis *see* **Kamin, Shoshana; et al., 93b:35117**

Zanzotto, Giovanni *see* **Fedelich, B., 93g:73026**

Zhou, Xiaodong An evolution problem for plastic antiplanar shear. **93b:35075**

73Fxx Viscoelasticity

73F05 Creep and relaxation functions

Buggisch, H. (*with* Mazilu, P.; Weber, H.) Identifizierung des Zustandsparameters für viskoelastiche Materialien. I. (English summary) [Identification of the state parameter for viscoelastic materials. I] **93j:73033**

Huet, C. Minimum theorems for viscoelasticity. (English summary) **93j:73034**

Mazilu, P. *see* **Buggisch, H.; et al., 93j:73033**

Murdoch, A. I. Remarks on the foundations of linear viscoelasticity. (English summary) **93h:73020**

Weber, H. *see* **Buggisch, H.; et al., 93j:73033**

Items with secondary classifications in 73F05

Betten, J. Recent advances in applications of tensor functions in solid mechanics. (Russian summary) **93j:73003**

Ciarletta, M. (*with* Scarpetta, E.) On existence and uniqueness for viscoelastic compressible fluids. (English summary) **93g:76009**

Joseph, Daniel D. Problems associated with the elasticity of liquids. **93g:76011**

Na, T. Y. *see* **Seshadri, R., 93c:73046**

Scarpetta, E. *see* **Ciarletta, M., 93g:76009**

Seshadri, R. (*with* Na, T. Y.) Pseudo-similarity analysis of long rods in the transient creep range. (Russian and Polish summaries) **93c:73046**

73F10 Correspondence principle

Items with secondary classifications in 73F10

Joó, István On the control of a rectangular membrane. **93j:35035**

73F15 Time-dependent problems

Allam, M. A. M. On reduction of thermoviscoelastic equations to integral equations. II. (English summary) **93j:73035**

Borrelli, Alessandra (*with* Patria, Maria Cristina) Induced discontinuities in thermoviscoelastic solids of integral type. (Italian summary) **93b:73022**

Carini, A. (*with* Diligenti, M.; Maier, Giulio) Boundary integral equation analysis in linear viscoelasticity: variational and saddle point formulations. (English summary) **93g:73062**

— (*with* De Donato, O.) Fundamental solutions for linear viscoelastic continua. (English summary) **93f:73051**

Chiriţă, S. Saint-Venant's problem and semi-inverse solutions in linear viscoelasticity. **93g:73063**

Dall'Asta, A. (*with* Menditto, G.) Perturbed motion of viscoelastic columns: a variational approach. (English summary) **93i:73026**

Das, Tapan Kumar (*with* Sengupta, P. R.) Effect of gravity on wave propagation in a general higher order visco-elastic layer including strain rate and stress rate.

Dassios, George (*with* Zafiropoulos, Filareti) Errata: "Equipartition of energy in linearized 3-D viscoelasticity" [Quart. Appl. Math. **48** (1990), no. 4, 715–730; MR 92e:73021].

De Donato, O. *see* **Carini, A., 93f:73051**

Denisov, G. G. (*with* Kugusheva, E. K.; Novikov, V. V.) A problem on the dynamics of viscoelastic systems with moving boundaries. (Russian) **93c:73043**

Diligenti, M. *see* **Carini, A.; et al., 93g:73062**

Drozdov, A. D. (*with* Kolmanovskiĭ, V. B.) Stochastic stability of viscoelastic bars. **93a:73032**

Fabrizio, Mauro Stability properties for systems with memory. (Italian. English summary) **93a:73033**

— (*with* Morro, Angelo) ★ Mathematical problems in linear viscoelasticity. **93a:73034**

— On the inversion of a linear viscoelastic constitutive equation. (Italian. English summary) **93d:73041**

— *see also* **Graffi, Dario, 93a:73036** *and* **93a:73037**

Fichera, Gaetano On elastic materials with memory. (Italian. English summary) **93a:73035**

Fitzpatrick, Ben G. Approximation and control in integral equations of nonlinear viscoelasticity. **93d:73042**

Giorgi, Claudio (*with* Lazzari, Barbara) Uniqueness and stability in linear viscoelasticity: some counterexamples. (English summary) **93i:73027**

— (*with* Marzocchi, Alfredo) Extremum principles for the quasi-static problem in linear viscoelasticity. **93f:73053**

— (*with* Marzocchi, Alfredo) A minimum principle for the quasi-static problem in linear viscoelasticity. (Italian summary) **93f:73052**

— (*with* Morro, Angelo) Viscoelastic solids with unbounded relaxation function. **93c:73044**

Graffi, Dario (*with* Fabrizio, Mauro) On the notion of state for viscoelastic materials of "rate" type. (Italian. English summary) **93a:73036**

— (*with* Fabrizio, Mauro) Nonuniqueness of free energy for viscoelastic materials. (Italian. English summary) **93a:73037**

Gripenberg, Gustaf Unimodality and viscoelastic pulse propagation. (English summary) **93m:73012**

Kolmanovskiĭ, V. B. *see* **Drozdov, A. D., 93a:73032**

Kugusheva, E. K. *see* **Denisov, G. G.; et al., 93c:73043**

Lazzari, Barbara *see* **Giorgi, Claudio, 93i:73027**

Liu, I-Shih Extended thermodynamics of viscoelasticity. (*see* **93a:82002**)

Maier, Giulio *see* **Carini, A.; et al., 93g:73062**

Marzocchi, Alfredo *see* **Giorgi, Claudio, 93f:73052** *and* **93f:73053**

Massoudi, M. *see* **Rajagopal, K. R.; et al., 93c:73045**

Menditto, G. *see* **Dall'Asta, A., 93i:73026**

Mihăilescu-Suliciu, M. (*with* Suliciu, I.) On the method of characteristics in rate-type viscoelasticity with nonmonotone equilibrium curve. (English, German and Russian summaries) **93j:73036**

Mizel, Victor J. Remarks on materials with memory. (Italian summary) **93a:73038**
Morro, Angelo Thermodynamics of linear viscoelasticity. **93b:73023**
— *see also* **Fabrizio, Mauro, 93a:73034** *and* **Giorgi, Claudio, 93c:73044**
Muñoz Rivera, Jaime Edilberto Asymptotic behaviour of energy in linear thermoviscoelasticity. (English and Portuguese summaries) **93j:73037**
Na, T. Y. *see* **Seshadri, R., 93c:73046**
Novikov, V. V. *see* **Denisov, G. G.; et al., 93c:73043**
Patria, Maria Cristina *see* **Borrelli, Alessandra, 93b:73022**
Rajagopal, K. R. (*with* Troy, William C.; Massoudi, M.) Existence of solutions to the equations governing the flow of granular materials. **93c:73045**
Sengupta, P. R. *see* **Das, Tapan Kumar**
Seshadri, R. (*with* Na, T. Y.) Pseudo-similarity analysis of long rods in the transient creep range. (Russian and Polish summaries) **93c:73046**
Suliciu, I. *see* **Mihăilescu-Suliciu, M., 93j:73036**
Teniou, D. Approximation dans un problème de viscoélasticité périodique. (English summary) [Approximation in a periodic viscoelasticity problem] **93j:73038**
Troy, William C. *see* **Rajagopal, K. R.; et al., 93c:73045**
Vergara-Caffarelli, Giorgio Dissipativity and uniqueness for the one-dimensional dynamical problem of linear viscoelasticity. (Italian. English summary) **93a:73039**
— Dissipativity and existence for the one-dimensional dynamical problem of linear viscoelasticity. (Italian. English summary) **93a:73040**
Zafiropoulos, Filareti *see* **Dassios, George**

Items with secondary classifications in 73F15

Agranovich, Yu. Ya. (*with* Sobolevskiĭ, P. E.) Motion of a nonlinear viscoelastic fluid. (Russian) **93d:35126**
Baaijens, Frank P. T. A U-ALE formulation of 3-D unsteady viscoelastic flow. (English summary) **93m:76057**
Barkar', S. M. (*with* Pivovarchik, V. N.) Small transverse vibrations of a viscoelastic rod with rigidly fastened ends. (Russian) **93b:35129**
Bock, Igor Thickness optimization in viscoelastic plate bending. **93a:49024**
— (*with* Lovíšek, Ján) An optimal control problem for a pseudoparabolic variational inequality. (Slovak summary) **93f:49012**
Borisovich, O. Yu. (*with* Byrdin, A. P.) The Fourier method for a boundary value problem on dynamic instability with a nonlinear integro-differential operator. I. (Russian) **93c:65162**
Bourne, J. P. (*with* Walton, J. R.) On a dynamically accelerating crack in an Achenbach-Chao viscoelastic solid. (English summary) **93k:73069**
Brutyan, M. A. (*with* Krapivskiĭ, P. L.) Intrinsic properties of some rheological models of a viscoelastic fluid. (Russian. Russian summary) **93g:76008**
— (*with* Krapivskiĭ, P. L.) Unidirectional flows of viscoelastic fluids and their gasdynamic counterparts. (English summary) **93e:76005**
Byrdin, A. P. *see* **Borisovich, O. Yu., 93c:65162**
Ciarletta, M. (*with* Scarpetta, E.) On existence and uniqueness for viscoelastic compressible fluids. (English summary) **93g:76009**
Coleman, Bernard D. A survey of results on the loss of regularity of shearing flows of viscoelastic fluids. (English summary) (*see* **93g:00030**)
Cook, L. Pamela (*with* Olagunju, D. O.; Schleiniger, G. F.) Viscoelastic fluid flow: critical parameters and asymptotics. (English summary) (*see* **93m:65006**)
Das, Pravangsu Sekhar (*with* Sengupta, P. R.; Debnath, Lokenath) Lamb's plane problem in a thermoviscoelastic micropolar medium with the effect of gravity. (English summary) **93i:73021**
Debnath, Lokenath *see* **Das, Pravangsu Sekhar; et al., 93i:73021**
Demkowicz, Leszek *see* **Kuczma, M. S., 93h:73033**
Dost, S. *see* **Erbay, H. A.; et al., 93f:73080**
Drozdov, A. D. (*with* Kolmanovskiĭ, V. B.) The stability of viscoelastic rods under a random longitudinal load. (Russian) **93e:73019**
— Stability of viscoelastic beams under the action of follower forces. (English summary) **93j:73044**
Erbay, H. A. (*with* Erbay, S.; Dost, S.) Wave propagation in fluid filled nonlinear viscoelastic tubes. (English summary) **93f:73080**
Erbay, S. *see* **Erbay, H. A.; et al., 93f:73080**
Fairweather, Graeme *see* **Yan, Yi, 93c:65130**
Feireisl, Eduard Forced vibrations in one-dimensional nonlinear viscoelasticity. **93a:45009a**
— Errata: "Forced vibrations in one-dimensional nonlinear viscoelasticity". **93a:45009b**
— Errata: "Forced vibrations in one-dimensional nonlinear viscoelasticity". **93a:45009c**
French, Donald A. Long time behavior of a numerical approximation to a nonlinear evolution problem in viscoelasticity. (English summary) (*see* **93m:00047**)
Frischmuth, K. (*with* Kosiński, Witold; Lekszycki, T.) Free vibrations of finite-memory material beams. (English summary) **93m:73022**
Gaiduk, S. I. Application of the contour integral method to the solution of a problem on transverse vibrations of a viscoelastic membrane caused by an impact. (Russian) **93b:73017**
Grasselli, Maurizio An identification problem for an abstract linear hyperbolic integrodifferential equation with applications. (English summary) **93j:45008**
Hannsgen, Kenneth B. (*with* Wheeler, Robert L.) A representation formula for one-dimensional viscoelasticity with stabilizing boundary feedback. **93f:93113**
— (*with* Staffans, Olof J.; Wheeler, Robert L.) Rational approximation of the transfer function of a viscoelastic rod. (English summary) (*see* **93i:93005**)
Janno, Jaan On a well-posed approximation of an inverse problem in isotropic medium with memory. (English summary) **93i:45011**
Jarušek, Jiří On the regularity of solutions of a thermoelastic system under noncontinuous heating regimes. III. (English summary) **93j:35040**
Joseph, Daniel D. Problems associated with the elasticity of liquids. **93g:76011**
Kawashima, Shuichi (*with* Shibata, Yoshihiro) Global existence and exponential stability of small solutions to nonlinear viscoelasticity. (English summary) **93i:35092**
Kholostova, O. V. On the stability of a particular motion of a rigid body with an elastoviscous membrane on a circular orbit. (Russian) **93d:70012**
Kolmanovskiĭ, V. B. *see* **Drozdov, A. D., 93e:73019**
Kosiński, Witold *see* **Frischmuth, K.; et al., 93m:73022**
Krapivskiĭ, P. L. *see* **Brutyan, M. A., 93e:76005** *and* **93g:76008**
Kubyshkin, E. P. Optimal control of the rotation of a solid body with a flexible rod. (Russian. Russian summary) **93i:70030**
Kuczma, M. S. (*with* Demkowicz, Leszek) An adaptive algorithm for unilateral viscoelastic contact problems for beams and plates. (English summary) **93h:73033**
Kurbanov, I. O. Solvability of nonlinear boundary value problems of electromagnetoelasticity with memory. (Russian. Tajiki summary) **93f:73088**
Lekszycki, T. *see* **Frischmuth, K.; et al., 93m:73022**
Leugering, G. A decomposition method for integro-partial differential equations and applications. (English summary) **93i:45012**
Lorenzi, Alfredo (*with* Paparoni, E.) Direct and inverse problems in the theory of materials with memory. (English summary) **93i:45014**
Lovíšek, Ján *see* **Bock, Igor, 93f:49012**
Mikhasëv, G. I. On a solution of a system of integro-differential equations that describes free oscillations of a viscoelastic cylindrical shell. (Russian. English and Russian summaries) **93j:73052**
Murdoch, A. I. Remarks on the foundations of linear viscoelasticity. (English summary) **93h:73020**
Nečas, Jindřich (*with* Růžička, Michael) Global solution to the incompressible viscous-multipolar material problem. (English summary) **93g:73007**
Olagunju, D. O. *see* **Cook, L. Pamela; et al., (93m:65006)**
Orlov, V. P. Local solvability of one-dimensional problem of thermoviscoelasticity. (English summary) **93i:35147**
Paparoni, E. *see* **Lorenzi, Alfredo, 93i:45014**
Pivovarchik, V. N. *see* **Barkar', S. M., 93b:35129**
Růžička, Michael *see* **Nečas, Jindřich, 93g:73007**
Rybka, Piotr Dynamical modelling of phase transitions by means of viscoelasticity in many dimensions. **93d:35164**
Scarpetta, E. *see* **Ciarletta, M., 93g:76009**
Schleiniger, G. F. *see* **Cook, L. Pamela; et al., (93m:65006)**
Sengupta, P. R. *see* **Das, Pravangsu Sekhar; et al., 93i:73021**
Sergeev, V. S. Stability of solutions of a class of functional-differential equations. (Russian) **93g:34120**
Shibata, Yoshihiro *see* **Kawashima, Shuichi, 93i:35092**
Shinkarenko, G. A. Formulation and solvability of initial-boundary value problems of electroviscoelasticity. (Ukrainian)
Sobolevskiĭ, P. E. *see* **Agranovich, Yu. Ya., 93d:35126**
Staffans, Olof J. *see* **Hannsgen, Kenneth B.; et al., (93i:93005)**
Walton, J. R. *see* **Bourne, J. P., 93k:73069**
Wheeler, Robert L. *see* **Hannsgen, Kenneth B., 93f:93113** *and* **(93i:93005)**
Yan, Yi (*with* Fairweather, Graeme) Orthogonal spline collocation methods for some partial integrodifferential equations. **93c:65130**
Zeng, Yanni Convergence to diffusion waves of solutions to nonlinear viscoelastic model with fading memory. **93d:35172**

73F99 None of the above, but in this section

Giorgi, Claudio (*with* Marzocchi, Alfredo) New variational principles in quasi-static viscoelasticity. (English summary) **93g:73064**
Kagadii, T. S. (*with* Massakovskaya, L. V.; Pavlenko, A. V.) The perturbation method in a three-dimensional problem of linear viscoelasticity of anisotropic bodies. (Russian) **93b:73024**
Marzocchi, Alfredo *see* **Giorgi, Claudio, 93g:73064**
Massakovskaya, L. V. *see* **Kagadii, T. S.; et al., 93b:73024**
Pavlenko, A. V. *see* **Kagadii, T. S.; et al., 93b:73024**
Ravasoo, Arvi Some remarks on the quasi-linear theory of viscoelasticity. (Russian and Estonian summaries) **93c:73047**
Sobotka, Zdeněk Tensorial expansions of constitutive viscoelastic functions. (English summary) **93k:73038**

Items with secondary classifications in 73F99

Chiroiu, Veturia *see* **Nicolae, V.**
Nicolae, V. (*with* Chiroiu, Veturia) Study of the small deformations of a viscoelastic body in finite rototranslatory motion. (Romanian)
Šilhavý, Miroslav Multipolar viscoelastic materials and the symmetry of the coefficients of viscosity. (English and Czech summaries) **93e:73003**

73Gxx Finite deformations

73G05 Finite elasticity

Abeyaratne, Rohan *see* **Hou, Hang-Sheng, 93g:73067**
Aron, M. (*with* Croitoro, E.) On deformations with constant modified stretches. **93c:73048**
Beatty, M. F. *see* **Johnson, M. A.**
Bradford, I. D. R. (*with* England, A. H.; Rogers, T. G.) Finite deformations of a fibre-reinforced cantilever: point-force solutions. **93a:73041**
— *see also* **England, A. H.; et al., 93k:73039**
Chen, Yi-Chao *see* **MacSithigh, Gearoid P., 93g:73068** *and* **93g:73069**
Croitoro, E. *see* **Aron, M., 93c:73048**
Elżanowski, Marek (*with* Epstein, Marcelo) The interplay of uniformity with constrained elasticity. **93a:73042**
England, A. H. (*with* Rogers, T. G.; Bradford, I. D. R.) Finite deformations of a fibre-reinforced cantilever: distributed-load solutions. (English summary) **93k:73039**
— *see also* **Bradford, I. D. R.; et al., 93a:73041**
Epstein, Marcelo *see* **Elżanowski, Marek, 93a:73042**
Gevirtz, Julian On planar mappings with prescribed principal strains. **93f:73054**
Green, W. A. (*with* Shi, Jingyu) Degenerate deformations and uniqueness in highly elastic networks. (English summary) **93g:73065**

Haughton, David Mark Boundary layer solutions for incompressible elastic cylinders. **93a:73043**

Hayes, Michael A. (*with* Rajagopal, K. R.) Inhomogeneous finite amplitude motions in a neo-Hookean solid. (English summary) **93k:73040**

Hilgers, M. G. (*with* Pipkin, A. C.) Elastic sheets with bending stiffness. **93a:73044**

Hill, James M. (*with* Myers, Timothy G.) The combined compression and shear of a rectangular rubber block. (English summary) **93g:73066**

Horgan, Cornelius O. *see* **Polignone, Debra A., 93a:73049**

Hou, Hang-Sheng (*with* Abeyaratne, Rohan) Cavitation in elastic and elastic-plastic solids. **93g:73067**

Johnson, M. A. (*with* Beatty, M. F.) The Mullins effect in uniaxial extension and its influence on the transverse vibration of a rubber string. (English summary)

Langenbach, Arno Über ein eindimensionales Modell der finiten Elastostatik. (English summary) [On a one-dimensional model of finite elastostatics] **93a:73045**

Leroy, Yves M. (*with* Molinari, Alain) Spatial patterns and size effects in shear zones: a hyperelastic model with higher-order gradients. (English summary) **93k:73041**

Lindsay, K. A. The second-order deformation of an incompressible isotropic slab under torsion. (English summary) **93k:73042**

Lucchesi, M. (*with* Owen, David Ross; Podio-Guidugli, Paolo) Materials with elastic range: a theory with a view toward applications. III. Approximate constitutive relations. **93a:73046**

MacSithigh, Gearoid P. (*with* Chen, Yi-Chao) Bifurcation and stability of an incompressible elastic body under homogeneous dead loads with symmetry. I. General isotropic materials. (English summary) **93g:73068**

— (*with* Chen, Yi-Chao) Bifurcation and stability of an incompressible elastic body under homogeneous dead loads with symmetry. II. Mooney-Rivlin materials. (English summary) **93g:73069**

Maugin, Gérard A. (*with* Trimarco, Carmine) Note on a mixed variational principle in finite elasticity. (Italian summary) **93g:73070**

Meynard, François Existence and nonexistence results on the radially symmetric cavitation problem. **93c:73049**

Molinari, Alain *see* **Leroy, Yves M., 93k:73041**

Murphy, Jeremiah G. Some new closed-form solutions describing spherical inflation in compressible finite elasticity. **93a:73047**

Myers, Timothy G. *see* **Hill, James M., 93g:73066**

Owen, David Ross *see* **Lucchesi, M.; et al., 93a:73046**

Pipkin, A. C. *see* **Hilgers, M. G., 93a:73044** *and* **Steigmann, D. J., 93f:73055**

Podio-Guidugli, Paolo On energy-growth conditions in elasticity. **93a:73048**

— *see also* **Lucchesi, M.; et al., 93a:73046**

Polignone, Debra A. (*with* Horgan, Cornelius O.) Axisymmetric finite anti-plane shear of compressible nonlinearly elastic circular tubes. **93a:73049**

Rajagopal, K. R. (*with* Tao, L.) On an inhomogeneous deformation of a generalized neo-Hookean material. **93c:73050**

— *see also* **Hayes, Michael A., 93k:73040**

Rogers, T. G. *see* **Bradford, I. D. R.; et al., 93a:73041** *and* **England, A. H.; et al., 93k:73039**

Shi, Jingyu *see* **Green, W. A., 93g:73065**

Simpson, Henry C. (*with* Spector, Scott J.) Some necessary conditions at an internal boundary for minimizers in finite elasticity. **93g:73071**

Spector, Scott J. *see* **Simpson, Henry C., 93g:73071**

Steigmann, D. J. (*with* Pipkin, A. C.) Equilibrium of elastic nets. **93f:73055**

— Equilibrium of prestressed networks. **93c:73051**

— Cavitation in elastic membranes—an example. **93i:73028**

Tao, L. *see* **Rajagopal, K. R., 93c:73050**

Trimarco, Carmine *see* **Maugin, Gérard A., 93g:73070**

Vallée, Claude Compatibility equations for large deformations. (English summary) **93h:73021**

Items with secondary classifications in 73G05

Antman, Stuart S. *see* **Lanza de Cristoforis, Massimo, 93k:73066**

Armero, F. *see* **Simo, Juan C., 93a:73082**

Başar, Y. (*with* Weichert, D.) A finite-rotation theory for elastic-plastic shells under consideration of shear deformations. (German and Russian summaries) **93a:73060**

— Finite-rotation theories for composite laminates. (English summary) **93k:73064**

Bathe, Klaus-Jürgen *see* **Eterovic, A. L., 93d:73067**

Beck, Armin (*with* Grabmüller, Hans) Wrinkle-free solutions of circular membrane problems. **93d:73045**

Björkman, Gunnar Path following and critical points for contact problems. (English summary) **93f:73092**

— *see also* **Klarbring, Anders, 93a:73073**

Blume, Janet A. On the form of the inverted stress-strain law for isotropic hyperelastic solids. **93b:73003**

Boulanger, Ph. (*with* Hayes, Michael A.) Shear, shear stress and shearing. (English summary) **93h:73009**

Bradford, I. D. R. *see* **Rogers, T. G.; et al., 93i:73032**

Cardona, A. (*with* Géradin, M.) A superelement formulation for mechanism analysis. (English summary) **93g:73108**

Chernega, N. Ya. *see* **Eremeev, V. A.; et al., 93j:73018**

Cohen, Harley (*with* Wang, Chao Chen) Some equilibrium problems for compressible, anisotropic, laminated nonlinearly elastic bodies. **93e:73011**

— (*with* MacSithigh, Gearoid P.) Symmetric and asymmetric roto-deformations of a symmetrical, isotropic, elastic pseudo-rigid body. (English summary) **93g:73023**

De Tommasi, Domenico One-parameter families of isochoric deformations. **93f:73028**

Dill, Ellis Harold Kirchhoff's theory of rods. **93e:73001**

England, A. H. *see* **Rogers, T. G.; et al., 93i:73032**

Eremeev, V. A. (*with* Zubov, L. M.) Conditions for phase equilibrium in non-linearly elastic media with microstructure. (Russian) **93c:73011**

— (*with* Zubov, L. M.; Karyakin, M. I.; Chernega, N. Ya.) Cavitation in non-linearly elastic bodies with dislocations and disclinations. (Russian) **93j:73018**

Eterovic, A. L. (*with* Bathe, Klaus-Jürgen) On large strain elastoplastic analysis with frictional contact conditions. **93d:73067**

Fosdick, Roger (*with* MacSithigh, Gearoid P.) Minimization in nonlinear elasticity theory for bodies reinforced with inextensible cords. **93e:73012**

Fox, D. D. (*with* Simo, Juan C.) A drill rotation formulation for geometrically exact shells. (English summary) **93c:73068**

— *see also* **Simo, Juan C.; et al., 93e:73027**

Frantsuzov, S. B. *see* **Kondrashkov, A. V., 93f:73077**

Frémond, M. On the flattening of materials. (*see* **93k:00037**)

Gao, Yang *see* **Yau, Shing-Tung, 93b:73027**

Garaizar, Xabier Solution of a Riemann problem for elasticity. **93g:73048**

Géradin, M. *see* **Cardona, A., 93g:73108**

Grabmüller, Hans *see* **Beck, Armin, 93d:73045**

Hart, V. G. (*with* Shi, Jingyu) Joined dissimilar thin elastic tubes containing steady perfect flow. (English summary) **93i:73038**

— (*with* Shi, Jingyu) Joined dissimilar orthotropic elastic cylindrical membranes under internal pressure and longitudinal tension. (English summary) **93m:73018**

Hayes, Michael A. *see* **Boulanger, Ph., 93h:73009**

Herrmann, J. M. An asymptotic analysis of finite deformations near the tip of an interface-crack. II. (English summary) **93j:73064**

Hilgers, M. G. (*with* Pipkin, A. C.) Bending energy of highly elastic membranes. **93a:73056**

Huang, Hsin Fêng Analysis of large deformation of loading [a loaded] cantilever. **93d:73044**

Huang, Ke Zhi *see* **Zheng, Quan Shui, 93c:73021**

James, Richard Dana (*with* Spector, Scott J.) The formation of filamentary voids in solids. **93d:73059**

Karyakin, M. I. *see* **Eremeev, V. A.; et al., 93j:73018**

Kikuchi, Fumio *see* **Yamada, Takahiro, 93i:73056**

Kladinoga, V. S. (*with* Trotsenko, V. A.) Eigenoscillations of a hyperelastic annular membrane, predeformed by an axisymmetric load, with a rigid disk. (Russian. Russian summary) **93k:73060**

Klarbring, Anders (*with* Björkman, Gunnar) Solution of large displacement contact problems with friction using Newton's method for generalized equations. **93a:73073**

Kondrashkov, A. V. (*with* Frantsuzov, S. B.) A plane problem on the strong bending of an elastic curvilinear rod. (Russian. English and Ukrainian summaries) **93f:73077**

Lanza de Cristoforis, Massimo (*with* Antman, Stuart S.) The large deformation of non-linearly elastic shells in axisymmetric flows. (English and French summaries) **93k:73066**

Le Tallec, Patrick (*with* Mani, S.; Rochinha, F. A.) Finite element computation of hyperelastic rods in large displacements. (English and French summaries) **93f:65084**

Li, Zhi Ping Globally 1-1 solutions and finite element method for elasiic-contact problems in nonlinear elasticity. **93h:73034**

MacSithigh, Gearoid P. *see* **Fosdick, Roger, 93e:73012** *and* **Cohen, Harley, 93g:73023**

Mani, S. *see* **Le Tallec, Patrick; et al., 93f:65084**

Maremonti, Paolo (*with* Russo, Remigio) A domain of influence theorem in finite elasticity. (English summary) (*see* **93g:00030**)

Maugin, Gérard A. (*with* Trimarco, Carmine) Pseudomomentum and material forces in nonlinear elasticity: variational formulations and application to brittle fracture. **93f:73029**

Mişicu, M. The conservation principles of energy and entropy of the dual nonlinear theory of continuum. **93a:73002**

Novikov, N. A. *see* **Sporykhin, A. N., 93g:73115**

Ogden, R. W. Nonlinear elasticity: incremental equations and bifurcation phenomena. **93d:73028**

— On the thermoelastic modeling of rubberlike solids. (English summary) **93i:73004**

Pipkin, A. C. *see* **Hilgers, M. G., 93a:73056**

Rajagopal, K. R. Inhomogeneous deformations in non-linearly elastic materials. (English summary) (*see* **93g:00030**)

— (*with* Zhang, J. P.) Secondary deformation due to axial shearing of a cylinder of noncircular cross-section. (English summary) **93i:73017**

— *see also* **Zhang, J. P., 93e:73013** *and* **Tao, L., 93f:73030**

Rifai, M. S. *see* **Simo, Juan C.; et al., 93e:73027**

Rochinha, F. A. *see* **Le Tallec, Patrick; et al., 93f:65084**

Rogers, T. G. (*with* Bradford, I. D. R.; England, A. H.) Finite plane deformations of highly anisotropic elastic-plastic plates and shells. (English summary) **93i:73032**

Roseman, Joseph J. *see* **Shenker, Yevgeni, 93m:73006**

Rougée, P. A new Lagrangian intrinsic approach to large deformations in continuous media. **93a:73003**

— Kinematics of finite deformations. **93g:73002**

Rudev, A. N. *see* **Zubov, L. M., 93k:73020**

Russo, Remigio *see* **Maremonti, Paolo, (93g:00030)**

Samsonov, A. M. Deformation waves in non-linearly elastic inhomogeneous wave guides. **93a:73028**

Shenker, Yevgeni (*with* Roseman, Joseph J.) On the Saint-Venant principle in the case of infinite energy. (English summary) **93m:73006**

Shi, Jingyu Deformations of planar networks of elastic cords onto a surface of revolution.

— *see also* **Hart, V. G., 93i:73038** *and* **93m:73018**

Simo, Juan C. The (symmetric) Hessian for geometrically nonlinear models in solid mechanics: intrinsic definition and geometric interpretation. **93a:73065**

— (*with* Armero, F.) Geometrically nonlinear enhanced strain mixed methods and the method of incompatible modes. **93a:73082**

— (*with* Rifai, M. S.; Fox, D. D.) On a stress resultant geometrically exact shell model. VI. Conserving algorithms for nonlinear dynamics. **93e:73027**

— *see also* **Fox, D. D., 93c:73068**

Spector, Scott J. *see* **James, Richard Dana, 93d:73059**

Sporykhin, A. N. (*with* Novikov, N. A.) ★ Комбинированный подход Эйлера-Лагранжа в механике сплошной среды. (Russian) [The combined Euler-Lagrange approach in continuum mechanics] **93g:73115**

Şuhubi, Erdoğan S. Similarity solutions for one-dimensional nonlinear elastodynamics. (English summary) (*see* **93g:00030**)

Tao, L. (*with* Rajagopal, K. R.) On an inhomogeneous deformation of an isotropic compressible elastic material. (English summary) **93f:73030**

Trimarco, Carmine *see* **Maugin, Gérard A., 93f:73029**
Trotsenko, V. A. *see* **Kladinoga, V. S., 93k:73060**
Wang, Chao Chen *see* **Cohen, Harley, 93e:73011**
Weichert, D. *see* **Başar, Y., 93a:73060**
Wempner, Gerald The complementary potentials of elasticity, extremal properties, and associated functionals. **93g:73116**
Yamada, Takahiro (*with* Kikuchi, Fumio) An arbitrary Lagrangian-Eulerian finite element method for incompressible hyperelasticity. (English summary) **93i:73056**
Yau, Shing-Tung (*with* Gao, Yang) Obstacle problem for von Kármán equations. **93b:73027**
Zhang, J. P. (*with* Rajagopal, K. R.) Some inhomogeneous motions and deformations within the context of a nonlinear elastic solid. **93e:73013**
— *see also* **Rajagopal, K. R., 93i:73017**
Zheng, Quan Shui (*with* Huang, Ke Zhi) On Cauchy's mean rotation. (English summary) **93c:73021**
Zubov, L. M. (*with* Rudev, A. N.) An efficient method for testing the Hadamard condition for a non-linearly elastic compressible medium. (Russian. Russian summary) **93k:73020**
— *see also* **Eremeev, V. A., 93c:73011** *and* **93j:73018**

73G20 Finite plasticity

Casey, James (*with* Naghdi, P. M.) A prescription for the identification of finite plastic strain. (English summary) **93i:73029**
Dafalias, Y. F. *see* **Loret, Benjamin; et al.**
Fosdick, Roger (*with* Volkmann, Eric) Normality and convexity of the yield surface in nonlinear plasticity. (English summary) **93m:73013**
Hammoum, F. *see* **Loret, Benjamin; et al.**
Havner, K. S. ★ Finite plastic deformation of crystalline solids. **93e:73017**
Le Khanh Chau *see* **Stumpf, Helmut, 93k:73043**
Loret, Benjamin (*with* Hammoum, F.; Dafalias, Y. F.) Computational aspects of large elastoplastic deformations in the presence of anisotropy and plastic spin. (English summary)
Mróz, Z. *see* **Raniecki, B., 93h:73022**
Naghdi, P. M. (*with* Srinivasa, A. R.) On the dynamical theory of rigid-viscoplastic materials. (English summary) **93m:73014**
— *see also* **Casey, James, 93i:73029**
Nemat-Nasser, Sia Phenomenological theories of elastoplasticity and strain localization at high strain rates. **93a:73050**
Petryk, H. (*with* Thermann, K.) On discretized plasticity problems with bifurcations. **93d:73043**
Raniecki, B. (*with* Mróz, Z.) On the strain-induced anisotropy and texture in rigid-plastic solids. **93h:73022**
Simo, Juan C. Algorithms for static and dynamic multiplicative plasticity that preserve the classical return mapping schemes of the infinitesimal theory. (English summary) **93f:73056**
Srinivasa, A. R. *see* **Naghdi, P. M., 93m:73014**
Stumpf, Helmut (*with* Le Khanh Chau) Variational formulation of the crack problem for an elastoplastic body at finite strain. (English, German and Russian summaries) **93k:73043**
Thermann, K. *see* **Petryk, H., 93d:73043**
Volkmann, Eric *see* **Fosdick, Roger, 93m:73013**
Zbib, H. M. On the mechanics of large inelastic deformations: kinematics and constitutive modeling. (English summary) **93j:73039**

Items with secondary classifications in 73G20

Bathe, Klaus-Jürgen *see* **Eterovic, A. L., 93d:73067**
Eterovic, A. L. (*with* Bathe, Klaus-Jürgen) On large strain elastoplastic analysis with frictional contact conditions. **93d:73067**
Kennedy, J. G. *see* **Simo, Juan C., 93e:73026**
Li, Y.-F. *see* **Nemat-Nasser, Sia, 93f:73110** *and* **93k:73085**
Lucchesi, M. (*with* Owen, David Ross; Podio-Guidugli, Paolo) Materials with elastic range: a theory with a view toward applications. III. Approximate constitutive relations. **93a:73046**
Meschke, G. *see* **Simo, Juan C., 93k:73086**
Morland, L. W. Compaction and shear settlement of granular materials. (English summary) **93k:73036**
Nemat-Nasser, Sia (*with* Li, Y.-F.) A new explicit algorithm for finite-deformation elastoplasticity and elastoviscoplasticity: performance evaluation. (English summary) **93f:73110**
— (*with* Li, Y.-F.) Errata: "A new explicit algorithm for finite-deformation elastoplasticity and elastoviscoplasticity: performance evaluation" [Comput. & Structures **44** (1992), no. 5, 937–963; MR 93f:73110]. **93k:73085**
Owen, David Ross *see* **Lucchesi, M.; et al., 93a:73046**
Podio-Guidugli, Paolo *see* **Lucchesi, M.; et al., 93a:73046**
Rougée, P. A new Lagrangian intrinsic approach to large deformations in continuous media. **93a:73003**
Simo, Juan C. (*with* Kennedy, J. G.) On a stress resultant geometrically exact shell model. V. Nonlinear plasticity: formulation and integration algorithms. **93e:73026**
— (*with* Meschke, G.) A new class of algorithms for classical plasticity extended to finite strains. Application to geomaterials. (English summary) **93k:73086**

73G25 Finite viscoelasticity

Baranger, Jacques (*with* Sandri, D.) A formulation of Stokes's problem and the linear elasticity equations suggested by the Oldroyd model for viscoelastic flow. (French summary) **93a:73051**
Chiroiu, Veturia *see* **Nicolae, V.**
Nicolae, V. (*with* Chiroiu, Veturia) Study of the small deformations of a viscoelastic body in finite rototranslatory motion. (Romanian)
Sandri, D. *see* **Baranger, Jacques, 93a:73051**

Items with secondary classifications in 73G25

Fichera, Gaetano On elastic materials with memory. (Italian. English summary) **93a:73035**
Li, Y.-F. *see* **Nemat-Nasser, Sia, 93f:73110** *and* **93k:73085**
Nečas, Jindřich (*with* Růžička, Michael) Global solution to the incompressible viscous-multipolar material problem. (English summary) **93g:73007**
Nemat-Nasser, Sia (*with* Li, Y.-F.) A new explicit algorithm for finite-deformation elastoplasticity and elastoviscoplasticity: performance evaluation. (English summary) **93f:73110**
— (*with* Li, Y.-F.) Errata: "A new explicit algorithm for finite-deformation elastoplasticity and elastoviscoplasticity: performance evaluation" [Comput. & Structures **44** (1992), no. 5, 937–963; MR 93f:73110]. **93k:73085**
Růžička, Michael *see* **Nečas, Jindřich, 93g:73007**

73G99 None of the above, but in this section

Items with secondary classifications in 73G99

Blandford, George E. *see* **Chen, Hong, 93k:73084**
Chen, Hong (*with* Blandford, George E.) Work-increment-control method for nonlinear analysis. (English summary) **93k:73084**

73Hxx Stability (linear and nonlinear)

73H05 Buckling

Aizengendler, P. G. On the bifurcation of the equilibrium positions of plates. (Russian) **93k:73044**
— Imperfections and bifurcations of forms of equilibrium of a rod under longitudinal compression and torsion. (Russian) **93m:73015**
Antman, Stuart S. (*with* Marlow, Randall Scot) Transcritical buckling of columns. **93e:73018**
Bonadies, Manuelita Barrelling and buckling instabilities of elastic rods. **93a:73052**
Ikeda, Kiyohiro *see* **Murota, Kazuo, 93j:73040**
Léger, A. (*with* Potier-Ferry, M.) Elastic-plastic post-buckling from a heterogeneous state. (English summary) **93m:73016**
Marlow, Randall Scot *see* **Antman, Stuart S., 93e:73018**
Murota, Kazuo (*with* Ikeda, Kiyohiro) On random imperfections for structures of regular-polygonal symmetry. (English summary) **93j:73040**
Peek, Ralf *see* **Triantafyllidis, Nicolas, 93c:73052**
Potier-Ferry, M. *see* **Léger, A., 93m:73016**
Ren, Wen Min *see* **Wu, Yi[2]; et al., 93j:73041**
Spencer, A. J. M. (*with* Watson, P.) Buckling of laminated anisotropic plates under cylindrical bending. (English summary) **93i:73030**
Triantafyllidis, Nicolas (*with* Peek, Ralf) On stability of the worst imperfection shape in solids with nearly simultaneous eigenmodes. **93c:73052**
Watson, P. *see* **Spencer, A. J. M., 93i:73030**
Wu, Yi[2] (*with* Ren, Wen Min; Zhang, Wei[2]) Perturbation formulation of continuation method including limit and bifurcation points. (Chinese. English and Chinese summaries) **93j:73041**
Zhang, Wei[2] *see* **Wu, Yi[2]; et al., 93j:73041**

Items with secondary classifications in 73H05

Babenko, V. I. *see* **Pogorelov, A. V., 93g:73089**
Bradford, I. D. R. (*with* England, A. H.; Rogers, T. G.) Finite deformations of a fibre-reinforced cantilever: point-force solutions. **93a:73041**
Chen, Yi-Chao *see* **MacSithigh, Gearoid P., 93g:73068** *and* **93g:73069**
Cheng, Chang Jun (*with* Yang, Xiao) The existence of buckled states on a perforated thin plate. (Chinese. English and Chinese summaries)
Cottle, Richard W. (*with* Yao, Jen Chih) Pseudo-monotone complementarity problems in Hilbert space. (English summary) **93i:47098**
Cox, Steven J. (*with* Overton, Michael L.) On the optimal design of columns against buckling. **93d:73052**
Damil, N. (*with* Potier-Ferry, M.) Amplitude equations for cellular instabilities. **93k:35242**
Degiovanni, Marco Bifurcation for odd nonlinear elliptic variational inequalities. (English and French summaries) **93m:58021**
De Roeck, Yann-Hervé (*with* Le Tallec, Patrick; Vidrascu, Marina) A domain-decomposed solver for nonlinear elasticity. (English summary) **93g:73109**
Domokos, G. Taylor approximation of operators with discrete rotational symmetry. **93f:58022**
Drozdov, A. D. (*with* Kolmanovskii, V. B.) Stochastic stability of viscoelastic bars. **93a:73032**
Elgindi, M. B. M. (*with* Yen, D. H. Y.) On the existence of equilibrium states of an elastic beam on a nonlinear foundation. (English summary) **93k:73047**
England, A. H. *see* **Bradford, I. D. R.; et al., 93a:73041**
Fan, Jia Rang (*with* Zhang, Ju Yong) Exact solutions for thick laminated shells. (English summary)
Frantsuzov, S. B. *see* **Kondrashkov, A. V., 93f:73077**
Ganeeva, M. S. ★ Прочность и устойчивость оболочек вращения. (Russian. English and Russian summaries) [Strength and stability of shells of revolution] **93g:73088**
Green, W. A. (*with* Shi, Jingyu) Degenerate deformations and uniqueness in highly elastic networks. (English summary) **93g:73065**
Kawohl, Bernhard (*with* Levine, Howard A.; Velte, Waldemar) Buckling eigenvalues for a clamped plate embedded in an elastic medium and related questions. (English summary) **93j:35121**
Kolmanovskii, V. B. *see* **Drozdov, A. D., 93a:73032**
Kondrashkov, A. V. (*with* Frantsuzov, S. B.) A plane problem on the strong bending of an elastic curvilinear rod. (Russian. English and Ukrainian summaries) **93f:73077**
Le Tallec, Patrick *see* **De Roeck, Yann-Hervé; et al., 93g:73109**
Levine, Howard A. *see* **Kawohl, Bernhard; et al., 93j:35121**

MacSithigh, Gearoid P. (*with* Chen, Yi-Chao) Bifurcation and stability of an incompressible elastic body under homogeneous dead loads with symmetry. I. General isotropic materials. (English summary) **93g:73068**
— (*with* Chen, Yi-Chao) Bifurcation and stability of an incompressible elastic body under homogeneous dead loads with symmetry. II. Mooney-Rivlin materials. (English summary) **93g:73069**
Nguyễn Xuân Tấn Local bifurcation from characteristic values with finite multiplicity and its application to axisymmetric buckled states of a thin spherical shell. **93h:47072**
Nosier, A. (*with* Reddy, J. N.) On vibration and buckling of symmetric laminated plates according to shear deformation theories. I, II. **93g:73078**
Overton, Michael L. *see* **Cox, Steven J., 93d:73052**
Pastrone, Franco Torsional instabilities of Greenhill type in elastic rods. (English summary) **93h:73023**
Pogorelov, A. V. On the lower limit of a critical load under axial compression of a cylindrical shell. (Russian) **93k:73063**
— (*with* Babenko, V. I.) Geometric methods in the theory of stability of thin shells (a survey). (Russian. English and Ukrainian summaries) **93g:73089**
Potier-Ferry, M. *see* **Damil, N., 93k:35242**
Reddy, J. N. *see* **Nosier, A., 93g:73078**
Rogers, T. G. *see* **Bradford, I. D. R.; et al., 93a:73041**
Rosati, Mario Valerio A nonlinear eigenvalue problem governing the eversion of elastic spherical caps. **93a:47084**
Schmidt, Robert Improved bounds for buckling loads and fundamental frequencies. **93j:73053**
Schuricht, Friedemann Bifurcation from minimax solutions by variational inequalities. **93c:47078**
Shi, Jingyu *see* **Green, W. A., 93g:73065**
Tavener, Simon J. Symmetric and nonsymmetric equilibria of a rod-and-spring model. (English summary) **93e:34054**
Velte, Waldemar *see* **Kawohl, Bernhard; et al., 93j:35121**
Vidrascu, Marina *see* **De Roeck, Yann-Hervé; et al., 93g:73109**
Yang, Xiao *see* **Cheng, Chang Jun**
Yao, Jen Chih *see* **Cottle, Richard W., 93i:47098**
Yen, D. H. Y. *see* **Elgindi, M. B. M., 93k:73047**
Zhang, Ju Yong *see* **Fan, Jia Rang**

73H10 Dynamic stability

Aizengendler, P. G. On the bifurcation of the equilibrium forms of a rod under rotation and axial compression. (Russian) **93k:73045**
An, Lian Jun (*with* Schaeffer, David G.) The flutter instability in granular flow. **93c:73053**
Drozdov, A. D. (*with* Kolmanovskiĭ, V. B.) The stability of viscoelastic rods under a random longitudinal load. (Russian) **93e:73019**
Kolmanovskiĭ, V. B. *see* **Drozdov, A. D., 93e:73019**
Ly, B. L. Symmetrization of some conservative systems of the second kind. **93e:73020**
Potapov, V. D. Stability of a viscoelastic rod under a random stationary longitudinal force. (Russian) **93c:73054**
Schaeffer, David G. *see* **An, Lian Jun, 93c:73053**

Items with secondary classifications in 73H10

Ariaratnam, S. T. (*with* Xie, Wei Chau) Lyapunov exponents in stochastic structural dynamics. (English summary) **93f:73063**
Chaĭkin, S. V. Relative equilibrium positions on a circular orbit of a flexible satellite and their stability. (Russian. Russian summary) **93g:70030**
Dall'Asta, A. (*with* Menditto, G.) Perturbed motion of viscoelastic columns: a variational approach. (English summary) **93i:73026**
Ditkin, V. V. On a hydrodynamic load on a vibrating wall of a cylindrical shell. (Russian) **93k:73065**
Drozdov, A. D. Stability of viscoelastic beams under the action of follower forces. (English summary) **93j:73044**
Furta, Stanislav D. On the instability of "folded" equilibria of a flexible nonstretchable thread attached to the satellite in a circular orbit. **93b:70029**
Giorgi, Claudio (*with* Lazzari, Barbara) Uniqueness and stability in linear viscoelasticity: some counterexamples. (English summary) **93i:73027**
Gutowski, Roman Investigation of the stability of tranversal vibrations of a nonlinear string by the method of differential inequalities. (English summary) (*see* **93g:00030**)
Guz', A. N. (*with* Kabelka, I.; Markush, Sh.; et al.) ★ Динамика и устойчивость слоистых композитных материалов. (Russian. Russian summary) [Dynamics and stability of layered composite materials] **93g:73084**
Kabelka, I. *see* **Guz', A. N.; et al., 93g:73084**
Kalinnikov, V. G. Active damping of oscillations of a rotating linkage. (Russian. Russian summary) **93k:73059**
Kholostova, O. V. On the stability of a particular motion of a rigid body with an elastoviscous membrane on a circular orbit. (Russian) **93d:70012**
Kounadis, A. N. (*with* Simitses, G. J.) Local (classical) and global bifurcations in nonlinear, nongradient autonomous dissipative structural systems. (English summary) **93m:73024**
— *see also* **Mahrenholtz, O., 93m:73025**
Krätzig, W. B. (*with* Li, L. Y.; Nawrotzki, P.) Stability conditions for nonconservative dynamical systems. (English summary) **93f:73066**
Lazzari, Barbara *see* **Giorgi, Claudio, 93i:73027**
Li, L. Y. *see* **Krätzig, W. B.; et al., 93f:73066**
Mahrenholtz, O. (*with* Kounadis, A. N.) On the relation of static to dynamic bifurcation in nonlinear autonomous dissipative or nondissipative structural systems. (English and German summaries) **93m:73025**
Markush, Sh. *see* **Guz', A. N.; et al., 93g:73084**
Menditto, G. *see* **Dall'Asta, A., 93i:73026**
Nawrotzki, P. *see* **Krätzig, W. B.; et al., 93f:73066**
Planchard, J. (*with* Thomas, B.) Stabilité dynamique en interaction fluide-structure. (English summary) [Dynamical stability in fluid-structure interaction] **93b:73030**
Rao, Bopeng Stabilisation uniforme d'un système hybride en élasticité. (English and French summaries) [Uniform stabilization of a hybrid system in elasticity] **93m:73029**
Rogol, S. L. *see* **Sinenko, N., (93e:60006)**
Sallet, Gauthier *see* **Xu, Cheng-Zhong, (93i:93005)**
Simitses, G. J. *see* **Kounadis, A. N., 93m:73024**
Sinenko, N. (*with* Rogol, S. L.) On exponential 2*p*-stability of the beam under longitudinal perturbations. (English and Latvian summaries) (*see* **93e:60006**)
Thomas, B. *see* **Planchard, J., 93b:73030**
Villaggio, Piero The equilibrium shapes of earth masses. (English summary) **93g:73100**
Xie, Wei Chau *see* **Ariaratnam, S. T., 93f:73063**
Xu, Cheng-Zhong (*with* Sallet, Gauthier) Boundary stabilization of rotating flexible systems. (English summary) (*see* **93i:93005**)
You, Yun Cheng Inertial manifolds and stabilization in nonlinear elastic systems with structural damping. (English summary) **93k:35260**

73H99 None of the above, but in this section

Items with secondary classifications in 73H99

Ames, K. A. (*with* Payne, L. E.) Stabilizing solutions of the equations of dynamical linear thermoelasticity backward in time. **93f:35231**
Barber, J. R. *see* **Zhang, Ronggang, 93k:73076**
Björkman, Gunnar Path following and critical points for contact problems. (English summary) **93f:73092**
Chernyavskiĭ, V. M. (*with* Shtemler, Yu. M.) Stability of Couette flow between free cylinders with allowance for self-gravitation. (Russian) **93b:76034**
Cohen, Harley (*with* MacSithigh, Gearoid P.) Symmetric and asymmetric rotodeformations of a symmetrical, isotropic, elastic pseudo-rigid body. (English summary) **93g:73023**
Davydov, M. G. On an energy criterion for the stability of the elastoplastic deformation process. (Russian. Russian summary) (*see* **93m:00017**)
Dement'ev, O. N. (*with* Karas', E. V.) Stability of the stretching of a rectangular band. (Russian) **93g:73059**
Fabrizio, Mauro Stability properties for systems with memory. (Italian. English summary) **93a:73033**
Fried, Eliot Stability of a two-phase process involving a planar phase boundary in a thermoelastic solid. **93d:73011**
Karas', E. V. *see* **Dement'ev, O. N., 93g:73059**
Leroy, Yves M. (*with* Molinari, Alain) Spatial patterns and size effects in shear zones: a hyperelastic model with higher-order gradients. (English summary) **93k:73041**
Loret, Benjamin Does deviation from deviatoric associativity lead to the onset of flutter instability? (English summary) **93i:73024**
MacSithigh, Gearoid P. *see* **Cohen, Harley, 93g:73023**
Molinari, Alain *see* **Leroy, Yves M., 93k:73041**
Murphy, Jeremiah G. Some new closed-form solutions describing spherical inflation in compressible finite elasticity. **93a:73047**
Ogden, R. W. Nonlinear elasticity: incremental equations and bifurcation phenomena. **93d:73028**
Payne, L. E. *see* **Ames, K. A., 93f:35231**
Petryk, H. (*with* Thermann, K.) On discretized plasticity problems with bifurcations. **93d:73043**
— Material instability and strain-rate discontinuities in incrementally nonlinear continua. (English summary) **93f:73047**
Shilkrut, D. Stability of equilibrium states of nonlinear structures and chaos phenomenon. Chaos in statics? (English summary) **93g:73079**
Shtemler, Yu. M. *see* **Chernyavskiĭ, V. M., 93b:76034**
Simo, Juan C. The (symmetric) Hessian for geometrically nonlinear models in solid mechanics: intrinsic definition and geometric interpretation. **93a:73065**
Thermann, K. *see* **Petryk, H., 93d:73043**
Zhang, Ronggang (*with* Barber, J. R.) Transient thermoelastic contact and stability of two thin-walled cylinders. (English summary) **93k:73076**

73Kxx Mechanics of structures

Argyris, John (*with* Mlejnek, Hans-Peter) ★ Dynamics of structures. **93c:73055**
Buttazzo, Giuseppe Thin structures in elasticity: the variational method. (Italian summary) **93c:73056**
Doyle, James F. ★ Static and dynamic analysis of structures. **93i:73031**
Mlejnek, Hans-Peter *see* **Argyris, John, 93c:73055**

Items with secondary classifications in 73Kxx

Babuška, Ivo M. *see* **Szabo, Barna A., 93f:73001**
Imbert, J.-F. ★ Analyse des structures par éléments finis. (French) [Finite-element analysis of structures]
Szabo, Barna A. (*with* Babuška, Ivo M.) ★ Finite element analysis. **93f:73001**

Items listed otherwise than by author

Kraków ★ Bericht über die Wissenschaftliche Jahrestagung der GAMM. (German) [Proceedings of the Annual Scientific Meeting of the GAMM] **93b:00034**
Meeting:
GAMM ★ Bericht über die Wissenschaftliche Jahrestagung der GAMM. (German) [Proceedings of the Annual Scientific Meeting of the GAMM] **93b:00034**
Proceedings:
Meeting of the GAMM ★ Bericht über die Wissenschaftliche Jahrestagung der GAMM. (German) [Proceedings of the Annual Scientific Meeting of the GAMM] **93b:00034**

73K03 Strings

Bajaj, A. K. (*with* Johnson, J. M.) On the amplitude dynamics and crisis in resonant motion of stretched strings. **93a:73053**

Johnson, J. M. *see* **Bajaj, A. K., 93a:73053**
Sarkisyan, S. V. On a problem of the vibration of a nonhomogeneous string. (Russian. English and Armenian summaries) **93b:73025**

Items with secondary classifications in 73K03

Acerbi, Emilio (*with* Buttazzo, Giuseppe; Percivale, Danilo) A variational definition of the strain energy for an elastic string. **93c:73025**
Buttazzo, Giuseppe *see* **Acerbi, Emilio; et al., 93c:73025**
Feireisl, Eduard Spatially localized free vibrations for a nonlinear string model. **93h:35197**
Holmes, Philip J. A degenerate Hamiltonian system and a slow flow with jumps. **93a:70017**
Lí, Da Qian (*with* Serre, Denis; Zhang, Hao) The generalized Riemann problem for the motion of elastic strings. (English summary) **93k:35168**
Nuriev, B. R. Rate-dependent behaviour of flexible cables under the high velocity impact by a cone. (English and Turkish summaries) **93m:73009**
Percivale, Danilo *see* **Acerbi, Emilio; et al., 93c:73025**
Serre, Denis *see* **Lí, Da Qian; et al., 93k:35168**
Silli, Carlo Some observations about the energy-conservation law in one-dimensional continua. (Italian. English and Italian summaries) **93j:73015**
Souza de Cursi, José Eduardo Un problème issu de l'étude numérique d'un fil sans raideur soumis au frottement sec. (English and French summaries) [A problem in the numerical study of a string subject to Coulomb friction] **93m:73036**
Zhang, Hao *see* **Lí, Da Qian; et al., 93k:35168**

73K05 Beams, columns, rods

Alvarez-Dios, J. A. (*with* Viaño Rey, Juan M.) An asymptotic theory of bending and torsion for nonhomogeneous anisotropic elastic beams. (Spanish. Spanish summary) (*see* **93j:00009**)
Álvarez Vázquez, L. J. (*with* Viaño Rey, Juan M.) Asymptotic derivation of a linear thermoelastic evolution model for beams. (Spanish. Spanish summary) (*see* **93j:00009**)
— (*with* Viaño Rey, Juan M.) Asymptotic justification of an evolution model for nonlinear elastic beams. (Spanish. Spanish summary) (*see* **93j:00009**)
Arosio, Alberto (*with* Panizzi, Stefano; Paoli, Maria Gabriella) Inhomogeneous Timoshenko beam equations. (English summary) **93j:73042**
Atanacković, Teodor M. *see* **Djukić, Djordje S., 93c:73060**
Aufranc, Martial Junctions between three-dimensional and two-dimensional non-linearly elastic structures. **93a:73054**
Azizova, A. A. (*with* Kuznetsov, A. O.; Loginov, B. V.) The method of group transformations in computations of the bending forms of rods. (Russian) **93c:73057**
Bolle, Norman A. *see* **Koenig, Herbert A., 93k:73049**
Capodanno, Pierre Quelques remarques sur un problème de G. Fubini. (English and Italian summaries) [Some remarks on a problem of G. Fubini] **93j:73043**
Cheng, De Lin *see* **Xu, Ming Tian; et al., (93b:65008)**
Chirehdast, M. (*with* Papalambros, P. Y.) A note on automated detection of mobility of skeletal structures. (English summary) **93g:73072**
Cohen, Harley On wave propagation and evolution in rods. **93e:73021**
— (*with* Sun, Q.-X.) A further work on directed rods. **93c:73058**
Coleman, Bernard D. (*with* Dill, Ellis Harold; Lembo, Marzio; Lu, Zheng; Tobias, Irwin) On the dynamics of rods in the theory of Kirchhoff and Clebsch. **93k:73046**
Davì, Fabrizio The theory of Kirchhoff rods as an exact consequence of three-dimensional elasticity. (English summary) **93g:73073**
Devloo, Philippe R. (*with* Faria, Luis) Discretization vs modelling error for a class of beam elements. (English and Portuguese summaries) **93c:73059**
Dill, Ellis Harold *see* **Coleman, Bernard D.; et al., 93k:73046**
Djukić, Djordje S. (*with* Atanacković, Teodor M.) Extremum variational principle for an inextensible rotating rod. (English summary) **93c:73060**
Drozdov, A. D. Stability of viscoelastic beams under the action of follower forces. (English summary) **93j:73044**
Elgindi, M. B. M. (*with* Yen, D. H. Y.) On the existence of equilibrium states of an elastic beam on a nonlinear foundation. (English summary) **93k:73047**
Faria, Luis *see* **Devloo, Philippe R., 93c:73059**
Figueiredo, Isabel M. N. (*with* Trabucho, L.) A Galerkin approximation for curved beams. (English summary) **93k:73048**
Huang, Hsin Fêng Analysis of large deformation of loading [a loaded] cantilever. **93d:73044**
Kaveh, A. ★ Structural mechanics: graph and matrix methods. **93g:73074**
Koenig, Herbert A. (*with* Bolle, Norman A.) Nonlinear formulation for elastic rods in three-space. (English summary) **93k:73049**
Kuznetsov, A. O. *see* **Azizova, A. A.; et al., 93c:73057**
Lembo, Marzio *see* **Coleman, Bernard D.; et al., 93k:73046**
Loginov, B. V. *see* **Azizova, A. A.; et al., 93c:73057**
Lu, Zheng *see* **Coleman, Bernard D.; et al., 93k:73046**
Marin, M. Relaxed Saint-Venant problem for a bar with its cross-section by conics limited. (English and Romanian summaries)
Mascarenhas, M. L. (*with* Trabucho, L.) Asymptotic, homogenization and Galerkin methods in three-dimensional beam theory. (English summary) (*see* **93j:00008**)
Panizzi, Stefano *see* **Arosio, Alberto; et al., 93j:73042**
Paoli, Maria Gabriella *see* **Arosio, Alberto; et al., 93j:73042**
Papalambros, P. Y. *see* **Chirehdast, M., 93g:73072**
Pastrone, Franco Torsional instabilities of Greenhill type in elastic rods. (English summary) **93h:73023**
Rychter, Zenon A family of shear-deformation beam theories and a refined Bernoulli-Euler theory. (English summary) **93m:73017**
Sun, Q.-X. *see* **Cohen, Harley, 93c:73058**
Tobias, Irwin *see* **Coleman, Bernard D.; et al., 93k:73046**
Trabucho, L. *see* **Figueiredo, Isabel M. N., 93k:73048** *and* **Mascarenhas, M. L., (93j:00008)**
Viaño Rey, Juan M. *see* **Alvarez-Dios, J. A., (93j:00009); Álvarez Vázquez, L. J., (93j:00009)** *and* **(93j:00009)**
Xu, Ming Tian (*with* Zhou, Xue Sheng; Cheng, De Lin) The integral equation method for solving the vibration problems of beams with elastical supports. (*see* **93b:65008**)
Yen, D. H. Y. *see* **Elgindi, M. B. M., 93k:73047**
Zhou, Xue Sheng *see* **Xu, Ming Tian; et al., (93b:65008)**

Items with secondary classifications in 73K05

Abeyaratne, Rohan (*with* Knowles, James K.) Wave propagation in linear, bilinear and trilinear elastic bars. **93g:73047**
Achtziger, W. (*with* Bendsøe, M.; Ben-Tal, A.; Zowe, Jochem) Equivalent displacement based formulations for maximum strength truss topology design. (English summary) **93j:73057**
Aizengendler, P. G. On the bifurcation of the equilibrium forms of a rod under rotation and axial compression. (Russian) **93k:73045**
— Imperfections and bifurcations of forms of equilibrium of a rod under longitudinal compression and torsion. (Russian) **93m:73015**
Akulenko, L. D. (*with* Kostin, G. V.) The perturbation method in problems of the dynamics of nonuniform elastic rods. (Russian. Russian summary) **93j:73051**
Álvarez Vázquez, L. J. (*with* Viaño Rey, Juan M.) Asymptotic derivation of an evolution thermoelastic model for linear rods. (English summary) **93k:73007**
Antman, Stuart S. (*with* Marlow, Randall Scot) Material constraints, Lagrange multipliers, and compatibility. Applications to rod and shell theories. **93c:73026**
— (*with* Marlow, Randall Scot) Transcritical buckling of columns. **93e:73018**
Arosio, Alberto (*with* Natalini, Roberto; Panizzi, Stefano; Paoli, Maria Gabriella) Fourth order abstract evolution equations. (English summary) (*see* **93d:35003**)
Banks, H. T. (*with* Rebnord, D. A.) Analytic semigroups: applications to inverse problems for flexible structures. **93h:35206**
Bell, James F. The late twentieth-century resolution of a mid-nineteenth-century dilemma generated by the eighteenth-century experiments of Ernst Chladni on the dynamics of rods. **93d:01025**
Bendsøe, M. *see* **Achtziger, W.; et al., 93j:73057**
Ben-Tal, A. *see* **Achtziger, W.; et al., 93j:73057**
Bérété, S. *see* **Sanchez-Hubert, J.; et al., 93i:73039**
Bonadies, Manuelita Barrelling and buckling instabilities of elastic rods. **93a:73052**
Bontsema, Jan (*with* Curtain, Ruth F.; Kuiper, C. R.; Osinga, H. M.) Comparison of robustly stabilizing controllers for a flexible beam model with additive, multiplicative and stable factor perturbations. (English summary) (*see* **93i:93005**)
Bradford, I. D. R. (*with* England, A. H.; Rogers, T. G.) Finite deformations of a fibre-reinforced cantilever: point-force solutions. **93a:73041**
— *see also* **England, A. H.; et al., 93k:73039**
Chèng, Kuo Shun (*with* Hsü, Shih Pi; Huang, Hsin Fêng) On the singular behavior of the solution of $v''(x) + x \sin v(x) = 0$. **93b:34011**
Chinosi, C. (*with* Sacchi Landriani, Giovanni; Scapolla, T.) A hierarchic family of conforming finite elements for the solution of plate bending problems. (English summary) (*see* **93d:65005**)
Chiorescu, Gh. Symmetries in the linear thermoelasticity of the directed rods. (Romanian summary)
(Chladni, Ernst) *see* **Bell, James F., 93d:01025**
Cioranescu, Doïna (*with* Saint Jean Paulin, J.) Mathematical study of large space structures. **93f:73009**
Coleman, Bernard D. (*with* Dill, Ellis Harold) Flexure waves in elastic rods. **93b:73028**
Coleman, Matthew P. (*with* Wang, Han Kun) Analysis of vibration spectrum of a Timoshenko beam with boundary damping by the wave method. (English summary)
Conrad, Francis (*with* Leblond, Juliette; Marmorat, Jean-Paul) Energy decay estimates for a beam with nonlinear boundary feedback. (English summary) (*see* **93c:93006**)
Cox, Steven J. (*with* Overton, Michael L.) On the optimal design of columns against buckling. **93d:73052**
Curtain, Ruth F. *see* **Bontsema, Jan; et al., (93i:93005)**
Demkowicz, Leszek *see* **Kuczma, M. S., 93h:73033**
Denisov, G. G. (*with* Kugusheva, E. K.; Novikov, V. V.) A problem on the dynamics of viscoelastic systems with moving boundaries. (Russian) **93c:73043**
Dill, Ellis Harold Kirchhoff's theory of rods. **93e:73001**
— *see also* **Coleman, Bernard D., 93b:73028**
Drozdov, A. D. (*with* Kolmanovskiĭ, V. B.) The stability of viscoelastic rods under a random longitudinal load. (Russian) **93e:73019**
— (*with* Kolmanovskiĭ, V. B.) Stochastic stability of viscoelastic bars. **93a:73032**
England, A. H. (*with* Rogers, T. G.; Bradford, I. D. R.) Finite deformations of a fibre-reinforced cantilever: distributed-load solutions. (English summary) **93k:73039**
— *see also* **Bradford, I. D. R.; et al., 93a:73041**
Ergashov, M. Investigation of processes of elastic wave propagation in winding connections taking into account the effects of their rotation and stretching. (Russian) **93d:73035**
Ermolaev, B. V. The use of generalized functions in a problem on elastic oscillations of a composite rod. (Russian. Russian summary) **93k:73058**
Esfandiari, Ramin S. (*with* Sadek, Ibrahim S.) Optimal open/closed-loop control of a Rayleigh beam. (English summary)
Feireisl, Eduard (*with* Herrmann, Leopold) Oscillations of a non-linearly damped extensible beam. (English summary) **93k:35013**
— The monotonicity method and free vibrations of extensible beams. **93b:35092**
Filimonov, A. M. (*with* Kurchanov, P. F.; Myshkis, A. D.) Some unexpected results in the classical problem of vibrations of the string with n beads when n is large. (French summary) **93a:73026**
Frischmuth, K. (*with* Kosiński, Witold; Lekszycki, T.) Free vibrations of finite-memory material beams. (English summary) **93m:73022**
Geng, Di (*with* Qu, Chang Zheng) On nonlinear hyperbolic equation in unbounded domain. (Chinese. English summary) **93c:35104**
Golovatyĭ, Yu. D. Some inequalities for natural frequencies of rods and plates. (Russian) (*see* **93m:35006**)
Gruais, Isabelle Modélisation de la jonction entre une plaque et une poutre en élasticité linéarisée. (English and French summaries) [Modelling of the junction between a plate and a rod in linear elasticity] **93k:73050**
Gutowski, Roman Investigation of the stability of tranversal vibrations of a nonlinear string by the method of differential inequalities. (English summary) (*see* **93g:00030**)
Hannsgen, Kenneth B. (*with* Staffans, Olof J.; Wheeler, Robert L.) Rational approximation

of the transfer function of a viscoelastic rod. (English summary) (*see* **93i:93005**)
Healey, Timothy J. Large rotatory oscillations of transversely isotropic rods: spatio-temporal symmetry-breaking bifurcation. **93k:34032**
Herrmann, Leopold *see* **Feireisl, Eduard, 93k:35013**
Hsü, Shih Pi *see* **Chêng, Kuo Shun; et al., 93b:34011**
Huang, Hsin Fêng *see* **Chêng, Kuo Shun; et al., 93b:34011**
Ke, Huei Yaw *see* **Lee, Sen Yung, 93c:73030**
Kim, Jong Uhn On the energy decay of a linear thermoelastic bar and plate. **93f:35159**
Knops, R. J. Spatial decay estimates in the vibrating anisotropic elastic beam. (English summary) (*see* **93g:00030**)
Knowles, James K. *see* **Abeyaratne, Rohan, 93g:73047**
Kolmanovskiĭ, V. B. *see* **Drozdov, A. D., 93a:73032** *and* **93e:73019**
Kolomiets, V. G. (*with* Pritula, N. N.; Tsymbal, Victor N.) Asymptotic solution of a problem for a singularly perturbed equation that is of transverse-oscillations-of-a-rod type. (Russian. Russian summary) (*see* **93m:00016**)
Kosiński, Witold *see* **Frischmuth, K.; et al., 93m:73022**
Kostin, G. V. *see* **Akulenko, L. D., 93j:73051**
Krabs, W. ★ On moment theory and controllability of one-dimensional vibrating systems and heating processes. **93f:93002**
— Controllability of a rotating beam. (*see* **93i:93005**)
Kuczma, M. S. (*with* Demkowicz, Leszek) An adaptive algorithm for unilateral viscoelastic contact problems for beams and plates. (English summary) **93h:73033**
Kugusheva, E. K. *see* **Denisov, G. G.; et al., 93c:73043**
Kuiper, C. R. *see* **Bontsema, Jan; et al., (93i:93005)**
Kurchanov, P. F. *see* **Filimonov, A. M.; et al., 93a:73026**
Lagnese, John E. (*with* Leugering, G.) Uniform energy decay of a class of cantilevered nonlinear beams with nonlinear dissipation at the free end. **93e:35112**
Leblond, Juliette *see* **Conrad, Francis; et al., (93c:93006)**
Lee, Sen Yung (*with* Ke, Huei Yaw) Flexural wave propagation in an elastic beam with periodic structure. (English summary) **93c:73030**
Lekszycki, T. *see* **Frischmuth, K.; et al., 93m:73022**
Le Tallec, Patrick (*with* Mani, S.; Rochinha, F. A.) Finite element computation of hyperelastic rods in large displacements. (English and French summaries) **93f:65084**
Leugering, G. On control and stabilization of a rotating beam by applying moments at the base only. (English summary) (*see* **93b:49002**)
— A decomposition method for integro-partial differential equations and applications. (English summary) **93i:45012**
— *see also* **Lagnese, John E., 93e:35112**
Lods, Véronique Formulation mixte d'un problème de jonctions de poutres adaptée à la résolution d'un problème d'optimisation. (English summary) [A mixed formulation for a model of junctions of beams adapted to the solution of an optimization problem] **93g:73095**
Luo, En *see* **Yang, Yong, 93b:65020**
Mani, S. *see* **Le Tallec, Patrick; et al., 93f:65084**
Marlow, Randall Scot On the stress in an internally constrained elastic material. **93c:73027**
— *see also* **Antman, Stuart S., 93c:73026** *and* **93e:73018**
Marmorat, Jean-Paul *see* **Conrad, Francis; et al., (93c:93006)**
Maurer, H. (*with* Mittelmann, H. D.) The nonlinear beam via optimal control with bounded state variables. (English summary) **93h:49030**
Miara, Bernadette (*with* Trabucho, L.) A Galerkin spectral approximation in linearized beam theory. (French summary) **93b:65182**
Mittelmann, H. D. *see* **Maurer, H., 93h:49030**
Morgül, Ömer Dynamic boundary control of the Timoshenko beam. (English summary) **93i:93068**
Myshkis, A. D. *see* **Filimonov, A. M.; et al., 93a:73026**
Natalini, Roberto *see* **Arosio, Alberto; et al., (93d:35003)**
Novikov, V. V. *see* **Denisov, G. G.; et al., 93c:73043**
Ortner, Norbert (*with* Wagner, Peter[2]) On the fundamental solutions of the operators of S. Timoshenko and R. D. Mindlin. (English summary) **93k:35006**
Osinga, H. M. *see* **Bontsema, Jan; et al., (93i:93005)**
Overton, Michael L. *see* **Cox, Steven J., 93d:73052**
Panizzi, Stefano *see* **Arosio, Alberto; et al., (93d:35003)**
Paoli, Maria Gabriella *see* **Arosio, Alberto; et al., (93d:35003)**
Pereira, Ducival Carvalho (*with* Vieira, M. C. de Campos; Rabello, T. N.) Local solution of a mixed problem for a degenerated hyperbolic equation. **93h:34112**
Pham Duc Chinh Shakedown of bars subjected to cycles of loads and temperature. (English summary) **93k:73034**
Planchard, J. *see* **Sanchez-Hubert, J.; et al., 93i:73039**
Potapov, V. D. Stability of a viscoelastic rod under a random stationary longitudinal force. (Russian) **93c:73054**
Pritula, N. N. *see* **Kolomiets, V. G.; et al., (93m:00016)**
Qu, Chang Zheng *see* **Geng, Di, 93c:35104**
Rabello, T. N. *see* **Pereira, Ducival Carvalho; et al., 93h:34112**
Rebnord, D. A. *see* **Banks, H. T., 93h:35206**
Reddy, B. D. Mixed finite element methods for one-dimensional problems: a survey. (English summary) **93k:73081**
Reissner, E. On some ramifications of the center of shear problem. (English, German and Russian summaries) **93g:73035**
Rochinha, F. A. *see* **Le Tallec, Patrick; et al., 93f:65084**
Rogers, T. G. *see* **Bradford, I. D. R.; et al., 93a:73041** *and* **England, A. H.; et al., 93k:73039**
Sacchi Landriani, Giovanni *see* **Chinosi, C.; et al., (93d:65005)**
Sadek, Ibrahim S. *see* **Esfandiari, Ramin S.**
Saint Jean Paulin, J. *see* **Cioranescu, Doïna, 93f:73009**
Sanchez-Hubert, J. (*with* Bérété, S.; Planchard, J.) Spectral properties of an elastic rod-spring coupled system immersed in a fluid. (English summary) **93i:73039**
Scapolla, T. *see* **Chinosi, C.; et al., (93d:65005)**
Scarpini, F. The alternating Schwarz method applied to some biharmonic variational inequalities. **93c:65144**
Šenkyřík, Martin An existence theorem for a third-order three-point boundary value problem without growth restrictions. (English summary) **93j:34028**
Simo, Juan C. The (symmetric) Hessian for geometrically nonlinear models in solid mechanics: intrinsic definition and geometric interpretation. **93a:73065**
Sokołowski, Jan (*with* Sprekels, Jürgen) Dynamical shape control of nonlinear thin rods. (*see* **93b:49002**)
Song, Gu Quan *see* **Zheng, Quan Shui; et al., 93j:73054**
Sprekels, Jürgen Global existence of thermomechanical processes in nonlinear thin rods under velocity feedbacks. **93f:35230**
— *see also* **Sokołowski, Jan, (93b:49002)**
Staffans, Olof J. *see* **Hannsgen, Kenneth B.; et al., (93i:93005)**
Sweers, Guido On examples to a conjecture of de Saint Venant. **93d:35037**
Tavener, Simon J. Symmetric and nonsymmetric equilibria of a rod-and-spring model. (English summary) **93e:34054**
Tonon, Maria Luisa Decay of multiple waves in linearly elastic rods. (English summary) **93m:73011**
Trabucho, L. *see* **Miara, Bernadette, 93b:65182**
Tsymbal, Victor N. *see* **Kolomiets, V. G.; et al., (93m:00016)**
Viaño Rey, Juan M. *see* **Álvarez Vázquez, L. J., 93k:73007**
Vieira, M. C. de Campos *see* **Pereira, Ducival Carvalho; et al., 93h:34112**
Wagner, Peter[2] *see* **Ortner, Norbert, 93k:35006**
Wang, Han Kun *see* **Coleman, Matthew P.**
Wheeler, Robert L. *see* **Hannsgen, Kenneth B.; et al., (93i:93005)**
Yagasaki, Kazuyuki Chaotic dynamics of a quasi-periodically forced beam. (English summary) **93c:73067**
Yang, De Pin *see* **Zheng, Quan Shui; et al., 93j:73054**
Yang, Yong (*with* Luo, En) A spline synthetic discrete method (SSDM) for the analysis of plane problems. (Chinese. English summary) **93b:65020**
Zhang, Weijian A Krylow-Bogoliubov-type approximation for continuous-oscillation systems with damping nonlinearities. (English summary) **93i:73033**
Zhang, Zhimin Arch beam models: finite element analysis and superconvergence. **93b:65180**
Zheng, Quan Shui (*with* Yang, De Pin; Song, Gu Quan) Structure of rod shell theories in Hilbert space. (Chinese. English and Chinese summaries) **93j:73054**
Zowe, Jochem *see* **Achtziger, W.; et al., 93j:73057**

73K10 Plates, discs, membranes

Acerbi, Emilio (*with* Percivale, Danilo) Reinforcement of plates in Hencky's plasticity. **93j:73045**
Akõz, A. Y. (*with* Uzcan, N.) The new functional for Reissner plates and its application. (English summary) **93f:73057**
Álvarez Vázquez, L. J. (*with* Quintela Estévez, Peregrina) The effect of different scalings in the modelling of nonlinearly elastic plates with rapidly varying thickness. **93h:73024**
Andrianov, I. V. (*with* Shevchenko, V. V.) Solution of the cell problem for the case of a large square hole in problems of the bending and oscillations of densely punctured plates. (Russian. Russian summary) (*see* **93k:00023**)
Ario, Ichiro *see* **Ikeda, Kiyohiro; et al., 93c:73061**
Bathe, Klaus-Jürgen *see* **Brezzi, Franco, 93f:73058**
Beck, Armin (*with* Grabmüller, Hans) Wrinkle-free solutions of circular membrane problems. **93d:73045**
Bradford, I. D. R. *see* **Rogers, T. G.; et al., 93i:73032**
Brezzi, Franco (*with* Bathe, Klaus-Jürgen) Recent developments in the finite element approximation of Reissner-Mindlin plates. (Portuguese summary) **93f:73058**
Chacha, D. (*with* Sánchez-Palencia, Enrique) Overall behavior of elastic plates with periodically distributed fissures. (French summary) **93d:73046**
Cheng, Chang Jun (*with* Yang, Xiao) The existence of buckled states on a perforated thin plate. (Chinese. English and Chinese summaries)
Cibula, Július von Kármán equations. III. Solvability of the von Kármán equations with conditions for geometry of the boundary of the domain. (Slovak summary) **93a:73055**
Constanda, Christian The rigorous solution of the classical theory of plates. (English summary) **93g:73075**
England, A. H. *see* **Rogers, T. G.; et al., 93i:73032**
Fotiu, P. A. Elastodynamics of thin plates with internal dissipative processes. I. Theoretical foundations. (English summary) **93g:73076**
Gao, Yang *see* **Yau, Shing-Tung, 93b:73027**
Grabmüller, Hans (*with* Pirner, Robert) Existence theorems for some boundary value problems in the nonlinear theory of annular elastic membranes. (English summary) **93j:73046**
— *see also* **Beck, Armin, 93d:73045**
Gruais, Isabelle Modélisation de la jonction entre une plaque et une poutre en élasticité linéarisée. (English and French summaries) [Modelling of the junction between a plate and a rod in linear elasticity] **93k:73050**
Hart, V. G. (*with* Shi, Jingyu) Joined dissimilar orthotropic elastic cylindrical membranes under internal pressure and longitudinal tension. (English summary) **93m:73018**
Hilgers, M. G. (*with* Pipkin, A. C.) Bending energy of highly elastic membranes. **93a:73056**
Huang, Xiao Ling Equilibrium of an anisotropic infinite plate with circular holes when isotropic circular disks are welded to it. (Chinese. Chinese summary)
Ikeda, Kiyohiro (*with* Ario, Ichiro; Torii, Kunio) Block-diagonalization analysis of symmetric plates. (English summary) **93c:73061**
Kolpakov, A. G. Thin elastic plates of periodic structure with internal unilateral contacts. (Russian) **93c:73062**
— On a problem of the thermoelasticity of nonhomogeneous plates. (Russian. Russian summary) **93k:73051**
Kornev, V. M. (*with* Mul'kibaev, A. O.) Asymptotic analysis of problems on free oscillations of rectangular transversally isotropic and three-layered plates. (Russian) **93j:73047**
Kozin, A. B. *see* **Kozina, G. A.; et al., (93k:00022)**
Kozina, G. A. (*with* Papkovskaya, O. B.; Kozin, A. B.) The bending of a rectangular membrane with a cross-shaped inclusion. (Russian. Russian summary) (*see* **93k:00022**)
Lebeltel, Christophe Sur quelques modèles bidimensionnels de plaques en thermoélasticité linéarisée. (English summary) [On some bidimensional plate models in linearized

thermoelasticity] **93a:73057**

Lewiński, Tomasz (*with* Telega, Józef Joachim) Homogenization and effective properties of plates weakened by partially penetrating fissures: asymptotic analysis. **93f:73059**

Liu, Xing Ye *see* **Zheng, Jian Jun**, (**93b:65008**)

Miara, Bernadette Justification des mises à l'échelle et des hypothèses sur les données dans l'analyse asymptotique des modèles bidimensionnels de plaques minces élastiques. I. Le cas linéaire. (English summary) [Justification of the scalings and of the assumptions on the data in the asymptotic analysis of bidimensional models of elastic thin plates. I. The linear case] **93b:73026**

— Justification des mises à l'échelle et des hypothèses sur les données dans l'analyse asymptotique des modèles bidimensionnels de plaques minces élastiques. II. Le cas non linéaire. (English summary) [Justification of the scalings and of the assumptions on the data in the asymptotic analysis of bidimensional models for elastic thin plates. II. The nonlinear case] **93g:73077**

Mikhalevskiĭ, V. Ts. Quasistatic thermic oscillations of a freely supported rectangular orthotropic plate. (Russian. English, Russian and Moldavian summaries) **93k:73052**

Molnárka, Győző On the method of asymptotic expansions for plates. (German and Russian summaries) **93d:73047**

Mul'kibaev, A. O. *see* **Kornev, V. M.**, **93j:73047**

Nafasov, È. A system of differential equations in the theory of orthotropic plates of medium thickness. (Russian. English summary)

Naval, I. K. (*with* Patsyuk, V. I.; Rimskiĭ, V. K.) The stress state of a multiply connected plate under a longitudinal impulse load. (Russian. English and Moldavian summaries) **93c:73063**

Nosier, A. (*with* Reddy, J. N.) On vibration and buckling of symmetric laminated plates according to shear deformation theories. I, II. **93g:73078**

— (*with* Reddy, J. N.) On boundary layer and interior equations for higher-order theories of plates. (English and German summaries) **93k:73053**

Panagiotopoulos, P. D. *see* **Stavroulakis, G. E.**, **93f:73062**

Papkovskaya, O. B. *see* **Kozina, G. A.; et al.**, (**93k:00022**)

Patsyuk, V. I. *see* **Naval, I. K.; et al.**, **93c:73063**

Pen'kov, V. B. (*with* Tolokonnikov, L. A.) On the solution of plate bending problems. (Russian) **93k:73054**

Percivale, Danilo *see* **Acerbi, Emilio**, **93j:73045**

Piltner, Reinhard The derivation of a thick and thin plate formulation without ad hoc assumptions. (English summary) **93f:73060**

Pipkin, A. C. *see* **Hilgers, M. G.**, **93a:73056**

Pirner, Robert *see* **Grabmüller, Hans**, **93j:73046**

Quintela Estévez, Peregrina *see* **Álvarez Vázquez, L. J.**, **93h:73024**

Reddy, J. N. *see* **Nosier, A.**, **93g:73078** *and* **93k:73053**

Rimskiĭ, V. K. *see* **Naval, I. K.; et al.**, **93c:73063**

Rogers, T. G. (*with* Bradford, I. D. R.; England, A. H.) Finite plane deformations of highly anisotropic elastic-plastic plates and shells. (English summary) **93i:73032**

— (*with* Watson, P.; Spencer, A. J. M.) An exact three-dimensional solution for normal loading of inhomogeneous and laminated anisotropic elastic plates of moderate thickness. (English summary) **93f:73061**

Rychter, Zenon A family of accurate plate theories.

— Generalized displacements and the accuracy of classical plate theory. (English summary) **93k:73055**

Sánchez-Palencia, Enrique *see* **Chacha, D.**, **93d:73046**

Schiavone, Peter (*with* Tait, R. J.) Thermal effects in Mindlin-type plates. (English summary) **93m:73019**

Shevchenko, V. V. *see* **Andrianov, I. V.**, (**93k:00023**)

Shi, Jingyu *see* **Hart, V. G.**, **93m:73018**

Shilkrut, D. Stability of equilibrium states of nonlinear structures and chaos phenomenon. Chaos in statics? (English summary) **93g:73079**

Soldatos, K. P. A transverse shear deformation theory for homogeneous monoclinic plates. **93c:73064**

Song, Wei Ping *see* **Yu, Qing Yu**, **93d:73048**

Spencer, A. J. M. *see* **Rogers, T. G.; et al.**, **93f:73061**

Stavroulakis, G. E. (*with* Panagiotopoulos, P. D.) Delamination of multilayered plates in bending under monotone boundary and nonmonotone interlayer conditions. A variational-hemivariational inequality approach. (Bulgarian summary) **93f:73062**

Sukhorukov, I. V. *see* **Tsvelodub, I. Yu.**, **93j:73048**

Tait, R. J. *see* **Schiavone, Peter**, **93m:73019**

Telega, Józef Joachim *see* **Lewiński, Tomasz**, **93f:73059**

Tolokonnikov, L. A. *see* **Pen'kov, V. B.**, **93k:73054**

Torii, Kunio *see* **Ikeda, Kiyohiro; et al.**, **93c:73061**

Tsvelodub, I. Yu. (*with* Sukhorukov, I. V.) Some inverse problems of elastoplastic deformation of plates. (Russian. Russian summary) **93j:73048**

Uzcan, N. *see* **Aköz, A. Y.**, **93f:73057**

Wang, Lie Heng A mathematical model of coupled plates and its finite element method. (English summary) **93g:73080**

— Mathematical model of coupled plates meeting at an angle $0 < \theta < \pi$ and its finite element method. (English summary) **93h:73025**

Watson, P. *see* **Rogers, T. G.; et al.**, **93f:73061**

Yang, Xiao *see* **Cheng, Chang Jun**

Yau, Shing-Tung (*with* Gao, Yang) Obstacle problem for von Kármán equations. **93b:73027**

Yu, Qing Yu (*with* Song, Wei Ping) Solution of the von Kármán equations of circular plates. **93d:73048**

Yuan, Yi Rang (*with* Zhou, Guo Hui) Curved finite elements for the problem of embedding a plate on an elastic foundation. (Chinese. Chinese summary) **93j:73049**

Zheng, Jian Jun (*with* Liu, Xing Ye) Dynamic ring fundamental solutions of plate on Winkler foundation. (*see* **93b:65008**)

— A mean value theorem for Reissner plates. (Chinese. English summary)

Zheng, Xiao Jing (*with* Zhou, You He) Convergence of perturbation solutions to geometric nonlinear equations for circular plates. (Chinese. Chinese summary) **93j:73050**

Zhou, Guo Hui *see* **Yuan, Yi Rang**, **93j:73049**

Zhou, You He *see* **Zheng, Xiao Jing**, **93j:73050**

Items with secondary classifications in 73K10

Aggarwala, B. D. (*with* Nasim, C.) On dual integral equations arising in problems of bending of anisotropic plates. **93f:45016**

Aizengendler, P. G. On the bifurcation of the equilibrium positions of plates. (Russian) **93k:73044**

Alarcón, E. *see* **Beltran, F. J.**, **93e:73041**

Alliney, S. (*with* Carnicer, R. S.) A hybrid finite element model for multilayered plates. (English summary) **93g:73107**

Andrianov, I. V. *see* **Obraztsov, I. F.; et al.**, **93a:73064**

Arnold, Douglas N. Innovative finite element methods for plates. (Portuguese summary) **93c:65136**

Atluri, S. N. *see* **Cazzani, A.**, **93k:73077**

Aufranc, Martial Junctions between three-dimensional and two-dimensional non-linearly elastic structures. **93a:73054**

de Barcellos, C. S. (*with* Westphal, T., Jr.) Reissner/Mindlin's plate models and the boundary element method. (English summary) (*see* **93b:65002**)

Bartolomeo, Jerry (*with* Lasiecka, Irena; Triggiani, Roberto) Uniform exponential energy decay of Euler-Bernoulli equations by suitable boundary feedback operators. (Italian summary) **93d:93046**

Beltran, F. J. (*with* Alarcón, E.) Accuracy estimates based on multifield variational principles. (English summary) **93e:73041**

Blanchard, Dominique (*with* Xiang, Yan) Clamped plates as limits of genuinely clamped plates in linear and nonlinear elasticity. **93d:73019**

Bock, Igor Thickness optimization in viscoelastic plate bending. **93a:49024**

— (*with* Lovíšek, Ján) An optimal control problem for a pseudoparabolic variational inequality. (Slovak summary) **93f:49012**

Bourquin, Frédéric (*with* Ciarlet, Philippe G.; Geymonat, Giuseppe; Raoult, Annie) Γ-convergence et analyse asymptotique des plaques minces. (English and French summaries) [Γ-convergence and asymptotic analysis of thin plates] **93g:73008**

— (*with* d'Hennezel, Frédéric) Intrinsic component mode synthesis and plate vibrations. (English summary) **93f:73065**

Bradley, M. E. Uniform stabilization of a nonlinearly perturbed Kirchoff plate. **93b:35043**

Braess, Dietrich *see* **Peisker, P.**, **93j:73070**

Burq, Nicolas (*with* Lebeau, Gilles) Micro-local approach to the control for the plates equation. (English summary) (*see* **93m:00044**)

Cao, Da Wei (*with* He, Hua Can; Zhang, Guo Qi) Similarity analysis of Lie group method applied to solving the partial differential equation of orthogonal anisotropic plates. (English summary) **93g:35004**

Carnicer, R. S. *see* **Alliney, S.**, **93g:73107**

Cazzani, A. (*with* Atluri, S. N.) Four-noded mixed finite elements, using unsymmetric stresses, for linear analysis of membranes. (English summary) **93k:73077**

Chen, Goong (*with* Zhou, Jian-Xin) ★ Boundary element methods. **93e:65143**

Chinosi, C. (*with* Scapolla, T.; Sacchi Landriani, Giovanni) A hierarchic family of C^1 finite elements for 4th order elliptic problems. (English summary) **93f:73098**

Chow, C. L. *see* **Sze, K. Y.**, **93g:73110**

Ciarlet, Philippe G. The method of asymptotic expansions for a non-linearly elastic clamped plate. **93a:73020**

— Échange de limites en théorie asymptotique de coques. I. En premier lieu, "la coque devient une plaque". (English summary) [Interchanging limits in asymptotic shell theory. I. First, "the shell becomes a plate"] **93f:73069**

— *see also* **Bourquin, Frédéric; et al.**, **93g:73008**

Coffman, Charles V. (*with* Duffin, Richard J.) On the fundamental eigenfunctions of a clamped punctured disk. **93c:35113**

Dặng Đình Áng (*with* Schmitt, Klaus; Vy, L. K.) Variational inequalities and the contact of elastic plates. **93h:35078**

— (*with* Schmitt, Klaus; Vy, L. K.) P-coercive variational inequalities and unilateral problems for von Kármán's equations. (English summary) **93i:47105**

Demkowicz, Leszek *see* **Kuczma, M. S.**, **93h:73033**

Dimentberg, F. M. *see* **Vorob'ev, E. I.**, **93d:70007**

Duffield, R. C. *see* **Shih, H.-R.; et al.**, (**93b:65002**)

Duffin, Richard J. *see* **Coffman, Charles V.**, **93c:35113**

Fronk, T. H. (*with* Mahan, J. R.) Fully-coupled fluid-structure formulation of a baffled rectangular orthotropic plate using the boundary element and finite element methods. (English summary) (*see* **93b:65002**)

Geymonat, Giuseppe *see* **Bourquin, Frédéric; et al.**, **93g:73008**

Golovatyĭ, Yu. D. Some inequalities for natural frequencies of rods and plates. (Russian) (*see* **93m:35006**)

Gottlieb, H. P. W. Axisymmetric isospectral annular plates and membranes. (English summary) **93g:73083**

Gregory, R. D. The general form of the three-dimensional elastic field inside an isotropic plate with free faces. **93g:73030**

Hart, V. G. (*with* Shi, Jingyu) Joined dissimilar thin elastic tubes containing steady perfect flow. (English summary) **93i:73038**

He, Hua Can *see* **Cao, Da Wei; et al.**, **93g:35004**

d'Hennezel, Frédéric *see* **Bourquin, Frédéric**, **93f:73065**

Hilgers, M. G. (*with* Pipkin, A. C.) Elastic sheets with bending stiffness. **93a:73044**

Hoffmann, Karl-Heinz[1] (*with* Żochowski, A.) Analysis of the thermoelastic model of a plate with nonlinear shape memory alloy reinforcements. (English summary) **93i:35146**

Horn, Mary Ann (*with* Lasiecka, Irena) The Euler-Bernoulli plate is exactly controllable via bending moments only. **93j:35034**

— Exact controllability of the Euler-Bernoulli plate via bending moments only on the space of optimal regularity. **93c:73075**

Ji, Zhen Yi (*with* Ye, Kai Yuan) An exact element method for bending of nonhomogeneous thin plates. (Chinese. English and Chinese summaries)

Kaplunov, Yu. D. (*with* Nol'de, E. V.) The Lamb problem for the case of a generalized plane stress state. (Russian) **93i:73011**

Kawohl, Bernhard (*with* Levine, Howard A.; Velte, Waldemar) Buckling eigenvalues for a clamped plate embedded in an elastic medium and related questions. (English summary) **93j:35121**

Khludneva, E. Yu. A problem on the contact of an inelastic plate with a rigid stamp. (Russian. Russian summary) **93e:73038**
Kobozeva, A. A. (*with* Maslovskaya, L. V.) A generalized Cholesky algorithm in problems in the theory of plates and shells. (Russian. Russian summary) **93h:73039**
Komornik, Vilmos Stabilisation non linéaire de l'équation des ondes et d'un modèle de plaque. (English summary) [Nonlinear stabilization of the wave equation and of a plate model] **93f:35025**
— On the vibrations of rectangular membranes. (English summary) **93m:35117**
Kuczma, M. S. (*with* Demkowicz, Leszek) An adaptive algorithm for unilateral viscoelastic contact problems for beams and plates. (English summary) **93h:73033**
Lasiecka, Irena (*with* Triggiani, Roberto) Exact controllability and uniform stabilization of Kirchhoff plates with boundary control only on $\Delta w|_\Sigma$ and homogeneous boundary displacement. **93e:93006**
— *see also* **Bartolomeo, Jerry; et al., 93d:93046** *and* **Horn, Mary Ann, 93j:35034**
Lebeau, Gilles *see* **Burq, Nicolas, (93m:00044)**
Lee, Byung Chai *see* **Lee, Yoon Joon, 93k:73079**
Lee, Yoon Joon (*with* Lee, Byung Chai) Derivation of stabilization matrices for Mindlin plates from the combined mixed functional and their mathematical characteristics. (English summary) **93k:73079**
Lenyuk, M. P. (*with* Paskar', A. A.) Quasistatic thermoelastic fields in a continuous bicomposite cylindrically anisotropic plate. Solution in stresses. (Russian. English, Russian and Moldavian summaries) **93f:73014**
Levine, Howard A. *see* **Kawohl, Bernhard; et al., 93j:35121**
Lin, J. *see* **Shih, H.-R.; et al., (93b:65002)**
Liu, Ren Huai (*with* Wu, Jian Cheng) Nonlinear vibration of rectangular sandwich plates. (English summary)
Lovíšek, Ján *see* **Bock, Igor, 93f:49012**
Lunardi, Alessandra Neumann boundary stabilization of structurally damped time periodic wave and plate equations. **93g:35087**
Maceri, Aldo On the problem of contact between elastic plates. (Italian. English summary) **93a:73074**
— A nonlinear elastic obstacle problem for a clamped plate. (Italian. English summary) **93d:73065**
Mahan, J. R. *see* **Fronk, T. H., (93b:65002)**
Maslovskaya, L. V. *see* **Kobozeva, A. A., 93h:73039**
Miersemann, Erich (*with* Mittelmann, H. D.) Stability in obstacle problems for the von Kármán plate. (English summary) **93h:35081**
Mittelmann, H. D. *see* **Miersemann, Erich, 93h:35081**
Nasim, C. *see* **Aggarwala, B. D., 93f:45016**
Nerubailo, B. V. *see* **Obraztsov, I. F.; et al., 93a:73064**
Nol'de, E. V. *see* **Kaplunov, Yu. D., 93i:73011**
Obraztsov, I. F. (*with* Nerubailo, B. V.; Andrianov, I. V.) ★ Асимптотические методы в строительной механике тонкостенных конструкций. (Russian) [Asymptotic methods in the structural mechanics of thin-walled structures] **93a:73064**
Ortner, Norbert (*with* Wagner, Peter[2]) On the fundamental solutions of the operators of S. Timoshenko and R. D. Mindlin. (English summary) **93k:35006**
Paskar', A. A. *see* **Lenyuk, M. P., 93f:73014**
Peisker, P. (*with* Braess, Dietrich) Uniform convergence of mixed interpolated elements for Reissner-Mindlin plates. (English and French summaries) **93j:73070**
Pipkin, A. C. *see* **Hilgers, M. G., 93a:73044** *and* **Steigmann, D. J., 93f:73055**
Qin, Qing Hua (*with* Zhang, Qing Jie) A triangular element of a plate with ten degrees of freedom. (English summary)
Raoult, Annie Asymptotic modeling of the elastodynamics of a multi-structure. (English and French summaries) **93m:73008**
— *see also* **Bourquin, Frédéric; et al., 93g:73008**
Sacchi Landriani, Giovanni *see* **Chinosi, C.; et al., 93f:73098**
Scapolla, T. *see* **Chinosi, C.; et al., 93f:73098**
Schmitt, Klaus *see* **Dặng Đình Áng; et al., 93h:35078** *and* **93i:47105**
Shi, Jingyu *see* **Hart, V. G., 93i:73038**
Shih, H.-R. (*with* Duffield, R. C.; Lin, J.) Boundary-finite element model for eccentrically stiffened plates under transverse loading. (English summary) (*see* **93b:65002**)
Sorem, R. M. *see* **Surana, K. S., 93c:73096**
Spencer, A. J. M. (*with* Watson, P.) Buckling of laminated anisotropic plates under cylindrical bending. (English summary) **93i:73030**
Steigmann, D. J. (*with* Pipkin, A. C.) Equilibrium of elastic nets. **93f:73055**
— Cavitation in elastic membranes—an example. **93i:73028**
Surana, K. S. (*with* Sorem, R. M.) Completely hierarchical *p*-version curved shell element for laminated composite plates and shells. (English summary) **93c:73096**
Sze, K. Y. (*with* Chow, C. L.) Efficient hybrid/mixed elements using admissible matrix formulation. (English summary) **93g:73110**
Tadi, M. Finite elements for modeling and control of a Mindlin plate. (English summary) **93k:73082**
Telega, Józef Joachim Perfectly plastic plates loaded by boundary bending moments: relaxation and homogenization. **93i:73002**
Tovstik, P. E. Free high-frequency oscillations of anisotropic plates of variable thickness. (Russian. Russian summary) **93f:73067**
Triggiani, Roberto Regularity of wave and plate equations with interior point control. (Italian summary) **93a:35023**
— *see also* **Bartolomeo, Jerry; et al., 93d:93046** *and* **Lasiecka, Irena, 93e:93006**
Velte, Waldemar *see* **Kawohl, Bernhard; et al., 93j:35121**
Vorob'ev, E. I. (*with* Dimentberg, F. M.) ★ Пространственные шарнирные механизмы. (Russian) [Spatial linkages] **93d:70007**
Vy, L. K. *see* **Dặng Đình Áng; et al., 93h:35078** *and* **93i:47105**
Wagner, Peter[2] *see* **Ortner, Norbert, 93k:35006**
Wang, Hong A boundary element method for plate-bending problems and its asymptotic error estimates. (English summary) (*see* **93b:65002**)
Watson, P. *see* **Spencer, A. J. M., 93i:73030**
Westphal, T., Jr. *see* **de Barcellos, C. S., (93b:65002)**
White, Luther W. Estimation of elastic parameters in a von Kármán model. **93h:35068**
Wu, Jian Cheng *see* **Liu, Ren Huai**
Xiang, Yan *see* **Blanchard, Dominique, 93d:73019**
Ye, Kai Yuan *see* **Ji, Zhen Yi**
Zhang, Guo Qi *see* **Cao, Da Wei; et al., 93g:35004**
Zhang, J. D. A boundary integral equation approach for the calculation of gradients and higher order derivatives in solid mechanics problems. (English summary) **93d:73071**
Zhang, Qing Jie *see* **Qin, Qing Hua**
Zhou, Jian-Xin *see* **Chen, Goong, 93e:65143**
Żochowski, A. Domain sensitivity for singular elliptic problems: harmonic transformation approach. **93c:49029**
— *see also* **Hoffmann, Karl-Heinz[1], 93i:35146**

73K12 Dynamics of structures

Abrahams, I. D. (*with* Engineer, J. C.) A secularity condition for systems of linear partial differential equations. **93a:73058**
Akulenko, L. D. (*with* Kostin, G. V.) The perturbation method in problems of the dynamics of nonuniform elastic rods. (Russian. Russian summary) **93j:73051**
Andrianov, I. V. (*with* Shevchenko, V. V.) Punctured plates and shells. (Russian. Russian summary) (*see* **93d:00031**)
Ariaratnam, S. T. (*with* Xie, Wei Chau) Lyapunov exponents in stochastic structural dynamics. (English summary) **93f:73063**
Benaroya, Haym Random eigenvalues, algebraic methods and structural dynamic models. (English summary) **93g:73081**
Bogy, D. B. *see* **Chen, Jen-San, 93c:73065**
Boldin, V. P. (*with* Malanov, S. B.; Utkin, G. A.) Formulation of boundary value problems of the dynamics of two-dimensional systems with moving loads and fastenings. (Russian) **93f:73064**
Bolgrabskaya, I. A. Equations of inertial motion of a system of *n* different Lagrange gyroscopes, and small oscillations of rotating inhomogeneous rod. (Russian. Russian summary) **93m:73020**
Bourquin, Frédéric (*with* d'Hennezel, Frédéric) Numerical study of an intrinsic component mode synthesis method. (English summary) **93g:73082**
— (*with* d'Hennezel, Frédéric) Intrinsic component mode synthesis and plate vibrations. (English summary) **93f:73065**
Cai, Cheng Wu *see* **Yang, Zong Lian**
Carstensen, Carsten (*with* Wriggers, P.) On perturbation behaviour in nonlinear dynamics. (English summary) **93k:73056**
Chen, Jen-San (*with* Bogy, D. B.) Effects of load parameters on the natural frequencies and stability of a flexible spinning disk with a stationary load system. (English summary) **93c:73065**
Chen, Su Huan (*with* Liu, Zhong Sheng; Xu, Tao) A new method for solving nonlinear eigenproblems of vibrations. (English summary) **93m:73021**
Coleman, Bernard D. (*with* Dill, Ellis Harold) Flexure waves in elastic rods. **93b:73028**
Coleman, Matthew P. (*with* Wang, Han Kun) Analysis of vibration spectrum of a Timoshenko beam with boundary damping by the wave method. (English summary)
D'Eleuterio, G. M. T. Dynamics of an elastic multibody chain. C. Recursive dynamics. (English summary) **93k:73057**
Dill, Ellis Harold *see* **Coleman, Bernard D., 93b:73028**
Engineer, J. C. *see* **Abrahams, I. D., 93a:73058**
Ermolaev, B. V. The use of generalized functions in a problem on elastic oscillations of a composite rod. (Russian. Russian summary) **93k:73058**
Frischmuth, K. (*with* Kosiński, Witold; Lekszycki, T.) Free vibrations of finite-memory material beams. (English summary) **93m:73022**
Gladwell, G. M. L. (*with* Zhu, Ben Ren) Inverse problems for multidimensional vibrating systems. (English summary) **93m:73023**
Golovatyi, Yu. D. Some inequalities for natural frequencies of rods and plates. (Russian) (*see* **93m:35006**)
Gottlieb, H. P. W. Axisymmetric isospectral annular plates and membranes. (English summary) **93g:73083**
Guz', A. N. (*with* Kabelka, I.; Markush, Sh.; et al.) ★ Динамика и устойчивость слоистых композитных материалов. (Russian. Russian summary) [Dynamics and stability of layered composite materials] **93g:73084**
d'Hennezel, Frédéric *see* **Bourquin, Frédéric, 93f:73065** *and* **93g:73082**
Kabelka, I. *see* **Guz', A. N.; et al., 93g:73084**
Kalinnikov, V. G. Active damping of oscillations of a rotating linkage. (Russian. Russian summary) **93k:73059**
Keane, A. J. Energy flows between arbitrary configurations of conservatively coupled multi-modal elastic subsystems. (English summary)
Kel'zon, A. S. (*with* Meller, A. S.) On the dynamics of a rotor in rolling-contact bearings. (Russian)
Kladinoga, V. S. (*with* Trotsenko, V. A.) Eigenoscillations of a hyperelastic annular membrane, predeformed by an axisymmetric load, with a rigid disk. (Russian. Russian summary) **93k:73060**
Kodnár, Rudolf (*with* Tesár, Alexander) Some remarks to transfer matrix method. **93a:73059**
Kosiński, Witold *see* **Frischmuth, K.; et al., 93m:73022**
Kostin, G. V. *see* **Akulenko, L. D., 93j:73051**
Kounadis, A. N. (*with* Simitses, G. J.) Local (classical) and global bifurcations in nonlinear, nongradient autonomous dissipative structural systems. (English summary) **93m:73024**
— *see also* **Mahrenholtz, O., 93m:73025**
Krätzig, W. B. (*with* Li, L. Y.; Nawrotzki, P.) Stability conditions for nonconservative dynamical systems. (English summary) **93f:73066**
Lavrenyuk, S. P. Weak convergence of generalized solutions of an equation of transverse oscillations of a rod type. (Ukrainian)
Lekszycki, T. *see* **Frischmuth, K.; et al., 93m:73022**
Leung, A. Y. T. Nonlinear modal analysis of frames by the incremental harmonic-balance method. **93c:73066**
Li, L. Y. *see* **Krätzig, W. B.; et al., 93f:73066**
Liu, Ren Huai (*with* Wu, Jian Cheng) Nonlinear vibration of rectangular sandwich plates. (English summary)

Liu, Zhong Sheng *see* **Chen, Su Huan; et al., 93m:73021**
Luongo, Angelo Perturbation methods in the eigenvalue analysis of imperfect structures with high modal density. I. Theory. (Italian)
— Perturbation methods in the eigenvalue analysis of imperfect structures with high modal density. II. Applications to a string and a beam on an elastic foundation. (Italian)
Mahrenholtz, O. (*with* Kounadis, A. N.) On the relation of static to dynamic bifurcation in nonlinear autonomous dissipative or nondissipative structural systems. (English and German summaries) **93m:73025**
Malanov, S. B. *see* **Boldin, V. P.; et al., 93f:73064**
Markush, Sh. *see* **Guz', A. N.; et al., 93g:73084**
Meller, A. S. *see* **Kel'zon, A. S.**
Mikhasëv, G. I. On a solution of a system of integro-differential equations that describes free oscillations of a viscoelastic cylindrical shell. (Russian. English and Russian summaries) **93j:73052**
Nawrotzki, P. *see* **Krätzig, W. B.; et al., 93f:73066**
Rogol, S. L. *see* **Sinenko, N., (93e:60006)**
(Schiehlen, W.) *see* **Nonlinear dynamics of engineering systems, 93e:73022**
Schmidt, Robert Both bounds to eigenvalues via Sturm-type differential equations. (English summary) **93g:73085**
— Improved bounds for buckling loads and fundamental frequencies. **93j:73053**
Shevchenko, V. V. *see* **Andrianov, I. V., (93d:00031)**
Simitses, G. J. *see* **Kounadis, A. N., 93m:73024**
Sinenko, N. (*with* Rogol, S. L.) On exponential $2p$-stability of the beam under longitudinal perturbations. (English and Latvian summaries) (*see* **93e:60006**)
Stoyan, V. A. Investigation of the dynamics of elastic beams under conditions of uncertainty. (Russian) **93d:73049**
Tesár, Alexander *see* **Kodnár, Rudolf, 93a:73059**
(Thompson, J. M. T.) *see* **Nonlinear dynamics of engineering systems, 93e:73022**
Timofeev, D. R. On taking into account energy scattering in the case of transverse vibrations of beams with step-variable parameters. (Russian. Russian summary) (*see* **93k:00022**)
Tovstik, P. E. Free high-frequency oscillations of anisotropic plates of variable thickness. (Russian. Russian summary) **93f:73067**
Trotsenko, V. A. *see* **Kladinoga, V. S., 93k:73060**
Utkin, G. A. *see* **Boldin, V. P.; et al., 93f:73064**
Vakakis, Alexander F. Dynamics of a nonlinear periodic structure with cyclic symmetry. (English summary) **93f:73068**
Voss, Heinrich Free vibration analysis by finite dynamic element methods. (*see* **93b:65007**)
Wang, Han Kun *see* **Coleman, Matthew P.**
Wriggers, P. *see* **Carstensen, Carsten, 93k:73056**
Wu, Jian Cheng *see* **Liu, Ren Huai**
Xie, Wei Chau *see* **Ariaratnam, S. T., 93f:73063**
Xu, Tao *see* **Chen, Su Huan; et al., 93m:73021**
Yagasaki, Kazuyuki Chaotic dynamics of a quasi-periodically forced beam. (English summary) **93c:73067**
Yang, Zong Lian (*with* Cai, Cheng Wu) Finding the dynamic response of infinite periodic chain structures by using Fourier series. (Chinese. English and Chinese summaries)
Zhang, Weijian A Krylow-Bogoliubov-type approximation for continuous-oscillation systems with damping nonlinearities. (English summary) **93i:73033**
Zhu, Ben Ren *see* **Gladwell, G. M. L., 93m:73023**

Items listed otherwise than by author

Nonlinear dynamics of engineering systems ★ Nonlinear dynamics of engineering systems. **93e:73022**

Items with secondary classifications in 73K12

Adams, Ernst Wilhelm Gear drive vibrations and verified periodic solutions. (English summary) (*see* **93e:00022**)
Arosio, Alberto (*with* Panizzi, Stefano; Paoli, Maria Gabriella) Inhomogeneous Timoshenko beam equations. (English summary) **93j:73042**
Atanacković, Teodor M. *see* **Djukić, Djordje S., 93c:73060**
Audounet, J. *see* **Montseny, G.; et al., (93i:93005)**
Awrejcewicz, Jan ★ Bifurcation and chaos in coupled oscillators. **93f:58144**
Bajaj, A. K. (*with* Johnson, J. M.) On the amplitude dynamics and crisis in resonant motion of stretched strings. **93a:73053**
Barkar', S. M. On the spectrum of a quadratic operator pencil in the open right half-plane. (Russian) **93e:47018**
— (*with* Pivovarchik, V. N.) Small transverse vibrations of a viscoelastic rod with rigidly fastened ends. (Russian) **93b:35129**
Bell, James F. The late twentieth-century resolution of a mid-nineteenth-century dilemma generated by the eighteenth-century experiments of Ernst Chladni on the dynamics of rods. **93d:01025**
Bérété, S. *see* **Sanchez-Hubert, J.; et al., 93i:73039**
Bolgrabskaya, I. A. *see* **Savchenko, A. Ya.; et al., 93d:70011**
Borisovich, O. Yu. (*with* Byrdin, A. P.) The Fourier method for a boundary value problem on dynamic instability with a nonlinear integro-differential operator. I. (Russian) **93c:65162**
Bratus', A. S. (*with* Myshkis, A. D.) On the ratio between the first and the second eigenfrequency of the oscillations of a membrane. (Russian) **93b:35030**
Bravo Yuste, Santos "Cubication" of nonlinear oscillators using the principle of harmonic balance. **93c:70013**
Breakwell, J. V. (*with* Janssens, F. L.) On the traverse vibrations of a revolving tether. (English summary) **93h:70023**
Byrdin, A. P. *see* **Borisovich, O. Yu., 93c:65162**
Capodanno, Pierre Sur le mouvement d'un pendule à suspension élastique contenant un liquide. [On the motion of an elastically suspended pendulum containing a fluid] **93f:73079**
Cardona, A. (*with* Géradin, M.) A superelement formulation for mechanism analysis. (English summary) **93g:73108**
Cartmell, Matthew ★ Introduction to linear, parametric and nonlinear vibrations. **93b:70001**
Castel, L. *see* **Destuynder, Philippe; et al., (93e:73030)**
Chaikin, S. V. Relative equilibrium positions on a circular orbit of a flexible satellite and their stability. (Russian. Russian summary) **93g:70030**
(Chladni, Ernst) *see* **Bell, James F., 93d:01025**
Chueshov, I. D. Construction of solutions in a problem of the oscillations of a shell in a potential subsonic flow. (Russian) **93c:73078**
Coleman, Bernard D. (*with* Dill, Ellis Harold; Lembo, Marzio; Lu, Zheng; Tobias, Irwin) On the dynamics of rods in the theory of Kirchhoff and Clebsch. **93k:73046**
Conca, C. (*with* Durán, M.; Planchard, J.) A quadratic eigenvalue problem involving Stokes equations. (English summary) **93g:73097**
— (*with* Planchard, J.; Vanninathan, M.) Resonance frequencies of a cavity containing a compressible viscous fluid. (English summary) **93m:73030**
Destuynder, Philippe (*with* Legrain, I.; Castel, L.; Richard, N.) Piezoelectric wafers for reducing the structure vibrations. (*see* **93e:73030**)
Diaz, Alejandro R. (*with* Kikuchi, Noboru) Solutions to shape and topology eigenvalue optimization problems using a homogenization method. (English summary) **93f:73073**
Dieci, Luca (*with* Lorenz, Jens) Block M-matrices and computation of invariant tori. **93h:65109**
Dill, Ellis Harold *see* **Coleman, Bernard D.; et al., 93k:73046**
Ditkin, V. V. On a hydrodynamic load on a vibrating wall of a cylindrical shell. (Russian) **93k:73065**
Djukić, Djordje S. (*with* Atanacković, Teodor M.) Extremum variational principle for an inextensible rotating rod. (English summary) **93c:73060**
Durán, M. *see* **Conca, C.; et al., 93g:73097**
El Naschie, M. S. (*with* Elnashaie, S. S. E. H.) On the connection between fluid and elastostatical turbulence in Hamiltonian and flutter sets. (English summary)
Elnashaie, S. S. E. H. *see* **El Naschie, M. S.**
Ergashov, M. Investigation of processes of elastic wave propagation in winding connections taking into account the effects of their rotation and stretching. (Russian) **93d:73035**
Esquivel-Avila, Jorge A. Liapunov stability properties in second order evolution equations with finite memory. **93i:34115**
Fabre, Caroline Résultats de contrôlabilité exacte interne pour l'équation de Schrödinger et leurs limites asymptotiques: application à certaines équations de plaques vibrantes. (English summary) [Results on exact internal controllability for the Schrödinger equation and their asymptotic limits: application to some vibrating-plate equations] **93d:35031**
Falzarano, Jeffrey M. (*with* Shaw, Steven W.; Troesch, Armin W.) Application of global methods for analyzing dynamical systems to ship rolling motion and capsizing. **93b:76016**
Fan, Jia Rang (*with* Zhang, Ju Yong) Exact solutions for thick laminated shells. (English summary)
Feireisl, Eduard (*with* Herrmann, Leopold) Oscillations of a non-linearly damped extensible beam. (English summary) **93k:35013**
— The monotonicity method and free vibrations of extensible beams. **93b:35092**
— Exponential attractors for nonautonomous systems: long-time behaviour of vibrating beams. **93h:35136**
Filimonov, A. M. (*with* Kurchanov, P. F.; Myshkis, A. D.) Some unexpected results in the classical problem of vibrations of the string with n beads when n is large. (French summary) **93a:73026**
— Some unexpected results on the classical problem of vibrations of the string with N beads. The case of multiple frequencies. (English and French summaries) **93i:70003**
Fix, George J. (*with* Kannan, Rangachary) Nonplanar oscillation of beams under periodic forcing. **93f:35226**
Fotiu, P. A. Elastodynamics of thin plates with internal dissipative processes. I. Theoretical foundations. (English summary) **93g:73076**
Fox, D. D. *see* **Simo, Juan C.; et al., 93e:73027**
Gaiduk, S. I. Application of the contour integral method to the solution of a problem on transverse vibrations of a viscoelastic membrane caused by an impact. (Russian) **93b:73017**
Géradin, M. *see* **Cardona, A., 93g:73108**
Gutowski, Roman Investigation of the stability of tranversal vibrations of a nonlinear string by the method of differential inequalities. (English summary) (*see* **93g:00030**)
Hannsgen, Kenneth B. (*with* Wheeler, Robert L.) A representation formula for one-dimensional viscoelasticity with stabilizing boundary feedback. **93f:93113**
Hansen, Scott W. Exponential energy decay in a linear thermoelastic rod. **93f:35229**
Healey, Timothy J. Large rotatory oscillations of transversely isotropic rods: spatio-temporal symmetry-breaking bifurcation. **93k:34032**
Herrmann, Leopold *see* **Feireisl, Eduard, 93k:35013**
Horn, Mary Ann Uniform decay rates for the solutions to the Euler-Bernoulli plate equation with boundary feedback acting via bending moments. **93h:35054**
Huang, Zheng Ming On the coupled vibration of an ideal fluid with a linear elastic structure. (Chinese. English and Chinese summaries) **93j:73060**
Ignat'ev, V. A. (*with* Ignat'eva, O. M.) Solution of a partial eigenvalue and eigenvector problem by means of a method of the successive condensation of subsystems. (Russian) (*see* **93k:73001**)
Ignat'eva, O. M. *see* **Ignat'ev, V. A., (93k:73001)**
Itskovitš, M. *see* **Lokshin, A. A., 93c:73034**
Janssens, F. L. *see* **Breakwell, J. V., 93h:70023**
Jeffrey, Alan A brief history of solitons. (*see* **93g:00030**)
Johnson, J. M. *see* **Bajaj, A. K., 93a:73053**
Joó, István On the control of a circular membrane and related problems. **93m:73028**
— On the optimal control of circular membranes. **93g:93010**
— On the control of a net of strings. **93m:93012**
Kannan, Rangachary *see* **Fix, George J., 93f:35226**
Kaper, Hans G. (*with* Kwong, Man Kam) On two conjectures concerning the multiplicity of solutions of a Dirichlet problem. **93c:34055**
Ke, Huei Yaw *see* **Lee, Sen Yung, 93c:73030**
Kholostova, O. V. On the stability of a particular motion of a rigid body with an elastoviscous membrane on a circular orbit. (Russian) **93d:70012**
Kikuchi, Noboru *see* **Diaz, Alejandro R., 93f:73073**
Kim, Jong Uhn Exact semi-internal control of an Euler-Bernoulli equation. (English

summary) **93h:35026**
— On the energy decay of a linear thermoelastic bar and plate. **93f:35159**
Knops, R. J. Spatial decay estimates in the vibrating anisotropic elastic beam. (English summary) (*see* **93g:00030**)
Komech, A. I. Stabilization of the interaction of a string with a nonlinear oscillator. (Russian. Russian summary) **93k:35255**
Komornik, Vilmos Stabilisation non linéaire de l'équation des ondes et d'un modèle de plaque. (English summary) [Nonlinear stabilization of the wave equation and of a plate model] **93f:35025**
— On the vibrations of rectangular membranes. (English summary) **93m:35117**
Kononykhin, G. A. *see* **Savchenko, A. Ya.; et al., 93d:70011**
Kornev, V. M. An analogue of the d'Alembert formula for equations of the vibrations of nonhomogeneous rods and strings. (Russian. Russian summary)
— (*with* Mul'kibaev, A. O.) Asymptotic analysis of problems on free oscillations of rectangular transversally isotropic and three-layered plates. (Russian) **93j:73047**
Krabs, W. ★ On moment theory and controllability of one-dimensional vibrating systems and heating processes. **93f:93002**
Kubyshkin, E. P. Optimal control of the rotation of a solid body with a flexible rod. (Russian. Russian summary) **93i:70030**
Kurchanov, P. F. *see* **Filimonov, A. M.; et al., 93a:73026**
Kwong, Man Kam *see* **Kaper, Hans G., 93c:34055**
Lagnese, John E. Modelling and stabilization of nonlinear plates. **93e:93050**
Lasiecka, Irena (*with* Triggiani, Roberto) Exact controllability and uniform stabilization of Kirchhoff plates with boundary control only on $\Delta w|_\Sigma$ and homogeneous boundary displacement. **93e:93006**
Lau, S. L. (*with* Zhang, W.-S.) Nonlinear vibrations of piecewise-linear systems by incremental harmonic balance method. (English summary) **93e:70010**
Lee, Sen Yung (*with* Ke, Huei Yaw) Flexural wave propagation in an elastic beam with periodic structure. (English summary) **93c:73030**
Legrain, I. *see* **Destuynder, Philippe; et al., (93e:73030)**
Lembo, Marzio *see* **Coleman, Bernard D.; et al., 93k:73046**
Levitin, M. R. *see* **Vasil'ev, D. G.; et al., 93k:73067**
Li, Hong Xiang (*with* Wang, Cun Zheng) Formulas for solutions of second order ordinary differential equations and their applications. (English summary)
Lidskiĭ, V. B. *see* **Vasil'ev, D. G.; et al., 93k:73067**
Lokshin, A. A. (*with* Itskovitš, M.) Exact solution to the reflection problem in a hereditary nonlinear composite bar. **93c:73034**
Lorenz, Jens *see* **Dieci, Luca, 93h:65109**
Lu, Zheng *see* **Coleman, Bernard D.; et al., 93k:73046**
Maïzi, Nadia A "relaxation" approach for the Hankel approximation of some vibrating structures. (English summary) (*see* **93i:93005**)
Mbodje, B. *see* **Montseny, G.; et al., (93i:93005)**
Meijaard, J. P. Applications of the singular value decomposition in dynamics. (English summary) **93k:70002**
Meirovitch, Leonard ★ Dynamics and control of structures. **93a:93001**
Montseny, G. (*with* Audounet, J.; Mbodje, B.) A simple viscoelastic damper model—application to a vibrating string. (English summary) (*see* **93i:93005**)
Morand, Henri J.-P. (*with* Ohayon, Roger) ★ Interactions fluides-structures. (French) [Fluid-structure interactions] **93m:73031**
Muganlinskiĭ, F. D. On the existence and nonexistence of global a priori estimates for the solutions of a nonlinear initial-boundary value problem for a Kirchhoff equation system. (Russian. English and Azerbaijani summaries) **93i:35033**
Mukhamadiev, A. Sh. *see* **Nazirov, Sh. A.**
Mul'kibaev, A. O. *see* **Kornev, V. M., 93j:73047**
Myshkis, A. D. *see* **Filimonov, A. M.; et al., 93a:73026** *and* **Bratus', A. S., 93b:35030**
Nazirov, Sh. A. (*with* Mukhamadiev, A. Sh.) Equations of the equilibrium and motion of anisotropic conic shells. (Russian. Russian summary)
Ngô Huy Cân (*with* Tran Thu Ha) The convective motion of an incompressible viscous fluid contained in an elastic cylindrical shell. **93k:76039**
Nosier, A. (*with* Reddy, J. N.) On vibration and buckling of symmetric laminated plates according to shear deformation theories. I, II. **93g:73078**
Ohayon, Roger *see* **Morand, Henri J.-P., 93m:73031**
Ortner, Norbert (*with* Wagner, Peter[2]) On the fundamental solutions of the operators of S. Timoshenko and R. D. Mindlin. (English summary) **93k:35006**
Owen, David Ross Recent research on elastic-plastic oscillators. **93c:70015**
Panizzi, Stefano *see* **Arosio, Alberto; et al., 93j:73042**
Paoli, Maria Gabriella *see* **Arosio, Alberto; et al., 93j:73042**
Peradze, D. G. The dynamic problem for Reissner's one-dimensional system. **93a:73061**
Pereira, Ducival Carvalho (*with* Vieira, M. C. de Campos; Rabello, T. N.) Local solution of a mixed problem for a degenerated hyperbolic equation. **93h:34112**
Pivovarchik, V. N. *see* **Barkar', S. M., 93b:35129**
Planchard, J. Quelques problèmes d'homogénéisation en interaction fluide-structure. (English summary) [Some homogenization problems in fluid-structure interaction] **93f:35022**
— *see also* **Conca, C.; et al., 93g:73097**; **Sanchez-Hubert, J.; et al., 93i:73039** *and* **Conca, C.; et al., 93m:73030**
Puel, Jean-Pierre (*with* Zuazua, Enrike) Controllability of a multidimensional system of Schrödinger equations: application to a system of plate and beam equations. (English summary) (*see* **93i:93005**)
Pustovoit, S. P. An integral-iterative method for solving a boundary value problem for an oscillation equation on a segment of variable length. (Russian. Russian summary) (*see* **93k:00022**)
Pustyl'nikov, L. D. The spectrum of a discrete inhomogeneous wave equation, and oscillations of a discrete string. (Russian. Russian summary) **93f:34017**
Rabello, T. N. *see* **Pereira, Ducival Carvalho; et al., 93h:34112**
Rao, Bopeng Stabilisation uniforme d'un système hybride en élasticité. (English and French summaries) [Uniform stabilization of a hybrid system in elasticity] **93m:73029**
Reddy, J. N. *see* **Nosier, A., 93g:73078**
Richard, N. *see* **Destuynder, Philippe; et al., (93e:73030)**
Rifai, M. S. *see* **Simo, Juan C.; et al., 93e:73027**
Sanchez-Hubert, J. (*with* Bérété, S.; Planchard, J.) Spectral properties of an elastic rod-spring coupled system immersed in a fluid. (English summary) **93i:73039**
Savchenko, A. Ya. (*with* Bolgrabskaya, I. A.; Kononykhin, G. A.) ★ Устойчивость движения систем связанных твердых тел. (Russian) [Stability of motion of systems of coupled rigid bodies] **93d:70011**
Shaw, Steven W. *see* **Falzarano, Jeffrey M.; et al., 93b:76016**
Sidorenko, V. V. Stationary motions of a satellite with elastic rods that admits a symmetry group. (Russian) **93a:70028**
Simo, Juan C. (*with* Rifai, M. S.; Fox, D. D.) On a stress resultant geometrically exact shell model. VI. Conserving algorithms for nonlinear dynamics. **93e:73027**
— (*with* Tarnow, N.) The discrete energy-momentum method. Conserving algorithms for nonlinear elastodynamics. (English summary) **93g:73118**
Steindl, A. (*with* Troger, H.) Chaotic motion in mechanical and engineering systems. (English summary) **93k:58159**
Tarnow, N. *see* **Simo, Juan C., 93g:73118**
Tobias, Irwin *see* **Coleman, Bernard D.; et al., 93k:73046**
Tran Thu Ha *see* **Ngô Huy Cân, 93k:76039**
Triggiani, Roberto *see* **Lasiecka, Irena, 93e:93006**
Troesch, Armin W. *see* **Falzarano, Jeffrey M.; et al., 93b:76016**
Troger, H. *see* **Steindl, A., 93k:58159**
Tucsnak, Marius Exact controllability for a hyperbolic equation with time-dependent coefficients. **93g:93061**
— Global existence and uniqueness for a class of quasilinear hyperbolic equations. **93h:34113**
Valid, R. The nonlinear principles of complementary energy in shell theory statics and dynamics. II. Dynamics. (English summary) **93i:73035b**
Vanninathan, M. *see* **Conca, C.; et al., 93m:73030**
Vasil'ev, D. G. (*with* Levitin, M. R.; Lidskiĭ, V. B.) Forced oscillations of a shell immersed in a viscous compressible fluid. (Russian) **93k:73067**
Vieira, M. C. de Campos *see* **Pereira, Ducival Carvalho; et al., 93h:34112**
Wagner, Peter[2] *see* **Ortner, Norbert, 93k:35006**
Wang, Cun Zheng *see* **Li, Hong Xiang**
Wheeler, Robert L. *see* **Hannsgen, Kenneth B., 93f:93113**
Yang, B. Eigenvalue inclusion principles for discrete gyroscopic systems. **93d:70036**
— Eigenvalue inclusion principles for distributed gyroscopic systems. (English summary) **93i:70020**
Yoshida, Norio Resonance oscillations of beam equations. **93k:35259**
Zhang, Ju Yong *see* **Fan, Jia Rang**
Zhang, W.-S. *see* **Lau, S. L., 93e:70010**
Zuazua, Enrike *see* **Puel, Jean-Pierre, (93i:93005)**

73K15 Shells

Akian, Jean-Luc (*with* Sánchez-Palencia, Enrique) Approximation de coques élastiques minces par facettes planes. Phénomènes de blocage membranaire. (English and French summaries) [Approximation of thin elastic shells by flat elements. Phenomena of membrane locking] **93g:73086**
Azanov, N. P. On an infinitesimal deformation of a thermoelastic membrane. (Russian) **93h:73026**
Babenko, V. I. *see* **Pogorelov, A. V., 93g:73089**
Başar, Y. (*with* Weichert, D.) A finite-rotation theory for elastic-plastic shells under consideration of shear deformations. (German and Russian summaries) **93a:73060**
Bufler, Hans *see* **Sansour, Carlo, 93c:73071**
Ciarlet, Philippe G. Échange de limites en théorie asymptotique de coques. I. En premier lieu, "la coque devient une plaque". (English summary) [Interchanging limits in asymptotic shell theory. I. First, "the shell becomes a plate"] **93f:73069**
— Échange de limites en théorie asymptotique de coques. II. En premier lieu, l'épaisseur tend vers zéro. (English and French summaries) [Interchanging limits in asymptotic shell theory. II. First, the thickness approaches zero] **93k:73061**
— (*with* Miara, Bernadette) Justification of the two-dimensional equations of a linearly elastic shallow shell. **93e:73023**
Dean, Cleon E. (*with* Werby, Michael F.) Hamilton's principle and the equations of motion of an elastic shell with and without fluid loading. (English summary) (*see* **93j:00008**)
Destuynder, Philippe (*with* Salaun, Michel) A mixed formulation for a general shell model. (Portuguese summary) **93g:73087**
Fan, Jia Rang (*with* Zhang, Ju Yong) Exact solutions for thick laminated shells. (English summary)
Figueiredo, Isabel M. N. (*with* Trabucho, L.) A Galerkin approximation for linear elastic shallow shells. (English summary) **93i:73034**
Fox, D. D. (*with* Simo, Juan C.) A drill rotation formulation for geometrically exact shells. (English summary) **93c:73068**
— *see also* **Simo, Juan C.; et al., 93e:73027**
Gałka, A. (*with* Telega, Józef Joachim) The complementary energy principle as a dual problem for a specific model of geometrically nonlinear elastic shells with an independent rotation vector: general results. **93c:73069**
Ganeeva, M. S. ★ Прочность и устойчивость оболочек вращения. (Russian. English and Russian summaries) [Strength and stability of shells of revolution] **93g:73088**
Grigorenko, Ya. M. (*with* Vasilenko, A. T.) ★ Задачи статики анизотропных неоднородных оболочек. (Russian. English and Russian summaries) [Problems of the statics of anisotropic nonhomogeneous shells] **93k:73062**
Ji, Xing *see* **Zheng, Guo Ying**
Kalamkarov, A. L. *see* **Parton, V. Z., 93e:73024**
Kennedy, J. G. *see* **Simo, Juan C., 93e:73026**
Meunargiya, T. V. Nonshallow shells. **93c:73070**
— On rigid displacements for nonshallow spherical shells. (Russian. English, Russian and Georgian summaries)
Miara, Bernadette *see* **Ciarlet, Philippe G., 93e:73023**
Mukhamadiev, A. Sh. *see* **Nazirov, Sh. A.**
Nazirov, Sh. A. (*with* Mukhamadiev, A. Sh.) Equations of the equilibrium and motion of anisotropic conic shells. (Russian. Russian summary)

Parton, V. Z. (*with* Kalamkarov, A. L.) The general homogenized composite shell model and the applications. **93e:73024**
Peradze, D. G. The dynamic problem for Reissner's one-dimensional system. **93a:73061**
Pogorelov, A. V. On the lower limit of a critical load under axial compression of a cylindrical shell. (Russian) **93k:73063**
— (*with* Babenko, V. I.) Geometric methods in the theory of stability of thin shells (a survey). (Russian. English and Ukrainian summaries) **93g:73089**
Rifai, M. S. *see* **Simo, Juan C.; et al., 93e:73027**
Rychter, Zenon A family of shear deformation theories for shallow shells. (English summary) **93m:73026**
Salaun, Michel *see* **Destuynder, Philippe, 93g:73087**
Sánchez-Palencia, Enrique *see* **Akian, Jean-Luc, 93g:73086**
Sansour, Carlo (*with* Bufler, Hans) An exact finite rotation shell theory, its mixed variational formulation and its finite element implementation. **93c:73071**
Simmonds, James G. An asymptotic analysis of end effects in the axisymmetric deformation of elastic tubes weak in shear: higher-order shell theories are inadequate and unnecessary. **93e:73025**
Simo, Juan C. (*with* Kennedy, J. G.) On a stress resultant geometrically exact shell model. V. Nonlinear plasticity: formulation and integration algorithms. **93e:73026**
— (*with* Rifai, M. S.; Fox, D. D.) On a stress resultant geometrically exact shell model. VI. Conserving algorithms for nonlinear dynamics. **93e:73027**
— *see also* **Fox, D. D., 93c:73068**
Song, Gu Quan *see* **Zheng, Quan Shui; et al., 93j:73054**
Telega, Józef Joachim *see* **Galka, A., 93c:73069**
Trabucho, L. *see* **Figueiredo, Isabel M. N., 93i:73034**
Valid, R. The nonlinear principles of complementary energy in shell theory statics and dynamics. I. Statics. (English summary) **93i:73035a**
— The nonlinear principles of complementary energy in shell theory statics and dynamics. II. Dynamics. (English summary) **93i:73035b**
Vasilenko, A. T. *see* **Grigorenko, Ya. M., 93k:73062**
Wang, Jian Guo The fundamental solutions of orthotropic shallow shells. **93b:73029**
Weichert, D. *see* **Başar, Y., 93a:73060**
Werby, Michael F. *see* **Dean, Cleon E., (93j:00008)**
Yang, De Pin *see* **Zheng, Quan Shui; et al., 93j:73054**
Zhang, Ju Yong *see* **Fan, Jia Rang**
Zheng, Guo Ying (*with* Ji, Xing) An elaboration of integral equations of a new boundary element method for thin elastic shells. (Chinese. English and Chinese summaries)
Zheng, Quan Shui (*with* Yang, De Pin; Song, Gu Quan) Structure of rod shell theories in Hilbert space. (Chinese. English and Chinese summaries) **93j:73054**

Items with secondary classifications in 73K15

Andrianov, I. V. *see* **Obraztsov, I. F.; et al., 93a:73064**
Antman, Stuart S. *see* **Lanza de Cristoforis, Massimo, 93k:73066**
Başar, Y. Finite-rotation theories for composite laminates. (English summary) **93k:73064**
Bernadou, M. (*with* Mato Eiroa, P.; Trouvé, Pascal) On the approximation of general linear thin shell problems by D.K.T. methods. (Portuguese summary) **93c:65140**
Bradford, I. D. R. *see* **Rogers, T. G.; et al., 93i:73032**
Čanak, Miloš Hilbert's boundary value problem for the generalized analytic functions. (English summary)
Chróścielewski, J. (*with* Makowski, J.; Stumpf, Helmut) Genuinely resultant shell finite elements accounting for geometric and material nonlinearity. **93a:73079**
Chueshov, I. D. Construction of solutions in a problem of the oscillations of a shell in a potential subsonic flow. (Russian) **93c:73078**
Ciarlet, Philippe G. (*with* Miara, Bernadette) On the ellipticity of linear shell models. **93c:73022**
Coimbra Charão, R. (*with* Perla Menzala, G.) On Huygens' principle and perturbed elastic waves. **93d:35095**
Ditkin, V. V. On a hydrodynamic load on a vibrating wall of a cylindrical shell. (Russian) **93k:73065**
England, A. H. *see* **Rogers, T. G.; et al., 93i:73032**
Galduk, S. I. Application of the contour integral method to the solution of a problem on transverse vibrations of a viscoelastic membrane caused by an impact. (Russian) **93b:73017**
Grabmüller, Hans (*with* Pirner, Robert) Existence theorems for some boundary value problems in the nonlinear theory of annular elastic membranes. (English summary) **93j:73046**
Green, W. A. (*with* Shi, Jingyu) Degenerate deformations and uniqueness in highly elastic networks. (English summary) **93g:73065**
Habbal, Abderrahmane Theoretical and numerical study of nonsmooth shape optimization applied to the arch problem. **93d:73053**
Kikuchi, Fumio *see* **Yamada, Takahiro; et al., 93c:73097**
Kikuchi, Noboru *see* **Suzuki, Katsuyuki, 93a:73063**
Kladinoga, V. S. (*with* Trotsenko, V. A.) Eigenoscillations of a hyperelastic annular membrane, predeformed by an axisymmetric load, with a rigid disk. (Russian. Russian summary) **93k:73060**
Kobozeva, A. A. (*with* Maslovskaya, L. V.) A generalized Cholesky algorithm in problems in the theory of plates and shells. (Russian. Russian summary) **93h:73039**
Kudrik, P. I. Infinitesimal bendings of a piece of surface of revolution. (Ukrainian. Russian and Ukrainian summaries) **93e:53003**
Lanza de Cristoforis, Massimo (*with* Antman, Stuart S.) The large deformation of non-linearly elastic shells in axisymmetric flows. (English and French summaries) **93k:73066**
Levitin, M. R. *see* **Vasil'ev, D. G.; et al., 93k:73067**
Lidskiĭ, V. B. *see* **Vasil'ev, D. G.; et al., 93k:73067**
Makowski, J. *see* **Chróścielewski, J.; et al., 93a:73079**
Maslovskaya, L. V. *see* **Kobozeva, A. A., 93h:73039**
Mato Eiroa, P. *see* **Bernadou, M.; et al., 93c:65140**
Miara, Bernadette *see* **Ciarlet, Philippe G., 93c:73022**
Mikhasëv, G. I. On a solution of a system of integro-differential equations that describes free oscillations of a viscoelastic cylindrical shell. (Russian. English and Russian summaries) **93j:73052**
Murphy, Jeremiah G. Some new closed-form solutions describing spherical inflation in compressible finite elasticity. **93a:73047**
Nerubaĭlo, B. V. *see* **Obraztsov, I. F.; et al., 93a:73064**
Nguyễn Xuân Tấn Local bifurcation from characteristic values with finite multiplicity and its application to axisymmetric buckled states of a thin spherical shell. **93h:47072**
Obraztsov, I. F. (*with* Nerubaĭlo, B. V.; Andrianov, I. V.) ★ Асимптотические методы в строительной механике тонкостенных конструкций. (Russian) [Asymptotic methods in the structural mechanics of thin-walled structures] **93a:73064**
Perla Menzala, G. *see* **Coimbra Charão, R., 93d:35095**
Pirner, Robert *see* **Grabmüller, Hans, 93j:73046**
Pitkäranta, Juhani The problem of membrane locking in finite element analysis of cylindrical shells. **93b:65178**
Rao, Murali (*with* Sokołowski, Jan) Sensitivity analysis of shallow shell with obstacle. (*see* **93d:93006**)
Ren, Wen Min *see* **Wu, Yi²; et al., 93j:73041**
Rogers, T. G. (*with* Bradford, I. D. R.; England, A. H.) Finite plane deformations of highly anisotropic elastic-plastic plates and shells. (English summary) **93i:73032**
Rosati, Mario Valerio A nonlinear eigenvalue problem governing the eversion of elastic spherical caps. **93a:47084**
Sánchez-Palencia, Enrique Asymptotic and spectral properties of a class of singular-stiff problems. (English summary) **93m:47075**
Shi, Jingyu Deformations of planar networks of elastic cords onto a surface of revolution.
— *see also* **Green, W. A., 93g:73065**
Sokołowski, Jan *see* **Rao, Murali, (93d:93006)**
Sorem, R. M. *see* **Surana, K. S., 93c:73096**
Soyuçok, Ziya The stress distribution and wrinkling regions in closed rotational membranes under constant inner pressure. (English summary) **93g:53007**
Steigmann, D. J. Cavitation in elastic membranes—an example. **93i:73028**
Stumpf, Helmut *see* **Chróścielewski, J.; et al., 93a:73079**
Surana, K. S. (*with* Sorem, R. M.) Completely hierarchical *p*-version curved shell element for laminated composite plates and shells. (English summary) **93c:73096**
Suzuki, Katsuyuki (*with* Kikuchi, Noboru) Generalized layout optimization of three-dimensional shell structures. **93a:73063**
Trotsenko, V. A. *see* **Kladinoga, V. S., 93k:73060**
Trouvé, Pascal Various nonconforming approximations of thin shell problems and the question of their convergence. (English and Portuguese summaries) **93j:73071**
— *see also* **Bernadou, M.; et al., 93c:65140**
Truc, Françoise Application d'une méthode variationnelle à l'équation des coques et aux systèmes gyroscopiques. (English and French summaries) [Application of a variational method to a shell equation and to gyroscopic systems] **93i:34028**
Vasil'ev, D. G. (*with* Levitin, M. R.; Lidskiĭ, V. B.) Forced oscillations of a shell immersed in a viscous compressible fluid. (Russian) **93k:73067**
Wada, A. *see* **Yamada, Takahiro; et al., 93c:73097**
Wu, Yi² (*with* Ren, Wen Min; Zhang, Wei²) Perturbation formulation of continuation method including limit and bifurcation points. (Chinese. English and Chinese summaries) **93j:73041**
Yamada, Takahiro (*with* Kikuchi, Fumio; Wada, A.) A 9-node mixed shell element based on the Hu-Washizu principle. (English summary) **93c:73097**
Zhang, Wei² *see* **Wu, Yi²; et al., 93j:73041**

73K20 Composite structures and materials

Avellaneda, Marco Bounds on the effective elastic constants of two-phase composite materials. **93f:73070**
Başar, Y. Finite-rotation theories for composite laminates. (English summary) **93k:73064**
Bruno, Oscar P. Taylor expansions and bounds for the effective conductivity and the effective elastic moduli of multicomponent composites and polycrystals. **93c:73072**
Buryachenko, V. A. (*with* Parton, V. Z.) Effective parameters of the strength of composites in joint physical-mechanical fields. (Russian) **93j:73055**
Dhaliwal, Ranjit S. *see* **He, Whenhua, 93c:73073**
Getman, I. P. (*with* Mol'kov, V. A.) On effective characteristics of piezoactive composites with cylindrical inclusions. (Russian. Russian summary) **93g:73090**
Golovchan, V. T. (*with* Kushch, V. I.) Elastic equilibrium and effective moduli of a crosswise-reinforced fibrous composite. (Russian. English and Ukrainian summaries)
He, Whenhua (*with* Dhaliwal, Ranjit S.) A problem of Reissner-Sagoci type for a semi-infinite composite elastic cylinder. **93c:73073**
Karaliūnas, Romas J. Formal averaging of equations in plasticity theory in the case of two-stage deformation processes. (Russian. Lithuanian summary) **93j:73056**
Kushch, V. I. *see* **Golovchan, V. T.**
Markov, Konstantin Z. (*with* Zvyatkov, K. D.) Optimal third-order bounds on the effective properties of some composite media, and related problems. (English and Russian summaries) **93f:73071**
Milton, Graeme W. Composite materials with Poisson's ratios close to −1. **93c:73074**
Mol'kov, V. A. *see* **Getman, I. P., 93g:73090**
Parton, V. Z. *see* **Buryachenko, V. A., 93j:73055**
Pham Duc Chinh Bounds on the effective shear modulus of multiphase materials. (English summary) **93i:73036**
Schulgasser, K. Relationships between the effective properties of transversely isotropic piezoelectric composites. **93a:73062**
Talbot, D. R. S. (*with* Willis, J. R.) Some simple explicit bounds for the overall behaviour of nonlinear composites. **93e:73028**
Willis, J. R. *see* **Talbot, D. R. S., 93e:73028**
Zimmerman, Robert W. Hashin-Shtrikman bounds on the Poisson ratio of a composite material. **93g:73091**
Zvyatkov, K. D. *see* **Markov, Konstantin Z., 93f:73071**

Items with secondary classifications in 73K20

Alliney, S. (*with* Carnicer, R. S.) A hybrid finite element model for multilayered plates. (English summary) **93g:73107**

Álvarez Vázquez, L. J. (*with* Quintela Estévez, Peregrina) The effect of different scalings in the modelling of nonlinearly elastic plates with rapidly varying thickness. **93h:73024**

Andrianov, I. V. (*with* Shevchenko, V. V.) Punctured plates and shells. (Russian. Russian summary) (*see* **93d:00031**)

Benveniste, Yakov (*with* Dvorak, George J.) Uniform fields and universal relations in piezoelectric composites. (English summary) **93g:73101**

— *see also* **Dvorak, George J., 93e:73034a**

Berlyand, L. V. (*with* Kozlov, S. M.) Asymptotics of the homogenized moduli for the elastic chess-board composite. **93h:73003**

Bouchitté, Guy (*with* Suquet, Pierre) Homogenization, plasticity and yield design. **93f:73008**

Bradford, I. D. R. *see* **Rogers, T. G.; et al., 93i:73032** *and* **England, A. H.; et al., 93k:73039**

Bruno, Oscar P. (*with* Leo, Perry H.) On the stiffness of materials containing a disordered array of microscopic holes or hard inclusions. (English summary) **93k:73005**

Bytner, S. (*with* Gambin, B.) Homogenization of heterogeneous elastic conductor in a magnetic field. (English summary)

Carnicer, R. S. *see* **Alliney, S., 93g:73107**

Cherkaev, A. V. (*with* Lur'e, K. A.; Milton, Graeme W.) Invariant properties of the stress in plane elasticity and equivalence classes of composites. (English summary) **93g:73009**

— (*with* Gibiansky, L. V.) The exact coupled bounds for effective tensors of electrical and magnetic properties of two-component two-dimensional composites. (English summary) **93k:73006**

Chirehdast, M. (*with* Papalambros, P. Y.) A note on automated detection of mobility of skeletal structures. (English summary) **93g:73072**

Cioranescu, Doïna (*with* Saint Jean Paulin, J.) Mathematical study of large space structures. **93f:73009**

Cohen, Harley (*with* Wang, Chao Chen) Some equilibrium problems for compressible, anisotropic, laminated nonlinearly elastic bodies. **93e:73011**

Costa Mattos, H. (*with* Frémond, M.; Mamiya, E. N.) A simple model of the mechanical behavior of ceramic-like materials. (English summary) **93f:73086**

Diaz, Alejandro R. (*with* Kikuchi, Noboru) Solutions to shape and topology eigenvalue optimization problems using a homogenization method. (English summary) **93f:73073**

Dvorak, George J. On some exact results in thermoplasticity of composite materials. (English summary) **93e:73004**

— (*with* Benveniste, Yakov) On transformation strains and uniform fields in multiphase elastic media. **93e:73034a**

— Transformation field analysis of inelastic composite materials. **93e:73034b**

— *see also* **Benveniste, Yakov, 93g:73101**

England, A. H. (*with* Rogers, T. G.; Bradford, I. D. R.) Finite deformations of a fibre-reinforced cantilever: distributed-load solutions. (English summary) **93k:73039**

— *see also* **Rogers, T. G.; et al., 93i:73032**

Ergashov, M. Investigation of processes of elastic wave propagation in winding connections taking into account the effects of their rotation and stretching. (Russian) **93d:73035**

Ermolaev, B. V. The use of generalized functions in a problem on elastic oscillations of a composite rod. (Russian. Russian summary) **93k:73058**

Francfort, G. A. Homogenisation of a class of fourth order equations with application to incompressible elasticity. **93d:73006**

Frémond, M. *see* **Costa Mattos, H.; et al., 93f:73086**

Gałka, A. (*with* Telega, Józef Joachim; Wojnar, R.) Homogenization and thermopiezoelectricity. **93d:73063**

Gambin, B. *see* **Bytner, S.**

Gavazzi, A. C. *see* **Lagoudas, D. C.; et al., 93g:73055**

Gibiansky, L. V. *see* **Cherkaev, A. V., 93k:73006**

Grigorenko, Ya. M. (*with* Vasilenko, A. T.) ★ Задачи статики анизотропных неоднородных оболочек. (Russian. English and Russian summaries) [Problems of the statics of anisotropic nonhomogeneous shells] **93k:73062**

Guz', A. N. (*with* Kabelka, I.; Markush, Sh.; et al.) ★ Динамика и устойчивость слоистых композитных материалов. (Russian. Russian summary) [Dynamics and stability of layered composite materials] **93g:73084**

Hashin, Zvi Extremum principles for elastic heterogenous media with imperfect interfaces and their application to bounding of effective moduli. **93b:73006**

Haslinger, Jaroslav *see* **Panagiotopoulos, P. D., 93m:49007**

Herrmann, G. *see* **Honein, E.; et al., 93f:73031**

Honein, E. (*with* Honein, T.; Herrmann, G.) On two circular inclusions in harmonic problems. (English summary) **93f:73031**

Honein, T. *see* **Honein, E.; et al., 93f:73031**

Hull, B. D. (*with* Rogers, T. G.; Spencer, A. J. M.) Controllable flows of ideal fibre-reinforced fluids.

James, Douglas Implicit nullspace iterative methods for constrained least squares problems. **93b:65055**

Kabelka, I. *see* **Guz', A. N.; et al., 93g:73084**

Kaczmarek, M. On kinematics in the theory of multiphase media: comparison between two traditions. **93d:73018**

Kagadii, T. S. (*with* Massakovskaya, L. V.; Pavlenko, A. V.) The perturbation method in a three-dimensional problem of linear viscoelasticity of anisotropic bodies. (Russian) **93b:73024**

Kalamkarov, A. L. *see* **Parton, V. Z., 93e:73024**

Khatiashvili, G. M. On the bending by a transverse force of composite cylindrical bodies with rectilinear anisotropy of general form. (Russian) **93j:73062**

Kikuchi, Noboru *see* **Suzuki, Katsuyuki, 93a:73063** *and* **Diaz, Alejandro R., 93f:73073**

Kobelev, V. V. Microstructural model of a fibrous composite fracture. **93c:73089**

Kolpakov, A. G. Thin elastic plates of periodic structure with internal unilateral contacts. (Russian) **93c:73062**

— On a problem of the thermoelasticity of nonhomogeneous plates. (Russian. Russian summary) **93k:73051**

Koya, Tatsuhito *see* **Mura, Toshio, 93j:73001**

Kozlov, S. M. On the domain of change of added mass, polarization and effective characteristics of composites. (Russian) **93f:73010**

— *see also* **Berlyand, L. V., 93h:73003**

Kucharski, St. *see* **Lewiński, Tomasz, 93g:73010**

Laborde, Patrick (*with* Michrafy, Abderrahim) Algorithme à "rigidité tangente" pour des problèmes d'endommagement. (English and French summaries) ["Tangent stiffness" algorithm for some damage problems] **93g:73114**

Lado, F. *see* **Torquato, S., 93c:73007**

Lagnese, John E. Modelling and stabilization of nonlinear plates. **93e:93050**

Lagoudas, D. C. (*with* Gavazzi, A. C.; Nigam, H.) Elastoplastic behavior of metal matrix composites based on incremental plasticity and the Mori-Tanaka averaging scheme. (English summary) **93g:73055**

Lenyuk, M. P. (*with* Paskar', A. A.) Quasistatic thermoelastic fields in a continuous bicomposite cylindrically anisotropic plate. Solution in stresses. (Russian. English, Russian and Moldavian summaries) **93f:73014**

Leo, Perry H. *see* **Bruno, Oscar P., 93k:73005**

Lewiński, Tomasz (*with* Telega, Józef Joachim) Homogenization and effective properties of plates weakened by partially penetrating fissures: asymptotic analysis. **93f:73059**

— (*with* Kucharski, St.) A model with length scales for composites with periodic structure. Steady state heat conduction problem. I. Formulation. (English summary) **93g:73010**

Liu, Ren Huai (*with* Wu, Jian Cheng) Nonlinear vibration of rectangular sandwich plates. (English summary)

Lobo-Hidalgo, Miguel (*with* Pérez, Eugenia) Boundary homogenization of certain elliptic problems for cylindrical bodies. (English and French summaries) **93i:35015**

Lur'e, K. A. *see* **Cherkaev, A. V.; et al., 93g:73009**

Mamiya, E. N. *see* **Costa Mattos, H.; et al., 93f:73086**

Marchenko, A. V. Propagation of discontinuities in a drifting ice cap. (Russian. Russian summary) **93m:86001**

Markush, Sh. *see* **Guz', A. N.; et al., 93g:73084**

Massakovskaya, L. V. *see* **Kagadii, T. S.; et al., 93b:73024**

Michrafy, Abderrahim *see* **Laborde, Patrick, 93g:73114**

Mićunović, Milan V. On viscoplasticity of transversely isotropic materials. (German and Serbo-Croatian summaries) **93e:73016**

Milton, Graeme W. The field equation recursion method. **93b:73007**

— *see also* **Nesi, Vincenzo, 93a:73070** *and* **Cherkaev, A. V.; et al., 93g:73009**

Mura, Toshio (*with* Koya, Tatsuhito) ★ Variational methods in mechanics. **93j:73001**

Nesi, Vincenzo (*with* Milton, Graeme W.) Polycrystalline configurations that maximize electrical resistivity. **93a:73070**

Nigam, H. *see* **Lagoudas, D. C.; et al., 93g:73055**

Nosier, A. (*with* Reddy, J. N.) On vibration and buckling of symmetric laminated plates according to shear deformation theories. I, II. **93g:73078**

Panagiotopoulos, P. D. (*with* Haslinger, Jaroslav) On the dual reciprocal variational approach to the Signorini-Fichera problem. Convex and nonconvex generalization. (English, German and Russian summaries) **93m:49007**

— *see also* **Stavroulakis, G. E., 93f:73062**

Papalambros, P. Y. *see* **Chirehdast, M., 93g:73072**

Parton, V. Z. (*with* Kalamkarov, A. L.) The general homogenized composite shell model and the applications. **93e:73024**

Paşa, Gelu I. Bounds for effective coefficients of periodic materials in the nonsymmetric case. (English summary) **93f:73012**

Paskar', A. A. *see* **Lenyuk, M. P., 93f:73014**

Pavlenko, A. V. *see* **Kagadii, T. S.; et al., 93b:73024**

Pérez, Eugenia *see* **Lobo-Hidalgo, Miguel, 93i:35015**

Ponte Castañeda, P. New variational principles in plasticity and their application to composite materials. (English summary) **93j:73073**

— A new variational principle and its application to nonlinear heterogeneous systems. (English summary) **93g:73012**

Quintela Estévez, Peregrina *see* **Álvarez Vázquez, L. J., 93h:73024**

Randles, P. W. Synthesis of equivalent dynamic laminate behavior by homogenization techniques. (English summary) **93f:73034**

Raoult, Annie Asymptotic modeling of the elastodynamics of a multi-structure. (English and French summaries) **93m:73008**

Reddy, J. N. *see* **Nosier, A., 93g:73078**

Rogers, T. G. (*with* Bradford, I. D. R.; England, A. H.) Finite plane deformations of highly anisotropic elastic-plastic plates and shells. (English summary) **93i:73032**

— (*with* Watson, P.; Spencer, A. J. M.) An exact three-dimensional solution for normal loading of inhomogeneous and laminated anisotropic elastic plates of moderate thickness. (English summary) **93f:73061**

— *see also* **England, A. H.; et al., 93k:73039** *and* **Hull, B. D.; et al.**

Rogowski, Bogdan The Reissner-Sagoci problem for layered orthotropic elastic media. (English summary)

Rushchitskii, Ya. Ya. Interaction of elastic waves in a two-phase material. (Russian. English and Ukrainian summaries) **93g:73049**

Rychlewski, Jan (*with* Xiao, Heng) Elasticity models of multidirectional composites with strong fibres. (Russian summary) **93c:73006**

Sab, K. On the homogenization and the simulation of random materials. (English summary) **93g:73013**

Saint Jean Paulin, J. *see* **Cioranescu, Doïna, 93f:73009**

Shevchenko, V. V. *see* **Andrianov, I. V., (93d:00031)**

Sorem, R. M. *see* **Surana, K. S., 93c:73096**

Spencer, A. J. M. Plasticity theory for fibre-reinforced composites. **93d:73036**

— (*with* Watson, P.) Buckling of laminated anisotropic plates under cylindrical bending. (English summary) **93i:73030**

— *see also* **Rogers, T. G.; et al., 93f:73061** *and* **Hull, B. D.; et al.**

Stavroulakis, G. E. (*with* Panagiotopoulos, P. D.) Delamination of multilayered plates in bending under monotone boundary and nonmonotone interlayer conditions. A variational-hemivariational inequality approach. (Bulgarian summary) **93f:73062**

Suquet, Pierre *see* **Bouchitté, Guy, 93f:73008**

Surana, K. S. (*with* Sorem, R. M.) Completely hierarchical *p*-version curved shell element for laminated composite plates and shells. (English summary) **93c:73096**

Suzuki, Katsuyuki (*with* Kikuchi, Noboru) Generalized layout optimization of three-dimensional shell structures. **93a:73063**

Telega, Józef Joachim *see* **Gałka, A.; et al., 93d:73063** *and* **Lewiński, Tomasz, 93f:73059**

Torquato, S. (*with* Lado, F.) Improved bounds on the effective elastic moduli of random

arrays of cylinders. (English summary) **93c:73007**
Vasilenko, A. T. *see* **Grigorenko, Ya. M., 93k:73062**
Walpole, L. J. Long elastic waves in a periodic composite. (English summary) **93h:73014**
Wang, Chao Chen *see* **Cohen, Harley, 93e:73011**
Watson, P. *see* **Rogers, T. G.; et al., 93f:73061** *and* **Spencer, A. J. M., 93i:73030**
Willis, J. R. Correction and addition: "On methods for bounding the overall properties of nonlinear composites" [J. Mech. Phys. Solids 39 (1991), no. 1, 73–86; MR 92f:73041b]. **93c:73008**
Wojnar, R. *see* **Gałka, A.; et al., 93d:73063**
Woźniak, Czesław Macro-modelling of thermoinelastic composites. (English, Russian and Polish summaries) **93g:73020**
— Averaged thermodynamics of nonelastic composite materials. (*see* **93a:82002**)
Wu, Jian Cheng *see* **Liu, Ren Huai**
Xiao, Heng *see* **Rychlewski, Jan, 93c:73006**
Zhikov, V. V. Estimates for an averaged matrix and an averaged tensor. (Russian) **93a:73005**

73K35 Random vibrations

Ariaratnam, S. T. (*with* Xie, Wei Chau) Lyapunov exponents and stochastic stability of coupled linear systems under real noise excitation. (English summary) **93g:73092**
Colombi, Pierluigi *see* **Elishakoff, Isaac, 93m:73027**
Donley, M. G. *see* **Spanos, Pol-T. D., 93f:73072**
Elishakoff, Isaac (*with* Colombi, Pierluigi) Combination of probabilistic and convex models of uncertainty when scarce knowledge is present on acoustic excitation parameters. (English summary) **93m:73027**
Fillatre, O. Identification of weakly nonlinear dynamic systems by means of random excitations. (French. English and French summaries) **93h:73027**
Meng, Qing Sheng Random sequency analysis. **93d:73050**
Spanos, Pol-T. D. (*with* Donley, M. G.) Nonlinear multi-degree-of-freedom system random vibration by equivalent statistical quadratization. (English summary) **93f:73072**
Xie, Wei Chau *see* **Ariaratnam, S. T., 93g:73092**

Items with secondary classifications in 73K35

Ariaratnam, S. T. (*with* Xie, Wei Chau) Lyapunov exponents in stochastic structural dynamics. (English summary) **93f:73063**
Benaroya, Haym Random eigenvalues, algebraic methods and structural dynamic models. (English summary) **93g:73081**
Drozdov, A. D. (*with* Kolmanovskiĭ, V. B.) The stability of viscoelastic rods under a random longitudinal load. (Russian) **93e:73019**
Kolmanovskiĭ, V. B. *see* **Drozdov, A. D., 93e:73019**
Rogol, S. L. *see* **Sinenko, N., (93e:60006)**
vom Scheidt, Jürgen (*with* Wöhrl, U.; Wulff, S.) A method for the numerical treatment of nonlinear stochastic vibrations of vehicles.
Sinenko, N. (*with* Rogol, S. L.) On exponential $2p$-stability of the beam under longitudinal perturbations. (English and Latvian summaries) (*see* **93e:60006**)
Sobczyk, Kazimierz ★ Stochastic differential equations. **93f:60091**
— (*with* Spencer, Billie F., Jr.) ★ Random fatigue. **93c:73084**
Spencer, Billie F., Jr. *see* **Sobczyk, Kazimierz, 93c:73084**
Svetlitskiĭ, V. A. ★ Случайные колебания механических систем. (Russian) [Random oscillations of mechanical systems] **93b:70027**
Wöhrl, U. *see* **vom Scheidt, Jürgen; et al.**
Wulff, S. *see* **vom Scheidt, Jürgen; et al.**
Xie, Wei Chau *see* **Ariaratnam, S. T., 93f:73063**

73K40 Optimization [see also 90C90]

Achtziger, W. (*with* Bendsøe, M.; Ben-Tal, A.; Zowe, Jochem) Equivalent displacement based formulations for maximum strength truss topology design. (English summary) **93j:73057**
Adey, R. A. *see* **Zhao, Zhiye, 93f:73076**
Alvarez Vigil, A. E. (*with* González Nicieza, C.; Ordieres Meré, J. B.) Numerical solution of an optimal shape design problem with elastic solids. (English summary) **93g:73093**
Anagnostou, George (*with* Rønquist, Einar M.; Patera, Anthony T.) A computational procedure for part design. (English summary) **93g:73094**
Bendsøe, M. *see* **Achtziger, W.; et al., 93j:73057**
Ben-Tal, A. *see* **Achtziger, W.; et al., 93j:73057**
Bischoff, Dieter Ernst *see* **Mahnken, R.; et al., 93f:73074**
Butt, R. (*with* Rubio, J. E.) Optimal shape design for a frictionless contact problem. **93d:73051**
Choi, Kyung K. *see* **Twu, Sung-Ling, 93f:73075**
Cox, Steven J. (*with* Overton, Michael L.) On the optimal design of columns against buckling. **93d:73052**
Diaz, Alejandro R. (*with* Kikuchi, Noboru) Solutions to shape and topology eigenvalue optimization problems using a homogenization method. (English summary) **93f:73073**
González Nicieza, C. *see* **Alvarez Vigil, A. E.; et al., 93g:73093**
Habbal, Abderrahmane Theoretical and numerical study of nonsmooth shape optimization applied to the arch problem. **93d:73053**
Haslinger, Jaroslav (*with* Neittaanmäki, Pekka; Salmenjoki, K.) Sensitivity analysis for discretized unilateral plane elasticity problem. (English summary) **93j:73058**
Hlaváček, Ivan Shape optimization of elastoplastic bodies by the finite element method. (*see* **93b:65007**)
Kikuchi, Noboru *see* **Suzuki, Katsuyuki, 93a:73063** *and* **Diaz, Alejandro R., 93f:73073**
Klarbring, Anders (*with* Mikelić, Andro; Shillor, Meir) Optimal shape design in contact problems with normal compliance and friction. **93d:73054**
Lellep, Jaan ★ Optimization of plastic structures. **93d:73055**
Liang, Bin *see* **Yu, Huan Ran, (93a:41001)**
Lods, Véronique Formulation mixte d'un problème de jonctions de poutres adaptée à la résolution d'un problème d'optimisation. (English summary) [A mixed formulation for a model of junctions of beams adapted to the solution of an optimization problem] **93g:73095**
Mahnken, R. (*with* Stein, Erwin; Bischoff, Dieter Ernst) A stabilization procedure by line-search computation for first order approximation strategies in structural optimization. (English summary) **93f:73074**
Marti, K. Stochastic optimization in structural design. **93h:73028**
Mikelić, Andro *see* **Klarbring, Anders; et al., 93d:73054**
Neittaanmäki, Pekka *see* **Haslinger, Jaroslav; et al., 93j:73058**
Ordieres Meré, J. B. *see* **Alvarez Vigil, A. E.; et al., 93g:73093**
Overton, Michael L. *see* **Cox, Steven J., 93d:73052**
Patera, Anthony T. *see* **Anagnostou, George; et al., 93g:73094**
Petukhov, L. V. Dual estimates in problems on the design of elastic structures. (Russian. Russian summary) **93j:73059**
Rønquist, Einar M. *see* **Anagnostou, George; et al., 93g:73094**
Rubio, J. E. *see* **Butt, R., 93d:73051**
Salmenjoki, K. *see* **Haslinger, Jaroslav; et al., 93j:73058**
Shillor, Meir *see* **Klarbring, Anders; et al., 93d:73054**
Stein, Erwin *see* **Mahnken, R.; et al., 93f:73074**
Suzuki, Katsuyuki (*with* Kikuchi, Noboru) Generalized layout optimization of three-dimensional shell structures. **93a:73063**
Twu, Sung-Ling (*with* Choi, Kyung K.) Configuration design sensitivity analysis of built-up structures. I. Theory. (English summary) **93f:73075**
Yu, Huan Ran (*with* Liang, Bin) Optimal design of minimax deflection of a cylindrical shell. (*see* **93a:41001**)
Zhao, Zhiye (*with* Adey, R. A.) An alternative approach to shape design sensitivity analysis. (English summary) **93f:73076**
Zowe, Jochem *see* **Achtziger, W.; et al., 93j:73057**

Items with secondary classifications in 73K40

Andrew, Alan L. (*with* Chu, K.-w. Eric; Lancaster, Peter) Sensitivities of eigenvalues and eigenvectors of problems nonlinear in the eigenparameter. **93d:15013**
Bock, Igor Thickness optimization in viscoelastic plate bending. **93a:49024**
— (*with* Lovíšek, Ján) An optimal control problem for a pseudoparabolic variational inequality. (Slovak summary) **93f:49012**
Bruno, R. *see* **Milman, Mark H.; et al., 93g:73096**
Chipot, Michel (*with* Dal Maso, Gianni) Relaxed shape optimization: the case of nonnegative data for the Dirichlet problem. **93d:49046**
Chirehdast, M. (*with* Papalambros, P. Y.) A note on automated detection of mobility of skeletal structures. (English summary) **93g:73072**
Chu, K.-w. Eric *see* **Andrew, Alan L.; et al., 93d:15013**
Dal Maso, Gianni *see* **Chipot, Michel, 93d:49046**
Finzi Vita, S. Numerical shape optimization for relaxed Dirichlet problems. (English summary) **93j:49042**
Fujii, Nobuo *see* **Masanao, T., 93b:49043** *and* **93b:49044**
Gibson, J. S. *see* **Milman, Mark H.; et al., 93g:73096**
Haslinger, Jaroslav Shape optimization in unilateral boundary value problems. (*see* **93a:73001**)
— Signorini problem with Coulomb's law of friction. Shape optimization in contact problems. **93f:73093**
Hlaváček, Ivan (*with* Křížek, Michal) Weight minimization of elastic bodies weakly supporting tension. I. Domains with one curved side. (Czech summary) **93c:73029**
Klarbring, Anders On the problem of optimizing contact force distributions. **93f:73095**
Křížek, Michal *see* **Hlaváček, Ivan, 93c:73029**
Lancaster, Peter *see* **Andrew, Alan L.; et al., 93d:15013**
Lovíšek, Ján *see* **Bock, Igor, 93f:49012**
Mäkelä, Marko M. (*with* Neittaanmäki, Pekka) ★ Nonsmooth optimization. **93i:49002**
Masanao, T. (*with* Fujii, Nobuo) Second-order necessary conditions for domain optimization problems in elastic structures. I. Surface traction given as a field. **93b:49043**
— (*with* Fujii, Nobuo) Second-order necessary conditions for domain optimization problems in elastic structures. II. Surface traction dependent on the shape. **93b:49044**
Milman, Mark H. (*with* Salama, M.; Scheid, R. E.; Bruno, R.; Gibson, J. S.) Combined control-structural optimization. **93g:73096**
Mróz, Z. *see* **Pycko, S., 93c:73039**
Neittaanmäki, Pekka On the control of the domain in variational inequalities. **93c:49028**
— *see also* **Mäkelä, Marko M., 93i:49002**
Papalambros, P. Y. *see* **Chirehdast, M., 93g:73072**
Pycko, S. (*with* Mróz, Z.) Alternative approach to shakedown as a solution of a min-max problem. **93c:73039**
Salama, M. *see* **Milman, Mark H.; et al., 93g:73096**
Scheid, R. E. *see* **Milman, Mark H.; et al., 93g:73096**
Tahraoui, R. Contrôle optimal dans les équations elliptiques. (English summary) [Optimal control in elliptic equations] **93d:49006**
Villaggio, Piero The best position of a reinforcement in an elastic sheet. (Italian summary) **93b:73015**
Żochowski, A. Domain sensitivity for singular elliptic problems: harmonic transformation approach. **93c:49029**

73K50 Control of structures

(Anderson, Gary L.) *see* **Intelligent structural systems, 93e:73030**
Bruno, R. *see* **Milman, Mark H.; et al., 93g:73096**
Castel, L. *see* **Destuynder, Philippe; et al., (93e:73030)**
Destuynder, Philippe (*with* Legrain, I.; Castel, L.; Richard, N.) Piezoelectric wafers for reducing the structure vibrations. (*see* **93e:73030**)
Frantsuzov, S. B. *see* **Kondrashkov, A. V., 93f:73077**
Gibson, J. S. *see* **Milman, Mark H.; et al., 93g:73096**
Haslinger, Jaroslav *see* **Panagiotopoulos, P. D., 93e:73029**
Horn, Mary Ann Exact controllability of the Euler-Bernoulli plate via bending moments only on the space of optimal regularity. **93c:73075**

Isakov, A. V. Optimal damping of nutational oscillations of a body stabilized by rotation. A pendulum damper. (Russian. Russian summary) (*see* **93m:93005**)
Joó, István On the control of a circular membrane and related problems. **93m:73028**
Kondrashkov, A. V. (*with* Frantsuzov, S. B.) A plane problem on the strong bending of an elastic curvilinear rod. (Russian. English and Ukrainian summaries) **93f:73077**
Legrain, I. *see* **Destuynder, Philippe; et al.**, (**93e:73030**)
Milman, Mark H. (*with* Salama, M.; Scheid, R. E.; Bruno, R.; Gibson, J. S.) Combined control-structural optimization. **93g:73096**
Panagiotopoulos, P. D. (*with* Haslinger, Jaroslav) Optimal control and identification of structures involving multivalued nonmonotonicities. Existence and approximation results. **93e:73029**
Rao, Bopeng Stabilisation uniforme d'un système hybride en élasticité. (English and French summaries) [Uniform stabilization of a hybrid system in elasticity] **93m:73029**
Richard, N. *see* **Destuynder, Philippe; et al.**, (**93e:73030**)
Salama, M. *see* **Milman, Mark H.; et al.**, **93g:73096**
Scheid, R. E. *see* **Milman, Mark H.; et al.**, **93g:73096**
(Tzou, H. S.) *see* **Intelligent structural systems**, **93e:73030**

Items listed otherwise than by author

Intelligent structural systems ★ Intelligent structural systems. **93e:73030**

Items with secondary classifications in 73K50

Audounet, J. *see* **Montseny, G.; et al.**, (**93i:93005**)
Augestein, Donald R. (*with* Baras, John S.; Fisher, Shalom M.) Parameter identification of large spacecraft systems based on frequency characteristics. (English summary) (*see* **93i:93005**)
Avdonin, S. A. (*with* Ivanov, S. A.; Ishmukhametov, A. Z.) A quadratic problem of the optimal control of the vibrations of a string. (Russian) **93d:49025**
Balakrishnan, A. V. Stochastic partial differential equations in control of structures. **93h:93037**
Banks, H. T. (*with* Rebnord, D. A.) Analytic semigroups: applications to inverse problems for flexible structures. **93h:35206**
— *see also* **Control and estimation in distributed parameter systems**, **93h:93006**
Baras, John S. *see* **Augestein, Donald R.; et al.**, (**93i:93005**)
Barbu, Viorel (*with* Korman, Philip) Approximating optimal controls for elliptic obstacle problem by monotone iteration schemes. **93e:65090**
Bartolomeo, Jerry (*with* Lasiecka, Irena; Triggiani, Roberto) Uniform exponential energy decay of Euler-Bernoulli equations by suitable boundary feedback operators. (Italian summary) **93d:93046**
Bontsema, Jan (*with* Curtain, Ruth F.; Kuiper, C. R.; Osinga, H. M.) Comparison of robustly stabilizing controllers for a flexible beam model with additive, multiplicative and stable factor perturbations. (English summary) (*see* **93i:93005**)
Burq, Nicolas (*with* Lebeau, Gilles) Micro-local approach to the control for the plates equation. (English summary) (*see* **93m:00044**)
Conrad, Francis (*with* Leblond, Juliette; Marmorat, Jean-Paul) Energy decay estimates for a beam with nonlinear boundary feedback. (English summary) (*see* **93c:93006**)
Corless, Martin (*with* Da, D.) Stability robustness of linear feedback controlled flexible mechanical systems. **93b:93082**
— (*with* Glielmo, Luigi) On the exponential stability of singularly perturbed systems. (English summary) **93i:34091**
Curtain, Ruth F. *see* **Bontsema, Jan; et al.**, (**93i:93005**)
Da, D. *see* **Corless, Martin**, **93b:93082**
Esfandiari, Ramin S. (*with* Sadek, Ibrahim S.) Optimal open/closed-loop control of a Rayleigh beam. (English summary)
Fabre, Caroline Résultats de contrôlabilité exacte interne pour l'équation de Schrödinger et leurs limites asymptotiques: application à certaines équations de plaques vibrantes. (English summary) [Results on exact internal controllability for the Schrödinger equation and their asymptotic limits: application to some vibrating-plate equations] **93d:35031**
Fisher, Shalom M. *see* **Augestein, Donald R.; et al.**, (**93i:93005**)
Fitzpatrick, Ben G. Approximation and control in integral equations of nonlinear viscoelasticity. **93d:73042**
Gibson, J. S. (*with* Rosen, I. G.; Tao, Gang) Approximation in control of thermoelastic systems. (English summary) **93f:65074**
Glielmo, Luigi *see* **Corless, Martin**, **93i:34091**
Gnedin, A. V. Stabilization of Euler-Bernoulli beam by a boundary control. (English summary) **93j:93128**
Grigoriadis, Karolos *see* **Smith, M. J.; et al.**, **93d:93056**
Hannsgen, Kenneth B. (*with* Wheeler, Robert L.) A representation formula for one-dimensional viscoelasticity with stabilizing boundary feedback. **93f:93113**
— (*with* Staffans, Olof J.; Wheeler, Robert L.) Rational approximation of the transfer function of a viscoelastic rod. (English summary) (*see* **93i:93005**)
Horn, Mary Ann (*with* Lasiecka, Irena) The Euler-Bernoulli plate is exactly controllable via bending moments only. **93j:35034**
— Uniform decay rates for the solutions to the Euler-Bernoulli plate equation with boundary feedback acting via bending moments. **93h:35054**
Ishmukhametov, A. Z. *see* **Avdonin, S. A.; et al.**, **93d:49025**
Ivanov, S. A. *see* **Avdonin, S. A.; et al.**, **93d:49025**
Joó, István On the optimal control of circular membranes. **93g:93010**
— On the control of a rectangular membrane. **93j:35035**
— On the control of a net of strings. **93m:93012**
Juang, Jer-Nan *see* **Phan, Minh; et al.**, **93c:93054**
Kalinnikov, V. G. Active damping of oscillations of a rotating linkage. (Russian. Russian summary) **93k:73059**
Kim, Jong Uhn Exact semi-internal control of an Euler-Bernoulli equation. (English summary) **93h:35026**
Komornik, Vilmos Stabilisation non linéaire de l'équation des ondes et d'un modèle de plaque. (English summary) [Nonlinear stabilization of the wave equation and of a plate model] **93f:35025**
Korman, Philip *see* **Barbu, Viorel**, **93e:65090**
Krabs, W. ★ On moment theory and controllability of one-dimensional vibrating systems and heating processes. **93f:93002**
— Controllability of a rotating beam. (*see* **93i:93005**)
Kubyshkin, E. P. Optimal control of the rotation of a solid body with a flexible rod. (Russian. Russian summary) **93i:70030**
Kuiper, C. R. *see* **Bontsema, Jan; et al.**, (**93i:93005**)
Lagnese, John E. Modelling and stabilization of nonlinear plates. **93e:93050**
Larin, V. B. Optimization in a Hardy space and a problem of parametrization of controllers (a survey). (Russian. English and Ukrainian summaries) **93g:93049**
Lasiecka, Irena (*with* Triggiani, Roberto) Exact controllability and uniform stabilization of Kirchhoff plates with boundary control only on $\Delta w|_\Sigma$ and homogeneous boundary displacement. **93e:93006**
— *see also* **Bartolomeo, Jerry; et al.**, **93d:93046** *and* **Horn, Mary Ann**, **93j:35034**
Lebeau, Gilles *see* **Burq, Nicolas**, (**93m:00044**)
Leblond, Juliette *see* **Conrad, Francis; et al.**, (**93c:93006**)
Leitmann, George (*with* Reithmeier, Eduard) Semiactive control of a vibrating system by means of electrorheological fluids. (English summary)
Leont'ev, A. N. Optimal control of the form of a stamp in a problem on strong deflections of a plate. (Russian) (*see* **93f:00017**)
Leugering, G. On control and stabilization of a rotating beam by applying moments at the base only. (English summary) (*see* **93b:49002**)
— A decomposition method for integro-partial differential equations and applications. (English summary) **93i:45012**
Longman, Richard W. *see* **Phan, Minh; et al.**, **93c:93054**
Lu, Gui Zhang *see* **Wang, Guo Li**
Lunardi, Alessandra Neumann boundary stabilization of structurally damped time periodic wave and plate equations. **93g:35087**
Mäkelä, Marko M. (*with* Neittaanmäki, Pekka) ★ Nonsmooth optimization. **93i:49002**
Marmorat, Jean-Paul *see* **Conrad, Francis; et al.**, (**93c:93006**)
Maurer, H. (*with* Mittelmann, H. D.) The nonlinear beam via optimal control with bounded state variables. (English summary) **93h:49030**
Mbodje, B. *see* **Montseny, G.; et al.**, (**93i:93005**)
Meirovitch, Leonard ★ Dynamics and control of structures. **93a:93001**
Mittelmann, H. D. *see* **Maurer, H.**, **93h:49030**
Montseny, G. (*with* Audounet, J.; Mbodje, B.) A simple viscoelastic damper model—application to a vibrating string. (English summary) (*see* **93i:93005**)
Morgül, Ömer Dynamic boundary control of a rotating flexible spacecraft. (English summary) (*see* **93g:93006**)
— Dynamic boundary control of the Timoshenko beam. (English summary) **93i:93068**
Mote, C. D., Jr. *see* **Yang, B.**, (**93e:73030**)
Natke, H. G. (*with* Zamirowski, M.) ARMAX modelling in structural dynamics—approximations of the differential equations of motion. (English and German summaries) **93k:93033**
Neittaanmäki, Pekka *see* **Mäkelä, Marko M.**, **93i:49002**
Nicaise, Serge Exact controllability of a pluridimensional coupled problem. (English summary) **93j:93021**
Nicosia, S. (*with* Tomei, Patrizio) Attitude control of spacecraft by using only angular positions. (English summary) (*see* **93g:93006**)
Osinga, H. M. *see* **Bontsema, Jan; et al.**, (**93i:93005**)
Ourada, N. (*with* Triggiani, Roberto) Uniform stabilization of the Euler-Bernoulli equation with feedback operator only in the Neumann boundary condition. **93d:93071**
Phan, Minh (*with* Juang, Jer-Nan; Longman, Richard W.) Identification of linear multivariable systems by identification of observers with assigned real eigenvalues. **93c:93054**
Puel, Jean-Pierre (*with* Zuazua, Enrike) Controllability of a multidimensional system of Schrödinger equations: application to a system of plate and beam equations. (English summary) (*see* **93i:93005**)
Raghu, Poornima *see* **Rosen, I. G.**, **93e:35117**
Rao, Murali (*with* Sokołowski, Jan) Sensitivity analysis of shallow shell with obstacle. (*see* **93d:93006**)
Rebnord, D. A. *see* **Banks, H. T.**, **93h:35206**
Reithmeier, Eduard *see* **Leitmann, George**
Rosen, I. G. (*with* Raghu, Poornima) Approximation in the identification of degenerate distributed parameter systems: generalized Galerkin schemes and nonconforming elements. **93e:35117**
— *see also* **Gibson, J. S.; et al.**, **93f:65074**
Rutkovskiĭ, V. Yu. (*with* Sukhanov, V. M.) Identification of the excitation coefficients of large space constructions when there are limitations in the measurements. (Russian. Russian summary)
Sadek, Ibrahim S. *see* **Esfandiari, Ramin S.**
Sallet, Gauthier *see* **Xu, Cheng-Zhong**, (**93i:93005**)
Skelton, Robert E. *see* **Smith, M. J.; et al.**, **93d:93056**
Smith, M. J. (*with* Grigoriadis, Karolos; Skelton, Robert E.) Optimal mix of passive and active control in structures. **93d:93056**
Sokołowski, Jan (*with* Sprekels, Jürgen) Dynamical shape control of nonlinear thin rods. (*see* **93b:49002**)
— *see also* **Rao, Murali**, (**93d:93006**)
Sprekels, Jürgen Global existence of thermomechanical processes in nonlinear thin rods under velocity feedbacks. **93f:35230**
— *see also* **Sokołowski, Jan**, (**93b:49002**)
Staffans, Olof J. *see* **Hannsgen, Kenneth B.; et al.**, (**93i:93005**)
Stoyan, V. A. Investigation of the dynamics of elastic beams under conditions of uncertainty. (Russian) **93d:73049**
Sukhanov, V. M. *see* **Rutkovskiĭ, V. Yu.**
Tadi, M. Finite elements for modeling and control of a Mindlin plate. (English summary) **93k:73082**
Tahraoui, R. Contrôle optimal dans les équations elliptiques. (English summary) [Optimal control in elliptic equations] **93d:49006**
Tao, Gang *see* **Gibson, J. S.; et al.**, **93f:65074**
Tomei, Patrizio *see* **Nicosia, S.**, (**93g:93006**)

Triggiani, Roberto Regularity of wave and plate equations with interior point control. (Italian summary) **93a:35023**
— *see also* **Bartolomeo, Jerry; et al., 93d:93046**; **Ourada, N., 93d:93071** *and* **Lasiecka, Irena, 93e:93006**
Tucsnak, Marius Exact controllability for a hyperbolic equation with time-dependent coefficients. **93g:93061**
Wang, Guo Li (*with* Lu, Gui Zhang) Modelling and control of nonslender flexible robot links. (English summary)
Wheeler, Robert L. *see* **Hannsgen, Kenneth B., 93f:93113** *and* **(93i:93005)**
Xu, Cheng-Zhong (*with* Sallet, Gauthier) Boundary stabilization of rotating flexible systems. (English summary) (*see* **93i:93005**)
Yagasaki, Kazuyuki Chaotic dynamics of a quasi-periodically forced beam. (English summary) **93c:73067**
Yang, B. (*with* Mote, C. D., Jr.) Active vibration control of axially moving continua. (*see* **93e:73030**)
You, Yun Cheng Pointwise boundary stabilizability of hyperbolic evolution equations: two-dimensional hybrid elastic structures. **93a:93095**
Zamirowski, M. *see* **Natke, H. G., 93k:93033**
Zuazua, Enrike Recent results on the controllability of multidimensional flexible structures. (Spanish) (*see* **93j:00009**)
— *see also* **Puel, Jean-Pierre, (93i:93005)**
Zwart, H. J. Open loop stabilizability of the undamped beam equation. (English summary) (*see* **93g:93005**)

Items listed otherwise than by author

Control and estimation in distributed parameter systems ★ Control and estimation in distributed parameter systems. **93h:93006**

73K70 Aero- or hydromechanic structure interactions

Aleksandrova, N. I. Approximation of boundary conditions in problems of hydroelasticity. (Russian. English summary) **93c:73076**
Antman, Stuart S. *see* **Lanza de Cristoforis, Massimo, 93k:73066**
Atkinson, Colin (*with* Sherwood, J. D.) The torque on a rotating n-bladed vane in a Newtonian fluid or linear elastic medium. **93c:73077**
van der Beek, C. G. A. Analysis of a system of two weakly nonlinear coupled harmonic oscillators arising from the field of wind-induced vibrations. (English summary) **93f:73078**
Bérété, S. *see* **Sanchez-Hubert, J.; et al., 93i:73039**
Buriev, T. Some efficient algorithms for solving problems in nonstationary aero-elasticity. (Russian. Russian summary)
Capodanno, Pierre Sur le mouvement d'un pendule à suspension élastique contenant un liquide. [On the motion of an elastically suspended pendulum containing a fluid] **93f:73079**
Chueshov, I. D. Construction of solutions in a problem of the oscillations of a shell in a potential subsonic flow. (Russian) **93c:73078**
Conca, C. (*with* Durán, M.; Planchard, J.) A quadratic eigenvalue problem involving Stokes equations. (English summary) **93g:73097**
— (*with* Planchard, J.; Vanninathan, M.) Resonance frequencies of a cavity containing a compressible viscous fluid. (English summary) **93m:73030**
Ditkin, V. V. On a hydrodynamic load on a vibrating wall of a cylindrical shell. (Russian) **93k:73065**
Dost, S. *see* **Erbay, H. A.; et al., 93f:73080**
Durán, M. *see* **Conca, C.; et al., 93g:73097**
Efremov, I. I. An aerodynamic hypothesis for solving problems of wing aeroelasticity. (Russian. English and Ukrainian summaries) **93i:73037**
Erbay, H. A. (*with* Erbay, S.; Dost, S.) Wave propagation in fluid filled nonlinear viscoelastic tubes. (English summary) **93f:73080**
Erbay, S. *see* **Erbay, H. A.; et al., 93f:73080**
Hart, V. G. (*with* Shi, Jingyu) Joined dissimilar thin elastic tubes containing steady perfect flow. (English summary) **93i:73038**
Huang, Zheng Ming On the coupled vibration of an ideal fluid with a linear elastic structure. (Chinese. English and Chinese summaries) **93j:73060**
Koiso, Norihito Motion of a springy circle wire. **93d:73056**
Lanza de Cristoforis, Massimo (*with* Antman, Stuart S.) The large deformation of non-linearly elastic shells in axisymmetric flows. (English and French summaries) **93k:73066**
Levitin, M. R. *see* **Vasil'ev, D. G.; et al., 93k:73067**
Lidskii, V. B. *see* **Vasil'ev, D. G.; et al., 93k:73067**
Morand, Henri J.-P. (*with* Ohayon, Roger) ★ Interactions fluides-structures. (French) [Fluid-structure interactions] **93m:73031**
Ohayon, Roger *see* **Morand, Henri J.-P., 93m:73031**
Planchard, J. (*with* Thomas, B.) Stabilité dynamique en interaction fluide-structure. (English summary) [Dynamical stability in fluid-structure interaction] **93b:73030**
— (*with* Thomas, B.) Sur la définition des matrices de masse, amortissement et raideur ajoutés pour une structure élastique placée dans un écoulement transversal. (English summary) [On the definition of added mass, damping and stiffness for an elastic structure placed in a cross-flow] **93f:73081**
— (*with* Thomas, B.) Sur la localisation des valeurs propres d'un problème d'interaction fluide-structure. (English summary) [Localization of the eigenvalues in a problem of fluid-structure interaction] **93f:73082**
— *see also* **Conca, C.; et al., 93g:73097**; **Sanchez-Hubert, J.; et al., 93i:73039** *and* **Conca, C.; et al., 93m:73030**
Sanchez-Hubert, J. (*with* Bérété, S.; Planchard, J.) Spectral properties of an elastic rod-spring coupled system immersed in a fluid. (English summary) **93i:73039**
Schulkes, R. M. S. M. Interactions of an elastic solid with a viscous fluid: eigenmode analysis. **93d:73057**
Sherwood, J. D. *see* **Atkinson, Colin, 93c:73077**
Shi, Jingyu *see* **Hart, V. G., 93i:73038**
Tew, R. H. Nonspecular reflection phenomena at a fluid-solid boundary. **93c:73079**
Thomas, B. *see* **Planchard, J., 93b:73030**; **93f:73081** *and* **93f:73082**
Tolstova, O. L. An initial-boundary value problem for a system of equations that describe wave motions in a layer of a fluid on an elastic substrate. (Russian. Russian summary) **93m:73032**
Vanninathan, M. *see* **Conca, C.; et al., 93m:73030**
Vasil'ev, D. G. (*with* Levitin, M. R.; Lidskii, V. B.) Forced oscillations of a shell immersed in a viscous compressible fluid. (Russian) **93k:73067**

Items with secondary classifications in 73K70

Aganović, I. Homogenization of free boundary oscillations of an inviscid fluid in a porous reservoir. (English and French summaries) **93j:35027**
Alawneh, A. D. *see* **Shawagfeh, Nabil**
Aldis, G. K. *see* **Barry, S. I.; et al., 93c:76089**
Barkar', S. M. On the basis property for some of the eigenvectors of a class of operator pencils. (Russian) **93e:47017**
Barry, S. I. (*with* Parker, K. H.; Aldis, G. K.) Fluid flow over a thin deformable porous layer. **93c:76089**
Berger, Stanley A. Flow in large blood vessels. (English summary) **93k:76129**
Bettess, Jacqueline A. *see* **Bettess, Peter, 93g:76077**
Bettess, Peter (*with* Bettess, Jacqueline A.) Infinite elements for dynamic problems. I, II. (English summary) **93g:76077**
Bielak, Jacobo *see* **Zeng, Xiaogang; et al., 93d:76041**
Champneys, A. R. Homoclinic tangencies in the dynamics of articulated pipes conveying fluid. (English summary) **93k:76037**
Dean, Cleon E. (*with* Werby, Michael F.) Hamilton's principle and the equations of motion of an elastic shell with and without fluid loading. (English summary) (*see* **93j:00008**)
Demiray, Hilmi Torsional waves in a stressed elastic tube filled with a viscous fluid. **93b:73019**
— Wave propagation through a viscous fluid contained in a prestressed thin elastic tube. (English summary) **93g:76117**
Dwyer, Harry A. *see* **Yam, Clement G., (93j:76003)**
El Naschie, M. S. (*with* Elnashaie, S. S. E. H.) On the connection between fluid and elastostatical turbulence in Hamiltonian and flutter sets. (English summary)
Elnashaie, S. S. E. H. *see* **El Naschie, M. S.**
Fronk, T. H. (*with* Mahan, J. R.) Fully-coupled fluid-structure formulation of a baffled rectangular orthotropic plate using the boundary element and finite element methods. (English summary) (*see* **93b:65002**)
Fusco, D. (*with* Manganaro, N.) Some classes of nonautonomous nonlinear models reducible to linear form. **93b:35028**
— (*with* Manganaro, N.) Exact solutions to flows in fluid filled elastic tubes. (English summary) **93k:35212**
Garadzhaev, A. (*with* Orazov, M. B.) Spectral theory of a problem on normal oscillations of an ideal compressible fluid in a rotating elastic vessel. (Russian) **93f:76082**
Godunov, S. K. Investigation into stability of almost conservative systems by means of Lyapunov functions. **93b:34063**
Goloshubin, G. M. *see* **Krauklis, P. V.; et al., 93g:73099**
Gordeev, Yu. N. A disk-shaped crack from hydraulic fracture in a poroelastic medium. (Russian. Russian summary) **93g:73098**
Harari, Isaac (*with* Hughes, Thomas J. R.) Galerkin/least-squares finite element methods for the reduced wave equation with nonreflecting boundary conditions in unbounded domains. (English summary) **93c:76060**
Hughes, Thomas J. R. *see* **Harari, Isaac, 93c:76060**
Kim, J. *see* **Park, J.-h.; et al., (93b:65002)**
Koh, H. M. *see* **Park, J.-h.; et al., (93b:65002)**
Krasnopol'skaya, T. S. (*with* Shvets, A. Yu.) Properties of chaotic oscillations of a fluid in cylindrical tanks. (Russian. English and Ukrainian summaries) **93f:76010**
Krauklis, L. A. *see* **Krauklis, P. V.; et al., 93g:73099**
Krauklis, P. V. (*with* Goloshubin, G. M.; Krauklis, L. A.) A low-velocity wave in a layer of a fluid that models an oilfield stratum. (Russian. English and Russian summaries) **93g:73099**
Kulikov, A. N. Nonlinear flutter panel: the risk of hard excitation of vibrations. (Russian. Russian summary) **93k:34092**
Luchini, P. (*with* Lupo, M.; Pozzi, A.) Unsteady Stokes flow in a distensible pipe. (German and Russian summaries) **93m:76021**
Lupo, M. *see* **Luchini, P.; et al., 93m:76021**
MacCamy, Richard C. *see* **Zeng, Xiaogang; et al., 93d:76041**
Mahan, J. R. *see* **Fronk, T. H., (93b:65002)**
Manga, M. *see* **Tanzosh, J.; et al., (93b:65002)**
Manganaro, N. *see* **Fusco, D., 93b:35028** *and* **93k:35212**
Mayo, Anita A. (*with* Peskin, Charles S.) An implicit numerical method for fluid dynamics problems with immersed elastic boundaries. (English summary) **93k:76132**
McQueen, David M. *see* **Peskin, Charles S., 93k:76133**
Molotkov, L. A. A two-phase effective model of a medium that contains cracks of finite length. (Russian. English and Russian summaries) **93g:73038**
Ngô Huy Can (*with* Tran Thu Ha) The convective motion of an incompressible viscous fluid contained in an elastic cylindrical shell. **93k:76039**
Orazov, M. B. *see* **Garadzhaev, A., 93f:76082**
Park, J.-h. (*with* Koh, H. M.; Kim, J.) Fluid-structure interaction analysis by a coupled boundary element-finite element method in time domain. (English summary) (*see* **93b:65002**)
Parker, K. H. *see* **Barry, S. I.; et al., 93c:76089**
Peskin, Charles S. (*with* McQueen, David M.) Computational biofluid dynamics. (English summary) **93k:76133**
— (*with* Printz, Beth Feller) Improved volume conservation in the computation of flows with immersed elastic boundaries. (English summary) **93k:76081**
— *see also* **Tu, Cheng, 93g:76097** *and* **Mayo, Anita A., 93k:76132**
Planchard, J. Quelques problèmes d'homogénéisation en interaction fluide-structure. (English summary) [Some homogenization problems in fluid-structure interaction] **93f:35022**
Pozzi, A. *see* **Luchini, P.; et al., 93m:76021**
Printz, Beth Feller *see* **Peskin, Charles S., 93k:76081**

Radzevich, S. B. On the unsteady flow around a thin profile by a transonic gas. (Russian. Russian summary) **93e:76047**
Rankin, Samuel M., III *see* **Tang, Dalin, 93m:76032**
Riley, N. Oscillating viscous flows. II. Superposed oscillations. **93d:76020**
Saetta, Anna V. (*with* Vitaliani, Renato V.) Unconditionally convergent partitioned solution procedure for dynamic coupled mechanical systems. **93c:73088**
Sergeev, V. S. Stability of solutions of a class of functional-differential equations. (Russian) **93g:34120**
Shawagfeh, Nabil (*with* Alawneh, A. D.) The low-frequency acoustic scattering by a soft ellipsoid. (English and Arabic summaries)
Shvets, A. Yu. *see* **Krasnopol'skaya, T. S., 93f:76010**
Skelton, E. A. Errata: "Acoustic scattering by a rigid barrier between two fluid-loaded parallel elastic plates" [Proc. Roy. Soc. London Ser. A **435** (1991), no. 1893, 217–232; MR 92h:76073].
Sorokin, S. V. The asymptotic analysis of a two-level system of boundary integral equations for structural-acoustic coupling problems. (English summary) (*see* **93b:65002**)
Stone, H. A. *see* **Tanzosh, J.; et al., (93b:65002)**
Tang, Dalin (*with* Rankin, Samuel M., III) Peristaltic transport of a heat-conducting viscous fluid as an application of abstract differential equations and semigroup of operators. (English summary) **93m:76032**
Tanzosh, J. (*with* Manga, M.; Stone, H. A.) Boundary integral methods for viscous free-boundary problems: deformations of single and multiple fluid-fluid interfaces. (English summary) (*see* **93b:65002**)
Tran Thu Ha *see* **Ngô Huy Can, 93k:76039**
Tu, Cheng (*with* Peskin, Charles S.) Stability and instability in the computation of flows with moving immersed boundaries: a comparison of three methods. (English summary) **93g:76097**
Vitaliani, Renato V. *see* **Saetta, Anna V., 93c:73088**
Werby, Michael F. *see* **Dean, Cleon E., (93j:00008)**
Yam, Clement G. (*with* Dwyer, Harry A.) Unsteady flow in a curved pipe. (*see* **93j:76003**)
Zeng, Xiaogang (*with* Bielak, Jacobo; MacCamy, Richard C.) Unified symmetric finite element and boundary integral variational coupling methods for linear fluid-structure interaction. (English summary) **93d:76041**

73K99 None of the above, but in this section

Andrianov, I. V. Application of Padé-approximants in perturbation methods. (English and Russian summaries) **93j:73061**
— *see also* **Obraztsov, I. F.; et al., 93a:73064**
Andrieux, Stéphane (*with* Léger, A.) Multiple scaling method for the calculation of threaded assemblies. (English summary) **93m:73033**
Batra, S. K. *see* **Fraser, W. B.; et al., 93e:73031**
Fedorov, E. I. *see* **Fedorov, L. I.; et al., (93m:00032)**
Fedorov, L. I. (*with* Fedorov, E. I.; Kakutashvili, Sh. D.) Calculation of structures for the action of random stochastically dependent loads. (Russian. Russian summary) (*see* **93m:00032**)
Ferro, Giuseppe *see* **Romano, Giovanni; et al., 93h:73029**
Fraser, W. B. (*with* Ghosh, T. K.; Batra, S. K.) On unwinding yarn from a cylindrical package. (English summary) **93e:73031**
Gavrilkin, V. N. Solution of a problem for a layered hollow cylinder with supporting ring elements by the method of integral equations. (Russian. Russian summary) (*see* **93g:00024**)
Ghosh, T. K. *see* **Fraser, W. B.; et al., 93e:73031**
Jacobson, Dmitry (*with* Maddocks, John H.) On the dynamics of chains. (English summary) **93k:73068**
Kakutashvili, Sh. D. *see* **Fedorov, L. I.; et al., (93m:00032)**
Khatiashvili, G. M. On the bending by a transverse force of composite cylindrical bodies with rectilinear anisotropy of general form. (Russian) **93j:73062**
Kooi, B. W. On the mechanics of the modern working-recurve bow. (English summary) **93f:73083**
Léger, A. *see* **Andrieux, Stéphane, 93m:73033**
Maddocks, John H. *see* **Jacobson, Dmitry, 93k:73068**
Natke, H. G. Error localization within spatially finite-dimensional mathematical models. A review of methods and the application of regularization techniques. (English summary) **93f:73084**
Nerubailo, B. V. *see* **Obraztsov, I. F.; et al., 93a:73064**
Obraztsov, I. F. (*with* Nerubailo, B. V.; Andrianov, I. V.) ★ Асимптотические методы в строительной механике тонкостенных конструкций. (Russian) [Asymptotic methods in the structural mechanics of thin-walled structures] **93a:73064**
Recski, András Applications of combinatorics to statics—a second survey. (English summary) **93j:73063**
Romano, Giovanni (*with* Rosati, Luciano; Ferro, Giuseppe) Theorems of the alternative in unilateral structural mechanics. **93h:73029**
Rosati, Luciano *see* **Romano, Giovanni; et al., 93h:73029**
Shi, Jingyu Deformations of planar networks of elastic cords onto a surface of revolution.
Simo, Juan C. The (symmetric) Hessian for geometrically nonlinear models in solid mechanics: intrinsic definition and geometric interpretation. **93a:73065**
Wolfe, Peter The effect of bending stiffness on inextensible cables. **93c:73080**
Yu, De Jie (*with* Zhu, Guang Han) A unified derivation method for matrix-type modification formulas of dynamical models. (Chinese. English and Chinese summaries) **93i:73040**
Zhu, Guang Han *see* **Yu, De Jie, 93i:73040**

Items with secondary classifications in 73K99

Balfour, James A. D. ★ Computer analysis of structural frameworks. **93f:73002**
Baniotopoulos, C. C. A contribution to the analysis of the corner cracking problem in masonry veneer walls by means of the theory of hemivariational inequalities. (Bulgarian summary) **93e:73032**
Barber, J. R. *see* **Zhang, Ronggang, 93k:73076**
Castillo, Enrique (*with* Fernández-Canteli, A.; Ruiz Cobo, María Reyes) Design of statistical lifetime models by functional equations. (*see* **93i:60005**)
Chenais, D. *see* **Habbal, Abderrahmane, 93f:73099**
Chiriţă, S. Saint-Venant's problem and semi-inverse solutions in linear viscoelasticity. **93g:73063**
Davies, M. A. (*with* Moon, F. C.) 3-D spatial chaos in the elastica and the spinning top: Kirchhoff analogy. (English summary) **93m:58107**
(Del Piero, Gianpietro) *see* **Unilateral problems in structural analysis, 93a:73001**
Domokos, G. Taylor approximation of operators with discrete rotational symmetry. **93f:58022**
Fernández-Canteli, A. *see* **Castillo, Enrique; et al., (93i:60005)**
Green, W. A. (*with* Shi, Jingyu) Degenerate deformations and uniqueness in highly elastic networks. (English summary) **93g:73065**
Habbal, Abderrahmane (*with* Chenais, D.) Deterioration of a finite element method for arch structures when the thickness goes to zero. **93f:73099**
Haslinger, Jaroslav *see* **Panagiotopoulos, P. D., 93e:73029**
Ikeda, Kiyohiro *see* **Murota, Kazuo, 93j:73040**
Kaveh, A. Bandwidth reduction of rectangular matrices. (English summary)
— Matroids in structural mechanics. (English summary) **93m:05051**
Keane, A. J. Energy flows between arbitrary configurations of conservatively coupled multi-modal elastic subsystems. (English summary)
Laura, Patricio A. A. *see* **Schinzinger, Roland, 93g:00018**
(Maceri, F.) *see* **Unilateral problems in structural analysis, 93a:73001**
Marotti de Sciarra, F. *see* **Romano, Giovanni; et al., 93m:73041**
Mohamed, Ali Shauket Numerical solution by the spline method for an elastic problem. **93a:65176**
Moon, F. C. *see* **Davies, M. A., 93m:58107**
Murota, Kazuo (*with* Ikeda, Kiyohiro) On random imperfections for structures of regular-polygonal symmetry. (English summary) **93j:73040**
Panagiotopoulos, P. D. (*with* Haslinger, Jaroslav) Optimal control and identification of structures involving multivalued nonmonotonicities. Existence and approximation results. **93e:73029**
— Fractal geometry in solids and structures. **93b:73011**
Peek, Ralf *see* **Triantafyllidis, Nicolas, 93c:73052**
Pipkin, A. C. *see* **Steigmann, D. J., 93f:73055**
Reddy, B. D. (*with* Volpi, M. B.) Mixed finite element methods for the circular arch problem. (English summary) **93f:73103**
Reissner, E. On some ramifications of the center of shear problem. (English, German and Russian summaries) **93g:73035**
Romano, Giovanni (*with* Rosati, Luciano; Marotti de Sciarra, F.) Variational formulations of nonlinear and nonsmooth structural problems. (English summary) **93m:73041**
Rosati, Luciano *see* **Romano, Giovanni; et al., 93m:73041**
Ruiz Cobo, María Reyes *see* **Castillo, Enrique; et al., (93i:60005)**
Sánchez-Palencia, Enrique Asymptotic and spectral properties of a class of singular-stiff problems. (English summary) **93m:47075**
Schinzinger, Roland (*with* Laura, Patricio A. A.) ★ Conformal mapping: methods and applications. **93g:00018**
Shi, Gen Hua ★ Block system modeling by discontinuous deformation analysis. **93j:73067**
Shi, Jingyu *see* **Green, W. A., 93g:73065**
Simmonds, James G. An asymptotic analysis of end effects in the axisymmetric deformation of elastic tubes weak in shear: higher-order shell theories are inadequate and unnecessary. **93e:73025**
Stavroulakis, G. E. Static analysis of cracked masonry walls by means of the phenomenological interface concept. (Bulgarian summary) **93e:73033**
Steigmann, D. J. (*with* Pipkin, A. C.) Equilibrium of elastic nets. **93f:73055**
— Equilibrium of prestressed networks. **93c:73051**
Triantafyllidis, Nicolas (*with* Peek, Ralf) On stability of the worst imperfection shape in solids with nearly simultaneous eigenmodes. **93c:73052**
Volpi, M. B. *see* **Reddy, B. D., 93f:73103**
Zhang, Ronggang (*with* Barber, J. R.) Transient thermoelastic contact and stability of two thin-walled cylinders. (English summary) **93k:73076**
Zhong, Wan Xie (*with* Zhong, Xiang Xiang) Method of separation of variables and Hamiltonian system. (English summary) **93k:73090**
Zhong, Xiang Xiang *see* **Zhong, Wan Xie, 93k:73090**
Zlatanovski, Tomislav Strenge Lösung des Torsionsproblems für den Kreiszylinder mit Zwei kreisl̈ochern. (English and Macedonian summaries) [Strict solution of the torsion problem for the circular cylinder with two circular holes] **93f:73027**

Items listed otherwise than by author

Capri ★ Unilateral problems in structural analysis. IV. **93a:73001**
Meeting:
Unilateral Problems in Structural Analysis ★ Unilateral problems in structural analysis. IV. **93a:73001**
Unilateral problems in structural analysis ★ Unilateral problems in structural analysis. IV. **93a:73001**

73M25 Fracture mechanics

Baniotopoulos, C. C. A contribution to the analysis of the corner cracking problem in masonry veneer walls by means of the theory of hemivariational inequalities. (Bulgarian summary) **93e:73032**
Barnett, D. M. *see* **Suo, Z.; et al., 93c:73085**
Becache, E. A variational boundary integral equation method for an elastodynamic antiplane crack. (English summary)
Bolotin, V. V. Dynamic propagation of cracks. (Russian) **93f:73085**
Borodich, F. M. *see* **Mosolov, A. B.**
Bourne, J. P. (*with* Walton, J. R.) On a dynamically accelerating crack in an Achenbach-Chao viscoelastic solid. (English summary) **93k:73069**
Combescure, A. *see* **Suo, Xiao Zheng, 93j:73066**

Costa Mattos, H. (*with* Frémond, M.; Mamiya, E. N.) A simple model of the mechanical behavior of ceramic-like materials. (English summary) **93f:73086**

Del Piero, Gianpietro (*with* Sampaio, Rubens) A unified treatment of damage and plasticity based on a new definition of microfracture. **93d:73058**

Dhaliwal, Ranjit S. (*with* Saxena, H. S.; Rokne, J. G.) Penny-shaped crack in a nonhomogeneous isotropic elastic half-space under axisymmetric torsion. (English summary)

— *see also* **He, Whenhua**

Dobordzhginidze, L. G. On a nonlinear model of the theory of quasibrittle fracture. (Russian) **93a:73066**

Embacher, Franz (*with* Peterlik, Herwig) Crack motion and hydrodynamic flow. **93c:73081**

Erber, T. (*with* Guralnick, S. A.; Michels, S. C.) Hysteresis and fatigue. (English summary)

Frémond, M. *see* **Costa Mattos, H.; et al., 93f:73086**

Gol'dshtein, R. V. (*with* Zhitnikov, Yu. V.; Morozova, T. M.) Equilibrium of a system of cracks with the formation of overlap and opening regions on them. (Russian) **93c:73082**

— (*with* Mosolov, A. B.) Fractal cracks. (Russian. Russian summary) **93k:73070**

Gordeev, Yu. N. A disk-shaped crack from hydraulic fracture in a poroelastic medium. (Russian. Russian summary) **93g:73098**

Gross, Dietmar Path independent integrals and crack growth parameters in nonlinear fracture mechanics. **93b:73031**

Guralnick, S. A. *see* **Erber, T.; et al.**

He, Whenhua (*with* Dhaliwal, Ranjit S.) Torsion of two nonhomogeneous elastic layers with penny-shaped flaw at the interface. (English summary)

Herrmann, J. M. An asymptotic analysis of finite deformations near the tip of an interface-crack. II. (English summary) **93j:73064**

— *see also* **Walton, J. R., 93c:73086**

Hřebíček, Jiří (*with* Kotoul, Michal; Polcar, Pavel) Numerical analysis of dynamical postcritical behaviour of solids. (*see* **93b:65007**)

Huang, G. R. *see* **Liu, T. S.**

Hwu, Chyan Bin Thermoelastic interface crack problems in dissimilar anisotropic media. **93c:73083**

— Explicit solutions for collinear interface crack problems. (English summary) **93i:73041**

James, Richard Dana (*with* Spector, Scott J.) The formation of filamentary voids in solids. **93d:73059**

Kazimierczyk, Piotr Parametric identification of diffusions with constraints; applications in fracture mechanics and vehicle dynamics. (*see* **93a:60004**)

Kotoul, Michal *see* **Hřebíček, Jiří; et al., (93b:65007)**

Krishna Rao, J. V. S. *see* **Parihar, K. S., 93m:73034**

Kuo, C.-M. *see* **Suo, Z.; et al., 93c:73085**

Leguillon, D. Asymptotic and numerical analysis of a crack branching in nonisotropic materials. (English summary) **93i:73042**

Liu, T. S. (*with* Huang, G. R.) Fatigue reliability of structures based on probability and possibility measures. (English summary)

Mamiya, E. N. *see* **Costa Mattos, H.; et al., 93f:73086**

Martin, Paul Andrew Tip behaviour for cracks in bonded inhomogeneous materials. (English summary) **93j:73065**

Michels, S. C. *see* **Erber, T.; et al.**

Morar', G. A. On the construction of discontinuous solutions in polar coordinates. (Russian. English and Moldavian summaries) **93b:73032**

Morozova, T. M. *see* **Gol'dshtein, R. V.; et al., 93c:73082**

Mosolov, A. B. (*with* Borodich, F. M.) Fractal fracture of brittle bodies under compression. (Russian)

— *see also* **Gol'dshtein, R. V., 93k:73070**

Nemat-Nasser, Sia *see* **Ni, Lu Qun, 93a:73067**

Ni, Lu Qun (*with* Nemat-Nasser, Sia) Interface cracks in anisotropic dissimilar materials: general case. **93a:73067**

Paine, A. S. (*with* Please, C. P.) Asymptotic analysis of a star crack with a central hole. (English summary) **93k:73071**

Panagiotopoulos, P. D. *see* **Theocaris, P. S., 93f:73087**

Parihar, K. S. (*with* Krishna Rao, J. V. S.) The axially symmetric problem of a penny-shaped crack under general surface loadings. (English summary) **93m:73034**

Peterlik, Herwig *see* **Embacher, Franz, 93c:73081**

Please, C. P. *see* **Paine, A. S., 93k:73071**

Polcar, Pavel *see* **Hřebíček, Jiří; et al., (93b:65007)**

Renaut, Rosemary A. Stability of one-way wave equations as absorbing boundary conditions for the wave equation. (English summary) (*see* **93d:73004**)

Rokne, J. G. *see* **Dhaliwal, Ranjit S.; et al.**

Sampaio, Rubens *see* **Del Piero, Gianpietro, 93d:73058**

Saxena, H. S. *see* **Dhaliwal, Ranjit S.; et al.**

Sobczyk, Kazimierz (*with* Spencer, Billie F., Jr.) ★ Random fatigue. **93c:73084**

Spector, Scott J. *see* **James, Richard Dana, 93d:73059**

Spencer, Billie F., Jr. *see* **Sobczyk, Kazimierz, 93c:73084**

Stavroulakis, G. E. Static analysis of cracked masonry walls by means of the phenomenological interface concept. (Bulgarian summary) **93e:73033**

Suo, Xiao Zheng (*with* Combescure, A.) Second variation of energy and an associated line independent integral in fracture mechanics. I. Theory. (English summary) **93j:73066**

Suo, Z. (*with* Kuo, C.-M.; Barnett, D. M.; Willis, J. R.) Fracture mechanics for piezoelectric ceramics. **93c:73085**

Theocaris, P. S. (*with* Panagiotopoulos, P. D.) On a mathematical comparison of the S- and T-criteria in fracture mechanics. (English, German and Russian summaries) **93f:73087**

Ting, T. C. T. (*with* Yan, Gong Pu) The $r^{-1/2}(\ln r)$ singularity at interface cracks in anisotropic bimaterials due to heat flow. (English summary) **93d:73060**

Tvardovskii, V. V. A pseudo-macro-crack in an anisotropic body. (Russian) **93d:73061**

Walton, J. R. (*with* Herrmann, J. M.) A new method for solving dynamically accelerating crack problems. I. The case of a semi-infinite mode III crack in elastic material revisited. **93c:73086**

— *see also* **Bourne, J. P., 93k:73069**

Willis, J. R. The stress field near the tip of an accelerating crack. (English summary) **93h:73030**

— *see also* **Suo, Z.; et al., 93c:73085**

Yan, Gong Pu *see* **Ting, T. C. T., 93d:73060**

Yang, Xiao Chun The periodic crack problem for a half-plane bonded by dissimilar materials. (Chinese. English summary)

Zhitnikov, Yu. V. *see* **Gol'dshtein, R. V.; et al., 93c:73082**

Items with secondary classifications in 73M25

Andrieux, Stéphane (*with* Ben Abda, Amel) Identification de fissures planes par une donnée de bord unique: un procédé direct de localisation et d'identification. (English and French summaries) [Identification of planar cracks by unique boundary measurement: a direct location and identification process] **93k:73021**

Balankin, A. S. Fractal mechanics of deformable media and the topology of fracture of rigid bodies. (Russian)

— The theory of elasticity of fractals and models of nonlinear elasticity, high elasticity and fracture of materials with a multifractal structure. (Russian)

Bardzokas, Dem. (*with* Parton, V. Z.) Singular integral equations in problems of crack arrest. (Russian) **93h:73011**

Belov, N. N. (*with* Demidov, V. N.; Efremova, L. V.; et al.) Computer modeling of the dynamics of high-velocity impact and of the accompanying physical phenomena. (Russian. Russian summary) **93k:73023**

Ben Abda, Amel *see* **Andrieux, Stéphane, 93k:73021**

Buryachenko, V. A. (*with* Parton, V. Z.) Effective parameters of the strength of composites in joint physical-mechanical fields. (Russian) **93j:73055**

Castillo, Enrique (*with* Fernández-Canteli, A.; Ruiz Cobo, María Reyes) Design of statistical lifetime models by functional equations. (*see* **93i:60005**)

Demidov, V. N. *see* **Belov, N. N.; et al., 93k:73023**

Efremova, L. V. *see* **Belov, N. N.; et al., 93k:73023**

Epstein, Marcelo *see* **Maugin, Gérard A.; et al., 93h:73032**

Fernández-Canteli, A. *see* **Castillo, Enrique; et al., (93i:60005)**

Fil'shtinskii, M. L. *see* **Parton, V. Z., 93f:73091**

Fotiu, P. A. Elastodynamics of thin plates with internal dissipative processes. I. Theoretical foundations. (English summary) **93g:73076**

Glushak, B. L. (*with* Kuropatenko, V. F.; Novikov, S. A.) ★ Исследование прочности материалов при динамических нагрузках. (Russian. Russian summary) [Research on the strength of materials under dynamic loads] **93g:73054**

Gordeev, Yu. N. A nonstationary problem on a plane hydraulic extension fissure of a fluid-saturated stratum. (Russian) **93a:73068**

Heise, Ulrich Fundamental solutions of the plane and three-dimensional bipotential operators defined on various types of Riemann surfaces and spaces. (English summary) **93k:73088**

Kanaun, S. K. *see* **Vil'chevskaya, E. N., 93f:73026**

Khludnev, A. M. Extremal forms of cuts in a plate that is in contact with a rigid stamp. (Russian) (*see* **93d:35001**)

Kobelev, V. V. Microstructural model of a fibrous composite fracture. **93c:73089**

Kuropatenko, V. F. *see* **Glushak, B. L.; et al., 93g:73054**

Kuzmanović, D. *see* **Vukobrat, M., 93d:73005**

Kuznetsov, E. B. Application of catastrophe theory to the study of the cracking process of mechanical systems. (Russian) (*see* **93e:00015**)

Laborde, Patrick (*with* Michrafy, Abderrahim) Algorithme à "rigidité tangente" pour des problèmes d'endommagement. (English and French summaries) ["Tangent stiffness" algorithm for some damage problems] **93g:73114**

Ladopoulos, E. G. New aspects for the generalization of the Sokhotski-Plemelj formulae for the solution of finite-part singular integrals used in fracture mechanics. **93c:45008**

Le Khanh Chau *see* **Stumpf, Helmut, 93k:73043**

Maugin, Gérard A. ★ The thermomechanics of plasticity and fracture. **93i:73001**

— (*with* Trimarco, Carmine) Pseudomomentum and material forces in nonlinear elasticity: variational formulations and application to brittle fracture. **93f:73029**

— (*with* Epstein, Marcelo; Trimarco, Carmine) Theory of elastic inhomogeneities in electromagnetic materials. (English summary) **93h:73032**

Michrafy, Abderrahim *see* **Laborde, Patrick, 93g:73114**

Movchan, A. B. Integral characteristics of elastic inclusions and cavities in the two-dimensional theory of elasticity. **93c:73023**

Nikolaevskii, V. N. ★ Mechanics of porous and fractured media. **93a:73013**

Novikov, S. A. *see* **Glushak, B. L.; et al., 93g:73054**

Pai, D. M. Wave propagation by step marching. (English summary) (*see* **93d:73004**)

Parton, V. Z. (*with* Fil'shtinskii, M. L.) A stationary wave process in a piezo-electric layer and half-layer that are weakened by tunnel cuts (antiplanar deformation). (Russian. Russian summary) **93f:73091**

— *see also* **Bardzokas, Dem., 93h:73011** *and* **Buryachenko, V. A., 93j:73055**

Popov, G. Ya. A new approach to problems on elastic stress concentrations near cracks. (Russian) **93a:73019**

Ruiz Cobo, María Reyes *see* **Castillo, Enrique; et al., (93i:60005)**

Shirokova, E. The first basic problem exact solution for a right-angled V-crack on the plane.

Sil'vestrov, V. V. Effective solution of basic quasiperiodic problems in elasticity theory for a plane with cuts along a line. (Russian. Russian summary) **93g:73036**

Sten'kin, V. V. A new method for the explicit solution of the biharmonic equation for a plane with a finite rectilinear cut. (Russian. English and Russian summaries) **93m:31003**

Stumpf, Helmut (*with* Le Khanh Chau) Variational formulation of the crack problem for an elastoplastic body at finite strain. (English, German and Russian summaries) **93k:73043**

Trimarco, Carmine *see* **Maugin, Gérard A., 93f:73029** *and* **93h:73032**

Vil'chevskaya, E. N. (*with* Kanaun, S. K.) Integral equations for a problem on a thin inclusion in a homogeneous elastic medium. (Russian. Russian summary) **93f:73026**

Vukobrat, M. (*with* Kuzmanović, D.) Conservation laws in nonlocal elasticity. **93d:73005**

Zozulya, V. V. The method of boundary functionals in contact problems of the dynamics of bodies with cracks. (Russian. English and Russian summaries) **93f:73097**

73N20 Geophysical solid mechanics [see also 86A15, 86A17]

Balankin, A. S. Fractal mechanics of deformable media and the topology of fracture of rigid bodies. (Russian)

Ferrándiz Leal, José Manuel *see* **Getino, J. M., 93d:73062a; 93d:73062b** *and* **93d:73062c**

Getino, J. M. (*with* Ferrándiz Leal, José Manuel) A Hamiltonian theory for an elastic Earth: elastic energy of deformation. **93d:73062a**

— (*with* Ferrándiz Leal, José Manuel) A Hamiltonian theory for an elastic Earth: first order analytical integration. **93d:73062b**

— (*with* Ferrándiz Leal, José Manuel) A Hamiltonian theory for an elastic Earth: secular rotational acceleration. **93d:73062c**

Goloshubin, G. M. *see* **Krauklis, P. V.; et al., 93g:73099**

Gordeev, Yu. N. A nonstationary problem on a plane hydraulic extension fissure of a fluid-saturated stratum. (Russian) **93a:73068**

Krauklis, L. A. *see* **Krauklis, P. V.; et al., 93g:73099**

Krauklis, P. V. (*with* Goloshubin, G. M.; Krauklis, L. A.) A low-velocity wave in a layer of a fluid that models an oilfield stratum. (Russian. English and Russian summaries) **93g:73099**

Mukhamediev, Sh. A. On the reconstruction of a stress tensor field in blocks of the Earth's crust. (Russian. Russian summary) **93h:73031**

Smirnova, N. S. Calculation of wave fields in multilayered media. (Russian. English and Russian summaries)

Villaggio, Piero The equilibrium shapes of earth masses. (English summary) **93g:73100**

Items with secondary classifications in 73N20

Alessandrini, B. (*with* Raganelli, V.) The propagation of acoustic and elastic waves in an heterogeneous discrete medium. (English summary) **93e:73014**

Asghar, Saleem *see* **Zaman, F. D.; et al., 93a:73025**

Bergersen, Birger *see* **Xu, Huang-Jian; et al., 93h:86004**

Berryman, James G. Waves in partially saturated porous media. (English summary) **93f:73033**

Bourgeat, A. (*with* El Amri, Hassan; Tapiéro, R.) Existence d'une taille critique pour une fissure dans un milieu poreux. (English summary) [Existence of a critical ratio for a fissure in a porous medium] **93c:76076**

Chen, Kan *see* **Xu, Huang-Jian; et al., 93h:86004**

Cheng, A. H.-D. (*with* Cui, L.) Green's function for axisymmetric poroelasticity and coupled thermoelasticity. (English summary) (*see* **93b:65002**)

Cui, L. *see* **Cheng, A. H.-D., (93b:65002)**

El Amri, Hassan *see* **Bourgeat, A.; et al., 93c:76076**

Faizullin, I. S. *see* **Shapiro, S. A., 93c:73032**

Foriero, A. (*with* Ladanyi, B.) The use of fractional exponential creep kernels for long-term behavior of laterally loaded piles in permafrost. **93c:73087**

Fowler, A. C. Modelling ice sheet dynamics. **93a:86002**

Hanif, Khalid *see* **Zaman, F. D.; et al., 93a:73025**

Herman, Gérard C. Estimation of the inverse acoustic transmission operator of a heterogeneous region directly from its reflection operator. (English summary) **93g:73051**

Higdon, Robert L. Absorbing boundary conditions for acoustic and elastic waves in stratified media. **93c:73035**

Hogan, S. J. The effect of damping on rigid block motion under harmonic forcing. (English summary) **93e:70002**

Ismail-Zade, A. T. *see* **Naimark, B. M., 93a:86003**

Ladanyi, B. *see* **Foriero, A., 93c:73087**

Liu, Ko-Fei (*with* Mei, Chiang C.) Long waves in shallow water over a layer of Bingham-plastic fluid-mud. I. Physical aspects. (English summary) **93i:86001a**

— (*with* Mei, Chiang C.) Long waves in shallow water over a layer of Bingham-plastic fluid-mud. II. Mathematical derivation of long wave equations. (English summary) **93i:86001b**

Loper, D. E. A nonequilibrium theory of a slurry. (English summary) **93g:76108**

Man, Chi-Sing Nonsteady channel flow of ice as a modified second-order fluid with power-law viscosity. **93c:76001**

Marchenko, A. V. Propagation of discontinuities in a drifting ice cap. (Russian. Russian summary) **93m:86001**

Mason, D. P. *see* **Nakayama, M., 93f:86006**

Matysiak, Stanisław J. On the homogenized model of periodic stratified fluid-saturated porous solids. **93a:73004**

Mei, Chiang C. *see* **Liu, Ko-Fei, 93i:86001a** *and* **93i:86001b**

Meschke, G. *see* **Simo, Juan C., 93k:73086**

Molotkov, L. A. A new method of deriving the equations of an averaged effective model of periodic media. (Russian. English summary) **93c:73031**

Naĭmark, B. M. (*with* Ismail-Zade, A. T.) Oscillatory instability as a consequence of a random distribution of density. (Russian) **93a:86003**

Nakayama, M. (*with* Mason, D. P.) Rarefactive solitary waves in two-phase fluid flow of compacting media. **93f:86006**

Raganelli, V. *see* **Alessandrini, B., 93e:73014**

Shapiro, S. A. (*with* Faizullin, I. S.) Scattering of elastic waves by a fractal inhomogeneity in a medium. (Russian) **93c:73032**

Simo, Juan C. (*with* Meschke, G.) A new class of algorithms for classical plasticity extended to finite strains. Application to geomaterials. (English summary) **93k:73086**

Smirnova, N. S. Determination of groups of dynamically equivalent waves propagating in layered elastic media. (Russian. English summary) **93c:73033**

Spiegelman, Marc Flow in deformable porous media. I. Simple analysis. (English summary)

— Flow in deformable porous media. II. Numerical analysis—the relationship between shock waves and solitary waves. (English summary)

Tapiéro, R. *see* **Bourgeat, A.; et al., 93c:76076**

Tsurkis, I. Ya. Stress state in a half-plane with an elliptic inclusion. (Russian) **93d:73021**

Xu, Huang-Jian (*with* Bergersen, Birger; Chen, Kan) Self-organized ruptures in an elastic medium: a possible model for earthquakes. (English summary) **93h:86004**

Zaman, F. D. (*with* Asghar, Saleem; Hanif, Khalid) Dispersion of Love waves in an inhomogeneous layer due to a source. **93a:73025**

Zheng, Xiao Gu Ergodic theorems for stress release processes. **93f:60108**

73P20 Biomechanics of solids [see also 92C10]

Murase, Masatoshi Mechanical approach toward flagellar motility. (English summary) (*see* **93j:76003**)

Items with secondary classifications in 73P20

Aldis, G. K. *see* **Barry, S. I., 93k:76108**

Barry, S. I. (*with* Aldis, G. K.) Radial flow through deformable porous shells. (English summary) **93k:76108**

Demiray, Hilmi Torsional waves in a stressed elastic tube filled with a viscous fluid. **93b:73019**

Ermolaev, B. V. The use of generalized functions in a problem on elastic oscillations of a composite rod. (Russian. Russian summary) **93k:73058**

Hart, V. G. (*with* Shi, Jingyu) Joined dissimilar orthotropic elastic cylindrical membranes under internal pressure and longitudinal tension. (English summary) **93m:73018**

Mayo, Anita A. (*with* Peskin, Charles S.) An implicit numerical method for fluid dynamics problems with immersed elastic boundaries. (English summary) **93k:76132**

Milner, Fabio A. Numerical method for a model of inhomogeneous muscle fibers. (English summary) **93k:92005**

Peskin, Charles S. *see* **Mayo, Anita A., 93k:76132**

Rayner, Jeremy M. V. On aerodynamics and the energetics of vertebrate flapping flight. (English summary) (*see* **93j:76003**)

Shi, Jingyu *see* **Hart, V. G., 93m:73018**

73Q05 Soil and rock mechanics [see also 86A60]

Foriero, A. (*with* Ladanyi, B.) The use of fractional exponential creep kernels for long-term behavior of laterally loaded piles in permafrost. **93c:73087**

Ladanyi, B. *see* **Foriero, A., 93c:73087**

Saetta, Anna V. (*with* Vitaliani, Renato V.) Unconditionally convergent partitioned solution procedure for dynamic coupled mechanical systems. **93c:73088**

Shi, Gen Hua ★ Block system modeling by discontinuous deformation analysis. **93j:73067**

Vitaliani, Renato V. *see* **Saetta, Anna V., 93c:73088**

Items with secondary classifications in 73Q05

Abousleiman, Y. (*with* Cheng, A. H.-D.; Roegiers, J. C.) Boundary element method for viscoporoelasticity with rock mechanics applications. (English summary) (*see* **93b:65002**)

Cheng, A. H.-D. *see* **Abousleiman, Y.; et al., (93b:65002)**

Hill, James M. (*with* Wu, Yong-Hong) Some axially symmetric flows of Mohr-Coulomb compressible granular materials. **93i:73023**

Jiang, Tong *see* **Pan, Gu Ning; et al., (93b:65008)**

Liu, Zu De *see* **Pan, Gu Ning; et al., (93b:65008)**

Lu, Wen Da *see* **Yang, Zheng Wen, (93b:65008)**

Matysiak, Stanisław J. On the homogenized model of periodic stratified fluid-saturated porous solids. **93a:73004**

Pan, Gu Ning (*with* Liu, Zu De; Jiang, Tong) Analysis of piles in layered soils by the coupling method of FEM-BEM. (*see* **93b:65008**)

Pember, Richard B. *see* **Trangenstein, John A., 93g:73060**

Roegiers, J. C. *see* **Abousleiman, Y.; et al., (93b:65002)**

Trangenstein, John A. (*with* Pember, Richard B.) Numerical algorithms for strong discontinuities in elastic-plastic solids. (English summary) **93g:73060**

Wu, Yong-Hong *see* **Hill, James M., 93i:73023**

Yang, Zheng Wen (*with* Lu, Wen Da) Analysis of dynamic interaction between soil and cooling tower by hybrid method. (*see* **93b:65008**)

73R05 Electromagnetic elasticity

Benveniste, Yakov (*with* Dvorak, George J.) Uniform fields and universal relations in piezoelectric composites. (English summary) **93g:73101**

Boulanger, Ph. Propagation of small-amplitude waves in a deformed hemitropic dielectric. **93a:73069**

Bytner, S. (*with* Gambin, B.) Homogenization of heterogeneous elastic conductor in a magnetic field. (English summary)

Chen, Tung Yang Green's functions and the nonuniform transformation problem in a piezoelectric medium.

Das, Kanak Kanti Study of propagation of waves in a magnetoelastic initially stressed conducting layer. (English summary)

Dvorak, George J. *see* **Benveniste, Yakov, 93g:73101**

Epstein, Marcelo *see* **Maugin, Gérard A.; et al., 93h:73032**

Fil'shtinskiĭ, M. L. *see* **Parton, V. Z., 93f:73091**

Gachkevich, A. R. ★ Термомеханика электропроводных тел при воздействии квазиустановившихся электромагнитных полей. (Russian. Russian summary) [The thermomechanics of electroconducting bodies under the effect of quasisteady electromagnetic fields] **93k:73072**

Gałka, A. (*with* Telega, Józef Joachim; Wojnar, R.) Homogenization and thermopiezoelectricity. **93d:73063**

Gambin, B. *see* **Bytner, S.**

It·s, E. N. *see* **Lee, J. S., 93f:73089**

Kalpakidis, V. K. (*with* Massalas, C. V.) Tiersten's theory of thermoelectroelasticity: an extension. (English summary) **93j:73068**

Kopisz, M. Principle of conservation of momentum, angular momentum and energy for a deformable continuum in an electromagnetic field. **93i:73043**

— Coupled fields in a piezoelectric body. **93i:73044**

Kurbanov, I. O. Smoothness of generalized solutions of nonlinear boundary value problems in electromagnetoelasticity with memory. (Russian. Russian summary) **93g:73102**

— Solvability of nonlinear boundary value problems of electromagnetoelasticity with general constitutive equations. (Russian) **93d:73064**

— Solvability of nonlinear boundary value problems of electromagnetoelasticity with memory. (Russian. Tajiki summary) **93f:73088**

— Electromagnetoelastic waves in a half-space with general defining equations. (Russian. Russian summary)

Lee, J. S. (*with* It·s, E. N.) Green's function and energy integrals for magnetoelastic surface waves in perfectly conducting media. (English summary) **93f:73089**

Massalas, C. V. *see* **Kalpakidis, V. K., 93j:73068**

Maugin, Gérard A. (*with* Epstein, Marcelo; Trimarco, Carmine) Theory of elastic inhomogeneities in electromagnetic materials. (English summary) **93h:73032**

Mel'nik, V. N. On the existence and uniqueness of generalized solutions in coupled nonstationary problems of two-dimensional electroelasticity. (Russian. Russian summary) **93f:73090**

— Existence and uniqueness of generalized equations in coupled nonstationary problems of two-dimensional electroelasticity. (Russian. Russian summary) **93j:73069**

Milton, Graeme W. *see* **Nesi, Vincenzo, 93a:73070**

Nesi, Vincenzo (*with* Milton, Graeme W.) Polycrystalline configurations that maximize electrical resistivity. **93a:73070**

Parton, V. Z. (*with* Fil'shtinskii, M. L.) A stationary wave process in a piezo-electric layer and half-layer that are weakened by tunnel cuts (antiplanar deformation). (Russian. Russian summary) **93f:73091**

Pucci, Edvige (*with* Saccomandi, Giuseppe) On the controllable states of elastic dielectrics and magnetoelastic solids. (English summary) **93g:73103**

Saccomandi, Giuseppe *see* **Pucci, Edvige, 93g:73103**

Shinkarenko, G. A. Formulation and solvability of initial-boundary value problems of electroviscoelasticity. (Ukrainian)

Telega, Józef Joachim *see* **Gałka, A.; et al., 93d:73063**

Trimarco, Carmine *see* **Maugin, Gérard A.; et al., 93h:73032**

Wojnar, R. *see* **Gałka, A.; et al., 93d:73063**

Yang, J. S. A few properties of the resonant frequencies of a piezoelectric body. (English summary) **93m:73035**

Items with secondary classifications in 73R05

Antontsev, S. N. (*with* Chipot, Michel) Existence, stability and blowup of the solution of the thermistor problem. (Russian) **93k:35247**

Barnett, D. M. *see* **Suo, Z.; et al., 93c:73085**

Botsenyuk, A. N. Solvability of an initial-boundary value problem for a system of semilinear equations in magnetoelasticity. (Ukrainian. Russian and Ukrainian summaries) **93m:35174**

Burdakova, O. A. (*with* Yakhno, V. G.) A one-dimensional inverse problem of electroelasticity. (Russian. Russian summary) (*see* **93e:00018**)

Cherkaev, A. V. (*with* Gibiansky, L. V.) The exact coupled bounds for effective tensors of electrical and magnetic properties of two-component two-dimensional composites. (English summary) **93k:73006**

Chipot, Michel *see* **Antontsev, S. N., 93k:35247**

Craine, R. E. *see* **Harvey, A. P.; et al., 93h:73015**

Epstein, Marcelo *see* **Maugin, Gérard A.; et al., 93c:73020**

Eremenko, S. Yu. ★ Методы конечных элементов в механике деформируемых тел. (Russian. Russian summary) [Finite-element methods in the mechanics of deformable bodies] **93h:73037**

Getman, I. P. (*with* Mol'kov, V. A.) On effective characteristics of piezoactive composites with cylindrical inclusions. (Russian. Russian summary) **93g:73090**

Gibiansky, L. V. *see* **Cherkaev, A. V., 93k:73006**

Girs, V. N. *see* **Vainshtein, A. A.; et al., 93i:73007**

Harvey, A. P. (*with* Craine, R. E.; Syngellakis, S.) Propagation of nonlinear surface acoustic waves on elastic and piezoelectric solids. (English summary) **93h:73015**

— (*with* Tupholme, G. E.) Propagation of anisotropic elastic and piezoelectric nonlinear surface acoustic waves. (English summary) **93g:73041**

Kluitenberg, Gerrit Alfred *see* **Restuccia, Liliana, 93a:73011**

Kuo, C.-M. *see* **Suo, Z.; et al., 93c:73085**

Lokin, V. V. *see* **Vainshtein, A. A.; et al., 93i:73007**

Maradudin, A. A. *see* **Parker, David F.; et al., 93g:73042**

Maruszewski, Bogdan Extended thermodynamical description of elastic paramagnets. **93d:73015**

Maugin, Gérard A. (*with* Epstein, Marcelo; Trimarco, Carmine) Pseudomomentum and material forces in inhomogeneous materials (application to the fracture of electromagnetic materials in electromagnetoelastic fields). **93c:73020**

Mayer, A. P. *see* **Parker, David F.; et al., 93g:73042**

Mel'nik, V. N. Investigation of a difference scheme for a coupled problem of dynamic electroelasticity in classes of generalized solutions. (Russian. Russian summary) **93h:73043**

— (*with* Moskal'kov, M. N.) Difference schemes and the analysis of approximate solutions for two-dimensional nonstationary problems of coupled electro-elasticity. (Russian) **93a:65115**

Milgrom, Mordehai (*with* Shtrikman, S.) The energy of inclusions in linear media exact shape-independent relations. **93g:73011**

Mol'kov, V. A. *see* **Getman, I. P., 93g:73090**

Moskal'kov, M. N. *see* **Mel'nik, V. N., 93a:65115**

Parker, David F. (*with* Mayer, A. P.; Maradudin, A. A.) The projection method for nonlinear surface acoustic waves. (English summary) **93g:73042**

Restuccia, Liliana (*with* Kluitenberg, Gerrit Alfred) On the heat dissipation function for dielectric relaxation phenomena in anisotropic media. **93a:73011**

Rukavishnikov, V. A. *see* **Vlasenko, V. D., (93d:00029)**

(Rvachëv, V. L.) *see* **Eremenko, S. Yu., 93h:73037**

Schulgasser, K. Relationships between the effective properties of transversely isotropic piezoelectric composites. **93a:73062**

Shtrikman, S. *see* **Milgrom, Mordehai, 93g:73011**

Suo, Z. (*with* Kuo, C.-M.; Barnett, D. M.; Willis, J. R.) Fracture mechanics for piezoelectric ceramics. **93c:73085**

Syngellakis, S. *see* **Harvey, A. P.; et al., 93h:73015**

Trimarco, Carmine *see* **Maugin, Gérard A.; et al., 93c:73020**

Tupholme, G. E. *see* **Harvey, A. P., 93g:73041**

Vainshtein, A. A. (*with* Girs, V. N.; Lokin, V. V.) Tensors of the sixth rank as characteristics of random tensor fields. (Russian) **93i:73007**

Vlasenko, V. D. (*with* Rukavishnikov, V. A.) A numerical method for solving a problem on transient processes in polarized piezotransformers in a two-dimensional approximation in the radiation regime. (Russian. Russian summary) (*see* **93d:00029**)

Vodyanitskii, A. A. Becoming of nonlinear thermomagnetoelastic structures in dissipative media. (English summary) (*see* **93g:76004**)

Willis, J. R. *see* **Suo, Z.; et al., 93c:73085**

Yakhno, V. G. *see* **Burdakova, O. A., (93e:00018)**

73S10 Micromechanics of solids

Barenblatt, G. I. Intermediate asymptotics in micromechanics. (*see* **93b:00026**)

Barnett, D. M. *see* **Ting, T. C. T., 93i:73046**

Benveniste, Yakov *see* **Dvorak, George J., 93e:73034a**

Deng, K. M. (*with* Long, Qi Wei; Wang, K. L.) A gauge field theory of dislocations and disclinations with irreversible processes. **93a:73071**

Dvorak, George J. (*with* Benveniste, Yakov) On transformation strains and uniform fields in multiphase elastic media. **93e:73034a**

— Transformation field analysis of inelastic composite materials. **93e:73034b**

Fonseca, Irene (*with* Parry, Gareth P.) On a class of invariant functionals. (English summary) **93i:73045**

Kobelev, V. V. Microstructural model of a fibrous composite fracture. **93c:73089**

Krichevets, Yu. M. A model of a crystal with defects on the basis of the theory of fiber bundles. (Russian. Russian summary)

Long, Qi Wei *see* **Deng, K. M.; et al., 93a:73071**

Parry, Gareth P. *see* **Fonseca, Irene, 93i:73045**

Rushchitskii, Ya. Ya. ★ Элементы теории смеси. (Russian) [Elements of mixture theory] **93e:73035**

Ting, T. C. T. (*with* Barnett, D. M.) Image force on line dislocations in anisotropic elastic half-spaces with a fixed boundary. (English summary) **93i:73046**

Wang, K. L. *see* **Deng, K. M.; et al., 93a:73071**

Items with secondary classifications in 73S10

Adams, B. L. (*with* Boehler, J.-P.; Guidi, M.; Onat, E. T.) Group theory and representation of microstructure and mechanical behavior of polycrystals. **93b:73002**

Assaf, M. A. (*with* Jentsch, Lothar) On the elasticity theory of microporous solids. (English, German and Russian summaries) **93k:73009**

Auriault, J.-L. (*with* He, S.) Liquid phase sintering: rearrangement and densification. (English summary) **93k:73010**

Bakhvalov, N. S. (*with* Èglit, M. È.) On the rate of propagation of perturbations in micro-inhomogeneous elastic media with small shear elasticity. (Russian) **93g:73053**

Balankin, A. S. The theory of elasticity of fractals and models of nonlinear elasticity, high elasticity and fracture of materials with a multifractal structure. (Russian)

Blenk, Stefan (*with* Ehrentraut, Harald; Muschik, Wolfgang) Macroscopic constitutive equations for liquid crystals induced by their mesoscopic orientation distribution.

Boehler, J.-P. *see* **Adams, B. L.; et al., 93b:73002**

Chernega, N. Ya. *see* **Eremeev, V. A.; et al., 93j:73018**

Ciancio, Vincenzo (*with* Verhás, József) On heat conduction in media with isotropic microstructure. **93a:80004**

Del Piero, Gianpietro (*with* Sampaio, Rubens) A unified treatment of damage and plasticity based on a new definition of microfracture. **93d:73058**

Dobran, Flavio ★ Theory of structured multiphase mixtures. **93g:73024**

Edelen, Dominic G. B. A 1-dimensional elastic model with time translation gauge invariance. (English summary) **93g:73025**

Èglit, M. È. *see* **Bakhvalov, N. S., 93g:73053**

Ehrentraut, Harald *see* **Blenk, Stefan; et al.**

Eremeev, V. A. (*with* Zubov, L. M.) Conditions for phase equilibrium in non-linearly elastic media with microstructure. (Russian) **93c:73011**

— (*with* Zubov, L. M.; Karyakin, M. I.; Chernega, N. Ya.) Cavitation in non-linearly elastic bodies with dislocations and disclinations. (Russian) **93j:73018**

Friedman, Avner (*with* Hu, Bei; Velázquez, Juan J. L.) A free-boundary problem modeling loop dislocations in crystals. **93h:35217**

Guidi, M. *see* **Adams, B. L.; et al., 93b:73002**

Guz', A. N. (*with* Kabelka, I.; Markush, Sh.; et al.) ★ Динамика и устойчивость слоистых композитных материалов. (Russian. Russian summary) [Dynamics and stability of layered composite materials] **93g:73084**

He, S. *see* **Auriault, J.-L., 93k:73010**

Hu, Bei *see* **Friedman, Avner; et al., 93h:35217**

Jentsch, Lothar *see* **Assaf, M. A., 93k:73009**

Kabelka, I. *see* **Guz', A. N.; et al., 93g:73084**

Karyakin, M. I. *see* **Eremeev, V. A.; et al., 93j:73018**

Katanaev, M. O. (*with* Volovich, I. V.) Theory of defects in solids and three-dimensional gravity. **93c:73017**

Leroy, Yves M. (*with* Molinari, Alain) Spatial patterns and size effects in shear zones: a hyperelastic model with higher-order gradients. (English summary) **93k:73041**

Malyshev, K. L. Gauge group and gauge transformation in the continuum theory of defects. (Russian. English summary) **93k:73014**

Markush, Sh. *see* **Guz', A. N.; et al., 93g:73084**

Massoudi, M. *see* **Rajagopal, K. R.; et al., 93c:73045**

Matysiak, Stanisław J. On the homogenized model of periodic stratified fluid-saturated porous solids. **93a:73004**

Michel, J.-C. (*with* Suquet, Pierre) The constitutive law of nonlinear viscous and porous materials. **93c:73001**

Molinari, Alain *see* **Leroy, Yves M., 93k:73041**

Moura Neto, F. Defect dynamics in a dissipative system. **93d:35066**

Muschik, Wolfgang *see* **Blenk, Stefan; et al.**

Onat, E. T. *see* **Adams, B. L.; et al., 93b:73002**

Panagiotopoulos, P. D. Fractal geometry in solids and structures. **93b:73011**

Pismen, L. M. (*with* Rubinstein, Jacob) Dynamics of disclinations in liquid crystals. **93h:73008**

Pitteri, Mario A derivation of equations of balance for microstructured continua. (English summary) (*see* **93g:00030**)

Rajagopal, K. R. (*with* Troy, William C.; Massoudi, M.) Existence of solutions to the equations governing the flow of granular materials. **93c:73045**

Rubinstein, Jacob *see* **Pismen, L. M., 93h:73008**
Sampaio, Rubens *see* **Del Piero, Gianpietro, 93d:73058**
Sanday, S. C. *see* **Yu, H. Y., 93j:73004**
Suquet, Pierre *see* **Michel, J.-C., 93c:73001**
Troy, William C. *see* **Rajagopal, K. R.; et al., 93c:73045**
Velázquez, Juan J. L. *see* **Friedman, Avner; et al., 93h:35217**
Verhás, József *see* **Ciancio, Vincenzo, 93a:80004**
Volovich, I. V. *see* **Katanaev, M. O., 93c:73017**
Yu, H. Y. (*with* Sanday, S. C.) Elastic inhomogeneous inclusion and inhomogeneity in bimaterials. (English summary) **93j:73004**
Zbib, H. M. On the mechanics of large inelastic deformations: kinematics and constitutive modeling. (English summary) **93j:73039**
Zubov, L. M. *see* **Eremeev, V. A., 93c:73011** *and* **93j:73018**

73T05 Contact and surface mechanics

Andrews, Kevin T. (*with* Mikelić, Andro; Shi, Peter; Shillor, Meir; Wright, Stephen James) One-dimensional thermoelastic contact with a stress-dependent radiation condition. (English summary) **93i:73047**
Antipov, Yu. A. (*with* Arutyunyan, N. Kh.) Contact problems in elasticity theory in the presence of friction and adhesion. (Russian) **93b:73033**
Arutyunyan, N. Kh. (*with* Manzhirov, A. V.; Naumov, V. È.) ★ Контактные задачи механики растущих тел. (Russian. English and Russian summaries) [Contact problems in the mechanics of growing bodies] **93i:73048**
— *see also* **Antipov, Yu. A., 93b:73033**
Barber, J. R. *see* **Zhang, Ronggang, 93k:73076**
Björkman, Gunnar Path following and critical points for contact problems. (English summary) **93f:73092**
— *see also* **Klarbring, Anders, 93a:73073**
Borodenko, Yu. N. *see* **Zozulya, V. V., 93c:73093**
Bouchitté, Guy (*with* Lidouh, Abdel; Suquet, Pierre) Homogénéisation de frontière pour la modélisation du contact entre un corps déformable non linéaire et un corps rigide. (English summary) [Boundary homogenization and modeling of friction between a nonlinear deformable body and a rigid body] **93c:73090**
Chebakov, M. I. *see* **Lubyagin, I. A.; et al.**
Chernopazov, S. A. (*with* Nyashin, Yu. I.) Variational methods for solving some contact problems of elastoplasticity. (Russian. Russian summary) (*see* **93k:00022**)
— (*with* Pechenov, V. S.) On the formulation of a contact problem taking into account the forces of friction. (Russian. Russian summary) (*see* **93m:00017**)
Curnier, A. *see* **Heegaard, J.-H., 93i:73049**
Demkowicz, Leszek *see* **Kuczma, M. S., 93h:73033**
Edlund, Ulf (*with* Klarbring, Anders) A geometrically nonlinear model of the adhesive joint problem and its numerical treatment. **93b:73034**
Gladwell, G. M. L. On some singular integral equations appearing in contact problems for the elastic cylinder. **93c:73091**
Haslinger, Jaroslav Signorini problem with Coulomb's law of friction. Shape optimization in contact problems. **93f:73093**
Heegaard, J.-H. (*with* Curnier, A.) An augmented Lagrangian method for discrete large-slip contact problems. (English summary) **93i:73049**
Hill, Rodney Similarity analysis of creep indentation tests. (English summary) **93e:73036**
Hoffmann, Karl-Heinz[1] *see* **Khludnev, A. M., 93a:73072**
Ionescu, Ioan R. (*with* Paumier, Jean-Claude) Friction dynamique avec coefficient dépendant de la vitesse de glissement. (English and French summaries) [Dynamical stick-slip motion with sliding velocity-dependent friction] **93k:73073**
Jentsch, Lothar Zur klassischen Kontaktaufgabe der Elastostatik. (English and Russian summaries) [On the classical contact problem of elastostatics] **93f:73094**
Johansson, L. (*with* Klarbring, Anders) The rigid punch problem with friction using variational inequalities and linear complementarity. (English summary) **93i:73050**
Kalker, J. J. ★ Three-dimensional elastic bodies in rolling contact. **93e:73037**
Khludnev, A. M. Extremal forms of cuts in a plate that is in contact with a rigid stamp. (Russian) (*see* **93d:35001**)
— (*with* Hoffmann, Karl-Heinz[1]) A variational inequality in a contact elastoplastic problem for a bar. **93a:73072**
Khludneva, E. Yu. A problem on the contact of an inelastic plate with a rigid stamp. (Russian. Russian summary) **93e:73038**
Klarbring, Anders (*with* Mikelić, Andro; Shillor, Meir) A global existence result for the quasistatic frictional contact problem with normal compliance. **93g:73104**
— The rigid punch problem in nonlinear elasticity: formulation, variational principles and linearization. (Russian and Polish summaries) **93e:73039**
— (*with* Björkman, Gunnar) Solution of large displacement contact problems with friction using Newton's method for generalized equations. **93a:73073**
— On the problem of optimizing contact force distributions. **93f:73095**
— (*with* Mikelić, Andro; Shillor, Meir) On the rigid punch with friction. (*see* **93k:00037**)
— *see also* **Edlund, Ulf, 93b:73034** *and* **Johansson, L., 93i:73050**
Kolpakov, A. G. Glued bodies. (Russian. Russian summary) **93k:73074**
Kuczma, M. S. (*with* Demkowicz, Leszek) An adaptive algorithm for unilateral viscoelastic contact problems for beams and plates. (English summary) **93h:73033**
Leont'ev, A. N. Optimal control of the form of a stamp in a problem on strong deflections of a plate. (Russian) (*see* **93f:00017**)
Li, Zhi Ping Globally 1-1 solutions and finite element method for elastic-contact problems in nonlinear elasticity. **93h:73034**
Licht, C. (*with* Thoulouze-Pratt, Elaine; Raous, M.) Remarks on a numerical method for unilateral contact including friction. **93g:73105**
Lidouh, Abdel *see* **Bouchitté, Guy; et al., 93c:73090**
Lubyagin, I. A. (*with* Pozharskii, D. A.; Chebakov, M. I.) Penetration of a stamp in the form of an elliptic paraboloid into an elastic three-dimensional wedge. (Russian. Russian summary)
Maceri, Aldo On the problem of contact between elastic plates. (Italian. English summary) **93a:73074**
— A nonlinear elastic obstacle problem for a clamped plate. (Italian. English summary) **93d:73065**
Mackerle, Jaroslav *see* **Zhong, Zhi-Hua, 93f:73096**
Manzhirov, A. V. *see* **Arutyunyan, N. Kh.; et al., 93i:73048**
Mikelić, Andro *see* **Klarbring, Anders; et al., 93g:73104**; **Andrews, Kevin T.; et al., 93i:73047** *and* **Klarbring, Anders; et al., (93k:00037)**
Mistakidis, E. S. *see* **Panagiotopoulos, P. D.; et al., 93g:73106**
Naumov, V. È. *see* **Arutyunyan, N. Kh.; et al., 93i:73048**
Nyashin, Yu. I. *see* **Chernopazov, S. A., (93k:00022)**
Panagiotopoulos, P. D. (*with* Mistakidis, E. S.; Panagouli, O. K.) Fractal interfaces with unilateral contact and friction conditions. (English summary) **93g:73106**
— (*with* Panagouli, O. K.) Fractal interfaces in structures: methods of calculation. (English summary) **93i:73051**
Panagouli, O. K. *see* **Panagiotopoulos, P. D.; et al., 93g:73106** *and* **93i:73051**
Paumier, Jean-Claude *see* **Ionescu, Ioan R., 93k:73073**
Pechenov, V. S. *see* **Chernopazov, S. A., (93m:00017)**
Pozharskii, D. A. *see* **Lubyagin, I. A.; et al.**
Raous, M. *see* **Licht, C.; et al., 93g:73105**
Schumann, Rainer Zur Regularität einer Kontakt-Randwertaufgabe. (English and Russian summaries) [On the regularity of a contact boundary value problem] **93e:73040**
Shi, Peter (*with* Shillor, Meir) Existence of a solution to the N-dimensional problem of thermoelastic contact. **93i:73052**
— (*with* Shillor, Meir) An application of the duality method to the regularity of membrane problems with friction. (English summary) **93i:73053**
— (*with* Shillor, Meir) A quasistatic contact problem in thermoelasticity with a radiation condition for the temperature. (English summary) **93k:73075**
— *see also* **Andrews, Kevin T.; et al., 93i:73047**
Shillor, Meir *see* **Klarbring, Anders; et al., 93g:73104**; **Andrews, Kevin T.; et al., 93i:73047**; **Shi, Peter, 93i:73052**; **93i:73053**; **93k:73075** *and* **Klarbring, Anders; et al., (93k:00037)**
Souza de Cursi, José Eduardo Un problème issu de l'étude numérique d'un fil sans raideur soumis au frottement sec. (English and French summaries) [A problem in the numerical study of a string subject to Coulomb friction] **93m:73036**
Suquet, Pierre *see* **Bouchitté, Guy; et al., 93c:73090**
Tang, Qi An elastoplastic problem with frictions. (*see* **93k:00037**)
Telega, Józef Joachim Quasi-static Signorini's contact problem with friction and duality. **93d:73066**
Thoulouze-Pratt, Elaine *see* **Licht, C.; et al., 93g:73105**
Villaggio, Piero The shape of the free surface of a unilaterally supported elastic body. **93c:73092**
Wright, Stephen James *see* **Andrews, Kevin T.; et al., 93i:73047**
Wu, Chien H. Cohesive elasticity and surface phenomena. **93a:73075**
Zhang, Ronggang (*with* Barber, J. R.) Transient thermoelastic contact and stability of two thin-walled cylinders. (English summary) **93k:73076**
Zhong, Zhi-Hua (*with* Mackerle, Jaroslav) Static contact problems—a review. (English summary) **93f:73096**
Zozulya, V. V. (*with* Borodenko, Yu. N.) A coupled problem on the contact of a cylindrical shell with a rigid body through a heat-conducting layer. (Russian. English summary) **93c:73093**
— The method of boundary functionals in contact problems of the dynamics of bodies with cracks. (Russian. English and Russian summaries) **93f:73097**

Items with secondary classifications in 73T05

Assaf, M. A. (*with* Jentsch, Lothar) On the elasticity theory of microporous solids. (English, German and Russian summaries) **93k:73009**
Barber, J. R. (*with* Sturla, F. A.) Application of the reciprocal theorem to some problems for the elastic half-space. **93a:73014**
Bathe, Klaus-Jürgen *see* **Eterovic, A. L., 93d:73067**
Begehr, Heinrich (*with* Lin, Wei[1]) A mixed-contact boundary problem in orthotropic elasticity. (English summary) **93m:35175**
Belyankova, T. I. (*with* Kalinchuk, V. V.) Shear vibrations of a stamp on the surface of a prestressed half-space. (Russian. Russian summary)
Boldin, V. P. (*with* Malanov, S. B.; Utkin, G. A.) Formulation of boundary value problems of the dynamics of two-dimensional systems with moving loads and fastenings. (Russian) **93f:73064**
Butt, R. (*with* Rubio, J. E.) Optimal shape design for a frictionless contact problem. **93d:73051**
Chernyi, G. G. The asymptotic method in problems on the motion of bodies in a melting medium. (Russian. Russian summary) **93m:80009**
Đặng Đình Áng (*with* Schmitt, Klaus; Vy, L. K.) Variational inequalities and the contact of elastic plates. **93h:35078**
Deimling, Klaus Multivalued differential equations and dry friction problems. **93d:34024**
(Del Piero, Gianpietro) *see* **Unilateral problems in structural analysis, 93a:73001**
Eterovic, A. L. (*with* Bathe, Klaus-Jürgen) On large strain elastoplastic analysis with frictional contact conditions. **93d:73067**
Fam Shu Vin' *see* **Martynenko, Mikhailo D., 93f:73016**
Guo, Zhong Heng (*with* Wang, Shu Xun) Dynamics of unilateral systems on a finite-dimensional Riemannian manifold. **93e:58061**
Haslinger, Jaroslav (*with* Neittaanmäki, Pekka; Salmenjoki, K.) Sensitivity analysis for discretized unilateral plane elasticity problem. (English summary) **93j:73058**
— *see also* **Panagiotopoulos, P. D., 93e:73029** *and* **93m:49007**
Ivanov, A. P. Energetics of an impact with friction. (Russian. Russian summary) **93h:70003**
Jean, Michel Dynamics of rigid bodies with dry friction and partially elastic collisions. **93c:70006**
Jentsch, Lothar *see* **Assaf, M. A., 93k:73009**
Kalinchuk, V. V. *see* **Belyankova, T. I.**
Klarbring, Anders (*with* Mikelić, Andro; Shillor, Meir) Optimal shape design in contact problems with normal compliance and friction. **93d:73054**
Lin, Wei[1] *see* **Begehr, Heinrich, 93m:35175**
(Maceri, F.) *see* **Unilateral problems in structural analysis, 93a:73001**
Malanov, S. B. *see* **Boldin, V. P.; et al., 93f:73064**

Martynenko, Mikhailo D. (*with* Fam Shu Vin') Existence of solitary waves in a prestressed nonlinear thermoelastic medium with dry friction. (English summary) **93f:73016**
Miersemann, Erich (*with* Mittelmann, H. D.) Stability in obstacle problems for the von Kármán plate. (English summary) **93h:35081**
Mikelić, Andro *see* **Klarbring, Anders; et al., 93d:73054**
Mittelmann, H. D. *see* **Miersemann, Erich, 93h:35081**
Nakhmein, E. L. (*with* Nuller, B. M.) Periodic combined boundary value problems and their applications in elasticity theory. (Russian) **93d:73024**
Neittaanmäki, Pekka *see* **Haslinger, Jaroslav; et al., 93j:73058**
Nuller, B. M. *see* **Nakhmein, E. L., 93d:73024**
Panagiotopoulos, P. D. (*with* Haslinger, Jaroslav) Optimal control and identification of structures involving multivalued nonmonotonicities. Existence and approximation results. **93e:73029**
— (*with* Haslinger, Jaroslav) On the dual reciprocal variational approach to the Signorini-Fichera problem. Convex and nonconvex generalization. (English, German and Russian summaries) **93m:49007**
Rubio, J. E. *see* **Butt, R., 93d:73051**
Salmenjoki, K. *see* **Haslinger, Jaroslav; et al., 93j:73058**
Sanday, S. C. *see* **Yu, H. Y., 93j:73004**
Schmitt, Klaus *see* **Đặng Đình Áng; et al., 93h:35078**
Shi, Peter (*with* Shillor, Meir) Noncoercive variational inequalities with application to friction problems. **93b:47136**
— (*with* Shillor, Meir) On design of contact patterns in one-dimensional thermoelasticity. **93e:73005**
— *see also* **Shillor, Meir, (93k:00037)**
Shillor, Meir (*with* Shi, Peter) On the regularity of solutions to problems with friction. (*see* **93k:00037**)
— *see also* **Shi, Peter, 93b:47136; Klarbring, Anders; et al., 93d:73054** *and* **Shi, Peter, 93e:73005**
Sturla, F. A. *see* **Barber, J. R., 93a:73014**
Utkin, G. A. *see* **Boldin, V. P.; et al., 93f:73064**
Vy, L. K. *see* **Đặng Đình Áng; et al., 93h:35078**
Wang, Shu Xun *see* **Guo, Zhong Heng, 93e:58061**
Xie, Wei Qing A class of nonlinear parabolic integro-differential equations. (English summary) **93m:45004**
Yu, H. Y. (*with* Sanday, S. C.) Elastic inhomogeneous inclusion and inhomogeneity in bimaterials. (English summary) **93j:73004**
Yuan, Yi Rang (*with* Zhou, Guo Hui) Curved finite elements for the problem of embedding a plate on an elastic foundation. (Chinese. Chinese summary) **93j:73049**
Zemitis, A. A numerical solution of the inverse Signorini problem. (Russian. English, Russian and Latvian summaries) **93g:73117**
Zhou, Guo Hui *see* **Yuan, Yi Rang, 93j:73049**

Items listed otherwise than by author

Capri ★ Unilateral problems in structural analysis. IV. **93a:73001**
Meeting:
Unilateral Problems in Structural Analysis ★ Unilateral problems in structural analysis. IV. **93a:73001**
Unilateral problems in structural analysis ★ Unilateral problems in structural analysis. IV. **93a:73001**

73Vxx Basic methods in solid mechanics [see also 65-xx]

Items with secondary classifications in 73Vxx

(Canuto, Claudio) *see* **Spectral and high order methods for partial differential equations, 93d:65005**
(Chan, Tony F. C.) *see* **Proceedings: Conference on Scientific Computation, 93d:65004**
Doyle, James F. ★ Static and dynamic analysis of structures. **93i:73031**
(Quarteroni, Alfio) *see* **Spectral and high order methods for partial differential equations, 93d:65005**
(Shi, Zhong Ci) *see* **Proceedings: Conference on Scientific Computation, 93d:65004**

Items listed otherwise than by author

Como ★ Spectral and high order methods for partial differential equations. **93d:65005**
Conference:
Scientific Computation ★ Proceedings of International Conference on Scientific Computation. **93d:65004**
Spectral and High Order Methods for Partial Differnetial Equations ★ Spectral and high order methods for partial differential equations. **93d:65005**
Hangzhou ★ Proceedings of International Conference on Scientific Computation. **93d:65004**
Proceedings:
Conference on Scientific Computation ★ Proceedings of International Conference on Scientific Computation. **93d:65004**
Spectral and high order methods for partial differential equations ★ Spectral and high order methods for partial differential equations. **93d:65005**

73V05 Finite element methods

Ainsworth, Mark (*with* Oden, J. Tinsley) A procedure for a posteriori error estimation for *h-p* finite element methods. (English summary) **93h:73035**
Alarcón, E. *see* **Beltran, F. J., 93e:73041**
Aliabadi, S. K. *see* **Tezduyar, T. E.; et al., 93f:73104**
Alliney, S. (*with* Carnicer, R. S.) A hybrid finite element model for multilayered plates. (English summary) **93g:73107**
de Almeida, J. P. Moitinho (*with* de Freitas, J. A. Teixeira) Continuity conditions for finite element analysis of solids. **93b:73035**
Armero, F. *see* **Simo, Juan C., 93a:73082**
Atluri, S. N. *see* **Cazzani, A., 93k:73077**
Babuška, Ivo M. (*with* Planck, L.; Rodríguez, Rodolfo) Basic problems of a posteriori error estimation. (English summary) **93h:73036**
— *see also* **Li, Li Kang, (93d:65004)**
Baehmann, Peggy L. (*with* Shephard, Mark S.; Flaherty, Joseph E.) A posteriori error estimation for triangular and tetrahedral quadratic elements using interior residuals. **93a:73076**
Bathe, Klaus-Jürgen *see* **Eterovic, A. L., 93d:73067**
Behr, M. *see* **Tezduyar, T. E.; et al., 93f:73104**
Beltran, F. J. (*with* Alarcón, E.) Accuracy estimates based on multifield variational principles. (English summary) **93e:73041**
Belytschko, Ted (*with* Lu, Y. Y.) Stability analysis of elemental explicit-implicit partitions by Fourier methods. **93a:73077**
Bergmann, Brad E. (*with* Nambiar, Rajiv V.; Lawrence, Kent L.) Explicit stiffness and error estimator expressions for a family of axisymmetric triangular finite elements. (*see* **93f:00014**)
Bernspång, L. *see* **Zeng, Lingfu; et al., 93a:73083**
Braess, Dietrich *see* **Peisker, P., 93j:73070**
Brenner, Susanne C. (*with* Sung, Li-Yeng) Linear finite element methods for planar linear elasticity. **93a:73078**
Cardona, A. (*with* Géradin, M.) A superelement formulation for mechanism analysis. (English summary) **93g:73108**
Carnicer, R. S. *see* **Alliney, S., 93g:73107**
Cazzani, A. (*with* Atluri, S. N.) Four-noded mixed finite elements, using unsymmetric stresses, for linear analysis of membranes. (English summary) **93k:73077**
Chenais, D. *see* **Habbal, Abderrahmane, 93f:73099**
Chinosi, C. (*with* Sacchi Landriani, Giovanni; Scapolla, T.) A hierarchic family of conforming finite elements for the solution of plate bending problems. (English summary) (*see* **93d:65005**)
— (*with* Scapolla, T.; Sacchi Landriani, Giovanni) A hierarchic family of C^1 finite elements for 4th order elliptic problems. (English summary) **93f:73098**
Chow, C. L. *see* **Sze, K. Y., 93g:73110**
Chróścielewski, J. (*with* Makowski, J.; Stumpf, Helmut) Genuinely resultant shell finite elements accounting for geometric and material nonlinearity. **93a:73079**
Comi, C. (*with* Maier, Giulio; Perego, U.) Generalized variable finite element modeling and extremum theorems in stepwise holonomic elastoplasticity with internal variables. **93a:73080**
Corigliano, A. (*with* Perego, U.) Generalized midpoint finite element dynamic analysis of elastoplastic systems. (English summary) **93i:73054**
Dafalias, Y. F. *see* **Loret, Benjamin; et al., 93c:73094**
Deineka, V. S. *see* **Skopetskii, V. V.; et al., 93d:73068**
De Roeck, Yann-Hervé (*with* Le Tallec, Patrick; Vidrascu, Marina) A domain-decomposed solver for nonlinear elasticity. (English summary) **93g:73109**
Eremenko, S. Yu. ★ Методы конечных элементов в механике деформируемых тел. (Russian. Russian summary) [Finite-element methods in the mechanics of deformable bodies] **93h:73037**
Eterovic, A. L. (*with* Bathe, Klaus-Jürgen) On large strain elastoplastic analysis with frictional contact conditions. **93d:73067**
Farhat, Charbel A saddle-point principle domain decomposition method for the solution of solid mechanics problems. (English summary) **93h:73038**
Flaherty, Joseph E. *see* **Baehmann, Peggy L.; et al., 93a:73076**
de Freitas, J. A. Teixeira *see* **de Almeida, J. P. Moitinho, 93b:73035**
Gao, Hang Shan *see* **Zhang, Ru Qing, 93f:73107**
Georges, Marcel K. *see* **Shephard, Mark S., 93h:73040**
Georgiev, Krassimir *see* **Margenov, Svetozar, 93f:73102**
Géradin, M. *see* **Cardona, A., 93g:73108**
Habbal, Abderrahmane (*with* Chenais, D.) Deterioration of a finite element method for arch structures when the thickness goes to zero. **93f:73099**
Hammoum, F. *see* **Loret, Benjamin; et al., 93c:73094**
Hulbert, Gregory M. Discontinuity-capturing operators for elastodynamics. **93b:73036**
Imbert, J.-F. ★ Analyse des structures par éléments finis. (French) [Finite-element analysis of structures]
Ji, Zhen Yi (*with* Ye, Kai Yuan) An exact element method for bending of nonhomogeneous thin plates. (Chinese. English and Chinese summaries)
Jiang, Tong *see* **Pan, Gu Ning; et al., (93b:65008)**
Kikuchi, Fumio *see* **Yamada, Takahiro; et al., 93c:73097** *and* **93i:73056**
Kitamura, Mitsuru *see* **Ohtsubo, Hideomi, 93a:73081**
Kobozeva, A. A. (*with* Maslovskaya, L. V.) A generalized Cholesky algorithm in problems in the theory of plates and shells. (Russian. Russian summary) **93h:73039**
Krishna, Lala *see* **Padovan, Joe; et al., 93m:73037**
Laborde, Patrick Numerical solution of free boundary problems in solids mechanics. (English summary) (*see* **93m:00044**)
Ladevèze, P. (*with* Pelle, J.-P.; Rougeot, Ph.) Error estimation and mesh optimization for classical finite elements. (English summary) **93f:73100**
Lawrence, Kent L. *see* **Bergmann, Brad E.; et al., (93f:00014)**
Lee, Byung Chai *see* **Lee, Yoon Joon, 93k:73079**
Lee, C. K. (*with* Lo, Sai-Huen) An automatic adaptive refinement finite element procedure for 2D elastostatic analysis. (English summary) **93k:73078**
Lee, J. H. An algorithm in finding partial volumes of 3-D 20-node elements in localization analysis. (English summary) **93i:73055**
Lee, Yoon Joon (*with* Lee, Byung Chai) Derivation of stabilization matrices for Mindlin plates from the combined mixed functional and their mathematical characteristics. (English summary) **93k:73079**
Le Tallec, Patrick *see* **De Roeck, Yann-Hervé; et al., 93g:73109**
Li, Li Kang (*with* Babuška, Ivo M.) The corner singularity and boundary layer and computation for hierarchic plate model. (English summary) (*see* **93d:65004**)
Li, Xiangdong *see* **Wiberg, Nils-Erik; et al., 93h:73041**
Li, Y.-N. (*with* Liang, R. Y.; Wang, Da Jun) On convergence rate of finite element eigenvalue analysis with mass lumping by nodal quadrature. (English summary) **93f:73101**
Liang, R. Y. *see* **Li, Y.-N.; et al., 93f:73101**

Liu, Zu De *see* **Pan, Gu Ning; et al., (93b:65008)**
Lo, Sai-Huen *see* **Lee, C. K., 93k:73078**
Loret, Benjamin (*with* Hammoum, F.; Dafalias, Y. F.) A note on the accuracy of stress-point algorithms for anisotropic elastic-plastic solids. (English summary) **93c:73094**
Lu, Wen Da *see* **Yang, Zheng Wen, (93b:65008)**
Lu, Y. Y. *see* **Belytschko, Ted, 93a:73077**
Maier, Giulio *see* **Comi, C.; et al., 93a:73080**
Makowski, J. *see* **Chróścielewski, J.; et al., 93a:73079**
Marchenko, O. A. *see* **Skopetskii, V. V.; et al., 93d:73068**
Margenov, Svetozar (*with* Georgiev, Krassimir) On domain decomposition preconditioning of plane elasticity problems. (English summary) **93f:73102**
Maslovskaya, L. V. *see* **Kobozeva, A. A., 93h:73039**
Mittal, S. *see* **Tezduyar, T. E.; et al., 93f:73104**
Nambiar, Rajiv V. *see* **Bergmann, Brad E.; et al., (93f:00014)**
Niu, Qingxiang (*with* Shephard, Mark S.) Superconvergent extraction techniques for finite element analysis. (English summary) **93k:73080**
Oden, J. Tinsley *see* **Ainsworth, Mark, 93h:73035** *and* **Tworzydlo, W. W.**
Ohtsubo, Hideomi (*with* Kitamura, Mitsuru) Element by element a posteriori error estimation of the finite element analysis for three-dimensional elastic problems. **93a:73081**
Padovan, Joe (*with* Sansgiri, Sanjiv M.; Krishna, Lala) Multiply gauged, mixed, progressively direct gradient based iterative solvers. (English summary) **93m:73037**
Pan, Gu Ning (*with* Liu, Zu De; Jiang, Tong) Analysis of piles in layered soils by the coupling method of FEM-BEM. (*see* **93b:65008**)
Peisker, P. (*with* Braess, Dietrich) Uniform convergence of mixed interpolated elements for Reissner-Mindlin plates. (English and French summaries) **93j:73070**
Pelle, J.-P. *see* **Ladevèze, P.; et al., 93f:73100**
Perego, U. *see* **Comi, C.; et al., 93a:73080** *and* **Corigliano, A., 93i:73054**
Planck, L. *see* **Babuška, Ivo M.; et al., 93h:73036**
Qin, Qing Hua (*with* Zhang, Qing Jie) A triangular element of a plate with ten degrees of freedom. (English summary)
Ray, S. E. *see* **Tezduyar, T. E.; et al., 93f:73104**
Reddy, B. D. (*with* Volpi, M. B.) Mixed finite element methods for the circular arch problem. (English summary) **93f:73103**
— Mixed finite element methods for one-dimensional problems: a survey. (English summary) **93k:73081**
Rodríguez, Rodolfo *see* **Babuška, Ivo M.; et al., 93h:73036**
Rougeot, Ph. *see* **Ladevèze, P.; et al., 93f:73100**
(Rvachëv, V. L.) *see* **Eremenko, S. Yu., 93h:73037**
Sacchi Landriani, Giovanni *see* **Chinosi, C.; et al., 93f:73098** *and* **(93d:65005)**
Sansgiri, Sanjiv M. *see* **Padovan, Joe; et al., 93m:73037**
Scapolla, T. *see* **Chinosi, C.; et al., 93f:73098** *and* **(93d:65005)**
Shephard, Mark S. (*with* Georges, Marcel K.) Reliability of automatic 3D mesh generation. (English summary) **93h:73040**
— *see also* **Baehmann, Peggy L.; et al., 93a:73076** *and* **Niu, Qingxiang, 93k:73080**
Simo, Juan C. (*with* Armero, F.) Geometrically nonlinear enhanced strain mixed methods and the method of incompatible modes. **93a:73082**
Skopetskii, V. V. (*with* Deineka, V. S.; Marchenko, O. A.) Discretization of a dynamic problem in the theory of elasticity that admits a discontinuity in the solution. (Russian) **93d:73068**
Smolinski, Patrick Stability analysis of a multi-time step explicit integration method. **93c:73095**
Sorem, R. M. *see* **Surana, K. S., 93c:73096**
Stumpf, Helmut *see* **Chróścielewski, J.; et al., 93a:73079**
Sung, Li-Yeng *see* **Brenner, Susanne C., 93a:73078**
Surana, K. S. (*with* Sorem, R. M.) Completely hierarchical *p*-version curved shell element for laminated composite plates and shells. (English summary) **93c:73096**
Szabo, Barna A. The *p*- and *h*-*p* versions of the finite element method in solid mechanics. (English summary) (*see* **93d:65005**)
Sze, K. Y. (*with* Chow, C. L.) Efficient hybrid/mixed elements using admissible matrix formulation. (English summary) **93g:73110**
Tadi, M. Finite elements for modeling and control of a Mindlin plate. (English summary) **93k:73082**
Tezduyar, T. E. (*with* Behr, M.; Aliabadi, S. K.; Mittal, S.; Ray, S. E.) A new mixed preconditioning method for finite element computations. (English summary) **93f:73104**
Trouvé, Pascal Various nonconforming approximations of thin shell problems and the question of their convergence. (English and Portuguese summaries) **93j:73071**
Tworzydlo, W. W. (*with* Oden, J. Tinsley) Towards an automated environment in computational mechanics. (English summary)
Vidrascu, Marina *see* **De Roeck, Yann-Hervé; et al., 93g:73109**
Volpi, M. B. *see* **Reddy, B. D., 93f:73103**
Wada, A. *see* **Yamada, Takahiro; et al., 93c:73097**
Wang, Da Jun *see* **Li, Y.-N.; et al., 93f:73101**
Wang, Lie Heng Mathematical modelling of coupled plates and their finite element approximations. (English summary) (*see* **93d:65004**)
Weissman, S. L. A mixed formulation of nonlinear-elastic problems. (English summary) **93f:73105**
Wiberg, Nils-Erik (*with* Zeng, Lingfu; Li, Xiangdong) Error estimation and adaptivity in elastodynamics. (English summary) **93h:73041**
— *see also* **Zeng, Lingfu; et al., 93a:73083** *and* **93f:73106**
Wu, Chang Chun *see* **Zhang, You Qi**
Xu, Lin Rong Unified formation of shape functions for Zienkiewicz elements and Veubeke elements. (Chinese. English and Chinese summaries)
Yamada, Takahiro (*with* Kikuchi, Fumio; Wada, A.) A 9-node mixed shell element based on the Hu-Washizu principle. (English summary) **93c:73097**
— (*with* Kikuchi, Fumio) An arbitrary Lagrangian-Eulerian finite element method for incompressible hyperelasticity. (English summary) **93i:73056**
Yang, Zheng Wen (*with* Lu, Wen Da) Analysis of dynamic interaction between soil and cooling tower by hybrid method. (*see* **93b:65008**)
Ye, Kai Yuan *see* **Ji, Zhen Yi**
Zeng, Lingfu (*with* Wiberg, Nils-Erik) Spatial mesh adaptation in semidiscrete finite element analysis of linear elastodynamic problems. (English summary) **93f:73106**
— (*with* Wiberg, Nils-Erik; Bernspång, L.) An adaptive finite element procedure for 2D dynamic transient analysis using direct integration. **93a:73083**
— *see also* **Wiberg, Nils-Erik; et al., 93h:73041**
Zhang, Qing Jie *see* **Qin, Qing Hua**
Zhang, Ru Qing (*with* Gao, Hang Shan) The random variational principle and finite element method. (Chinese. English and Chinese summaries) **93f:73107**
Zhang, You Qi (*with* Wu, Chang Chun) The patch test condition in curvilinear coordinate system—formulation and application. (English summary)
Zhu, J. Z. *see* **Zienkiewicz, O. C., 93c:73098; 93c:73099** *and* **93h:73042**
Zienkiewicz, O. C. (*with* Zhu, J. Z.) The superconvergent patch recovery (SPR) and adaptive finite element refinement. (English summary) **93h:73042**
— (*with* Zhu, J. Z.) The superconvergent patch recovery and a posteriori error estimates. I. The recovery technique. **93c:73098**
— (*with* Zhu, J. Z.) The superconvergent patch recovery and a posteriori error estimates. II. Error estimates and adaptivity. **93c:73099**

Items with secondary classifications in 73V05

Ainsworth, Mark (*with* Oden, J. Tinsley; Lee, Chang-Yeong) Local a posteriori error estimators for variational inequalities. (English summary) **93m:49015**
Akian, Jean-Luc (*with* Sánchez-Palencia, Enrique) Approximation de coques élastiques minces par facettes planes. Phénomènes de blocage membranaire. (English and French summaries) [Approximation of thin elastic shells by flat elements. Phenomena of membrane locking] **93g:73086**
Aköz, A. Y. (*with* Uzcan, N.) The new functional for Reissner plates and its application. (English summary) **93f:73057**
(Aliabadi, M. Hosseini) *see* **Adaptive finite and boundary element methods, 93m:65005**
Alvarez Vigil, A. E. (*with* González Nicieza, C.; Ordieres Meré, J. B.) Numerical solution of an optimal shape design problem with elastic solids. (English summary) **93g:73093**
Andrieux, Stéphane (*with* Léger, A.) Multiple scaling method for the calculation of threaded assemblies. (English summary) **93m:73033**
Arnold, Douglas N. Innovative finite element methods for plates. (Portuguese summary) **93c:65136**
Babuška, Ivo M. (*with* Suri, Manil) The *p*- and *h*-*p* versions of the finite element method, an overview. (English summary) (*see* **93d:65005**)
— (*with* Suri, Manil) Locking effects in the finite element approximation of elasticity problems. **93i:65108**
— (*with* Rodríguez, Rodolfo) The problem of the selection of an a posteriori error indicator based on smoothening techniques. (English summary) **93k:65089**
— *see also* **Szabo, Barna A., 93f:73001**
Baranger, Jacques (*with* Sandri, D.) A formulation of Stokes's problem and the linear elasticity equations suggested by the Oldroyd model for viscoelastic flow. (French summary) **93a:73051**
Barbosa, Helio J. C. (*with* Hughes, Thomas J. R.) Circumventing the Babuška-Brezzi condition in mixed finite element approximations of elliptic variational inequalities. **93c:65138**
Başar, Y. Finite-rotation theories for composite laminates. (English summary) **93k:73064**
Bathe, Klaus-Jürgen *see* **Brezzi, Franco, 93f:73058**
Bernadou, M. (*with* Mato Eiroa, P.; Trouvé, Pascal) On the approximation of general linear thin shell problems by D.K.T. methods. (Portuguese summary) **93c:65140**
Bettess, Jacqueline A. *see* **Bettess, Peter, 93g:76077**
Bettess, Peter (*with* Bettess, Jacqueline A.) Infinite elements for dynamic problems. I, II. (English summary) **93g:76077**
Bielak, Jacobo *see* **Zeng, Xiaogang; et al., 93d:76041** *and* **93k:73087**
Blum, Heribert Defect correction schemes for mixed and nonconforming finite elements. (English summary) **93f:65072**
(Brebbia, C. A.) *see* **Adaptive finite and boundary element methods, 93m:65005**
Brezzi, Franco (*with* Bathe, Klaus-Jürgen) Recent developments in the finite element approximation of Reissner-Mindlin plates. (Portuguese summary) **93f:73058**
Bufler, Hans *see* **Sansour, Carlo, 93c:73071**
Butt, R. (*with* Rubio, J. E.) Optimal shape design for a frictionless contact problem. **93d:73051**
Chen, Shao Chun *see* **Shi, Zhong Ci, 93b:65179**
Chen, Su Huan (*with* Liu, Zhong Sheng; Xu, Tao) A new method for solving nonlinear eigenproblems of vibrations. (English summary) **93m:73021**
Curnier, A. *see* **Heegaard, J.-H., 93i:73049**
Devloo, Philippe R. (*with* Faria, Luis) Discretization vs modelling error for a class of beam elements. (English and Portuguese summaries) **93c:73059**
Dobrowolski, Manfred A mixed finite element method for approximating incompressible materials. **93b:65167**
Duffield, R. C. *see* **Shih, H.-R.; et al., (93b:65002)**
Edlund, Ulf (*with* Klarbring, Anders) A geometrically nonlinear model of the adhesive joint problem and its numerical treatment. **93b:73034**
Evzerov, I. D. An approximate scheme for a coupled problem of thermoelastoviscoplasticity. (Russian. Russian summary) **93h:73019**
Fafard, M. (*with* Massicotte, B.) Geometrical interpretation of the arc-length method. (English summary) **93m:73040**
Faria, Luis *see* **Devloo, Philippe R., 93c:73059**
Filimonenkov, D. O. Error estimates for some piecewise-polynomial approximations in the plane. (Russian. Russian summary) **93i:65023**
Finzi Vita, S. Numerical shape optimization for relaxed Dirichlet problems. (English summary) **93j:49042**
Fox, D. D. *see* **Simo, Juan C.; et al., 93e:73027**
French, Donald A. Long time behavior of a numerical approximation to a nonlinear evolution problem in viscoelasticity. (English summary) (*see* **93m:00047**)
Fronk, T. H. (*with* Mahan, J. R.) Fully-coupled fluid-structure formulation of a baffled rectangular orthotropic plate using the boundary element and finite element methods. (English summary) (*see* **93b:65002**)
Gerstle, W. H. (*with* Prasad, N. N. V.; Xie, M.) Solution method for coupled elastostatic

BEM and FEM domains. (English summary) (*see* 93b:65002)

Givoli, Dan A spatially exact nonreflecting boundary condition for time dependent problems. **93a:65151**

— (*with* Rivkin, Leonid; Keller, Joseph B.) A finite element method for domains with corners. (English summary) **93f:65081**

González Nicieza, C. *see* **Alvarez Vigil, A. E.; et al., 93g:73093**

Guo, Xiao Ming (*with* She, Ying He) Variational inequality in elastoplastic problems. (English summary) **93k:73032**

Han, Hou De (*with* Wu, Xiao Nan) A finite element method for linear elastic equations on unbounded domains. (English summary) (*see* 93d:65004)

Hansbo, Peter *see* **Johnson, Claes, 93m:65157**

Harari, Isaac (*with* Hughes, Thomas J. R.) What are C and h?: inequalities for the analysis and design of finite element methods. **93g:65122**

Haslinger, Jaroslav (*with* Neittaanmäki, Pekka; Salmenjoki, K.) Sensitivity analysis for discretized unilateral plane elasticity problem. (English summary) **93j:73058**

— Signorini problem with Coulomb's law of friction. Shape optimization in contact problems. **93f:73093**

Heegaard, J.-H. (*with* Curnier, A.) An augmented Lagrangian method for discrete large-slip contact problems. (English summary) **93i:73049**

Heinrich, Juan C. *see* **Pepper, Darrell W., 93f:65001**

Hlaváček, Ivan Shape optimization of elastoplastic bodies by the finite element method. (*see* 93b:65007)

Hu, Ning (*with* Zhang, Ru Qing) An iterative parallel algorithm of finite element method. (Chinese. English summary)

Huang, Mao Guang *see* **Jiao, Zhao Ping; et al.**

Hugger, Jens Adaptive recovery of near optimal meshes in the finite element method for parameter dependent problems. (English summary) **93h:65138**

Hughes, Thomas J. R. *see* **Barbosa, Helio J. C., 93c:65138** *and* **Harari, Isaac, 93g:65122**

Jiao, Zhao Ping (*with* Wu, Chang Chun; Huang, Mao Guang) A study on completeness of displacement trial functions of incompatible elements with internal parameters. (Chinese. English and Chinese summaries)

Johansson, L. (*with* Klarbring, Anders) The rigid punch problem with friction using variational inequalities and linear complementarity. (English summary) **93i:73050**

Johnson, Claes (*with* Hansbo, Peter) Adaptive finite element methods in computational mechanics. (English summary) **93m:65157**

Kallivokas, L. F. *see* **Zeng, Xiaogang; et al., 93k:73087**

Keller, Joseph B. *see* **Givoli, Dan; et al., 93f:65081**

Klarbring, Anders The rigid punch problem in nonlinear elasticity: formulation, variational principles and linearization. (Russian and Polish summaries) **93e:73039**

— *see also* **Edlund, Ulf, 93b:73034** *and* **Johansson, L., 93i:73050**

Kočvara, Michal An iterative method for adaptive finite element computation. (English summary) **93j:65181**

Koo, Bon Ung (*with* Lee, Byung Chai) An efficient profile reduction algorithm based on the frontal ordering scheme and the graph theory. (English summary)

Lee, Byung Chai *see* **Koo, Bon Ung**

Lee, Chang-Yeong *see* **Ainsworth, Mark; et al., 93m:49015**

Léger, A. *see* **Andrieux, Stéphane, 93m:73033**

Le Tallec, Patrick (*with* Mani, S.; Rochinha, F. A.) Finite element computation of hyperelastic rods in large displacements. (English and French summaries) **93f:65084**

Leung, A. Y. T. Nonlinear modal analysis of frames by the incremental harmonic-balance method. **93c:73066**

Li, Bing Kun *see* **Sun, Jia Chang, (93d:65004)**

Li, Y.-F. *see* **Nemat-Nasser, Sia, 93f:73110** *and* **93k:73085**

Li, Zhi Ping Globally 1-1 solutions and finite element method for elastic-contact problems in nonlinear elasticity. **93h:73034**

Lin, J. *see* **Shih, H.-R.; et al., (93b:65002)**

Liolios, A. A direct derivation of dual extremum principles in dynamic anisotropic coupled thermoelasticity. (Bulgarian summary) **93a:73009**

Liu, Zhong Sheng *see* **Chen, Su Huan; et al., 93m:73021**

Lo, Sai-Huen On bandsolver using skyline storage. (English summary)

Lods, Véronique Formulation mixte d'un problème de jonctions de poutres adaptée à la résolution d'un problème d'optimisation. (English summary) [A mixed formulation for a model of junctions of beams adapted to the solution of an optimization problem] **93g:73095**

MacCamy, Richard C. *see* **Zeng, Xiaogang; et al., 93d:76041**

Mackerle, Jaroslav Finite and boundary elements and supercomputing—a bibliography (1989–1991). (English summary)

— *see also* **Zhong, Zhi-Hua, 93f:73096**

Mahan, J. R. *see* **Fronk, T. H., (93b:65002)**

Mani, S. *see* **Le Tallec, Patrick; et al., 93f:65084**

Massicotte, B. *see* **Fafard, M., 93m:73040**

Mato Eiroa, P. *see* **Bernadou, M.; et al., 93c:65140**

Natke, H. G. Error localization within spatially finite-dimensional mathematical models. A review of methods and the application of regularization techniques. (English summary) **93f:73084**

Neittaanmäki, Pekka *see* **Haslinger, Jaroslav; et al., 93j:73058**

Nemat-Nasser, Sia (*with* Li, Y.-F.) A new explicit algorithm for finite-deformation elastoplasticity and elastoviscoplasticity: performance evaluation. (English summary) **93f:73110**

— (*with* Li, Y.-F.) Errata: "A new explicit algorithm for finite-deformation elastoplasticity and elastoviscoplasticity: performance evaluation" [Comput. & Structures **44** (1992), no. 5, 937–963; MR 93f:73110]. **93k:73085**

Oden, J. Tinsley *see* **Ainsworth, Mark; et al., 93m:49015**

Ordieres Meré, J. B. *see* **Alvarez Vigil, A. E.; et al., 93g:73093**

Pepper, Darrell W. (*with* Heinrich, Juan C.) ★ The finite element method. **93f:65001**

Pitkäranta, Juhani The problem of membrane locking in finite element analysis of cylindrical shells. **93b:65178**

Prasad, N. N. V. *see* **Gerstle, W. H.; et al., (93b:65002)**

Quarteroni, Alfio (*with* Zampieri, Elena) Finite element preconditioning for Legendre spectral collocation approximations to elliptic equations and systems. **93c:65146**

Rank, E. Adaptivity and accuracy estimation for FEM and BIEM. (*see* 93m:65005)

Rifai, M. S. *see* **Simo, Juan C.; et al., 93e:73027**

Rivkin, Leonid *see* **Givoli, Dan; et al., 93f:65081**

Rochinha, F. A. *see* **Le Tallec, Patrick; et al., 93f:65084**

Rodríguez, Rodolfo *see* **Babuška, Ivo M., 93k:65089**

Rubio, J. E. *see* **Butt, R., 93d:73051**

Salmenjoki, K. *see* **Haslinger, Jaroslav; et al., 93j:73058**

Sánchez-Palencia, Enrique *see* **Akian, Jean-Luc, 93g:73086**

Sandri, D. *see* **Baranger, Jacques, 93a:73051**

Sansour, Carlo (*with* Bufler, Hans) An exact finite rotation shell theory, its mixed variational formulation and its finite element implementation. **93c:73071**

Schulkes, R. M. S. M. Interactions of an elastic solid with a viscous fluid: eigenmode analysis. **93d:73057**

Schwarz, Hans-Rudolf ★ Methode der finiten Elemente. (German) [The finite element method] **93e:65002**

She, Ying He *see* **Guo, Xiao Ming, 93k:73032**

Shi, Zhong Ci (*with* Chen, Shao Chun) Convergence of a nine-parameter generalized conforming element. **93b:65179**

Shih, H.-R. (*with* Duffield, R. C.; Lin, J.) Boundary-finite element model for eccentrically stiffened plates under transverse loading. (English summary) (*see* 93b:65002)

Simo, Juan C. Algorithms for static and dynamic multiplicative plasticity that preserve the classical return mapping schemes of the infinitesimal theory. (English summary) **93f:73056**

— (*with* Rifai, M. S.; Fox, D. D.) On a stress resultant geometrically exact shell model. VI. Conserving algorithms for nonlinear dynamics. **93e:73027**

— (*with* Tarnow, N.) The discrete energy-momentum method. Conserving algorithms for nonlinear elastodynamics. (English summary) **93g:73118**

Stephan, E. P. Coupling of finite elements and boundary elements for some nonlinear interface problems. (English summary) **93j:73019**

Sun, Jia Chang (*with* Li, Bing Kun) Parallel multilevel B-spline preconditioners for the biharmonic problem. (English summary) (*see* 93d:65004)

Suri, Manil *see* **Babuška, Ivo M., 93i:65108** *and* **(93d:65005)**

Szabo, Barna A. (*with* Babuška, Ivo M.) ★ Finite element analysis. **93f:73001**

Tarnow, N. *see* **Simo, Juan C., 93g:73118**

Teniou, D. Approximation dans un problème de viscoélasticité périodique. (English summary) [Approximation in a periodic viscoelasticity problem] **93j:73038**

Trangenstein, John A. A comparison of two numerical methods for shocks in one-dimensional elastic-plastic solids. **93f:73049**

Trouvé, Pascal *see* **Bernadou, M.; et al., 93c:65140**

Uzcan, N. *see* **Akõz, A. Y., 93f:73057**

Voss, Heinrich Free vibration analysis by finite dynamic element methods. (*see* 93b:65007)

Wang, Lie Heng A mathematical model of coupled plates and its finite element method. (English summary) **93g:73080**

— Mathematical model of coupled plates meeting at an angle $0 < \theta < \pi$ and its finite element method. (English summary) **93h:73025**

Wempner, Gerald The complementary potentials of elasticity, extremal properties, and associated functionals. **93g:73116**

Wu, Chang Chun *see* **Jiao, Zhao Ping; et al.**

Wu, Xiao Nan *see* **Han, Hou De, (93d:65004)**

Xie, M. *see* **Gerstle, W. H.; et al., (93b:65002)**

Xing, Jing Tang (*with* Zheng, Zhao Chang) Some general theorems and generalized and piecewise generalized variational principles for linear elastodynamics. (Chinese. English and Chinese summaries) **93k:73018**

Xu, Tao *see* **Chen, Su Huan; et al., 93m:73021**

Yuan, Yi Rang (*with* Zhou, Guo Hui) Curved finite elements for the problem of embedding a plate on an elastic foundation. (Chinese. Chinese summary) **93j:73049**

Zampieri, Elena *see* **Quarteroni, Alfio, 93c:65146**

Zeng, Xiaogang (*with* Bielak, Jacobo; MacCamy, Richard C.) Unified symmetric finite element and boundary integral variational coupling methods for linear fluid-structure interaction. (English summary) **93d:76041**

— (*with* Kallivokas, L. F.; Bielak, Jacobo) A symmetric variational finite element–boundary integral equation coupling method. (English summary) **93k:73087**

Zhang, Ru Qing Elastic dynamics variational principle for nonlinear elastic body. (Chinese. English summary) **93d:73072**

— *see also* **Hu, Ning**

Zhang, Zhimin Arch beam models: finite element analysis and superconvergence. **93b:65180**

Zheng, Zhao Chang *see* **Xing, Jing Tang, 93k:73018**

Zhong, Zhi-Hua (*with* Mackerle, Jaroslav) Static contact problems—a review. (English summary) **93f:73096**

Zhou, Guo Hui *see* **Yuan, Yi Rang, 93j:73049**

Items listed otherwise than by author

Adaptive finite and boundary element methods ★ Adaptive finite and boundary element methods. **93m:65005**

73V10 Boundary element methods

Atluri, S. N. *see* **Chien, C. C.; et al., 93f:73108**

de Barcellos, C. S. (*with* Westphal, T., Jr.) Reissner/Mindlin's plate models and the boundary element method. (English summary) (*see* 93b:65002)

Bialecki, Ryszard (*with* Dallner, Rudolf; Kuhn, Günther) New application of hypersingular equations in the boundary element method. (English summary) **93m:73038**

Brebbia, C. A. (*with* Domínguez, José) ★ Boundary elements: an introductory course. **93d:73069**

Cen, Zhang Zhi (*with* Maier, Giulio; Tagliaferri, R.) Stability and its criteria analysis by boundary element method using cohesive-crack model. (*see* 93b:65008)

— *see also* **Du, Qing Hua; et al., (93b:65008)**

Chen, Ji Yin *see* **Shen, Guang Xian; et al., (93b:65008)**

Chen, Su Huan *see* **Liu, Han Bing, (93b:65008)**

Chen, Yun Min *see* **Feng, Wei; et al., (93b:65008)**
Cheng, A. H.-D. (*with* Cui, L.) Green's function for axisymmetric poroelasticity and coupled thermoelasticity. (English summary) (*see* **93b:65002**)
Chien, C. C. (*with* Rajiyah, H.; Atluri, S. N.) On the evaluation of hyper-singular integrals arising in the boundary element method for linear elasticity. (English summary) **93f:73108**
Chiu, Yu Tsung *see* **Wu, Kuang Chong; et al., 93c:73100**
Cui, L. *see* **Cheng, A. H.-D., (93b:65002)**
Dai, C. *see* **Meek, J. L.**
Dallner, Rudolf *see* **Bialecki, Ryszard; et al., 93m:73038**
Das, Shuvra *see* **Mitra, Ambar K., (93b:65002)**
Ding, Hong Li (*with* Zhou, Xue Sheng; Tian, Feng; Wu, Ze Zhong) Application of linear element boundary element method in elastic axisymmetric contact problems. (*see* **93b:65008**)
Domínguez, José *see* **Brebbia, C. A., 93d:73069**
Du, Qing Hua (*with* Yao, Zhen Han; Cen, Zhang Zhi) Eigenproblems by boundary element method using component mode synthesis. (*see* **93b:65008**)
— *see also* **Huo, Tong Ru; et al., (93b:65008)**
Duffield, R. C. *see* **Shih, H.-R.; et al., (93b:65002)**
Feng, Wei (*with* Chen, Yun Min; Wu, Shi Ming) Bump response of an elastic half-space by time-domain BEM. (*see* **93b:65008**)
Fronk, T. H. (*with* Mahan, J. R.) Fully-coupled fluid-structure formulation of a baffled rectangular orthotropic plate using the boundary element and finite element methods. (English summary) (*see* **93b:65002**)
Gao, De Ping (*with* Wen, Wei Dong) A numerical integration approach for the integrals with singularity $1/r^2$ in 3-D elastoplastic BEM. (*see* **93b:65008**)
— *see also* **Wen, Wei Dong, (93b:65008)**
Gerstle, W. H. (*with* Prasad, N. N. V.; Xie, M.) Solution method for coupled elastostatic BEM and FEM domains. (English summary) (*see* **93b:65002**)
Gigante, A. *see* **Guiggiani, M., 93b:73037**
Guiggiani, M. (*with* Gigante, A.) A general algorithm for multidimensional Cauchy principal value integrals in the boundary element method. **93b:73037**
— (*with* Krishnasamy, G.; Rudolphi, T. J.; Rizzo, F. J.) A general algorithm for the numerical solution of hypersingular boundary integral equations. (English summary) **93f:73109**
Hirata, H. *see* **Matsumoto, T.; et al., (93b:65008)**
Huang, Mao Guang (*with* Wang, Jian Guo; Lu, Pin) Boundary element methods for some moderately thick plate and shallow shell problems. (*see* **93b:65008**)
— *see also* **Wang, Jian Guo, (93b:65008)** *and* **Lu, Pin, (93b:65008)**
Huo, Tong Ru (*with* Du, Qing Hua; Yao, Zhen Han) Shape optimal design by boundary element method and recursive quadratic programming. (*see* **93b:65008**)
Hwu, Zhong Her *see* **Wu, Kuang Chong; et al., 93c:73100**
Ingber, Marc S. *see* **Mitra, Ambar K., 93m:73039**
Ji, Xing *see* **Zheng, Guo Ying, (93b:65008)**
Jiang, Tong (*with* Wang, Wei[2]; Sun, Zu Zhi) The BEM for the multi-body contact problem with friction and its application to the calculation of the rolling wheel. (*see* **93b:65008**)
Jin, Feng *see* **Zhang, Chu Han; et al., (93b:65008)**
Kitahara, M. Boundary element methods for multi-defects characterizations. (*see* **93b:65008**)
Kong, Yuan Bo Combining photoelasticity and BEM for stress analysis. (English summary) (*see* **93b:65002**)
Krishnasamy, G. *see* **Guiggiani, M.; et al., 93f:73109**
Kuhn, Günther *see* **Bialecki, Ryszard; et al., 93m:73038**
Li, Zeng Fu (*with* Zheng, Zhi Hui) Boundary element analysis for the theory of bending elastic plates with three generalized displacements. (*see* **93b:65008**)
Li, Zhong Kui Elimination of the singularity of the fundamental solution in infinite space of transversely isotropic material. (*see* **93b:65008**)
Liao, He Shan (*with* Xu, Zhi Xin) A method for direct evaluation of singular integral in direct boundary element method. (English summary) **93g:73111**
Lin, J. *see* **Shih, H.-R.; et al., (93b:65002)**
Lin, Jia Keng *see* **Wang, Lin Jiang, (93b:65008)**
Liu, Han Bing (*with* Chen, Su Huan) Shape design-sensitivity analysis for structural dynamic character using BEM. (*see* **93b:65008**)
Lou, Zhi Wen (*with* Zhang, Ming) Elastoplastic boundary element analysis of two-dimensional bimaterial. (*see* **93b:65008**)
Lu, Pin (*with* Huang, Mao Guang) Boundary element analysis of shallow shells involving shear deformation. (*see* **93b:65008**)
— *see also* **Huang, Mao Guang; et al., (93b:65008)**
Mahan, J. R. *see* **Fronk, T. H., (93b:65002)**
Maier, Giulio *see* **Sirtori, S.; et al., 93d:73070** *and* **Cen, Zhang Zhi; et al., (93b:65008)**
Markechová, I. *see* **Sládek, V.; et al., 93k:73083**
Matsumoto, T. (*with* Tanaka, Masataka; Hirata, H.) Boundary stress calculation using regularized boundary integral equation for displacement gradients. (*see* **93b:65008**)
Meek, J. L. (*with* Dai, C.) The integration of the Melan solution over a line segment—implementation for boundary element modelling of surface excavations. (English summary)
Miccoli, S. *see* **Sirtori, S.; et al., 93d:73070**
Mironov, M. V. Application of boundary local functions in elasticity theory. (Russian) (*see* **93k:73001**)
Mitra, Ambar K. (*with* Das, Shuvra) Solution of inverse problems by using the boundary element method. (English summary) (*see* **93b:65002**)
— (*with* Ingber, Marc S.) A multiple-node method to resolve the difficulties in the boundary integral equation method caused by corners and discontinuous boundary conditions. (English summary) **93m:73039**
Muci-Küchler, K. H. (*with* Rudolphi, T. J.) Application of tangent derivative boundary integral equations to the solution of elastostatic problems. (English summary) (*see* **93b:65002**)
Novati, G. *see* **Sirtori, S.; et al., 93d:73070**
Pekau, O. A. *see* **Zhang, Chu Han; et al., (93b:65008)**
Prasad, N. N. V. *see* **Gerstle, W. H.; et al., (93b:65002)**
Qiao, Run De *see* **Wang, You Cheng; et al., (93b:65008)**
Rajiyah, H. *see* **Chien, C. C.; et al., 93f:73108**
Rizzo, F. J. *see* **Guiggiani, M.; et al., 93f:73109**
Rudolphi, T. J. *see* **Guiggiani, M.; et al., 93f:73109** *and* **Muci-Küchler, K. H., (93b:65002)**
Shen, Guang Xian (*with* Chen, Ji Yin; Xiao, Hong) The boundary element method to contact problems in 3-D elasticity with friction. (*see* **93b:65008**)
Shih, H.-R. (*with* Duffield, R. C.; Lin, J.) Boundary-finite element model for eccentrically stiffened plates under transverse loading. (English summary) (*see* **93b:65002**)
Sirtori, S. (*with* Maier, Giulio; Novati, G.; Miccoli, S.) A Galerkin symmetric boundary-element method in elasticity: formulation and implementation. **93d:73070**
Sládek, J. *see* **Sládek, V.; et al., 93k:73083**
Sládek, V. (*with* Sládek, J.; Markechová, I.) An advanced boundary element method for elasticity problems in nonhomogeneous media. (English summary) **93k:73083**
Song, Shun Cheng The boundary expanding-contracting principle. (Chinese. English summary) **93a:73084**
Sun, Bing Nan (*with* Tang, Jin Chun; Xiang, Yu Yin) A new off-boundary element method for plate bending. (*see* **93b:65008**)
Sun, Huan Chun (*with* Yao, Wei An; Zhao, Jin Cheng) A quasi-static virtual boundary element method for dynamic bending problems of thin plate. (*see* **93b:65008**)
Sun, Shu Xun *see* **Wang, Qing; et al., (93b:65008)**
Sun, Zu Zhi *see* **Jiang, Tong; et al., (93b:65008)**
Tagliaferri, R. *see* **Cen, Zhang Zhi; et al., (93b:65008)**
Takemiya, Hirokazu *see* **Wang, Canyun, 93a:73085**
Tan, Jun Yu Boundary element analysis of general elastic plane problem. (English summary) (*see* **93d:65004**)
Tanaka, Masataka *see* **Matsumoto, T.; et al., (93b:65008)**
Tang, Jin Chun *see* **Sun, Bing Nan; et al., (93b:65008)**
Tereshchenko, V. Ya. An algorithm for the realization of and error estimates for the variational method of boundary elements in problems of elasticity theory. (Russian. Russian summary) **93j:73072**
Tian, Feng *see* **Ding, Hong Li; et al., (93b:65008)**
Tian, Zong Ruo A solution for stress and displacement fields of orthotropic plates with crack by BEM. (*see* **93b:65008**)
Wang, Canyun (*with* Takemiya, Hirokazu) Analytical elements of time domain BEM for two-dimensional scalar wave problems. **93a:73085**
Wang, Hong A boundary element method for plate-bending problems and its asymptotic error estimates. (English summary) (*see* **93b:65002**)
Wang, Jian Guo (*with* Huang, Mao Guang) A boundary integral equation formulation for Hoff's sandwich plates. (*see* **93b:65008**)
— *see also* **Huang, Mao Guang; et al., (93b:65008)**
Wang, Jun Shu *see* **Yang, Gang; et al., (93b:65008)**
Wang, Lin Jiang (*with* Lin, Jia Keng) Using complex series and boundary collocation method calculate elastic plane problem. (*see* **93b:65008**)
Wang, Qing (*with* Sun, Shu Xun; Zhang, Fang Chun) A new approach to the plate bending analysis by BEM. (*see* **93b:65008**)
Wang, Wei[2] *see* **Jiang, Tong; et al., (93b:65008)**
Wang, You Cheng (*with* Qiao, Run De; Zhu, Hong Bin) Particular solutions method adjusted by singularity for calculating boundary stress. (*see* **93b:65008**)
Wen, Wei Dong (*with* Gao, De Ping) Stochastic boundary element method and the numerical analysis of reliability of structural strength. (*see* **93b:65008**)
— *see also* **Gao, De Ping, (93b:65008)**
Westphal, T., Jr. *see* **de Barcellos, C. S., (93b:65002)**
Wu, Kuang Chong (*with* Chiu, Yu Tsung; Hwu, Zhong Her) A new boundary integral equation formulation for linear elastic solids. (English summary) **93c:73100**
Wu, Shi Ming *see* **Feng, Wei; et al., (93b:65008)**
Wu, Ze Zhong *see* **Ding, Hong Li; et al., (93b:65008)**
Xiang, Yu Yin *see* **Sun, Bing Nan; et al., (93b:65008)**
Xiao, Hong *see* **Shen, Guang Xian; et al., (93b:65008)**
Xie, M. *see* **Gerstle, W. H.; et al., (93b:65002)**
Xu, Zhi Xin *see* **Liao, He Shan, 93g:73111**
Yang, Gang (*with* Zhang, Ai Feng; Wang, Jun Shu) The composite boundary element method of the elastostatics. (*see* **93b:65008**)
Yao, Wei An *see* **Sun, Huan Chun; et al., (93b:65008)**
Yao, Zhen Han *see* **Du, Qing Hua; et al., (93b:65008)** *and* **Huo, Tong Ru; et al., (93b:65008)**
Ye, Tian Qi *see* **Zheng, Xiao Ping, (93b:65008)**
Zhang, Ai Feng *see* **Yang, Gang; et al., (93b:65008)**
Zhang, Chu Han (*with* Jin, Feng; Pekau, O. A.) An infinite boundary element for 2-D dynamic wave problems. (*see* **93b:65008**)
Zhang, Fang Chun *see* **Wang, Qing; et al., (93b:65008)**
Zhang, J. D. A boundary integral equation approach for the calculation of gradients and higher order derivatives in solid mechanics problems. (English summary) **93d:73071**
Zhang, Ming *see* **Lou, Zhi Wen, (93b:65008)**
Zhao, Jin Cheng *see* **Sun, Huan Chun; et al., (93b:65008)**
Zheng, Guo Ying (*with* Ji, Xing) A new approach to BEM of elastic plate. (*see* **93b:65008**)
Zheng, Xiao Ping (*with* Ye, Tian Qi) *p*-version Trefftz boundary element method for plate bending problems. (*see* **93b:65008**)
Zheng, Zhi Hui *see* **Li, Zeng Fu, (93b:65008)**
Zhou, Xue Sheng *see* **Ding, Hong Li; et al., (93b:65008)**
Zhu, Hong Bin *see* **Wang, You Cheng; et al., (93b:65008)**

Items with secondary classifications in 73V10

Achenbach, J. D. *see* **Wang, Canyun, 93j:73022**
(Aliabadi, M. Hosseini) *see* **Adaptive finite and boundary element methods, 93m:65005**
Aoki, K. *see* **Tanaka, Masataka; et al., (93b:65008)**
Assaf, M. A. (*with* Jentsch, Lothar) On the elasticity theory of microporous solids. (English, German and Russian summaries) **93k:73009**
Becache, E. A variational boundary integral equation method for an elastodynamic antiplane crack. (English summary)
Bielak, Jacobo *see* **Zeng, Xiaogang; et al., 93d:76041** *and* **93k:73087**

(Brebbia, C. A.) *see* **Boundary element technology, 93b:65002** *and* **Adaptive finite and boundary element methods, 93m:65005**

Bui, H. D. On the variational boundary integral equations in elastodynamics with the use of conjugate functions. (English summary) **93g:73045**

Carini, A. (*with* Diligenti, M.; Maier, Giulio) Boundary integral equation analysis in linear viscoelasticity: variational and saddle point formulations. (English summary) **93g:73062**

Carvalho, J. L. (*with* Curran, J. H.) Two-dimensional Green's functions for elastic bi-materials. (English summary) **93e:73008**

Chen, Goong (*with* Zhou, Jian-Xin) ★ Boundary element methods. **93e:65143**

Cormack, Donald E. *see* **Rosen, Dan, 93m:65163**

Cruse, T. A. (*with* Suwito, W.) On the Somigliana stress identity in elasticity. (English summary) **93i:73010**

Curran, J. H. *see* **Carvalho, J. L., 93e:73008**

Demkowicz, Leszek (*with* Karafiat, A.; Oden, J. Tinsley) Solution of elastic scattering problems in linear acoustics using *h-p* boundary element method. (English summary) **93j:73028**

Diligenti, M. *see* **Carini, A.; et al., 93g:73062**

(Du, Qing Hua) *see* **Theory and applications of boundary element methods, 93b:65008**

Feng, Zhen Xing (*with* Liu, Yu Qi) An unified treatment of the singular integrals in BEM model for 3-D elastoplastic crack analysis. (*see* **93b:65008**)

Gramann, P. J. (*with* Mätzig, J. C.; Osswald, T. A.) Boundary element simulation of the mixing process of polymer blends. (English summary) (*see* **93b:65002**)

Han, Hou De A boundary element method for Signorini problems in three dimensions. **93a:65166**

Holzer, Siegfried M. How to deal with hypersingular integrals in the symmetric BEM. (English summary) **93j:65195**

(Ingber, Marc S.) *see* **Boundary element technology, 93b:65002**

Jentsch, Lothar Zur klassischen Kontaktaufgabe der Elastostatik. (English and Russian summaries) [On the classical contact problem of elastostatics] **93f:73094**

— *see also* **Assaf, M. A., 93k:73009**

Ji, Xing *see* **Zheng, Guo Ying**

Jiang, Tong *see* **Pan, Gu Ning; et al., (93b:65008)**

Kallivokas, L. F. *see* **Zeng, Xiaogang; et al., 93k:73087**

Karafiat, A. *see* **Demkowicz, Leszek; et al., 93j:73028**

Krishnasamy, G. (*with* Rizzo, F. J.; Rudolphi, T. J.) Continuity requirements for density functions in the boundary integral equation method. (English summary) **93k:73089**

Liu, Yu Qi *see* **Feng, Zhen Xing, (93b:65008)**

Liu, Zu De *see* **Pan, Gu Ning; et al., (93b:65008)**

Lu, Wen Da *see* **Yang, Zheng Wen, (93b:65008)**

MacCamy, Richard C. *see* **Zeng, Xiaogang; et al., 93d:76041**

Mackerle, Jaroslav Finite and boundary elements and supercomputing—a bibliography (1989–1991). (English summary)

Maier, Giulio *see* **Carini, A.; et al., 93g:73062**

Mätzig, J. C. *see* **Gramann, P. J.; et al., (93b:65002)**

Nakamura, M. *see* **Tanaka, Masataka; et al., (93b:65008)**

Oden, J. Tinsley *see* **Demkowicz, Leszek; et al., 93j:73028**

Osswald, T. A. *see* **Gramann, P. J.; et al., (93b:65002)**

Pan, Gu Ning (*with* Liu, Zu De; Jiang, Tong) Analysis of piles in layered soils by the coupling method of FEM-BEM. (*see* **93b:65008**)

Rank, E. Adaptivity and accuracy estimation for FEM and BIEM. (*see* **93m:65005**)

Rizzo, F. J. *see* **Krishnasamy, G.; et al., 93k:73089**

Rosen, Dan (*with* Cormack, Donald E.) Singular and near singular integrals in the BEM: a global approach. (English summary) **93m:65163**

Rudolphi, T. J. *see* **Krishnasamy, G.; et al., 93k:73089**

Stephan, E. P. Coupling of finite elements and boundary elements for some nonlinear interface problems. (English summary) **93j:73019**

Suwito, W. *see* **Cruse, T. A., 93i:73010**

Tanaka, Masataka (*with* Nakamura, M.; Aoki, K.) A study on computational accuracy of the Laplace transform BEM for transient elastodynamic problems. (*see* **93b:65008**)

— *see also* **Theory and applications of boundary element methods, 93b:65008**

Wang, Canyun (*with* Achenbach, J. D.) A new look at 2-D time-domain elastodynamic Green's functions for general anisotropic solids. (English summary) **93j:73022**

Yang, Zheng Wen (*with* Lu, Wen Da) Analysis of dynamic interaction between soil and cooling tower by hybrid method. (*see* **93b:65008**)

Zeng, Xiaogang (*with* Bielak, Jacobo; MacCamy, Richard C.) Unified symmetric finite element and boundary integral variational coupling methods for linear fluid-structure interaction. (English summary) **93d:76041**

— (*with* Kallivokas, L. F.; Bielak, Jacobo) A symmetric variational finite element–boundary integral equation coupling method. (English summary) **93k:73087**

Zheng, Guo Ying (*with* Ji, Xing) An elaboration of integral equations of a new boundary element method for thin elastic shells. (Chinese. English and Chinese summaries)

Zhou, Jian-Xin *see* **Chen, Goong, 93e:65143**

Items listed otherwise than by author

Adaptive finite and boundary element methods ★ Adaptive finite and boundary element methods. **93m:65005**

Albuquerque, NM ★ Boundary element technology. VII. **93b:65002**

Beijing ★ Theory and applications of boundary element methods. **93b:65008**

Boundary element technology ★ Boundary element technology. VII. **93b:65002**

Conference:

Boundary Element Technology ★ Boundary element technology. VII. **93b:65002**

Symposium:

Boundary Element Methods ★ Theory and applications of boundary element methods. **93b:65008**

Theory and applications of boundary element methods ★ Theory and applications of boundary element methods. **93b:65008**

73V15 Finite difference methods

Dzyuba, I. A. Difference schemes of the multicomponent method of variable directions for the solution of problems in elasticity theory. (Russian) **93b:73038**

Mel'nik, V. N. Investigation of a difference scheme for a coupled problem of dynamic electroelasticity in classes of generalized solutions. (Russian. Russian summary) **93h:73043**

Silling, S. A. Stability and accuracy of differencing methods for viscoplastic models in wavecodes. (English summary) **93g:73112**

Items with secondary classifications in 73V15

Abrashin, V. N. (*with* Dzyuba, I. A.; Kamenskaya, N. E.) Efficient methods for solving multidimensional thermoelasticity problems. (Russian. Russian summary) **93j:65208**

Adey, R. A. *see* **Zhao, Zhiye, 93f:73076**

Aleksandrova, N. I. Approximation of boundary conditions in problems of hydroelasticity. (Russian. English summary) **93c:73076**

Alessandrini, B. (*with* Raganelli, V.) The propagation of acoustic and elastic waves in an heterogeneous discrete medium. (English summary) **93e:73014**

Behravesh, A. (*with* Davaran, A.; Kaveh, A.) A finite difference scheme with variable rectilinear mesh for solving multi-harmonic partial differential equations. (English summary) **93f:65063**

Belov, N. N. (*with* Demidov, V. N.; Efremova, L. V.; et al.) Computer modeling of the dynamics of high-velocity impact and of the accompanying physical phenomena. (Russian. Russian summary) **93k:73023**

Belytschko, Ted (*with* Lu, Y. Y.) Stability analysis of elemental explicit-implicit partitions by Fourier methods. **93a:73077**

Brenner, Susanne C. A nonconforming mixed multigrid method for the pure displacement problem in planar linear elasticity. (English summary) **93m:65166**

Davaran, A. *see* **Behravesh, A.; et al., 93f:65063**

Deineka, V. S. *see* **Skopetskii, V. V.; et al., 93d:73068**

Demidov, V. N. *see* **Belov, N. N.; et al., 93k:73023**

Dzyuba, I. A. *see* **Abrashin, V. N.; et al., 93j:65208**

Efremova, L. V. *see* **Belov, N. N.; et al., 93k:73023**

Evzerov, I. D. An approximate scheme for a coupled problem of thermoelastoviscoplasticity. (Russian. Russian summary) **93h:73019**

Gulidov, A. I. Organization of the computation process and the data structure in the numerical solution of dynamic problems of the mechanics of deformable media. (Russian) **93f:73111**

Hadouaj, H. (*with* Maugin, Gérard A.) Surface solitons on elastic surfaces: numerics. (English summary) **93g:73040**

Kamel, Aladin H. *see* **Sguazzero, P.; et al., (93d:65005)**

Kamenskaya, N. E. *see* **Abrashin, V. N.; et al., 93j:65208**

Kaveh, A. *see* **Behravesh, A.; et al., 93f:65063**

Khakimov, M. *see* **Rozenfel'd, G. O., (93a:00020)**

Kindelan, M. *see* **Sguazzero, P.; et al., (93d:65005)**

Kooi, B. W. On the mechanics of the modern working-recurve bow. (English summary) **93f:73083**

Krishna, Lala *see* **Padovan, Joe; et al., 93m:73037**

Lu, Y. Y. *see* **Belytschko, Ted, 93a:73077**

Marchenko, O. A. *see* **Skopetskii, V. V.; et al., 93d:73068**

Maugin, Gérard A. *see* **Hadouaj, H., 93g:73040**

Mayo, Anita A. (*with* Peskin, Charles S.) An implicit numerical method for fluid dynamics problems with immersed elastic boundaries. (English summary) **93k:76132**

Mel'nik, V. N. (*with* Moskal'kov, M. N.) Difference schemes and the analysis of approximate solutions for two-dimensional nonstationary problems of coupled electro-elasticity. (Russian) **93a:65115**

— On the exactness of a difference scheme for solving a nonstationary problem of coupled thermoelasticity in stresses. (Russian. Russian summary) **93f:65064**

Milner, Fabio A. Numerical method for a model of inhomogeneous muscle fibers. (English summary) **93k:92005**

Moskal'kov, M. N. *see* **Mel'nik, V. N., 93a:65115**

Naval, I. K. (*with* Patsyuk, V. I.; Rimskii, V. K.) The stress state of a multiply connected plate under a longitudinal impulse load. (Russian. English and Moldavian summaries) **93c:73063**

Padovan, Joe (*with* Sansgiri, Sanjiv M.; Krishna, Lala) Multiply gauged, mixed, progressively direct gradient based iterative solvers. (English summary) **93m:73037**

Patsyuk, V. I. *see* **Naval, I. K.; et al., 93c:73063**

Pember, Richard B. *see* **Trangenstein, John A., 93g:73060**

Peskin, Charles S. *see* **Mayo, Anita A., 93k:76132**

Raganelli, V. *see* **Alessandrini, B., 93e:73014**

Rimskii, V. K. *see* **Naval, I. K.; et al., 93c:73063**

Rozenfel'd, G. O. (*with* Khakimov, M.) A conveyer method for solving two-dimensional problems of thermoelasticity. (Russian) (*see* **93a:00020**)

Sansgiri, Sanjiv M. *see* **Padovan, Joe; et al., 93m:73037**

Sguazzero, P. (*with* Kindelan, M.; Kamel, Aladin H.) Dispersion-bounded numerical integration of the elastodynamic equations with cost-effective staggered schemes. (English summary) (*see* **93d:65005**)

Skopetskii, V. V. (*with* Deineka, V. S.; Marchenko, O. A.) Discretization of a dynamic problem in the theory of elasticity that admits a discontinuity in the solution. (Russian) **93d:73068**

Smolinski, Patrick Stability analysis of a multi-time step explicit integration method. **93c:73095**

Trangenstein, John A. A comparison of two numerical methods for shocks in one-dimensional elastic-plastic solids. **93f:73049**

— (*with* Pember, Richard B.) Numerical algorithms for strong discontinuities in elastic-plastic solids. (English summary) **93g:73060**

Zhao, Zhiye (*with* Adey, R. A.) An alternative approach to shape design sensitivity analysis. (English summary) **93f:73076**

73V20 Other numerical methods

Abdrashitov, D. V. (*with* Gafurov, M. B.) Investigation of nonreflecting conditions on the boundaries of a computational domain for elastoplastic media. (Russian) (*see* **93m:00033**)

Armero, F. (*with* Simo, Juan C.) A new unconditionally stable fractional step method for nonlinear coupled thermomechanical problems. (English summary) **93c:73101**
Blandford, George E. *see* **Chen, Hong**, **93k:73084**
Chen, Hong (*with* Blandford, George E.) Work-increment-control method for nonlinear analysis. (English summary) **93k:73084**
Fafard, M. (*with* Massicotte, B.) Geometrical interpretation of the arc-length method. (English summary) **93m:73040**
Gafurov, M. B. *see* **Abdrashitov, D. V.**, (**93m:00033**)
Ivansson, Sven (*with* Karasalo, Ilkka) A high-order adaptive integration method for wave propagation in range-independent fluid-solid media. (English summary) **93g:73113**
Karasalo, Ilkka *see* **Ivansson, Sven**, **93g:73113**
Laborde, Patrick (*with* Michrafy, Abderrahim) Algorithme à "rigidité tangente" pour des problèmes d'endommagement. (English and French summaries) ["Tangent stiffness" algorithm for some damage problems] **93g:73114**
Li, Y.-F. *see* **Nemat-Nasser, Sia**, **93f:73110** *and* **93k:73085**
Massicotte, B. *see* **Fafard, M.**, **93m:73040**
Meschke, G. *see* **Simo, Juan C.**, **93k:73086**
Michrafy, Abderrahim *see* **Laborde, Patrick**, **93g:73114**
Nemat-Nasser, Sia (*with* Li, Y.-F.) A new explicit algorithm for finite-deformation elastoplasticity and elastoviscoplasticity: performance evaluation. (English summary) **93f:73110**
— (*with* Li, Y.-F.) Errata: "A new explicit algorithm for finite-deformation elastoplasticity and elastoviscoplasticity: performance evaluation" [Comput. & Structures **44** (1992), no. 5, 937–963; MR 93f:73110]. **93k:73085**
Simo, Juan C. (*with* Meschke, G.) A new class of algorithms for classical plasticity extended to finite strains. Application to geomaterials. (English summary) **93k:73086**
— *see also* **Armero, F.**, **93c:73101**
Tarakanov, V. I. Convergence of a method of elastic solutions in nonlinear boundary value problems of plane elasticity. (Russian) (*see* **93k:73001**)

Items with secondary classifications in 73V20

Alessandrini, B. (*with* Raganelli, V.) The propagation of acoustic and elastic waves in an heterogeneous discrete medium. (English summary) **93e:73014**
Binder, A. On the numerical treatment of bulging of continuously cast slabs. (English and German summaries)
Bischoff, Dieter Ernst *see* **Mahnken, R.**; **et al.**, **93f:73074**
Björkman, Gunnar Path following and critical points for contact problems. (English summary) **93f:73092**
Bourquin, Frédéric (*with* d'Hennezel, Frédéric) Numerical study of an intrinsic component mode synthesis method. (English summary) **93g:73082**
— (*with* d'Hennezel, Frédéric) Intrinsic component mode synthesis and plate vibrations. (English summary) **93f:73065**
Brackbill, J. U. *see* **Burgess, D.**; **et al.**, **93i:76063**
Burgess, D. (*with* Sulsky, D.; Brackbill, J. U.) Mass matrix formulation of the FLIP particle-in-cell method. (English summary) **93i:76063**
Dafalias, Y. F. *see* **Loret, Benjamin**; **et al.**
Figueiredo, Isabel M. N. (*with* Trabucho, L.) A Galerkin approximation for linear elastic shallow shells. (English summary) **93i:73034**
Ganeeva, M. S. ★ Прочность и устойчивость оболочек вращения. (Russian. English and Russian summaries) [Strength and stability of shells of revolution] **93g:73088**
Hammoum, F. *see* **Loret, Benjamin**; **et al.**
d'Hennezel, Frédéric *see* **Bourquin, Frédéric**, **93f:73065** *and* **93g:73082**
Hlaváček, Ivan (*with* Křížek, Michal) Weight minimization of elastic bodies weakly supporting tension. I. Domains with one curved side. (Czech summary) **93c:73029**
Hřebíček, Jiří (*with* Kotoul, Michal; Polcar, Pavel) Numerical analysis of dynamical postcritical behaviour of solids. (*see* **93b:65007**)
Kalker, J. J. ★ Three-dimensional elastic bodies in rolling contact. **93e:73037**
Kotoul, Michal *see* **Hřebíček, Jiří**; **et al.**, (**93b:65007**)
Křížek, Michal *see* **Hlaváček, Ivan**, **93c:73029**
Loret, Benjamin (*with* Hammoum, F.; Dafalias, Y. F.) Computational aspects of large elastoplastic deformations in the presence of anisotropy and plastic spin. (English summary)
Mahnken, R. (*with* Stein, Erwin; Bischoff, Dieter Ernst) A stabilization procedure by line-search computation for first order approximation strategies in structural optimization. (English summary) **93f:73074**
Mashkov, A. V. On the use of the Newton-Kantorovich method for solving problems in the nonlinear theory of the elasticity of elastomers. (Russian) (*see* **93k:73001**)
McQueen, David M. *see* **Peskin, Charles S.**, **93k:76133**
Mihăilescu-Suliciu, M. (*with* Suliciu, I.) On the method of characteristics in rate-type viscoelasticity with nonmonotone equilibrium curve. (English, German and Russian summaries) **93j:73036**
Nayroles, Bernard (*with* Touzot, Gilbert; Villon, Pierre) Nuages de points et approximation diffuse. [Clouds of points and diffuse approximation] **93a:65156**
Peskin, Charles S. (*with* McQueen, David M.) Computational biofluid dynamics. (English summary) **93k:76133**
Polcar, Pavel *see* **Hřebíček, Jiří**; **et al.**, (**93b:65007**)
Pustovoĭt, S. P. An integral-iterative method for solving a boundary value problem for an oscillation equation on a segment of variable length. (Russian. Russian summary) (*see* **93k:00022**)
Raganelli, V. *see* **Alessandrini, B.**, **93e:73014**
Simo, Juan C. Algorithms for static and dynamic multiplicative plasticity that preserve the classical return mapping schemes of the infinitesimal theory. (English summary) **93f:73056**
Stein, Erwin *see* **Mahnken, R.**; **et al.**, **93f:73074**
Suliciu, I. *see* **Mihăilescu-Suliciu, M.**, **93j:73036**
Sulsky, D. *see* **Burgess, D.**; **et al.**, **93i:76063**
Touzot, Gilbert *see* **Nayroles, Bernard**; **et al.**, **93a:65156**
Trabucho, L. *see* **Figueiredo, Isabel M. N.**, **93i:73034**
Villon, Pierre *see* **Nayroles, Bernard**; **et al.**, **93a:65156**
Zampieri, Elena A multidomain spectral collocation solver for the elasticity problem. (English summary) (*see* **93g:65009**)
Żochowski, A. Domain sensitivity for singular elliptic problems: harmonic transformation approach. **93c:49029**

73V25 Variational methods

Bielak, Jacobo *see* **Zeng, Xiaogang**; **et al.**, **93k:73087**
Dubovik, A. V. *see* **Savula, Ya. G.**; **et al.**
Kallivokas, L. F. *see* **Zeng, Xiaogang**; **et al.**, **93k:73087**
Marotti de Sciarra, F. *see* **Romano, Giovanni**; **et al.**, **93m:73041**
Mukha, I. S. A numerical scheme for solving problems of the nonlinear deformation of solid bodies in the presence of initial displacements. (Ukrainian)
Novikov, N. A. *see* **Sporykhin, A. N.**, **93g:73115**
Pauk, N. M. *see* **Savula, Ya. G.**; **et al.**
Ponte Castañeda, P. New variational principles in plasticity and their application to composite materials. (English summary) **93j:73073**
Romano, Giovanni (*with* Rosati, Luciano; Marotti de Sciarra, F.) Variational formulations of nonlinear and nonsmooth structural problems. (English summary) **93m:73041**
Rosati, Luciano *see* **Romano, Giovanni**; **et al.**, **93m:73041**
Savula, Ya. G. (*with* Dubovik, A. V.; Pauk, N. M.) Boundary value and variational problems with a penalty for a combined model in the plane theory of elasticity. (Ukrainian)
Sporykhin, A. N. (*with* Novikov, N. A.) ★ Комбинированный подход Эйлера-Лагранжа в механике сплошной среды. (Russian) [The combined Euler-Lagrange approach in continuum mechanics] **93g:73115**
Wempner, Gerald The complementary potentials of elasticity, extremal properties, and associated functionals. **93g:73116**
Zemitis, A. A numerical solution of the inverse Signorini problem. (Russian. English, Russian and Latvian summaries) **93g:73117**
Zeng, Xiaogang (*with* Kallivokas, L. F.; Bielak, Jacobo) A symmetric variational finite element–boundary integral equation coupling method. (English summary) **93k:73087**
Zhang, Ru Qing Elastic dynamics variational principle for nonlinear elastic body. (Chinese. English summary) **93d:73072**

Items with secondary classifications in 73V25

Acerbi, Emilio (*with* Buttazzo, Giuseppe; Percivale, Danilo) A variational definition of the strain energy for an elastic string. **93c:73025**
— (*with* Percivale, Danilo) Reinforcement of plates in Hencky's plasticity. **93j:73045**
Ainsworth, Mark (*with* Oden, J. Tinsley; Lee, Chang-Yeong) Local a posteriori error estimators for variational inequalities. (English summary) **93m:49015**
Aköz, A. Y. (*with* Uzcan, N.) The new functional for Reissner plates and its application. (English summary) **93f:73057**
Alarcón, E. *see* **Beltran, F. J.**, **93e:73041**
Albert, H.-F. An extension of Hamilton's principle for dissipative continua. (English, German and Russian summaries) **93k:73002**
Andrianov, I. V. Application of Padé-approximants in perturbation methods. (English and Russian summaries) **93j:73061**
Armero, F. *see* **Simo, Juan C.**, **93a:73082**
Atanacković, Teodor M. *see* **Djukić, Djordje S.**, **93c:73060**
Baniotopoulos, C. C. A contribution to the analysis of the corner cracking problem in masonry veneer walls by means of the theory of hemivariational inequalities. (Bulgarian summary) **93e:73032**
Barbosa, Helio J. C. (*with* Hughes, Thomas J. R.) Circumventing the Babuška-Brezzi condition in mixed finite element approximations of elliptic variational inequalities. **93c:65138**
Beltran, F. J. (*with* Alarcón, E.) Accuracy estimates based on multifield variational principles. (English summary) **93e:73041**
Bérété, S. *see* **Sanchez-Hubert, J.**; **et al.**, **93i:73039**
Berlyand, L. V. (*with* Kozlov, S. M.) Asymptotics of the homogenized moduli for the elastic chess-board composite. **93h:73003**
Björkman, Gunnar *see* **Klarbring, Anders**, **93a:73073**
Bock, Igor (*with* Lovíšek, Ján) An optimal control problem for a pseudoparabolic variational inequality. (Slovak summary) **93f:49012**
Boldin, V. P. (*with* Malanov, S. B.; Utkin, G. A.) Formulation of boundary value problems of the dynamics of two-dimensional systems with moving loads and fastenings. (Russian) **93f:73064**
Bouchitté, Guy (*with* Suquet, Pierre) Homogenization, plasticity and yield design. **93f:73008**
Bourquin, Frédéric (*with* Ciarlet, Philippe G.; Geymonat, Giuseppe; Raoult, Annie) Γ-convergence et analyse asymptotique des plaques minces. (English and French summaries) [Γ-convergence and asymptotic analysis of thin plates] **93g:73008**
Brandi, Primo (*with* Salvadori, Anna) A variational approach to problems of plastic deformation. (*see* **93j:35004**)
Brebbia, C. A. (*with* Domínguez, José) ★ Boundary elements: an introductory course. **93d:73069**
Bufler, Hans *see* **Sansour, Carlo**, **93c:73071**
Bui, H. D. On the variational boundary integral equations in elastodynamics with the use of conjugate functions. (English summary) **93g:73045**
Buriev, T. Some efficient algorithms for solving problems in nonstationary aero-elasticity. (Russian. Russian summary)
Butt, R. (*with* Rubio, J. E.) Optimal shape design for a frictionless contact problem. **93d:73051**
Buttazzo, Giuseppe Thin structures in elasticity: the variational method. (Italian summary) **93c:73056**
— *see also* **Acerbi, Emilio**; **et al.**, **93c:73025**
Carini, A. (*with* Diligenti, M.; Maier, Giulio) Boundary integral equation analysis in linear viscoelasticity: variational and saddle point formulations. (English summary) **93g:73062**
— Extremal formulations for the single finite time step analysis of elastoplastic continua. **93b:73021**

Chen, Yi-Chao *see* **MacSithigh, Gearoid P., 93g:73068** *and* **93g:73069**
Cherkaev, A. V. (*with* Gibiansky, L. V.) The exact coupled bounds for effective tensors of electrical and magnetic properties of two-component two-dimensional composites. (English summary) **93k:73006**
Chernopazov, S. A. (*with* Nyashin, Yu. I.) Variational methods for solving some contact problems of elastoplasticity. (Russian. Russian summary) (*see* **93k:00022**)
— (*with* Pechenov, V. S.) On the formulation of a contact problem taking into account the forces of friction. (Russian. Russian summary) (*see* **93m:00017**)
Chipot, Michel (*with* Rodrigues, José-Francisco) On a class of nonlocal nonlinear elliptic problems. (French summary) **93h:35070**
Choi, Kyung K. *see* **Twu, Sung-Ling, 93f:73075**
Ciarlet, Philippe G. *see* **Bourquin, Frédéric; et al., 93g:73008**
Coleman, Bernard D. (*with* Marcus, Moshe M.; Mizel, Victor J.) On the thermodynamics of periodic phases. **93d:73008**
Combescure, A. *see* **Suo, Xiao Zheng, 93j:73066**
Comi, C. (*with* Maier, Giulio; Perego, U.) Generalized variable finite element modeling and extremum theorems in stepwise holonomic elastoplasticity with internal variables. **93a:73080**
Curnier, A. *see* **Heegaard, J.-H., 93i:73049**
Dall'Asta, A. (*with* Menditto, G.) Perturbed motion of viscoelastic columns: a variational approach. (English summary) **93i:73026**
Dặng Đình Áng (*with* Schmitt, Klaus; Vy, L. K.) Variational inequalities and the contact of elastic plates. **93h:35078**
— (*with* Schmitt, Klaus; Vy, L. K.) *P*-coercive variational inequalities and unilateral problems for von Kármán's equations. (English summary) **93i:47105**
Dean, Cleon E. (*with* Werby, Michael F.) Hamilton's principle and the equations of motion of an elastic shell with and without fluid loading. (English summary) (*see* **93j:00008**)
Demkowicz, Leszek *see* **Kuczma, M. S., 93h:73033**
Destuynder, Philippe (*with* Salaun, Michel) A mixed formulation for a general shell model. (Portuguese summary) **93g:73087**
De Tommasi, Domenico One-parameter families of isochoric deformations. **93f:73028**
Diligenti, M. *see* **Carini, A.; et al., 93g:73062**
Djukić, Djordje S. (*with* Atanacković, Teodor M.) Extremum variational principle for an inextensible rotating rod. (English summary) **93c:73060**
Dobrowolski, Manfred A mixed finite element method for approximating incompressible materials. **93b:65167**
Domínguez, José *see* **Brebbia, C. A., 93d:73069**
Elgindi, M. B. M. (*with* Yen, D. H. Y.) On the existence of equilibrium states of an elastic beam on a nonlinear foundation. (English summary) **93k:73047**
Farhat, Charbel A saddle-point principle domain decomposition method for the solution of solid mechanics problems. (English summary) **93h:73038**
Fedelich, B. (*with* Zanzotto, Giovanni) Hysteresis in discrete systems of possibly interacting elements with a double-well energy. (English summary) **93g:73026**
Feljóo, Raúl A. (*with* Zouain, Néstor) Elastic-plastic potential functionals for rates and increments of stress and strain. (English and Portuguese summaries) **93f:73044**
Felippa, C. A. Parametrized variational principles for micropolar elasticity. (Spanish. English and Spanish summaries)
Ferro, Giuseppe *see* **Romano, Giovanni; et al., 93h:73029**
Figueiredo, Isabel M. N. (*with* Trabucho, L.) A Galerkin approximation for curved beams. (English summary) **93k:73048**
Fitzpatrick, Ben G. Approximation and control in integral equations of nonlinear viscoelasticity. **93d:73042**
Fonseca, Irene (*with* Parry, Gareth P.) On a class of invariant functionals. (English summary) **93i:73045**
Foriero, A. (*with* Ladanyi, B.) The use of fractional exponential creep kernels for long-term behavior of laterally loaded piles in permafrost. **93c:73087**
Fosdick, Roger (*with* MacSithigh, Gearoid P.) Minimization in nonlinear elasticity theory for bodies reinforced with inextensible cords. **93e:73012**
Fox, D. D. (*with* Simo, Juan C.) A drill rotation formulation for geometrically exact shells. (English summary) **93c:73068**
Gałka, A. (*with* Telega, Józef Joachim) The complementary energy principle as a dual problem for a specific model of geometrically nonlinear elastic shells with an independent rotation vector: general results. **93c:73069**
Gao, Hang Shan *see* **Zhang, Ru Qing, 93f:73107**
Gao, Yang *see* **Yau, Shing-Tung, 93b:73027**
Geymonat, Giuseppe *see* **Bourquin, Frédéric; et al., 93g:73008**
Gibiansky, L. V. *see* **Cherkaev, A. V., 93k:73006**
Giorgi, Claudio (*with* Marzocchi, Alfredo) Extremum principles for the quasi-static problem in linear viscoelasticity. **93f:73053**
— (*with* Marzocchi, Alfredo) A minimum principle for the quasi-static problem in linear viscoelasticity. (Italian summary) **93f:73052**
— (*with* Marzocchi, Alfredo) New variational principles in quasi-static viscoelasticity. (English summary) **93g:73064**
Gonchərenko, V. M. (*with* Rakhmanov, Kh. B.) Generalized solution of a problem that describes the oscillations of elastoplastic bodies. (Ukrainian. Russian and Ukrainian summaries) **93d:73037**
Green, W. A. (*with* Shi, Jingyu) Degenerate deformations and uniqueness in highly elastic networks. (English summary) **93g:73065**
Guo, Xiao Ming (*with* She, Ying He) Variational inequality in elastoplastic problems. (English summary) **93k:73032**
Haslinger, Jaroslav (*with* Neittaanmäki, Pekka; Salmenjoki, K.) Sensitivity analysis for discretized unilateral plane elasticity problem. (English summary) **93j:73058**
— *see also* **Panagiotopoulos, P. D., 93e:73029** *and* **93m:49007**
Heegaard, J.-H. (*with* Curnier, A.) An augmented Lagrangian method for discrete large-slip contact problems. (English summary) **93i:73049**
Hilgers, M. G. (*with* Pipkin, A. C.) The Graves condition for variational problems of arbitrary order. **93i:49025**
Hoffmann, Karl-Heinz[1] *see* **Khludnev, A. M., 93a:73072**
Hou, Jean W. (*with* Sheen, Jeenson) Numerical methods for second-order shape sensitivity analysis. **93a:65152**
Huet, C. Minimum theorems for viscoelasticity. (English summary) **93j:73034**
Hughes, Thomas J. R. *see* **Barbosa, Helio J. C., 93c:65138**
James, Richard Dana (*with* Spector, Scott J.) The formation of filamentary voids in solids. **93d:73059**
— (*with* Spector, Scott J.) Remarks on $W^{1,p}$-quasiconvexity, interpenetration of matter, and function spaces for elasticity. (French summary) **93h:73013**
Jensen, Soren S. Adaptive-dimensional reduction numerical solution of monotone quasilinear boundary value problems. (English summary) **93g:65146**
Johansson, L. (*with* Klarbring, Anders) The rigid punch problem with friction using variational inequalities and linear complementarity. (English summary) **93i:73050**
Kalker, J. J. ★ Three-dimensional elastic bodies in rolling contact. **93e:73037**
Khludnev, A. M. Extremal forms of cuts in a plate that is in contact with a rigid stamp. (Russian) (*see* **93d:35001**)
— (*with* Hoffmann, Karl-Heinz[1]) A variational inequality in a contact elastoplastic problem for a bar. **93a:73072**
Khludneva, E. Yu. A problem on the contact of an inelastic plate with a rigid stamp. (Russian. Russian summary) **93e:73038**
Kikuchi, Fumio *see* **Yamada, Takahiro; et al., 93c:73097** *and* **93i:73056**
Kinderlehrer, David Some methods of analysis in the study of microstructure. (*see* **93m:00047**)
Klarbring, Anders (*with* Mikelić, Andro; Shillor, Meir) A global existence result for the quasistatic frictional contact problem with normal compliance. **93g:73104**
— The rigid punch problem in nonlinear elasticity: formulation, variational principles and linearization. (Russian and Polish summaries) **93e:73039**
— (*with* Mikelić, Andro; Shillor, Meir) Optimal shape design in contact problems with normal compliance and friction. **93d:73054**
— (*with* Björkman, Gunnar) Solution of large displacement contact problems with friction using Newton's method for generalized equations. **93a:73073**
— (*with* Mikelić, Andro; Shillor, Meir) On the rigid punch with friction. (*see* **93k:00037**)
— *see also* **Johansson, L., 93i:73050**
Kohn, Robert V. The relaxation of a double-well energy. **93d:73014**
Kolpakov, A. G. Glued bodies. (Russian. Russian summary) **93k:73074**
Koya, Tatsuhito *see* **Mura, Toshio, 93j:73001**
Kozlov, S. M. *see* **Berlyand, L. V., 93h:73003**
Kuczma, M. S. (*with* Demkowicz, Leszek) An adaptive algorithm for unilateral viscoelastic contact problems for beams and plates. (English summary) **93h:73033**
Laborde, Patrick Numerical solution of free boundary problems in solids mechanics. (English summary) (*see* **93m:00044**)
Ladanyi, B. *see* **Foriero, A., 93c:73087**
Lee, Chang-Yeong *see* **Ainsworth, Mark; et al., 93m:49015**
Léger, A. (*with* Potier-Ferry, M.) Elastic-plastic post-buckling from a heterogeneous state. (English summary) **93m:73016**
Lei, Jin Gan (*with* Liu, Chun Lei; Ren, Yi Qiang) Finite-dimensional approximation and its computation for bifurcation problems for variational inequalities. (English summary) **93h:65082**
Le Khanh Chau *see* **Stumpf, Helmut, 93k:73043**
Leont'ev, A. N. Optimal control of the form of a stamp in a problem on strong deflections of a plate. (Russian) (*see* **93f:00017**)
Leroy, Yves M. (*with* Molinari, Alain) Spatial patterns and size effects in shear zones: a hyperelastic model with higher-order gradients. (English summary) **93k:73041**
Lewiński, Tomasz (*with* Telega, Józef Joachim) Homogenization and effective properties of plates weakened by partially penetrating fissures: asymptotic analysis. **93f:73059**
Licht, C. (*with* Thoulouze-Pratt, Elaine; Raous, M.) Remarks on a numerical method for unilateral contact including friction. **93g:73105**
Liolios, A. A direct derivation of dual extremum principles in dynamic anisotropic coupled thermoelasticity. (Bulgarian summary) **93a:73009**
Lipton, Robert *see* **Lur'e, K. A., 93b:49029**
Liu, Chun Lei *see* **Lei, Jin Gan; et al., 93h:65082**
Lovíšek, Ján *see* **Bock, Igor, 93f:49012**
Lur'e, K. A. (*with* Lipton, Robert) Direct solution of an optimal layout problem for isotropic heat conductors in three dimensions. **93b:49029**
Maceri, Aldo On the problem of contact between elastic plates. (Italian. English summary) **93a:73074**
— A nonlinear elastic obstacle problem for a clamped plate. (Italian. English summary) **93d:73065**
MacSithigh, Gearoid P. (*with* Chen, Yi-Chao) Bifurcation and stability of an incompressible elastic body under homogeneous dead loads with symmetry. I. General isotropic materials. (English summary) **93g:73068**
— (*with* Chen, Yi-Chao) Bifurcation and stability of an incompressible elastic body under homogeneous dead loads with symmetry. II. Mooney-Rivlin materials. (English summary) **93g:73069**
— *see also* **Fosdick, Roger, 93e:73012**
Maier, Giulio *see* **Comi, C.; et al., 93a:73080** *and* **Carini, A.; et al., 93g:73062**
Malanov, S. B. *see* **Boldin, V. P.; et al., 93f:73064**
Marcus, Moshe M. *see* **Coleman, Bernard D.; et al., 93d:73008**
Marzocchi, Alfredo *see* **Giorgi, Claudio, 93f:73052; 93f:73053** *and* **93g:73064**
Maugin, Gérard A. (*with* Trimarco, Carmine) Pseudomomentum and material forces in nonlinear elasticity: variational formulations and application to brittle fracture. **93f:73029**
— (*with* Trimarco, Carmine) Note on a mixed variational principle in finite elasticity. (Italian summary) **93g:73070**
Mazurov, P. A. A variational approach in the theories of filtration consolidation and two-phase filtration. (Russian) **93c:73005**
Mel'nik, V. N. On the existence and uniqueness of generalized solutions in coupled nonstationary problems of two-dimensional electroelasticity. (Russian. Russian summary) **93f:73090**
Menditto, G. *see* **Dall'Asta, A., 93i:73026**
Miara, Bernadette (*with* Trabucho, L.) A Galerkin spectral approximation in linearized beam theory. (French summary) **93b:65182**
Michel, J.-C. (*with* Suquet, Pierre) The constitutive law of nonlinear viscous and porous

materials. **93c:73001**
Miersemann, Erich (*with* Mittelmann, H. D.) Stability in obstacle problems for the von Kármán plate. (English summary) **93h:35081**
Mikelić, Andro *see* **Klarbring, Anders; et al., 93d:73054; 93g:73104** *and* **(93k:00037)**
Milton, Graeme W. *see* **Nesi, Vincenzo, 93a:73070**
Mittelmann, H. D. *see* **Miersemann, Erich, 93h:35081**
Mizel, Victor J. Relevance of Lavrentiev's phenomenon in 1-dimension to continuum mechanics. **93h:49005**
— *see also* **Coleman, Bernard D.; et al., 93d:73008**
Molinari, Alain *see* **Leroy, Yves M., 93k:73041**
Mura, Toshio (*with* Koya, Tatsuhito) ★ Variational methods in mechanics. **93j:73001**
Neittaanmäki, Pekka *see* **Haslinger, Jaroslav; et al., 93j:73058**
Nesi, Vincenzo (*with* Milton, Graeme W.) Polycrystalline configurations that maximize electrical resistivity. **93a:73070**
Nyashin, Yu. I. *see* **Chernopazov, S. A., (93k:00022)**
Oden, J. Tinsley *see* **Ainsworth, Mark; et al., 93m:49015**
Panagiotopoulos, P. D. (*with* Haslinger, Jaroslav) Optimal control and identification of structures involving multivalued nonmonotonicities. Existence and approximation results. **93e:73029**
— (*with* Haslinger, Jaroslav) On the dual reciprocal variational approach to the Signorini-Fichera problem. Convex and nonconvex generalization. (English, German and Russian summaries) **93m:49007**
— *see also* **Stavroulakis, G. E., 93f:73062**
Parry, Gareth P. *see* **Fonseca, Irene, 93i:73045**
Pechenov, V. S. *see* **Chernopazov, S. A., (93m:00017)**
Percivale, Danilo *see* **Acerbi, Emilio; et al., 93c:73025** *and* **93j:73045**
Perego, U. *see* **Comi, C.; et al., 93a:73080**
Petukhov, L. V. Dual estimates in problems on the design of elastic structures. (Russian. Russian summary) **93j:73059**
Pham Duc Chinh Bounds on the effective shear modulus of multiphase materials. (English summary) **93i:73036**
Pipkin, A. C. *see* **Steigmann, D. J., 93f:73055** *and* **Hilgers, M. G., 93i:49025**
Planchard, J. *see* **Sanchez-Hubert, J.; et al., 93i:73039**
Podio-Guidugli, Paolo (*with* Vergara-Caffarelli, Giorgio) Equilibrium phases and layered phase mixtures in elasticity. **93f:73017**
Ponte Castañeda, P. A new variational principle and its application to nonlinear heterogeneous systems. (English summary) **93g:73012**
Potier-Ferry, M. *see* **Léger, A., 93m:73016**
Pucci, Edvige (*with* Saccomandi, Giuseppe) Conservation laws in the elastic theory of materials with voids. (Italian summary) **93m:73001**
Rakhmanov, Kh. B. *see* **Goncharenko, V. M., 93d:73037**
Rao, Murali (*with* Sokołowski, Jan) Sensitivity analysis of shallow shell with obstacle. (*see* **93d:93006**)
Raoult, Annie *see* **Bourquin, Frédéric; et al., 93g:73008**
Raous, M. *see* **Licht, C.; et al., 93g:73105**
Raymond, Jean-Pierre Existence of minimizers for vector problems without quasiconvexity condition. **93f:49005**
Reddy, J. N. ★ Applied functional analysis and variational methods in engineering. **93b:00002**
Ren, Yi Qiang *see* **Lei, Jin Gan; et al., 93h:65082**
Repin, S. I. Variational formulations for discontinuous displacement fields in problems of ideal plasticity. (Russian) **93d:73040**
— Variational formulations for discontinuous displacement fields in problems of the deformation theory of plasticity without hardening. (Russian) **93d:73039**
Rodrigues, José-Francisco *see* **Chipot, Michel, 93h:35070**
Romano, Giovanni (*with* Rosati, Luciano; Ferro, Giuseppe) Theorems of the alternative in unilateral structural mechanics. **93h:73029**
Rosati, Luciano *see* **Romano, Giovanni; et al., 93h:73029**
Rosati, Mario Valerio A nonlinear eigenvalue problem governing the eversion of elastic spherical caps. **93a:47084**
Rubio, J. E. *see* **Butt, R., 93d:73051**
Saccomandi, Giuseppe *see* **Pucci, Edvige, 93m:73001**
Salaun, Michel *see* **Destuynder, Philippe, 93g:73087**
Salazar, Jorge A note on nonconvergence of solutions of a one-parameter family of polyconvex variational integrals. **93b:49018**
Salmenjoki, K. *see* **Haslinger, Jaroslav; et al., 93j:73058**
Salvadori, Anna *see* **Brandi, Primo, (93j:35004)**
Sanchez-Hubert, J. (*with* Bérété, S.; Planchard, J.) Spectral properties of an elastic rod-spring coupled system immersed in a fluid. (English summary) **93i:73039**
Sansour, Carlo (*with* Bufler, Hans) An exact finite rotation shell theory, its mixed variational formulation and its finite element implementation. **93c:73071**
Scarpini, F. The alternating Schwarz method applied to some biharmonic variational inequalities. **93c:65144**
vom Scheidt, Jürgen (*with* Wöhrl, U.; Wulff, S.) A method for the numerical treatment of nonlinear stochastic vibrations of vehicles.
Schmitt, Klaus *see* **Dặng Đình Áng; et al., 93h:35078** *and* **93i:47105**
Schuricht, Friedemann Bifurcation from minimax solutions by variational inequalities. **93c:47078**
Serëgin, G. A. A local estimate of the Caccioppoli inequality type for extremal variational problems of Hencky plasticity. (Russian. Russian summary) **93f:73050**
— Differential properties of the stress tensor in the Coulomb-Mohr theory of plasticity. (Russian. Russian summary) **93k:73037**
— A local estimate for the maximum modulus of the deviator of a deformation tensor in an elastoplastic body with linear hardening. (Russian. English and Russian summaries) **93j:73032**
She, Ying He *see* **Guo, Xiao Ming, 93k:73032**
Sheen, Jeenson *see* **Hou, Jean W., 93a:65152**
Shi, Jingyu *see* **Green, W. A., 93g:73065**
Shi, Peter (*with* Shillor, Meir) Noncoercive variational inequalities with application to friction problems. **93b:47136**
— (*with* Shillor, Meir) Existence of a solution to the N-dimensional problem of thermoelastic contact. **93i:73052**
— (*with* Shillor, Meir) An application of the duality method to the regularity of membrane problems with friction. (English summary) **93i:73053**
— *see also* **Shillor, Meir, (93k:00037)**
Shillor, Meir (*with* Shi, Peter) On the regularity of solutions to problems with friction. (*see* **93k:00037**)
— *see also* **Shi, Peter, 93b:47136; Klarbring, Anders; et al., 93d:73054; 93g:73104; Shi, Peter, 93i:73052; 93i:73053** *and* **Klarbring, Anders; et al., (93k:00037)**
Simo, Juan C. (*with* Armero, F.) Geometrically nonlinear enhanced strain mixed methods and the method of incompatible modes. **93a:73082**
— *see also* **Fox, D. D., 93c:73068**
Simpson, Henry C. (*with* Spector, Scott J.) Some necessary conditions at an internal boundary for minimizers in finite elasticity. **93g:73071**
Sokołowski, Jan *see* **Rao, Murali, (93d:93006)**
Souza de Cursi, José Eduardo Un problème issu de l'étude numérique d'un fil sans raideur soumis au frottement sec. (English and French summaries) [A problem in the numerical study of a string subject to Coulomb friction] **93m:73036**
Spector, Scott J. *see* **James, Richard Dana, 93d:73059; Simpson, Henry C., 93g:73071** *and* **James, Richard Dana, 93h:73013**
Starita, Giulio Nonlocal variational mechanics and equilibrium of small crystals. (English summary) (*see* **93g:00030**)
Stavroulakis, G. E. Static analysis of cracked masonry walls by means of the phenomenological interface concept. (Bulgarian summary) **93e:73033**
— (*with* Panagiotopoulos, P. D.) Delamination of multilayered plates in bending under monotone boundary and nonmonotone interlayer conditions. A variational-hemivariational inequality approach. (Bulgarian summary) **93f:73062**
Steigmann, D. J. (*with* Pipkin, A. C.) Equilibrium of elastic nets. **93f:73055**
— Equilibrium of prestressed networks. **93c:73051**
Stephan, E. P. Coupling of finite elements and boundary elements for some nonlinear interface problems. (English summary) **93j:73019**
Stumpf, Helmut (*with* Le Khanh Chau) Variational formulation of the crack problem for an elastoplastic body at finite strain. (English, German and Russian summaries) **93k:73043**
Suo, Xiao Zheng (*with* Combescure, A.) Second variation of energy and an associated line independent integral in fracture mechanics. I. Theory. (English summary) **93j:73066**
Suquet, Pierre *see* **Michel, J.-C., 93c:73001** *and* **Bouchitté, Guy, 93f:73008**
Tahraoui, R. Régularité de la solution d'un problème variationnel. (English summary) [Regularity of the solution of a variational problem] **93e:49057**
Telega, Józef Joachim Quasi-static Signorini's contact problem with friction and duality. **93d:73066**
— Perfectly plastic plates loaded by boundary bending moments: relaxation and homogenization. **93i:73002**
— *see also* **Gałka, A., 93c:73069** *and* **Lewiński, Tomasz, 93f:73059**
Tereshchenko, V. Ya. An algorithm for the realization of and error estimates for the variational method of boundary elements in problems of elasticity theory. (Russian. Russian summary) **93j:73072**
Thoulouze-Pratt, Elaine *see* **Licht, C.; et al., 93g:73105**
Tomarelli, Franco A quasi-variational problem in nonlinear elasticity. **93g:73037**
Trabucho, L. *see* **Miara, Bernadette, 93b:65182** *and* **Figueiredo, Isabel M. N., 93k:73048**
Trimarco, Carmine *see* **Maugin, Gérard A., 93f:73029** *and* **93g:73070**
Truc, Françoise Application d'une méthode variationnelle à l'équation des coques et aux systèmes gyroscopiques. (English and French summaries) [Application of a variational method to a shell equation and to gyroscopic systems] **93i:34028**
Twu, Sung-Ling (*with* Choi, Kyung K.) Configuration design sensitivity analysis of built-up structures. I. Theory. (English summary) **93f:73075**
Utkin, G. A. *see* **Boldin, V. P.; et al., 93f:73064**
Uzcan, N. *see* **Aköz, A. Y., 93f:73057**
Valid, R. The nonlinear principles of complementary energy in shell theory statics and dynamics. I. Statics. (English summary) **93i:73035a**
— The nonlinear principles of complementary energy in shell theory statics and dynamics. II. Dynamics. (English summary) **93i:73035b**
Vergara-Caffarelli, Giorgio *see* **Podio-Guidugli, Paolo, 93f:73017**
Vy, L. K. *see* **Dặng Đình Áng; et al., 93h:35078** *and* **93i:47105**
Wada, A. *see* **Yamada, Takahiro; et al., 93c:73097**
Weissman, S. L. A mixed formulation of nonlinear-elastic problems. (English summary) **93f:73105**
Werby, Michael F. *see* **Dean, Cleon E., (93j:00008)**
Wöhrl, U. *see* **vom Scheidt, Jürgen; et al.**
Wulff, S. *see* **vom Scheidt, Jürgen; et al.**
Xing, Jing Tang (*with* Zheng, Zhao Chang) Some general theorems and generalized and piecewise generalized variational principles for linear elastodynamics. (Chinese. Engiish and Chinese summaries) **93k:73018**
Yamada, Takahiro (*with* Kikuchi, Fumio; Wada, A.) A 9-node mixed shell element based on the Hu-Washizu principle. (English summary) **93c:73097**
— (*with* Kikuchi, Fumio) An arbitrary Lagrangian-Eulerian finite element method for incompressible hyperelasticity. (English summary) **93i:73056**
Yau, Shing-Tung (*with* Gao, Yang) Obstacle problem for von Kármán equations. **93b:73027**
Yen, D. H. Y. *see* **Elgindi, M. B. M., 93k:73047**
Zanzotto, Giovanni *see* **Fedelich, B., 93g:73026**
Zhang, Ke Wei[1] Remarks on the two well problem with rotations. **93d:73029**
Zhang, Ru Qing (*with* Gao, Hang Shan) The random variational principle and finite element method. (Chinese. English and Chinese summaries) **93f:73107**
Zheng, Zhao Chang *see* **Xing, Jing Tang, 93k:73018**
Zhikov, V. V. Estimates for an averaged matrix and an averaged tensor. (Russian) **93a:73005**
Zouain, Néstor *see* **Feijóo, Raúl A., 93f:73044**
Zozulya, V. V. The method of boundary functionals in contact problems of the dynamics of bodies with cracks. (Russian. English and Russian summaries) **93f:73097**
Zubov, L. M. Variational principles of nonlinear elastostatics in Euler coordinates.

(Russian) **93c:73028**

73V30 Stochastic analysis

Items with secondary classifications in 73V30

Colombi, Pierluigi *see* **Elishakoff, Isaac, 93m:73027**

Elishakoff, Isaac (*with* Colombi, Pierluigi) Combination of probabilistic and convex models of uncertainty when scarce knowledge is present on acoustic excitation parameters. (English summary) **93m:73027**

Gao, Hang Shan *see* **Zhang, Ru Qing, 93f:73107**

Ikeda, Kiyohiro *see* **Murota, Kazuo, 93j:73040**

Markov, Konstantin Z. (*with* Zvyatkov, K. D.) Optimal third-order bounds on the effective properties of some composite media, and related problems. (English and Russian summaries) **93f:73071**

Marti, K. Stochastic optimization in structural design. **93h:73028**

Murota, Kazuo (*with* Ikeda, Kiyohiro) On random imperfections for structures of regular-polygonal symmetry. (English summary) **93j:73040**

Potapov, V. D. Stability of a viscoelastic rod under a random stationary longitudinal force. (Russian) **93c:73054**

Sobczyk, Kazimierz (*with* Spencer, Billie F., Jr.) ★ Random fatigue. **93c:73084**

Spencer, Billie F., Jr. *see* **Sobczyk, Kazimierz, 93c:73084**

Zhang, Ru Qing (*with* Gao, Hang Shan) The random variational principle and finite element method. (Chinese. English and Chinese summaries) **93f:73107**

Zvyatkov, K. D. *see* **Markov, Konstantin Z., 93f:73071**

73V35 Complex variable techniques

Gao, Huajian Stress analysis of holes in anisotropic elastic solids: conformal mapping and boundary perturbation. (English summary) **93c:73102**

Heise, Ulrich Fundamental solutions of the plane and three-dimensional bipotential operators defined on various types of Riemann surfaces and spaces. (English summary) **93k:73088**

Items with secondary classifications in 73V35

Antipov, Yu. A. (*with* Arutyunyan, N. Kh.) Contact problems in elasticity theory in the presence of friction and adhesion. (Russian) **93b:73033**

Arutyunyan, N. Kh. *see* **Antipov, Yu. A., 93b:73033**

Bardzokas, Dem. (*with* Parton, V. Z.) Singular integral equations in problems of crack arrest. (Russian) **93h:73011**

Bogashov, F. A. Description of three-dimensional problems in elasticity theory by means of analytic functions of a Hamilton variable. II. (Russian) **93f:73021**

Cai, Hai Tao On the periodic fundamental problems of a half plane with anisotropic elasticity. **93a:73016**

Čanak, Miloš Hilbert's boundary value problem for the generalized analytic functions. (English summary)

Gordeev, Yu. N. A disk-shaped crack from hydraulic fracture in a poroelastic medium. (Russian. Russian summary) **93g:73098**

Heise, Ulrich Fundamental solutions of Navier's differential operator for elastic Riemann spaces with a finite and with an infinite number of sheets. (English summary) **93f:73023**

Herrmann, G. *see* **Honein, E.; et al., 93f:73031**

Honein, E. (*with* Honein, T.; Herrmann, G.) On two circular inclusions in harmonic problems. (English summary) **93f:73031**

Honein, T. *see* **Honein, E.; et al., 93f:73031**

de Hoop, Adrianus T. *see* **de Hoop, Maarten V., 93a:86001**

de Hoop, Maarten V. (*with* de Hoop, Adrianus T.) Scalar space-time waves in their spectral-domain first- and second-order Thiele approximations. **93a:86001**

Huang, Xiao Ling Equilibrium of an anisotropic infinite plate with circular holes when isotropic circular disks are welded to it. (Chinese. Chinese summary)

Kovalenko, M. D. Bi-orthogonal expansions in the first fundamental problem in elasticity theory. (Russian) **93a:73017**

Ladopoulos, E. G. New aspects for the generalization of the Sokhotski-Plemelj formulae for the solution of finite-part singular integrals used in fracture mechanics. **93c:45008**

Laura, Patricio A. A. *see* **Schinzinger, Roland, 93g:00018**

Martynenko, Mikhailo D. (*with* Zhuravkov, M. A.; Zhuravkova, E. P.) Multivalued Green quasifunctions and the solution of boundary value problems for domains with slits and cuts. (Russian. English and Russian summaries)

Nakhmein, E. L. (*with* Nuller, B. M.) Periodic combined boundary value problems and their applications in elasticity theory. (Russian) **93d:73024**

Nuller, B. M. *see* **Nakhmein, E. L., 93d:73024**

Panagiotopoulos, P. D. Optimal control of systems governed by variational-hemivariational inequalities. **93h:49022**

Parton, V. Z. *see* **Bardzokas, Dem., 93h:73011**

Pen'kov, V. B. (*with* Tolokonnikov, L. A.) On the solution of plate bending problems. (Russian) **93k:73054**

— (*with* Tolokonnikov, L. A.) Strict solutions of two-dimensional problems in the mechanics of a deformable solid. (Russian. English and Ukrainian summaries) **93i:73012**

Piltner, Reinhard The derivation of a thick and thin plate formulation without ad hoc assumptions. (English summary) **93f:73060**

Puladze, È. P. An inverse problem in elasticity theory for an infinite domain. (Russian. English and Georgian summaries)

Schinzinger, Roland (*with* Laura, Patricio A. A.) ★ Conformal mapping: methods and applications. **93g:00018**

Sil'vestrov, V. V. Effective solution of basic quasiperiodic problems in elasticity theory for a plane with cuts along a line. (Russian. Russian summary) **93g:73036**

Tolokonnikov, L. A. *see* **Pen'kov, V. B., 93i:73012** *and* **93k:73054**

Tsurkis, I. Ya. Stress state in a half-plane with an elliptic inclusion. (Russian) **93d:73021**

— Solution of a nonregular system of linear algebraic equations. (Russian. Russian summary) **93i:65122**

Wen, Guo Chun (*with* Xu, Zuo Liang) Free boundary problems in elasticity. **93a:73022**

Xu, Zuo Liang *see* **Wen, Guo Chun, 93a:73022**

Zhorzholiani, G. T. The stretching of an infinite plane with cross-shaped cut. (Russian)

Zhuravkov, M. A. *see* **Martynenko, Mikhailo D.; et al.**

Zhuravkova, E. P. *see* **Martynenko, Mikhailo D.; et al.**

Zubov, L. M. Dual solutions in the nonlinear theory of elasticity. (Russian) **93i:73018**

73V99 None of the above, but in this section

Gulidov, A. I. Organization of the computation process and the data structure in the numerical solution of dynamic problems of the mechanics of deformable media. (Russian) **93f:73111**

Krishnasamy, G. (*with* Rizzo, F. J.; Rudolphi, T. J.) Continuity requirements for density functions in the boundary integral equation method. (English summary) **93k:73089**

Perchik, E. L. Nonunique representations of solutions for reducing boundary value problems in the mechanics of an inhomogeneous medium to integral equations of the second kind with smooth kernels. (Russian. English and Russian summaries) **93j:73074**

Rizzo, F. J. *see* **Krishnasamy, G.; et al., 93k:73089**

Rudolphi, T. J. *see* **Krishnasamy, G.; et al., 93k:73089**

Rvachev, M. A. Construction of statically possible stress fields by means of the *R*-function method. (Russian. Russian summary) (*see* **93g:00023**)

Simo, Juan C. (*with* Tarnow, N.) The discrete energy-momentum method. Conserving algorithms for nonlinear elastodynamics. (English summary) **93g:73118**

Tarnow, N. *see* **Simo, Juan C., 93g:73118**

Zhong, Wan Xie (*with* Zhong, Xiang Xiang) Method of separation of variables and Hamiltonian system. (English summary) **93k:73090**

Zhong, Xiang Xiang *see* **Zhong, Wan Xie, 93k:73090**

Items with secondary classifications in 73V99

Agalovyan, L. A. (*with* Khachatryan, G. G.) An asymptotic method for solving boundary value problems in the theory of elasticity for nonclassical domains. (Russian)

Aleksidze, M. A. ★ Фундаментальные функции в приближенных решениях граничных задач. (Russian) [Fundamental functions in approximate solutions of boundary value problems] **93c:65155**

Argon, Ali S. *see* **Mott, Peter H.; et al.**

Ario, Ichiro *see* **Ikeda, Kiyohiro; et al., 93c:73061**

Bakhvalov, N. S. (*with* Knyazev, Andreĭ Vladimirovich) An effective iterative method for the solution of Lamé equations for almost incompressible media and of Stokes equations. (Russian) **93b:65194**

Balfour, James A. D. ★ Computer analysis of structural frameworks. **93f:73002**

Chaskelis, H. H. *see* **Delsanto, P. P.; et al.**

Chipot, Michel (*with* Dal Maso, Gianni) Relaxed shape optimization: the case of nonnegative data for the Dirichlet problem. **93d:49046**

Cocârlan, Paul (*with* Roşculeţ, Marcel) ★ Serii trigonometrice şi aplicaţii. (Romanian) [Trigonometric series and applications] **93d:42001**

Dal Maso, Gianni *see* **Chipot, Michel, 93d:49046**

Delsanto, P. P. (*with* Whitcombe, T.; Chaskelis, H. H.; Mignogna, R. B.) Connection Machine simulation of ultrasonic wave propagation in materials. I. The one-dimensional case.

Garaizar, Xabier Solution of a Riemann problem for elasticity. **93g:73048**

Gritsaichuk, V. M. Structures of the solution of problems in elasticity theory with rotational symmetry. (Russian. English and Russian summaries) **93g:73031**

Higdon, Robert L. Absorbing boundary conditions for acoustic and elastic waves in stratified media. **93c:73035**

Hu, Hai Chang Necessary and sufficient boundary integral equations for plane harmonic functions. (English summary) **93j:65196**

Huang, Zheng Ming On the coupled vibration of an ideal fluid with a linear elastic structure. (Chinese. English and Chinese summaries) **93j:73060**

Ikeda, Kiyohiro (*with* Ario, Ichiro; Torii, Kunio) Block-diagonalization analysis of symmetric plates. (English summary) **93c:73061**

Kaveh, A. ★ Structural mechanics: graph and matrix methods. **93g:73074**

Khachatryan, G. G. *see* **Agalovyan, L. A.**

Knyazev, Andreĭ Vladimirovich *see* **Bakhvalov, N. S., 93b:65194**

Maradudin, A. A. *see* **Parker, David F.; et al., 93g:73042**

Mascarenhas, M. L. (*with* Trabucho, L.) Asymptotic, homogenization and Galerkin methods in three-dimensional beam theory. (English summary) (*see* **93j:00008**)

Mayer, A. P. *see* **Parker, David F.; et al., 93g:73042**

Mignogna, R. B. *see* **Delsanto, P. P.; et al.**

Mistakidis, E. S. *see* **Panagiotopoulos, P. D.; et al., 93g:73106**

Mohamed, Ali Shauket Numerical solution by the spline method for an elastic problem. **93a:65176**

Morand, Henri J.-P. (*with* Ohayon, Roger) ★ Interactions fluides-structures. (French) [Fluid-structure interactions] **93m:73031**

Mott, Peter H. (*with* Argon, Ali S.; Suter, Ulrich W.) The atomic strain tensor.

Mróz, Z. *see* **Pycko, S., 93c:73039**

Ohayon, Roger *see* **Morand, Henri J.-P., 93m:73031**

Panagiotopoulos, P. D. (*with* Mistakidis, E. S.; Panagouli, O. K.) Fractal interfaces with unilateral contact and friction conditions. (English summary) **93g:73106**

Panagouli, O. K. *see* **Panagiotopoulos, P. D.; et al., 93g:73106**

Parker, David F. (*with* Mayer, A. P.; Maradudin, A. A.) The projection method for nonlinear surface acoustic waves. (English summary) **93g:73042**

Pycko, S. (*with* Mróz, Z.) Alternative approach to shakedown as a solution of a min-max problem. **93c:73039**

Roşculeţ, Marcel *see* **Cocârlan, Paul, 93d:42001**

Schmidt, Robert Improved bounds for buckling loads and fundamental frequencies. **93j:73053**

Senitskiĭ, Yu. È. A multicomponent generalized finite integral transformation and its application to nonstationary problems in mechanics. (Russian) **93a:73021**

Shi, Gen Hua ★ Block system modeling by discontinuous deformation analysis. **93j:73067**

Simo, Juan C. The (symmetric) Hessian for geometrically nonlinear models in solid mechanics: intrinsic definition and geometric interpretation. **93a:73065**

Smirnova, N. S. Calculation of wave fields in multilayered media. (Russian. English and Russian summaries)
Sumbatyan, M. A. (*with* Troyan, È. A.) Reconstruction of the shape of a convex defect from a scattered wave field in the ray approximation. (Russian. Russian summary) **93g:73052**
Suter, Ulrich W. *see* **Mott, Peter H.; et al.**
Torii, Kunio *see* **Ikeda, Kiyohiro; et al., 93c:73061**
Trabucho, L. *see* **Mascarenhas, M. L., (93j:00008)**
Troyan, È. A. *see* **Sumbatyan, M. A., 93g:73052**
Ugodchikov, A. G. On the correctness of the equations of the dynamics of a deformable solid body. (Russian) **93g:73027**
Whitcombe, T. *see* **Delsanto, P. P.; et al.**
Zargaryan, S. S. Singularities of the solution of integral equations of potential theory arising in problems of elasticity for nonhomogeneous media. **93h:73010**

76–XX Fluid mechanics {For general continuum mechanics, see 73Bxx, or other parts of 73–XX.}

76–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Items with secondary classifications in 76–00

Mackerle, Jaroslav ★ Finite element methods. **93d:00007**

Items listed otherwise than by author

Index:
Annual review of fluid mechanics Cumulative index of contributing authors, Volumes 1–25. (*see* **93h:76003**)
— Cumulative index of chapter titles, Volumes 1–25. (*see* **93h:76003**)

76–01 Instructional exposition (textbooks, tutorial papers, etc.)

Acheson, D. J. ★ Elementary fluid dynamics. **93k:76001**
Schetz, Joseph A. ★ Boundary layer analysis. **93k:76002**
Tritton, D. J. ★ Physical fluid dynamics. **93f:76001**

Items with secondary classifications in 76–01

Abbott, M. B. (*with* Basco, D. R.) ★ Computational fluid dynamics. **93b:76055**
Anderson, J. D. (*with* Degrez, G.; Dick, Erik; Grundmann, R.) ★ Computational fluid dynamics. **93a:76081**
Basco, D. R. *see* **Abbott, M. B., 93b:76055**
Degrez, G. *see* **Anderson, J. D.; et al., 93a:76081**
Dick, Erik *see* **Anderson, J. D.; et al., 93a:76081**
Fließbach, Torsten ★ Mechanik. (German) [Mechanics] **93j:70001**
Grundmann, R. *see* **Anderson, J. D.; et al., 93a:76081**
(Kisin, Vitaly I.) *see* **Martynov, G. A., 93i:82001**
(Kühnel, Adolf) *see* **Landau, L. D., 93b:00001c**
Landau, L. D. (*with* Lifshits, E. M.) ★ Lehrbuch der theoretischen Physik ("Landau-Lifschitz"). Band VI. (German) [Textbook of theoretical physics ("Landau-Lifschitz"). Vol. VI] **93b:00001c**
Lifshits, E. M. *see* **Landau, L. D., 93b:00001c**
Martynov, G. A. ★ Fundamental theory of liquids. **93i:82001**
(Weller, Wolfgang) *see* **Landau, L. D., 93b:00001c**
(Wendt, John F.) *see* **Anderson, J. D.; et al., 93a:76081**
(Ziesche, Paul) *see* **Landau, L. D., 93b:00001c**

76–02 Research exposition (monographs, survey articles)

Bakker, P. G. ★ Bifurcations in flow patterns. **93i:76001**
Majda, Andrew J. Mathematical fluid dynamics: the interaction of nonlinear analysis and modern applied mathematics. **93k:76003**
Zeytounian, Radyadour Kh. ★ Les modèles asymptotiques de la mécanique des fluides. II. (French) [Asymptotic models of fluid mechanics. II] **93i:76002**
— ★ Mécanique des fluides fondamentale. (English. French summary) [Fundamental fluid mechanics] **93h:76001**

Items listed otherwise than by author

Lecture Notes in Physics *see* **Zeytounian, Radyadour Kh., 93i:76002**

Items with secondary classifications in 76–02

Belotserkovskiĭ, O. M. CFD state-of-the-art in the U.S.S.R. **93a:76063**
Crisanti, A. (*with* Falcioni, M.; Vulpiani, A.; Paladin, Giovanni) Lagrangian chaos: transport, mixing and diffusion in fluids. **93d:76029**
Ekiel-Jeżewska, Maria L. (*with* Turski, L. A.) Relativistic hydrodynamics. **93e:76070**
Falcioni, M. *see* **Crisanti, A.; et al., 93d:76029**
Gresho, P. M. Some interesting issues in incompressible fluid dynamics, both in the continuum and in numerical simulation. **93e:76056**
(Gustafson, Karl E.) *see* **Vortex methods and vortex motion, 93f:76078**
Landahl, M. T. (*with* Mollo-Christensen, E.) ★ Turbulence and random processes in fluid mechanics. **93m:76047**
L'vov, V. S. Scale invariant theory of fully developed hydrodynamic turbulence—Hamiltonian approach. **93c:76043**
Mollo-Christensen, E. *see* **Landahl, M. T., 93m:76047**
Paladin, Giovanni *see* **Crisanti, A.; et al., 93d:76029**
Quarteroni, Alfio Numerical methods in fluid-dynamics. (Italian) **93g:76095**
(Sethian, James A.) *see* **Vortex methods and vortex motion, 93f:76078**
Shih, Wei Hui ★ Solutions analytiques de quelques équations aux dérivées partielles en mécanique des fluides. (French) [Analytic solutions of some partial differential equations in fluid mechanics] **93e:35090**
(Thom, René) *see* **Shih, Wei Hui, 93e:35090**
Turski, L. A. *see* **Ekiel-Jeżewska, Maria L., 93e:76070**
Vulpiani, A. *see* **Crisanti, A.; et al., 93d:76029**

Items listed otherwise than by author

Vortex methods and vortex motion ★ Vortex methods and vortex motion. **93f:76078**

76–03 Historical (must also be assigned at least one classification number from Section 01)

Rott, Nicholas Lord Rayleigh and hydrodynamic similarity. (English summary) **93h:76002**

Items with secondary classifications in 76–03

Ertel, Hans ★ Geophysical hydrodynamics and Ertel's potential vorticity. **93k:01090**
(Khlebnikov, V. I.) *see* **Polubarinova-Kochina, P. Ya., 93a:01067**
Mackerle, Jaroslav Finite and boundary elements and supercomputing—a bibliography (1989–1991). (English summary)
(Poiseuille, Jean Léonard Marie) *see* **Sutera, Salvatore P., (93h:76003)**
Polubarinova-Kochina, P. Ya. ★ Избранные труды. Гидродинамика и теория фильтрации. (Russian) [Selected works. Hydrodynamics and filtration theory] **93a:01067**
Powell, Alan Soviet aeroacoustics—a short review. **93d:76059**
(Schröder, Wilfried) *see* **Ertel, Hans, 93k:01090**
Skalak, Richard *see* **Sutera, Salvatore P., (93h:76003)**
Sutera, Salvatore P. (*with* Skalak, Richard) The history of Poiseuille's law. (*see* **93h:76003**)
(Treder, Hans-Jürgen) *see* **Ertel, Hans, 93k:01090**

Items listed otherwise than by author

Bibliography:
Polubarinova-Kochina, P. Ya. *see* **Polubarinova-Kochina, P. Ya., 93a:01067**
Biography:
Polubarinova-Kochina, P. Ya *see* **Polubarinova-Kochina, P. Ya., 93a:01067**

76–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 76–04

Baumann, C. E. (*with* Storti, M. A.; Idelsohn, Sergio R.) Improving the convergence rate of the Petrov-Galerkin techniques for the solution of transonic and supersonic flows. **93a:76064**
Camassa, Roberto (*with* Wu, Theodore Y.) Stability of forced steady solitary waves. **93a:76046**
Geveci, Tunc *see* **Stewart, Kris, 93b:65213**
Idelsohn, Sergio R. *see* **Baumann, C. E.; et al., 93a:76064**
(Simon, Horst D.) *see* **Parallel computational fluid dynamics, 93i:76004**
Stewart, Kris (*with* Geveci, Tunc) Numerical experiments with a nonlinear evolution equation which exhibits blow-up. **93b:65213**
Storti, M. A. *see* **Baumann, C. E.; et al., 93a:76064**
Wu, Theodore Y. *see* **Camassa, Roberto, 93a:76046**

Items listed otherwise than by author

Parallel computational fluid dynamics ★ Parallel computational fluid dynamics. **93i:76004**

76–05 Experimental papers

Items with secondary classifications in 76–05

Bell, M. J. *see* **Read, P. L.; et al., 93c:76047**
Belyakov, G. V. *see* **Sadovskiĭ, M. A.; et al.**
Brown, G. L. (*with* Lopez, Juan Manuel) Axisymmetric vortex breakdown. II. Physical mechanisms. **93c:76041b**
Couder, Yves Growth patterns: from stable curved fronts to fractal structures. **93m:76030**
Dallmann, Uwe *see* **Simen, Martin, 93h:76044**
Hammack, J. L. (*with* Henderson, D. M.) Resonant interactions among surface water waves. (*see* **93h:76003**)
Henderson, D. M. *see* **Hammack, J. L., (93h:76003)**
Johnson, D. W. *see* **Read, P. L.; et al., 93c:76047**
Kachanov, Yu. S. (*with* Ryzhov, O. S.) Formation of solitons in a transitional boundary layer. Theory and experiment. (Russian) **93d:76017**
Lopez, Juan Manuel Axisymmetric vortex breakdown. I. Confined swirling flow. **93c:76041a**
— (*with* Perry, A. D.) Axisymmetric vortex breakdown. III. Onset of periodic flow and chaotic advection. **93c:76041c**
— *see also* **Brown, G. L., 93c:76041b**
Meneveau, Charles *see* **O'Neil, John, 93i:76045**
Nisht, M. I. (*with* Podobedov, V. A.; Zhelannikov, A. I.) Far-wake formation behind a wing and a system of carrying surfaces. (Russian)
O'Neil, John (*with* Meneveau, Charles) Spatial correlations in turbulence: predictions from the multifractal formalism and comparison with experiments. (English summary) **93i:76045**
Perry, A. D. *see* **Lopez, Juan Manuel, 93c:76041c**
Podobedov, V. A. *see* **Nisht, M. I.; et al.**

Read, P. L. (*with* Bell, M. J.; Johnson, D. W.; Small, R. M.) Quasi-periodic and chaotic flow regimes in a thermally driven, rotating fluid annulus. **93c:76047**
Rodionov, V. N. *see* **Sadovskii, M. A.; et al.**
Ryzhov, O. S. *see* **Kachanov, Yu. S., 93d:76017**
Sadovskii, M. A. (*with* Rodionov, V. N.; Belyakov, G. V.) On a mechanism for the rise of a cavitational vortex. (Russian)
Simen, Martin (*with* Dallmann, Uwe) ★ On the instability of hypersonic flow past a pointed cone—comparison of theoretical and experimental results at Mach 8. (English. English and German summaries) **93h:76044**
Small, R. M. *see* **Read, P. L.; et al., 93c:76047**
Tritton, D. J. ★ Physical fluid dynamics. **93f:76001**
Zhelannikov, A. I. *see* **Nisht, M. I.; et al.**

76–06 Proceedings, conferences, collections, etc.

(Acrivos, Andreas) *see* **Symposium: Fluid Mechanics of Stirring and Mixing, 93j:76006**
(Brebbia, C. A.) *see* **Computational methods in viscous aerodynamics, 93e:76001; Computational methods in water resources, 93g:76002; 93g:76003** *and* **Boundary elements in fluid dynamics, 93i:76003**
(Cheer, A. Y.) *see* **Fluid dynamics in biology, 93j:76003**
(Crowley, W. P.) *see* **Advances in the free-Lagrange method, 93g:76001**
(van Dam, C. P.) *see* **Fluid dynamics in biology, 93j:76003**
(Erokhin, N. S.) *see* **Nonlinear dynamics of structures, 93g:76004**
(Ewing, Richard E.) *see* **Computational methods in water resources, 93g:76002** *and* **93g:76003**
(Frisch, Uriel) *see* **Nonlinear dynamics of structures, 93g:76004**
(Fritts, M. J.) *see* **Advances in the free-Lagrange method, 93g:76001**
(Gray, W. G.) *see* **Computational methods in water resources, 93g:76002** *and* **93g:76003**
(Hussain, Fazle) *see* **Nonlinear dynamics of structures, 93g:76004**
(Hussaini, M. Y.) *see* **Instability, transition, and turbulence, 93j:76004**
(Jiménez, Javier) *see* **Global geometry of turbulence, 93b:76001**
(Kumar, Ajay[2]) *see* **Instability, transition, and turbulence, 93j:76004**
(Lau, Richard L.) *see* **Computational acoustics, 93j:76001**
(Lee, Ding) *see* **Computational acoustics, 93j:76001** *and* **93j:76002**
(Lumley, John L.) *see* **Annual review of fluid mechanics, 93h:76003**
(Martin, Paul Andrew) *see* **Wave asymptotics, 93b:76003**
(Moiseev, S. S.) *see* **Nonlinear dynamics of structures, 93g:76004**
(Morton, K. W.) *see* **Conference: Numerical Methods in Fluid Dynamics, 93e:76002**
(Murthy, T. K. S.) *see* **Computational methods in hypersonic aerodynamics, 93d:76001** *and* **Computational methods in viscous aerodynamics, 93e:76001**
(Partridge, P. W.) *see* **Boundary elements in fluid dynamics, 93i:76003**
(Pinder, G. F.) *see* **Computational methods in water resources, 93g:76002** *and* **93g:76003**
(Pironneau, Olivier) *see* **Numerical simulation of unsteady flows and transition to turbulence, 93e:76003**
(Reed, Helen L.) *see* **Annual review of fluid mechanics, 93h:76003**
(Robinson, Allan R.) *see* **Computational acoustics, 93j:76001** *and* **93j:76002**
(Rodi, W.) *see* **Numerical simulation of unsteady flows and transition to turbulence, 93e:76003**
(Russell, T. F.) *see* **Computational methods in water resources, 93g:76002** *and* **93g:76003**
(Ryhming, I. L.) *see* **Numerical simulation of unsteady flows and transition to turbulence, 93e:76003**
(Sagdeev, R. Z.) *see* **Nonlinear dynamics of structures, 93g:76004**
(Savill, A. M.) *see* **Numerical simulation of unsteady flows and transition to turbulence, 93e:76003**
(Simon, Horst D.) *see* **Parallel computational fluid dynamics, 93i:76004**
(Streett, C. L.) *see* **Instability, transition, and turbulence, 93j:76004**
(Trease, H. E.) *see* **Advances in the free-Lagrange method, 93g:76001**
(Truong, T. V.) *see* **Numerical simulation of unsteady flows and transition to turbulence, 93e:76003**
(Ursell, Fritz) *see* **Wave asymptotics, 93b:76003**
(Van Dyke, Milton) *see* **Annual review of fluid mechanics, 93h:76003**
(Verheggen, T. M. M.) *see* **Numerical methods for the simulation of multi-phase and complex flow**
(Vichnevetsky, Robert) *see* **Computational acoustics, 93j:76002**
(Wesseling, Pieter) *see* **Proceedings: Conference on Numerical Methods in Fluid Mechanics, 93b:76002**
(Wickham, G. R.) *see* **Wave asymptotics, 93b:76003**

Items listed otherwise than by author

Advances in the free-Lagrange method ★ Advances in the free-Lagrange method. **93g:76001**
Amsterdam ★ Numerical methods for the simulation of multi-phase and complex flow.
Annual review of fluid mechanics ★ Annual review of fluid mechanics. Vol. 25. **93h:76003**
Biography:
  Ursell, Fritz ★ Wave asymptotics. **93b:76003**
Boundary elements in fluid dynamics ★ Boundary elements in fluid dynamics. **93i:76003**
Cambridge, MA ★ Computational acoustics. Vol. 1. **93j:76001**
— ★ Computational acoustics. Vol. 2. **93j:76002**
Computational acoustics ★ Computational acoustics. Vol. 1. **93j:76001**
— ★ Computational acoustics. Vol. 2. **93j:76002**
Computational methods in hypersonic aerodynamics ★ Computational methods in hypersonic aerodynamics. **93d:76001**
Computational methods in viscous aerodynamics ★ Computational methods in viscous aerodynamics. **93e:76001**
Computational methods in water resources ★ Computational methods in water resources. IX. Vol. 1. **93g:76002**
— ★ Computational methods in water resources. IX. Vol. 2. **93g:76003**
Conference:
  Computational Methods in Water Resources ★ Computational methods in water resources. IX. Vol. 1. **93g:76002**
  — ★ Computational methods in water resources. IX. Vol. 2. **93g:76003**
  Fluid Dynamics in Biology ★ Fluid dynamics in biology. **93j:76003**
Conference: (*cont'd.*)
  Free-Lagrange ★ Advances in the free-Lagrange method. **93g:76001**
  Numerical Methods in Fluid Dynamics ★ Twelfth International Conference on Numerical Methods in Fluid Dynamics. **93e:76002**
  Numerical Methods in Fluid Mechanics ★ Proceedings of the Eighth GAMM-Conference on Numerical Methods in Fluid Mechanics. **93b:76002**
Contemporary Mathematics ★ Fluid dynamics in biology. **93j:76003**
Delft ★ Proceedings of the Eighth GAMM-Conference on Numerical Methods in Fluid Mechanics. **93b:76002**
Denver, CO ★ Computational methods in water resources. IX. Vol. 1. **93g:76002**
— ★ Computational methods in water resources. IX. Vol. 2. **93g:76003**
Fluid dynamics in biology ★ Fluid dynamics in biology. **93j:76003**
Global geometry of turbulence ★ The global geometry of turbulence. **93b:76001**
Hampton, VA ★ Instability, transition, and turbulence. **93j:76004**
IMACS Symposium:
  Computational Acoustics ★ Computational acoustics. Vol. 1. **93j:76001**
  — ★ Computational acoustics. Vol. 2. **93j:76002**
Instability, transition, and turbulence ★ Instability, transition, and turbulence. **93j:76004**
La Jolla, CA ★ Symposium on Fluid Mechanics of Stirring and Mixing. **93j:76006**
Lausanne ★ Numerical simulation of unsteady flows and transition to turbulence. **93e:76003**
Lecture Notes in Physics ★ Twelfth International Conference on Numerical Methods in Fluid Dynamics. **93e:76002**
— ★ Advances in the free-Lagrange method. **93g:76001**
— ★ Numerical methods for the simulation of multi-phase and complex flow.
Manchester ★ Wave asymptotics. **93b:76003**
Mathematical aspects on nonlinear waves in fluids ★ Ryūtai chū no hisenkei hadō no sūriteki sokumen. (Japanese) [Mathematical aspects on nonlinear waves in fluids] **93j:76005**
Meeting:
  Topological Problems in Fluid Mechanics ★ Ryūtai rikigaku ni okeru toporojī no mondai. (Japanese) [Topological problems in fluid mechanics] **93d:76002**
  Ursell, Fritz ★ Wave asymptotics. **93b:76003**
Moran, WY ★ Advances in the free-Lagrange method. **93g:76001**
NATO Advanced Research Workshop:
  Global Geometry of Turbulence ★ The global geometry of turbulence. **93b:76001**
Nonlinear dynamics of structures ★ Nonlinear dynamics of structures. **93g:76004**
Numerical methods for the simulation of multi-phase and complex flow ★ Numerical methods for the simulation of multi-phase and complex flow.
Numerical simulation of unsteady flows and transition to turbulence ★ Numerical simulation of unsteady flows and transition to turbulence. **93e:76003**
Oxford ★ Twelfth International Conference on Numerical Methods in Fluid Dynamics. **93e:76002**
Parallel computational fluid dynamics ★ Parallel computational fluid dynamics. **93i:76004**
Proceedings:
  Conference on Numerical Methods in Fluid Mechanics ★ Proceedings of the Eighth GAMM-Conference on Numerical Methods in Fluid Mechanics. **93b:76002**
Rota ★ The global geometry of turbulence. **93b:76001**
Seattle, WA ★ Fluid dynamics in biology. **93j:76003**
Southampton ★ Boundary elements in fluid dynamics. **93i:76003**
Spatial structure of solutions to fluid equations ★ Ryūtai hōteishiki no kai no kūkanteki kōzō. (Japanese) [Spatial structure of solutions to fluid equations] **93g:76005**
Symposium:
  Fluid Mechanics of Stirring and Mixing ★ Symposium on Fluid Mechanics of Stirring and Mixing. **93j:76006**
  Generation of Large-scale Structures in Continuous Media ★ Nonlinear dynamics of structures. **93g:76004**
  Mathematical Aspects on Nonlinear Waves in Fluids ★ Ryūtai chū no hisenkei hadō no sūriteki sokumen. (Japanese) [Mathematical aspects on nonlinear waves in fluids] **93j:76005**
  Spatial Structure of Solutions to Fluid Equations ★ Ryūtai hōteishiki no kai no kūkanteki kōzō. (Japanese) [Spatial structure of solutions to fluid equations] **93g:76005**
Topological problems in fluid mechanics ★ Ryūtai rikigaku ni okeru toporojī no mondai. (Japanese) [Topological problems in fluid mechanics] **93d:76002**
Vladimir Maiakovskiĭ ★ Nonlinear dynamics of structures. **93g:76004**
Wave asymptotics ★ Wave asymptotics. **93b:76003**
Workshop:
  Instability, Transition, and Turbulence ★ Instability, transition, and turbulence. **93j:76004**
  Numerical Methods for the Simulation of Multi-Phase and Complex Flow ★ Numerical methods for the simulation of multi-phase and complex flow.
  Numerical Simulation of Unsteady Flows and Transition to Turbulence ★ Numerical simulation of unsteady flows and transition to turbulence. **93e:76003**

Items with secondary classifications in 76–06

(Aliabadi, M. Hosseini) *see* **Adaptive finite and boundary element methods, 93m:65005**
(Bar'yakhtar, V. G.) *see* **Nonlinear world, 93b:00012** *and* **93b:00013**
(Brebbia, C. A.) *see* **Adaptive finite and boundary element methods, 93m:65005**
(Chernousenko, V. M.) *see* **Nonlinear world, 93b:00012** *and* **93b:00013**
(Chung, T. J.) *see* **Finite elements in fluids, 93e:76050**
(Debnath, Lokenath) *see* **Nonlinear dispersive wave systems, 93f:00015**
(Eringen, A. Cemal) *see* **Eringen anniversary issue, 93e:00032**
(Erokhin, N. S.) *see* **Nonlinear world, 93b:00012** *and* **93b:00013**
(Garbey, Marc) *see* **Asymptotic and numerical methods for partial differential equations with critical parameters, 93m:65006**
(Heywood, J. G.) *see* **Navier-Stokes equations II—theory and numerical methods, 93m:00042**
(Idelsohn, Sergio R.) *see* **MECOM '91, 93i:00019**
(Kaper, Hans G.) *see* **Asymptotic and numerical methods for partial differential equations with critical parameters, 93m:65006**
(Masuda, Kyûya) *see* **Navier-Stokes equations II—theory and numerical methods, 93m:00042**

(Pieper, Gail W.) *see* **Asymptotic and numerical methods for partial differential equations with critical parameters, 93m:65006**
(Rautmann, R.) *see* **Navier-Stokes equations II—theory and numerical methods, 93m:00042**
(Rodrigues, José-Francisco) *see* **Mathematical topics in fluid mechanics, 93h:00019**
(Sequeira, A.) *see* **Mathematical topics in fluid mechanics, 93h:00019**
(Sitenko, A. G.) *see* **Nonlinear world, 93b:00012** *and* **93b:00013**
(Solonnikov, V. A.) *see* **Navier-Stokes equations II—theory and numerical methods, 93m:00042**
(Speziale, Charles G.) *see* **Eringen anniversary issue, 93e:00032**
(Zakharov, V. E.) *see* **Nonlinear world, 93b:00012** *and* **93b:00013**

Items listed otherwise than by author

Adaptive finite and boundary element methods ★ Adaptive finite and boundary element methods. **93m:65005**
Asymptotic and numerical methods for partial differential equations with critical parameters ★ Asymptotic and numerical methods for partial differential equations with critical parameters. **93m:65006**
Beaune ★ Asymptotic and numerical methods for partial differential equations with critical parameters. **93m:65006**
Birthday:
Eringen, A. Cemal ★ The Eringen anniversary issue. **93e:00032**
Conference:
Evolution Equations and Nonlinear Problems ★ Hatten hōteishiki to hisenkei mondai. [Evolution equations and nonlinear problems] **93m:35002**
Finite Element Methods in Flow Problems ★ Finite elements in fluids. Vol. 8. **93e:76050**
Navier-Stokes Equations ★ The Navier-Stokes equations II—theory and numerical methods. **93m:00042**
Nonlinear Dispersive Wave Systems ★ Nonlinear dispersive wave systems. **93f:00015**
Congress:
Computational Mechanics ★ MECOM '91. (Spanish) **93i:00019**
Computational Methods in Engineering ★ MECOM '91. (Spanish) **93i:00019**
Eringen anniversary issue ★ The Eringen anniversary issue. **93e:00032**
Evolution equations and nonlinear problems ★ Hatten hōteishiki to hisenkei mondai. [Evolution equations and nonlinear problems] **93m:35002**
Finite elements in fluids ★ Finite elements in fluids. Vol. 8. **93e:76050**
Huntsville, AL ★ Finite elements in fluids. Vol. 8. **93e:76050**
Kiev ★ Nonlinear world. Vol. 1. **93b:00012**
— ★ Nonlinear world. Vol. 2. **93b:00013**
Kozubnik ★ XIXth Biennial Symposium on Advanced Problems and Methods in Fluid Mechanics. **93d:00040**
Kyoto ★ Hatten hōteishiki to hisenkei mondai. [Evolution equations and nonlinear problems] **93m:35002**
Lecture Notes in Mathematics ★ The Navier-Stokes equations II—theory and numerical methods. **93m:00042**
Lisbon ★ Mathematical topics in fluid mechanics. **93h:00019**
Mathematical topics in fluid mechanics ★ Mathematical topics in fluid mechanics. **93h:00019**
MECOM '91 ★ MECOM '91. (Spanish) **93i:00019**
NATO Advanced Research Workshop:
Asymptotic-induced Numerical Methods for Partial Differential Equations, Critical Parameters, and Domain Decomposition ★ Asymptotic and numerical methods for partial differential equations with critical parameters. **93m:65006**
Navier-Stokes equations II—theory and numerical methods ★ The Navier-Stokes equations II—theory and numerical methods. **93m:00042**
Nonlinear dispersive wave systems ★ Nonlinear dispersive wave systems. **93f:00015**
Nonlinear world ★ Nonlinear world. Vol. 1. **93b:00012**
— ★ Nonlinear world. Vol. 2. **93b:00013**
Oberwolfach ★ The Navier-Stokes equations II—theory and numerical methods. **93m:00042**
Orlando, FL ★ Nonlinear dispersive wave systems. **93f:00015**
Paraná ★ MECOM '91. (Spanish) **93i:00019**
Santa Fe ★ MECOM '91. (Spanish) **93i:00019**
Special Issue:
Eringen anniversary ★ The Eringen anniversary issue. **93e:00032**
Symposium:
Advanced Problems and Methods in Fluid Mechanics ★ XIXth Biennial Symposium on Advanced Problems and Methods in Fluid Mechanics. **93d:00040**
Workshop:
Nonlinear and Turbulent Processes in Physics ★ Nonlinear world. Vol. 1. **93b:00012**
— ★ Nonlinear world. Vol. 2. **93b:00013**

76Axx Foundations, constitutive equations, rheology

76A02 Foundations of fluid mechanics

Belotskii, E. D. (*with* Migranov, N. G.; Tomchuk, P. M.) Applications of the Lie algebras to derivation of the generalized thermodynamic potentials. (*see* **93b:00013**)
Fierros Palacios, Ángel Balance equations for a viscous fluid based on a Hamilton-type variational principle. (Spanish. English and Spanish summaries) **93h:76004a**
— Errata: "Balance equations for a viscous fluid based on a Hamilton-type variational principle". (Spanish) **93h:76004b**
— Obtaining the differential field equations for potential flow via a Hamilton variational principle. (Spanish. English and Spanish summaries) **93j:76007**
Hills, R. N. (*with* Roberts, Paul H.) On the motion of a fluid that is incompressible in a generalized sense and its relationship to the Boussinesq approximation. **93a:76001**
Ichiyanagi, Masakazu Field-theoretic approach to hydrodynamics. I. The Clebsch transformation of the hydrodynamic equation. **93a:76002a**
— Field-theoretic approach to hydrodynamics. II. The superfluid hydrodynamics. **93a:76002b**
Marcov, Nicolae Sur l'écoulement stationnaire des fluides. (French summary) [On stationary fluid flow]
Migranov, N. G. *see* **Belotskii, E. D.; et al., (93b:00013)**
Novotný, Antonín Viscous multipolar fluids. Physical background and mathematical theory. (English summary) **93m:76001**
Peradzyński, Z. Differential forms and fluid dynamics. **93e:76004**
Roberts, Paul H. *see* **Hills, R. N., 93a:76001**
Tomchuk, P. M. *see* **Belotskii, E. D.; et al., (93b:00013)**
Tsarēv, S. P. Conservation laws and the Hamilton property of stationary equations of hydrodynamics. (Russian) (*see* **93d:58002**)

Items with secondary classifications in 76A02

Arnol'd, V. I. (*with* Khesin, B. A.) Topological methods in hydrodynamics. **93d:58020**
Cimmelli, Vito Antonio Structured adsorbing interface in phase transition of classical fluid mixtures. (English summary) **93j:82029**
Dobran, Flavio ★ Theory of structured multiphase mixtures. **93g:73024**
Ekiel-Jeżewska, Maria L. (*with* Turski, L. A.) Relativistic hydrodynamics. **93e:76070**
Foldes, Stephan Conditions for the separability of objects in two-dimensional velocity fields. (English summary) **93m:05079**
Fritz, J. Derivation of hydrodynamic equations from microscopic principles. **93d:82067**
Giovine, Pasquale (*with* Oliveri, Francesco) Wave features related to a model of compressible immiscible mixtures of two perfect fluids. (English summary) **93i:76072**
Gliklikh, Yu. E. Infinite-dimensional stochastic differential geometry in modern Lagrangian approach to hydrodynamics of viscous incompressible fluid. **93e:58195**
Jarić, Jovo P. On a transport theorem for moving interface. (English summary) **93j:73014**
Khesin, B. A. *see* **Arnol'd, V. I., 93d:58020**
Lachowicz, Mirosław Stochastic systems modelling the hydrodynamic equations. (*see* **93a:82002**)
Maugin, Gérard A. Thermomechanical equations of magnetic fluids. (English summary) **93h:76078**
Oliveri, Francesco *see* **Giovine, Pasquale, 93i:76072**
Rivlin, Ronald An isotropic elastic solid is a simple fluid! (Italian summary) **93b:73005**
Shugrin, S. M. Equations of dissipative Galilean and Lorentz hydrodynamics. (Russian. Russian summary) **93d:76080**
Truesdell, Clifford A., III ★ A first course in rational continuum mechanics. Vol. 1. **93g:73003**
Turski, L. A. *see* **Ekiel-Jeżewska, Maria L., 93e:76070**
Zeitlin, V. Yu. Finite-mode analogs of 2D ideal hydrodynamics: coadjoint orbits and local canonical structure. **93b:58059**

76A05 Non-Newtonian fluids

Amrouche, C. Sur une classe de fluides non newtoniens: les solutions aqueuses de polymères. (English and French summaries) [On a class of non-Newtonian fluids: aqueous polymer solutions] **93k:76004**
Bellout, Hamid (*with* Bloom, Frederick; Nečas, Jindřich) Phenomenological behavior of multipolar viscous fluids. (English summary) **93g:76006**
Bloom, Frederick *see* **Bellout, Hamid; et al., 93g:76006**
Brutyan, M. A. (*with* Krapivskiĭ, P. L.) Bernoulli theorem generalized to rheologically complex viscous fluid flow. (English summary)
Čadek, Ondřej (*with* Martinec, Zdeněk; Matyska, Ctirad) Spectral variational approach to the non-Newtonian Stokes problem in a spherical shell. (English summary) **93f:76002**
Comparini, Elena A one-dimensional Bingham flow. **93j:76008**
Desai, Trupti D. (*with* Kalthia, N. L.; Timol, M. G.) A note on some matrix aspects of generalized dimensional analysis. (English summary)
Easwaran, C. V. (*with* Majumdar, S. R.) Oseen flow past a split-plate in a micropolar fluid. (English summary)
Fasano, Antonio (*with* Primicerio, Mario; Rosso, F.) On quasi-steady axisymmetric flows of Bingham type with stress-induced degradation. (English and German summaries) **93j:76009**
Han, Shi Fang A variational method for research on an unsteady tube flow of upper-convected Maxwell fluid.
Kalthia, N. L. *see* **Desai, Trupti D.; et al.**
Kato, Yoshio On a Bingham fluid whose viscosity and yield limit depend on the temperature. **93j:76010**
Kochneva, T. V. A saddle point search algorithm in a problem on the plane motion of a nonlinearly viscous incompressible fluid. (Russian. Russian summary) (*see* **93g:00023**)
Kolkka, Robert W. *see* **Malkus, David S.; et al., (93e:76050)**
Krapivskiĭ, P. L. *see* **Brutyan, M. A.**
Lindsay, K. A. (*with* Straughan, Brian) Penetrative convection in a micropolar fluid. (English summary) **93g:76007**
Majumdar, S. R. *see* **Easwaran, C. V.**
Malkus, David S. (*with* Tsai, Yi-Cheng; Kolkka, Robert W.) New transient algorithms for non-Newtonian flows. (*see* **93e:76050**)
Martinec, Zdeněk *see* **Čadek, Ondřej; et al., 93f:76002**
Matyska, Ctirad *see* **Čadek, Ondřej; et al., 93f:76002**
Nečas, Jindřich *see* **Bellout, Hamid; et al., 93g:76006**
Pakdemirli, Mehmet (*with* Şuhubi, Erdoğan S.) Boundary layer theory for second order fluids. **93a:76003**
— (*with* Şuhubi, Erdoğan S.) Similarity solutions of boundary layer equations for second order fluids. **93b:76004**
Pascal, H. Similarity solutions to some unsteady flows of non-Newtonian fluids of power law behavior. (English summary) **93f:76003**
Primicerio, Mario *see* **Fasano, Antonio; et al., 93j:76009**
Rosso, F. *see* **Fasano, Antonio; et al., 93j:76009**
Straughan, Brian *see* **Lindsay, K. A., 93g:76007**
Şuhubi, Erdoğan S. *see* **Pakdemirli, Mehmet, 93a:76003** *and* **93b:76004**
Timol, M. G. *see* **Desai, Trupti D.; et al.**
Tsai, Yi-Cheng *see* **Malkus, David S.; et al., (93e:76050)**

Vuk, Elena An existence and uniqueness theorem for a viscous fluid with memory. (Italian. English summary) **93b:76005**

Wierzcholski, K. Estimation of solutions of basic equations for non-Newtonian fluid flow in a film between two nonrotational surfaces. **93d:76003**

Items with secondary classifications in 76A05

Azizov, Kh. F. Boundary regimes with peaking and localization in nonlinear non-Newtonian flow through porous media. (Russian) **93f:76092**

Bai, Dong Hua A free boundary problem governed by nonlinear degenerate equations of parabolic type. (English summary) **93g:35145**

Baranger, Jacques (*with* El Amri, Hassan) A posteriori error estimators for mixed finite element approximation of some quasi-Newtonian flows. (Portuguese summary) **93f:76065**

Boulanger, Ph. (*with* Hayes, Michael A.; Rajagopal, K. R.) Some unsteady exact solutions in the Navier-Stokes and the second grade fluid theories. (English summary) **93i:76022**

Crewther, I. (*with* Huilgol, R. R.; Jozsa, R.) Axisymmetric and nonaxisymmetric flows of a non-Newtonian fluid between coaxial rotating discs. **93a:76004**

Dement'ev, O. N. (*with* Karas', E. V.) Stability of the stretching of a rectangular band. (Russian) **93g:73059**

Deville, M. O. Chebyshev collocation solutions of flow problems. (English summary) (*see* **93d:65005**)

El Amri, Hassan *see* **Baranger, Jacques, 93f:76065**

Hayes, Michael A. *see* **Boulanger, Ph.; et al., 93i:76022**

Huilgol, R. R. *see* **Crewther, I.; et al., 93a:76004**

Jozsa, R. *see* **Crewther, I.; et al., 93a:76004**

Karas', E. V. *see* **Dement'ev, O. N., 93g:73059**

Kayumov, Sh. Construction of multiparametric two-dimensional mathematical models in the theory of the filtration of viscoplastic fluids. (Russian. Russian summary)

Kharrazova, I. R. *see* **Vidyakin, V. V.**

Legat, Vincent (*with* Marchal, Jean-Marie) Die design: an implicit formulation for the inverse problem. (English summary) **93i:76056**

Marchal, Jean-Marie *see* **Legat, Vincent, 93i:76056**

Mkrtychyan, P. Z. Uniqueness of the solution of the second initial-boundary value problem for an equation of non-Newtonian polytropic filtration. (Russian. English and Russian summaries) **93i:35075**

Nečas, Jindřich (*with* Novotný, Antonín; Šilhavý, Miroslav) Global solution to the compressible isothermal multipolar fluid. **93e:35089**

Novotný, Antonín (*with* Padula, Mariarosaria) On the stability of the rest state of compressible multipolar fluids. (English summary) **93k:76056**

— *see also* **Nečas, Jindřich; et al., 93e:35089**

Oskolkov, A. P. On the theory of the stability of solutions of semilinear dissipative equations of S. L. Sobolev type. (Russian. English and Russian summaries) **93i:34120**

Padula, Mariarosaria *see* **Novotný, Antonín, 93k:76056**

Pascal, H. Similarity solutions to some two-phase flows through porous media. (English summary) **93c:76078**

— *see also* **Pascal, J. P., 93k:76114**

Pascal, J. P. Similarity solutions for axisymmetric plane radial power law fluid flows through a porous medium. **93a:76103**

— (*with* Pascal, H.) Similarity solutions to some gravity flows of non-Newtonian fluids through a porous medium. (English summary) **93k:76114**

Phillips, Timothy N. Spectral domain decomposition techniques for viscous incompressible flows. (English summary) (*see* **93d:65005**)

— (*with* Roberts, Gareth W.) The treatment of spurious pressure modes in spectral incompressible flow calculations. (English summary) **93k:76090**

Plotnikov, P. I. Varifold solutions of a free boundary problem in viscous fluid dynamics. (*see* **93k:00036**)

Rajagopal, K. R. *see* **Boulanger, Ph.; et al., 93i:76022**

Ramos, J. I. Annular liquid jets: formulation and steady state analysis. (English and German summaries) **93j:76014**

Renardy, Michael A rigorous stability proof for plane Couette flow of an upper convected Maxwell fluid at zero Reynolds number. (English summary) **93g:76058**

Roberts, Gareth W. *see* **Phillips, Timothy N., 93k:76090**

Samokhin, V. N. Stationary problems of the magnetohydrodynamics of non-Newtonian media. (Russian. Russian summary) **93g:35116**

Šilhavý, Miroslav *see* **Nečas, Jindřich; et al., 93e:35089**

Vidyakin, V. V. (*with* Kharrazova, I. R.) On the solution of stationary problems of the filtration of a viscoplastic fluid with a variable initial gradient. (Russian. Russian summary)

Zhou, Mei Ke The first boundary value problem for two-dimensional stationary flow of incompressible non-Newtonian fluids. (Chinese. English summary) **93b:35115**

76A10 Viscoelastic fluids

Benharbit, A. M. (*with* Siddiqui, A. M.) Certain solutions of the equations of the planar motion of a second grade fluid for steady and unsteady cases. **93i:76005**

Brutyan, M. A. (*with* Krapivskii, P. L.) Intrinsic properties of some rheological models of a viscoelastic fluid. (Russian. Russian summary) **93g:76008**

— (*with* Krapivskii, P. L.) Unidirectional flows of viscoelastic fluids and their gasdynamic counterparts. (English summary) **93e:76005**

Ciarletta, M. (*with* Scarpetta, E.) On existence and uniqueness for viscoelastic compressible fluids. (English summary) **93g:76009**

Cook, L. Pamela (*with* Olagunju, D. O.; Schleiniger, G. F.) Viscoelastic fluid flow: critical parameters and asymptotics. (English summary) (*see* **93m:65006**)

Crewther, I. (*with* Huilgol, R. R.; Jozsa, R.) Axisymmetric and nonaxisymmetric flows of a non-Newtonian fluid between coaxial rotating discs. **93a:76004**

Grmela, Miroslav Mesoscopic dynamics and thermodynamics: applications to polymeric fluids. **93g:76010**

Huilgol, R. R. *see* **Crewther, I.; et al., 93a:76004**

Jongschaap, R. J. J. Towards a unified formulation of microrheological models. **93h:76005**

Joseph, Daniel D. Problems associated with the elasticity of liquids. **93g:76011**

Jozsa, R. *see* **Crewther, I.; et al., 93a:76004**

Krapivskii, P. L. *see* **Brutyan, M. A., 93e:76005** *and* **93g:76008**

Lupu, Mircea (*with* Postelnicu, Adrian) L'écoulement lent d'un fluide visqueux-élastique, visqueux-plastique dans un conduit annulaire ayant les parois ondulées. (Romanian summary) [Slow flow of a viscoplastic viscoelastic fluid in an annular duct with undulatory walls]

Man, Chi-Sing Nonsteady channel flow of ice as a modified second-order fluid with power-law viscosity. **93c:76001**

Olagunju, D. O. *see* **Cook, L. Pamela; et al., (93m:65006)**

Postelnicu, Adrian *see* **Lupu, Mircea**

Scarpetta, E. *see* **Ciarletta, M., 93g:76009**

Schleiniger, G. F. *see* **Cook, L. Pamela; et al., (93m:65006)**

Siddiqui, A. M. *see* **Benharbit, A. M., 93i:76005**

Items with secondary classifications in 76A10

Agranovich, Yu. Ya. (*with* Sobolevskiĭ, P. E.) Motion of a nonlinear viscoelastic fluid. (Russian) **93d:35126**

Andersson, H. I. MHD flow of a viscoelastic fluid past a stretching surface. (English summary)

Baaijens, Frank P. T. A U-ALE formulation of 3-D unsteady viscoelastic flow. (English summary) **93m:76057**

Baranger, Jacques (*with* Sandri, D.) A formulation of Stokes's problem and the linear elasticity equations suggested by the Oldroyd model for viscoelastic flow. (French summary) **93a:73051**

Buggisch, H. (*with* Mazilu, P.; Weber, H.) Identifizierung des Zustandsparameters für viskoelastiche Materialien. I. (English summary) [Identification of the state parameter for viscoelastic materials. I] **93j:73033**

Carneiro de Araújo, J. H. *see* **Ruas, V., 93a:76068**

Caviglia, G. (*with* Morro, Angelo) Energy flux in dissipative media. **93c:73015**

Chen, Da Rong A lubrication solution to the Prandtl-Eyring constitutive equation. (Chinese. English and Chinese summaries) **93i:76028**

Chiujdea, Cornelia (*with* Georgescu, Adelina; Florea, Răzvan) Linear stability of a turbulent flow of Maxwell fluids in pipes. (English summary) **93h:76039**

Fabrizio, Mauro Stability properties for systems with memory. (Italian. English summary) **93a:73033**

— (*with* Morro, Angelo) ★ Mathematical problems in linear viscoelasticity. **93a:73034**

Fairweather, Graeme *see* **Yan, Yi, 93c:65130**

Fetecău, Constantin Thermal influence on the propagation of cylindrical waves in simple fluids. (Romanian) **93a:76034**

Florea, Răzvan *see* **Chiujdea, Cornelia; et al., 93h:76039**

Georgescu, Adelina *see* **Chiujdea, Cornelia; et al., 93h:76039**

Mazilu, P. *see* **Buggisch, H.; et al., 93j:73033**

Morro, Angelo Thermodynamics of linear viscoelasticity. **93b:73023**

— *see also* **Fabrizio, Mauro, 93a:73034** *and* **Caviglia, G., 93c:73015**

Oskolkov, A. P. (*with* Shadiev, R. D.) Nonlocal problems in the theory of equations of motion for Kelvin-Voigt fluids. (Russian. English summary) **93d:35130**

— (*with* Shadiev, R. D.) Nonlocal problems in the theory of equations of motion for Kelvin-Voigt fluids. II. (Russian) **93d:35131**

— Nonlocal problems for a class of nonlinear operator equations that arise in the theory of equations of S. L. Sobolev type. (Russian. English summary) **93e:35064**

Ruas, V. (*with* Carneiro de Araújo, J. H.) An improved method for the simulation of viscoelastic flow with quadrilateral finite elements. (Spanish. English summary) **93a:76068**

Sandri, D. *see* **Baranger, Jacques, 93a:73051**

Shadiev, R. D. *see* **Oskolkov, A. P., 93d:35130** *and* **93d:35131**

Šilhavý, Miroslav Multipolar viscoelastic materials and the symmetry of the coefficients of viscosity. (English and Czech summaries) **93e:73003**

Sobolevskiĭ, P. E. *see* **Agranovich, Yu. Ya., 93d:35126**

Weber, H. *see* **Buggisch, H.; et al., 93j:73033**

Yan, Yi (*with* Fairweather, Graeme) Orthogonal spline collocation methods for some partial integrodifferential equations. **93c:65130**

76A15 Liquid crystals [see also 82D30]

Blenk, Stefan (*with* Ehrentraut, Harald; Muschik, Wolfgang) Macroscopic constitutive equations for liquid crystals induced by their mesoscopic orientation distribution.

Carlsson, T. *see* **Leslie, F. M.; et al., 93m:76003**

Coleman, Bernard D. A survey of results on the loss of regularity of shearing flows of viscoelastic fluids. (English summary) (*see* **93g:00030**)

Decker, W. *see* **Pesch, W.; et al., (93d:58007)**

Ehrentraut, Harald *see* **Blenk, Stefan; et al.**

Eringen, A. Cemal An assessment of director and micropolar theories of liquid crystals. (English summary) **93m:76002**

Feng, Q. *see* **Pesch, W.; et al., (93d:58007)**

Guazzelli, E. The motion of defects in convective structures of the elliptical shear instability of a nematic. (English summary) (*see* **93d:58007**)

Hunter, John K. (*with* Saxton, Ralph) Dynamics of director fields. **93a:76005**

Joets, A. (*with* Ribotta, R.; Yang, X. D.) Defects of stationary convective structures in a nematic. (English summary) (*see* **93d:58007**)

— *see also* **Ribotta, R., 93e:76007**

Kaiser, M. *see* **Pesch, W.; et al., (93d:58007)**

Kramer, Lorenz *see* **Pesch, W.; et al., (93d:58007)**

Laverty, J. S. *see* **Leslie, F. M.; et al., 93m:76003**

Leslie, F. M. Flow-induced instabilities in nematic liquid crystals. (English summary) **93e:76006**

— Continuum theory for nematic liquid crystals. (English summary) **93f:76004**

— (*with* Laverty, J. S.; Carlsson, T.) Continuum theory for biaxial nematic liquid crystals. (English summary) **93m:76003**

MacMillan, Ernest H. On the hydrodynamics of biaxial nematic liquid crystals. I. General theory. **93f:76005a**

— On the hydrodynamics of biaxial nematic liquid crystals. II. Steady-state analysis. **93f:76005b**
Muschik, Wolfgang *see* **Blenk, Stefan; et al.**
Olaosebikan, O. Equilibrium states of a hyperelastic subfluid. (English, Russian and Polish summaries) **93g:76012**
Ou, Biao Uniqueness of $x/|x|$ as a stable configuration in liquid crystals. **93a:76006**
Pesch, W. (*with* Decker, W.; Feng, Q.; Kaiser, M.; Kramer, Lorenz; Weber, A.) Weakly nonlinear analysis of pattern formation in nematic liquid crystals. (*see* **93d:58007**)
Ribotta, R. (*with* Joets, A.) Defects of nonlinear waves in the convection of a nematic liquid crystal. (English summary) **93e:76007**
— *see also* **Joets, A.; et al.,** (**93d:58007**)
Roccato, Diego (*with* Virga, Epifanio G.) Drops of nematic liquid crystal floating on a fluid. **93f:76006**
Saxton, Ralph *see* **Hunter, John K., 93a:76005**
Virga, Epifanio G. Defects in nematic liquid crystals with variable degree of orientation. (English summary) **93j:76011**
— *see also* **Roccato, Diego, 93f:76006**
Walgraef, D. External forcing of liquid crystal instabilities. (English summary) **93e:76008**
Weber, A. *see* **Pesch, W.; et al.,** (**93d:58007**)
Yang, X. D. *see* **Joets, A.; et al.,** (**93d:58007**)
Zimmermann, Walter On travelling waves in electrohydrodynamic convection in nematics. **93g:76013**

Items with secondary classifications in 76A15

Atkinson, Colin (*with* Sherwood, J. D.) The torque on a rotating n-bladed vane in a Newtonian fluid or linear elastic medium. **93c:73077**
Baranger, Jacques (*with* Sandri, D.) Finite element approximation of viscoelastic fluid flow: existence of approximate solutions and error bounds. I. Discontinuous constraints. (English summary) **93k:65090**
Bethuel, Fabrice (*with* Brézis, Haïm; Coleman, Bernard D.; Hélein, Frédéric) Bifurcation analysis of minimizing harmonic maps describing the equilibrium of nematic phases between cylinders. **93h:49059**
Brézis, Haïm *see* **Bethuel, Fabrice; et al., 93h:49059**
Calderer, Maria Carme On the mathematical modeling of textures in polymeric liquid crystals. (English summary) **93f:58058**
Carlsson, T. *see* **Leslie, F. M.; et al., 93f:73005**
Chi, Dong Pyo (*with* Park, Gie Hyun) Weak-stability of $x/\|x\|$ and symmetries of liquid crystals. **93h:58036**
Cladis, P. E. Taylor-Couette instability in nematic liquid crystals. (English summary) (*see* **93d:58007**)
Cohen, Robert Adam (*with* Luskin, Mitchell) Field-induced instabilities in nematic liquid crystals. (English summary) **93k:58055**
Coleman, Bernard D. (*with* Jenkins, James T.) On a class of solutions in the theory of nematic phases. (English summary) **93h:58037**
— *see also* **Bethuel, Fabrice; et al., 93h:49059**
(Coron, Jean-Michel) *see* **Nematics, 93d:58007**
Demengel, F. (*with* Hadiji, Rejeb) Relaxed energies for functionals on $W^{1,1}(B^2, S^1)$. **93h:58038**
Eremeev, V. A. (*with* Zubov, L. M.) Conditions for phase equilibrium in non-linearly elastic media with microstructure. (Russian) **93c:73011**
Ericksen, J. L. ★ Introduction to the thermodynamics of solids. **93d:73010**
Eringen, A. Cemal Continuum theory of microstretch liquid crystals. (English summary) **93k:73011**
(Ghidaglia, Jean-Michel) *see* **Nematics, 93d:58007**
Giaquinta, M. (*with* Modica, G.; Souček, Jiří) Cartesian currents and liquid crystals: dipoles, singular lines and singular points. (English summary) **93h:49062**
Hadiji, Rejeb *see* **Demengel, F., 93h:58038**
Hélein, Frédéric *see* **Bethuel, Fabrice; et al., 93h:49059** *and* **Nematics, 93d:58007**
Holz, Arno Topological properties of static and dynamic defect configurations in ordered liquids. **93d:82080**
Jenkins, James T. *see* **Coleman, Bernard D., 93h:58037**
Kramer, Lorenz *see* **Silber, Mary; et al., 93j:58098**
Leslie, F. M. (*with* Stewart, I. W.; Carlsson, T.; Nakagawa, Masahiro) Equivalent smectic C liquid crystal energies. **93f:73005**
Lin, Fang-Hua Nematic liquid crystals with variable degree of orientation. **93i:58031**
— Static and moving defects in liquid crystals. **93b:58032**
Luskin, Mitchell *see* **Cohen, Robert Adam, 93k:58055**
Mizel, Victor J. (*with* Roccato, Diego; Virga, Epifanio G.) A variational problem for nematic liquid crystals with variable degree of orientation. **93g:58033**
Modica, G. *see* **Giaquinta, M.; et al., 93h:49062**
Nakagawa, Masahiro *see* **Leslie, F. M.; et al., 93f:73005**
Park, Gie Hyun *see* **Chi, Dong Pyo, 93h:58036**
Pismen, L. M. (*with* Rubinstein, Jacob) Dynamics of disclinations in liquid crystals. **93h:73008**
Riecke, Hermann *see* **Silber, Mary; et al., 93j:58098**
Roccato, Diego (*with* Virga, Epifanio G.) On plane defects in nematic liquid crystals with variable degree of orientation. **93g:82103**
— *see also* **Mizel, Victor J.; et al., 93g:58033**
Rubinstein, Jacob *see* **Pismen, L. M., 93h:73008**
Sandri, D. *see* **Baranger, Jacques, 93k:65090**
Sherwood, J. D. *see* **Atkinson, Colin, 93c:73077**
Silber, Mary (*with* Riecke, Hermann; Kramer, Lorenz) Symmetry-breaking Hopf bifurcation in anisotropic systems. (English summary) **93j:58098**
Souček, Jiří *see* **Giaquinta, M.; et al., 93h:49062**
Stewart, I. W. *see* **Leslie, F. M.; et al., 93f:73005**
Virga, Epifanio G. *see* **Mizel, Victor J.; et al., 93g:58033** *and* **Roccato, Diego, 93g:82103**
Zubov, L. M. *see* **Eremeev, V. A., 93c:73011**

Items listed otherwise than by author

NATO Advanced Research Workshop:
Defects, Singularities and Patterns in Nematic Liquid Crystals: Mathematical and Physical Aspects ★ Nematics. **93d:58007**
Nematics ★ Nematics. **93d:58007**
Orsay ★ Nematics. **93d:58007**

76A99 None of the above, but in this section

Bradley, N. J. *see* **Spencer, A. J. M., 93k:76005**
Brancher, J.-P. *see* **Séro-Guillaume, O. E., 93b:76006**
(Casas-Vázquez, J.) *see* **Rheological modelling: thermodynamical and statistical approaches, 93c:76002**
Giovine, Pasquale Note on the constitutive equations for superfluid helium. (Italian. Italian summary) **93g:76014**
Hull, B. D. (*with* Rogers, T. G.; Spencer, A. J. M.) Controllable flows of ideal fibre-reinforced fluids.
(Jou, D.) *see* **Rheological modelling: thermodynamical and statistical approaches, 93c:76002**
Kytömaa, H. K. (*with* Schmid, Peter J.) On the collision of rigid spheres in a weakly compressible fluid. (English summary) **93h:76006**
McNamara, Sean (*with* Young, W. R.) Kinetics of a one-dimensional granular medium in the quasielastic limit. (English summary) **93i:76006**
Rogers, T. G. *see* **Hull, B. D.; et al.**
Schmid, Peter J. *see* **Kytömaa, H. K., 93h:76006**
Séro-Guillaume, O. E. (*with* Brancher, J.-P.) Hamiltonian formulation for shaping problems. **93b:76006**
Spencer, A. J. M. (*with* Bradley, N. J.) Gravity flow of a granular material in compression between vertical walls and through a tapering vertical channel. (English summary) **93k:76005**
— *see also* **Hull, B. D.; et al.**
Young, W. R. *see* **McNamara, Sean, 93i:76006**

Items listed otherwise than by author

Lecture Notes in Physics ★ Rheological modelling: thermodynamical and statistical approaches. **93c:76002**
Meeting:
Rheological Modelling: Thermodynamical and Statistical Approaches ★ Rheological modelling: thermodynamical and statistical approaches. **93c:76002**
Rheological modelling: thermodynamical and statistical approaches ★ Rheological modelling: thermodynamical and statistical approaches. **93c:76002**
San Feliu de Guíxols ★ Rheological modelling: thermodynamical and statistical approaches. **93c:76002**

Items with secondary classifications in 76A99

(Allegra, Giuseppe) *see* **de Gennes, Pierre-Gilles, 93i:82084**
Auriault, J.-L. (*with* He, S.) Liquid phase sintering: rearrangement and densification. (English summary) **93k:73010**
Banfi, Carlo ★ Introduzione alla meccanica dei continui. (Italian) [Introduction to continuum mechanics] **93e:73007**
Binz, E. Global differential geometric methods in elasticity and hydrodynamics. (English summary) **93f:58057**
Buttke, Thomas F. Turbulence and vortices in superfluid helium. (*see* **93f:76078**)
Dinariev, O. Yu. Some singularities of the curve of pressure reconstruction in the case of relaxation filtration of a fluid. (Russian) **93a:76099**
Entov, V. M. (*with* Ètingof, P. I.) Some exact solutions of the thin-sheet stamping problem. (Russian. Russian summary) **93i:76029**
Ètingof, P. I. *see* **Entov, V. M., 93i:76029**
Gardner, Carl L. *see* **Wang, Feng; et al., 93c:73040**
de Gennes, Pierre-Gilles ★ Introduction to polymer dynamics. **93i:82084**
Gol'dshtein, R. V. (*with* Mosolov, A. B.) Flows of fractal-crushed ice. (Russian)
Griewank, A. *see* **Rabier, P. J., 93h:58019**
Gurtin, Morton E. (*with* Soner, H. Mete) Some remarks on the Stefan problem with surface structure. **93d:35181**
He, S. *see* **Auriault, J.-L., 93k:73010**
Hoover, Carol G. *see* **Hoover, William G.; et al., 93c:82032**
Hoover, William G. (*with* Posch, Harald A.; Hoover, Carol G.) Fractal dimension of steady nonequilibrium flows. **93c:82032**
Hu, Howard H. (*with* Joseph, Daniel D.) Miscible displacement in a Hele-Shaw cell. (English summary) **93c:76025**
Jongschaap, R. J. J. Towards a unified formulation of microrheological models. **93h:76005**
Joseph, Daniel D. *see* **Hu, Howard H., 93c:76025**
Kadanoff, Leo P. Scaling and multiscaling (fractals and multifractals). **93c:82076**
Kamin, Shoshana (*with* Peletier, L. A.; Vázquez, Juan Luis) On the Barenblatt equation of elastoplastic filtration. **93b:35117**
Kriĭ, S. I. First integrals of the equations of suspension dynamics. (Russian. Russian summary) **93i:76091**
La, HoSeong Geometric Liouville gravity. **93g:81158**
Liu, Ko-Fei (*with* Mei, Chiang C.) Long waves in shallow water over a layer of Bingham-plastic fluid-mud. I. Physical aspects. (English summary) **93i:86001a**
— (*with* Mei, Chiang C.) Long waves in shallow water over a layer of Bingham-plastic fluid-mud. II. Mathematical derivation of long wave equations. (English summary) **93i:86001b**
Loper, D. E. A nonequilibrium theory of a slurry. (English summary) **93g:76108**
Málek, Josef (*with* Nečas, Jindřich; Novotný, Antonín) Measure-valued solutions and asymptotic behavior of a multipolar model of a boundary layer. **93h:35159**
Marcati, Pierangelo (*with* Milani, Albert J.) Fluid flow in macromolecular systems and related perturbation problems. (English and French summaries) **93h:35167**
Mei, Chiang C. *see* **Liu, Ko-Fei, 93i:86001a** *and* **93i:86001b**
Milani, Albert J. *see* **Marcati, Pierangelo, 93h:35167**
Morland, L. W. Compaction and shear settlement of granular materials. (English summary) **93k:73036**

Morro, Angelo (*with* Straughan, Brian) Equations for reacting viscous fluids near chemical equilibrium. **93a:76095**
Mosolov, A. B. *see* **Gol'dshtein, R. V.**
Nasilowski, Ralf A cellular-automaton fluid model with simple rules in arbitrarily many dimensions. **93a:76080**
Nečas, Jindřich *see* **Málek, Josef; et al., 93h:35159**
Novotný, Antonín Viscous multipolar fluids. Physical background and mathematical theory. (English summary) **93m:76001**
— *see also* **Málek, Josef; et al., 93h:35159**
Peletier, L. A. *see* **Kamin, Shoshana; et al., 93b:35117**
Posch, Harald A. *see* **Hoover, William G.; et al., 93c:82032**
Rabier, P. J. (*with* Griewank, A.) Generic aspects of convexification with applications to thermodynamic equilibrium. **93h:58019**
Schaeffer, David G. *see* **Wang, Feng; et al., 93c:73040**
Soner, H. Mete *see* **Gurtin, Morton E., 93d:35181**
Straughan, Brian *see* **Morro, Angelo, 93a:76095**
Vázquez, Juan Luis *see* **Kamin, Shoshana; et al., 93b:35117**
Wang, Feng (*with* Gardner, Carl L.; Schaeffer, David G.) Steady-state computations of granular flow in an axisymmetric hopper. **93c:73040**

76Bxx Incompressible inviscid fluids, potential theory

76B05 Airfoil theory

Al-Hawaj, A. Y. (*with* Essawy, A. H.) The optimum shape of an hydrofoil with no cavitation. (English summary) **93m:76004**
Aristova, E. Yu. Construction of wing profiles with suction and blast that can be modeled by point singularities. (Russian)
Avkhadiev, F. G. Conditions for the univalence of the solution in problems of constructing wing profiles. (Russian) **93g:76015**
Bena, D. Influence of small local deformations on an airfoil profile. (Romanian. Romanian summary)
Christov, Christo Ivanov *see* **Todorov, Mikhail, 93m:76005**
Elizarov, A. M. (*with* Il'inskiĭ, A. N.; Il'inskii, N. B.; Potashev, A. V.; Fokin, D. A.) Aerohydrodynamically appropriate velocity distributions in inverse boundary value problems of subsonic aerohydrodynamics. (Russian)
Essawy, A. H. *see* **Al-Hawaj, A. Y., 93m:76004**
Filippov, S. I. *see* **Lotfullin, M. V., 93j:76012**
Fokin, D. A. *see* **Elizarov, A. M.; et al.**
Homentcovschi, Dorel Generalised operational method applied to the lifting surface theory. (English summary) **93k:76006**
Il'inskiĭ, A. N. *see* **Elizarov, A. M.; et al.**
Il'inskii, N. B. *see* **Elizarov, A. M.; et al.**
Lifanov, I. K. (*with* Matveev, A. F.; Molyakov, I. M.) Flow around permeable and thick airfoils and numerical solution of singular integral equations. **93e:76009**
Lotfullin, M. V. (*with* Filippov, S. I.) Modeling of interfaces in problems on the flow of a heavy fluid around a wing profile. (Russian) **93j:76012**
Matveev, A. F. *see* **Lifanov, I. K.; et al., 93e:76009**
Molyakov, I. M. *see* **Lifanov, I. K.; et al., 93e:76009**
Potashev, A. V. *see* **Elizarov, A. M.; et al.**
Prössdorf, Siegfried (*with* Tordella, D.) On an extension of Prandtl's lifting line theory to curved wings. **93b:76007**
Rienstra, S. W. A note on the Kutta condition in Glauert's solution of the thin aerofoil problem. **93g:76016**
Todorov, Mikhail (*with* Christov, Christo Ivanov) Application of a model of inviscid separation in the study of the flow around airfoils. (Russian. English and Russian summaries) **93m:76005**
Tordella, D. *see* **Prössdorf, Siegfried, 93b:76007**

Items with secondary classifications in 76B05

Bassanini, P. (*with* Lancia, M. R.) Boundary integral equations of the first kind for planar vector fields in multiply connected domains. **93d:45010**
Lancia, M. R. *see* **Bassanini, P., 93d:45010**
Lotfullin, M. V. Interaction of profiles near the free surface of a heavy fluid. (Russian)
Matveev, A. F. (*with* Molyakov, N. M.) On the numerical solution of integral equations of the aerodynamics of permeable surfaces. (Russian) **93c:76068**
Molyakov, N. M. *see* **Matveev, A. F., 93c:76068**
Shalov, V. I. A boundary layer on thin wings of low aspect ratio. (Russian) **93c:76021**
Wu, L. Y. *see* **Zhu, Z. Q.; et al.**
Xia, Z. X. *see* **Zhu, Z. Q.; et al.**
Zhu, Z. Q. (*with* Xia, Z. X.; Wu, L. Y.) An inverse method with regularity condition for transonic airfoil design. (English summary)

76B10 Jets and cavities, cavitation, free-streamline theory, water-entry problems, hydrofoil theory, sloshing

Basin, M. A. (*with* Lordkipanidze, A. N.; Tkach, A. Ya.) Hydrodynamic characteristics of a carrying complex that moves near the free surface of a heavy fluid. (Russian) **93j:76013**
Boulton-Stone, J. M. A comparison of boundary integral methods for studying the motion of a two-dimensional bubble in an infinite fluid. (English summary) **93k:76007**
Carabineanu, Adrian (*with* Dragoş, Lazăr; Oprea, Iuliana) The linearized theory for submerged thin hydrofoil of infinite span. (English, Russian and Polish summaries) **93g:76017**
Davis, A. M. J. Discussion related to E. B. B. Watson and D. V. Evans: "Resonant frequencies of a fluid in containers with internal bodies" [J. Engrg. Math. **25** (1991), no. 2, 115–135; MR 91m:76020]. (English summary) **93g:76018**
Dragoş, Lazăr *see* **Carabineanu, Adrian; et al., 93g:76017**
Euvrard, Daniel (*with* Lenoir, Marc André) About nonhomogeneous free-surface conditions in hydrodynamics and underwater acoustics. **93a:76007**
Evans, D. V. (*with* Linton, C. M.) Sloshing frequencies. (English summary) **93m:76006**
— *see also* **Davis, A. M. J., 93g:76018**
Forbes, Lawrence K. (*with* Hocking, Graeme C.) Flow induced by a line sink in a quiescent fluid with surface-tension effects. (English summary) **93k:76009**
Gabov, S. A. The Cauchy-Poisson problem in the theory of a floating liquid. (Russian. Russian summary) (*see* **93m:00034**)
Hocking, Graeme C. Flow from a vertical slot into a layer of finite depth. **93b:76008**
— *see also* **Forbes, Lawrence K., 93k:76009**
Jin, Fu Sheng Variational principles for hydrodynamic impact problems. (Chinese. English and Chinese summaries)
Khmel'nik, M. I. A mathematical model of flow on multiply connected and multisheeted surfaces. (Russian) (*see* **93m:00036**)
Kiselëv, O. M. *see* **Validova, Z. N., 93j:76015**
Kuznetsov, N. G. A lower bound on the sloshing frequencies of two-dimensional oscillations of a fluid in a channel. (Russian. Russian summary) **93g:76019**
Landweber, Louis Properties of the Neumann kernel and interior irrotational flow for a nearly closed surface. **93c:76003**
Lenoir, Marc André *see* **Euvrard, Daniel, 93a:76007**
Linton, C. M. *see* **Evans, D. V., 93m:76006**
Lordkipanidze, A. N. *see* **Basin, M. A.; et al., 93j:76013**
Marchi, Enrico The nappe profile of a free overfall. (Italian summary) **93c:76004**
Mekias, Hocine (*with* Vanden-Broeck, Jean-Marc) Free-surface flow due to a source submerged in a fluid of infinite depth with two stagnant regions. (English summary) **93k:76008**
Miloh, Touvia Hydrodynamic self-propulsion of deformable bodies and oscillating bubbles. **93a:76008**
Newman, J. N. The approximation of free-surface Green functions. (*see* **93b:76003**)
Nigam, Rakesh (*with* Nigam, S. D.) A constructive proof of Weiss's sphere theorem.
Nigam, S. D. *see* **Nigam, Rakesh**
Oprea, Iuliana *see* **Carabineanu, Adrian; et al., 93g:76017**
Ramos, J. I. Annular liquid jets: formulation and steady state analysis. (English and German summaries) **93j:76014**
Shlaustas, R. Yu. A new solution for the potential of a source under a free surface of a heavy fluid. (Russian. Russian summary) **93e:76010**
Tkach, A. Ya. *see* **Basin, M. A.; et al., 93j:76013**
Tuck, E. O. Analytic aspects of slender body theory. **93i:76007**
Validova, Z. N. (*with* Kiselëv, O. M.) A problem of the interaction of two plane jets with different total pressures. (Russian) **93j:76015**
Vanden-Broeck, Jean-Marc Two-dimensional jet aimed vertically upwards. (English summary) **93m:76007**
— *see also* **Mekias, Hocine, 93k:76008**
(Watson, E. B. B.) *see* **Davis, A. M. J., 93g:76018**
Wehausen, John V. Causality and the radiation condition. **93a:76009**

Items with secondary classifications in 76B10

Boulton-Stone, J. M. A two-dimensional bubble near a free surface. (English summary) **93i:76021**
Brancher, J.-P. *see* **Séro-Guillaume, O. E., 93b:76006**
Capodanno, Pierre Sur le mouvement d'un pendule à suspension élastique contenant un liquide. [On the motion of an elastically suspended pendulum containing a fluid] **93f:73079**
Fitt, A. D. *see* **Wilmott, P., 93i:76030**
Gurevich, I. I. Capillary waves on the surface of an axisymmetric jet. (Russian) **93h:76010**
Kalashnikov, V. V. (*with* Kostornoĭ, S. D.) A numerical method for solving a problem on the flow of an ideal fluid around arbitrarily distributed bodies. (Russian) **93d:76049**
Korobitsyn, V. A. Numerical modeling of axisymmetric potential flows of an incompressible fluid. (Russian. English summary) **93a:76072**
Korobkin, A. A. Acoustic approximation in the problem of the immersion of a blunt contour in an ideal fluid. (Russian) **93j:76049**
Kostornoĭ, S. D. *see* **Kalashnikov, V. V., 93d:76049**
Séro-Guillaume, O. E. (*with* Brancher, J.-P.) Hamiltonian formulation for shaping problems. **93b:76006**
Sigurdsson, S. Treatment of the convective term in staggered finite element schemes for shallow water flow. (*see* **93g:76002**)
Vanden-Broeck, Jean-Marc Gravity-capillary free surface flows. (English summary) **93k:76019**
Wilmott, P. (*with* Fitt, A. D.) A composite cavity model for axisymmetric high Reynolds number separated flow. I. Modelling and analysis. (English summary) **93i:76030**

76B15 Water waves, gravity waves; dispersion and diffraction, nonlinear interaction [see also 35Q53]

Aleshkov, Yu. Z. Waves on the surface of a heavy fluid. (Russian) **93f:76007**
Arsen'ev, S. A. (*with* Gubar', A. Yu.; Rykunov, L. N.; Shelkovnikov, N. K.) On the effect of frequency division in spectra of surface gravitational waves. (Russian)
Baesens, Claude (*with* MacKay, Robert S.) Uniformly travelling water waves from a dynamical systems viewpoint: some insights into bifurcations from Stokes' family. (English summary) **93h:76007**
Banerjea, Sudeshna (*with* Mandal, B. N.) On waves due to rolling of a vertical plate. (English summary) **93g:76020**
— *see also* **Mandal, B. N., 93j:76017**
Basu, Uma (*with* Tripathi, Usha) The generation of tsunamis at inertial surface. (English summary) **93k:76010**
— *see also* **Mandal, Samiran**
Becker, Janet M. (*with* Miles, John W.) Progressive radial cross-waves. (English summary) **93k:76011**
Benilov, E. S. On the surface waves in a shallow channel with an uneven bottom. **93b:76009**
Bennett, G. S. *see* **McIver, P., 93i:76014**

Bestuzheva, A. N. (*with* Dorfman, A. A.) Wave motions of a fluid over an inclined bottom that are caused by a moving pressure system. (Russian) **93a:76010**

Camassa, Roberto Multiple stationary solutions for the forced KdV equation. **93a:76011**

Capodanno, Pierre Un exemple simple de problème non standard de vibration: oscillations d'un liquide hétérogène pesant dans un container. [A simple example of a nonstandard vibration problem: oscillations of a heavy heterogeneous fluid in a container]

Caponi, E. A. (*with* Caponi, M. Z.; Saffman, P. G.; Yuen, H. C.) A simple model for the effect of water shear on the generation of waves by wind. **93d:76004**

Caponi, M. Z. *see* **Caponi, E. A.; et al., 93d:76004**

Chakrabarti, Aloknath (*with* Vijaya Bharathi, L.) A new approach to the problem of scattering of water waves by vertical barriers. (English, German and Russian summaries) **93i:76008**

Chamberlain, P. G. Wave scattering over uneven depth using the mild-slope equation. (English summary)

Chau, F. P. (*with* Eatock Taylor, R.) Second-order wave diffraction by a vertical cylinder. (English summary) **93d:76005**

Chekhlov, V. I. A connection between problems on internal and surface waves. (Russian) (*see* **93m:00036**)

Chen, Yan Sheng *see* **Zhou, Qing Fu, 93d:76010**

Chen, Yao Song *see* **Wu, Jian Hua[1], 93a:76014**

Ch'ên, Yü I *see* **Hsu, J. R.-C., 93i:76010**

Cho, Yong-Sik *see* **Liu, Philip L.-F.; et al., (93f:00015)**

Craig, Walter (*with* Sternberg, Peter) Comparison principles for free-surface flows with gravity. **93f:76008**

— (*with* Sternberg, Peter) Symmetry of free-surface flows. **93c:76005**

— (*with* Sulem, C.; Sulem, Pierre-Louis) Nonlinear modulation of gravity waves: a rigorous approach. **93k:76012**

Crawford, John David Normal forms for driven surface waves: boundary conditions, symmetry, and genericity. **93a:76012**

Dalrymple, Robert A. (*with* Martin, Paul Andrew) Perfect boundary conditions for parabolic water-wave models. (English summary) **93d:76006**

Dorfman, A. A. *see* **Bestuzheva, A. N., 93a:76010**

Drennan, W. M. (*with* Hui, W. H.; Tenti, G.) Accurate calculations of Stokes water waves of large amplitude. (French summary) **93b:76010**

Eatock Taylor, R. *see* **Chau, F. P., 93d:76005**

Eckhaus, Wiktor On water waves at Froude number slightly higher than one and Bond number less than $\frac{1}{3}$. **93f:76009**

Evans, D. V. Vertical barriers, sloping beaches and submerged bodies. (*see* **93b:76003**)

— *see also* **Linton, C. M., 93f:76012**

Evtimov, Stiliyan N. Nonlinear inertial-gravitational waves in equatorial regions. (Bulgarian. English and Russian summaries)

Filipp, K. V. *see* **Mustyatsè, A. F., 93f:76014**

Forbes, Lawrence K. *see* **Hocking, Graeme C., 93g:76021**

Funakoshi, Mitsuaki (*with* Inoue, Susumu) Bifurcations and chaos in resonantly forced water waves. (English summary) (*see* **93f:00015**)

Gerber, Marius The interaction of deep-water gravity waves and an annular current: linear theory. (English summary) **93k:76013**

Grigor, O. È. (*with* Tverskoi, M. B.) Investigation of capillary-gravity waves of finite amplitude on the surface of a floating fluid. (Russian. Russian summary) **93i:76009**

Grimshaw, R. H. J. Nonlinear waves in fluids—the KdV paradigm. **93b:76011**

— Resonant forcing of nonlinear dispersive waves. (English summary) **93h:76008**

Groves, Mark D. Hamiltonian long-wave approximations for water waves in a uniform channel. (English summary) **93h:76009**

Gubar', A. Yu. *see* **Arsen'ev, S. A.; et al.**

Gundersen, Roy M. The evolution of packets of surface waves. (English summary) **93m:76008**

Gurevich, I. L. Capillary waves on the surface of an axisymmetric jet. (Russian) **93h:76010**

Hammack, J. L. (*with* Henderson, D. M.) Resonant interactions among surface water waves. (*see* **93h:76003**)

Henderson, D. M. *see* **Hammack, J. L., (93h:76003)**

Hocking, Graeme C. (*with* Forbes, Lawrence K.) Subcritical free-surface flow caused by a line source in a fluid of finite depth. (English summary) **93g:76021**

Hsieh, D. Y. Gravity waves in Lagrangian coordinates. **93d:76007**

Hsu, J. R.-C. (*with* Ch'ên, Yü I) Frequency modulations between two intersecting waves in deep water. (English summary) **93i:76010**

Hui, W. H. *see* **Drennan, W. M.; et al., 93b:76010**

Inoue, Susumu *see* **Funakoshi, Mitsuaki, (93f:00015)**

Jones, M. C. W. On coupled differential equations which model the evolution of interacting capillary-gravity wave modes and related questions of stability. (English summary) **93k:76014**

Khabakhpasheva, T. I. The Fredholm property of a problem on small perturbations of a wave of limit amplitude on deep water. (Russian. Russian summary) **93e:76011**

Kranenburg, C. On the evolution of roll waves. (English summary) **93i:76011**

Krasnopol'skaya, T. S. (*with* Shvets, A. Yu.) Properties of chaotic oscillations of a fluid in cylindrical tanks. (Russian. English and Ukrainian summaries) **93f:76010**

Kuznetsov, A. O. (*with* Loginov, B. V.) Construction of the asymptotics of small solutions with an irregular hexagonal periodicity lattice for a problem on capillary-gravity waves over an even bottom. (Russian) **93i:76012**

Kuznetsov, N. G. The source method for the plane Neumann-Kelvin problem and free oscillations of a fluid in a channel. (Russian. Russian summary) **93j:76016**

Laible, J. P. On the solution of the three-dimensional shallow water equations using the wave equation formulation. (*see* **93g:76003**)

Leppington, Frank G. Matched asymptotic methods in surface wave theory. **93f:76011**

Li, Rong Qing (*with* Zhao, Yao Nan) Deformation and breaking of nonlinear wave in water of gradually varying depth. (English summary)

Lighthill, Michael James Asymptotic behaviour of anisotropic wave systems stimulated by oscillating sources. **93h:76011**

Linton, C. M. (*with* Evans, D. V.) Trapped modes above a submerged horizontal plate. **93f:76012**

Liu, Philip L.-F. (*with* Yoon, Sung B.; Cho, Yong-Sik) Shoaling of wave groups in shallow water. (English summary) (*see* **93f:00015**)

— *see also* **Mei, Chiang C., (93h:76003)**

Loginov, B. V. *see* **Kuznetsov, A. O., 93i:76012**

Løkberg, Ole J. *see* **Pedersen, Hans M., 93i:76016**

Longuet-Higgins, Michael S. Highly accelerated, free-surface flows. (English summary) **93k:76015**

Lou, Sen Yue *see* **Ruan, Hang Yu, 93k:76017**

Lukovskii, I. A. (*with* Timokha, A. N.) A class of boundary value problems in the theory of surface waves. (Russian. Ukrainian summary) **93e:76012**

— (*with* Pil'kevich, A. M.) Oscillation of a fluid in a cylindrical vessel in the case of longitudinal excitation. (Russian. Russian summary) (*see* **93m:00027**)

MacKay, Robert S. *see* **Baesens, Claude, 93h:76007**

Majumdar, M. *see* **Pramanik, A. K., 93f:76016**

Mandal, B. N. (*with* Banerjea, Sudeshna) Solution of a boundary value problem associated with diffraction of water waves by a partially immersed nearly vertical barrier. (English summary) **93j:76017**

— *see also* **Banerjea, Sudeshna, 93g:76020**

Mandal, Samiran (*with* Basu, Uma) The reflection of surface waves at inertial surface by undulation of seabed.

Manners, W. (*with* Rainey, R. C. T.) Hydrodynamic forces on fixed submerged cylinders. (English summary) **93f:76013**

Martin, Paul Andrew Havelock wavemakers, Westergaard dams and the Rayleigh hypothesis. **93i:76013**

— *see also* **Dalrymple, Robert A., 93d:76006**

Matsuno, Yoshimasa Nonlinear evolutions of surface gravity waves on fluid of finite depth. **93d:76008**

McIver, P. (*with* Bennett, G. S.) Scattering of water waves by axisymmetric bodies in a channel. (English summary) **93i:76014**

— (*with* Rawlins, A. D.) Two-dimensional wave-scattering problems involving parallel-walled ducts. (English summary) **93m:76009**

Mei, Chiang C. (*with* Liu, Philip L.-F.) Surface waves and coastal dynamics. (*see* **93h:76003**)

Miles, John W. On Rayleigh's investigation of crispations of fluid resting on a vibrating support. (English summary) **93h:76012**

— On surface waves with zero contact angle. (English summary) **93i:76015**

— *see also* **Becker, Janet M., 93k:76011**

Miloh, Touvia (*with* Prestin, M.; Shtilman, L.; Tulin, M. P.) A note on the numerical and N-soliton solutions of the Benjamin-Ono evolution equation. (English summary) **93k:76016**

— *see also* **Spector, M. D., 93h:76013**

Mirie, R. (*with* Pennell, S.) On weak oblique collisions of solitary waves. (English summary) **93j:76018**

Mooiman, J. (*with* Verboom, G. K.) A new Boussinesq model based on a positive definite Hamiltonian. (English summary) (*see* **93g:76003**)

Moussa, Nabil On permanent capillar-heavy waves in infinite channels. (English summary)

Mustyatsè, A. F. (*with* Filipp, K. V.) Propagation of waves on the surface of a fluid of finite little-changing depth. (Russian) **93f:76014**

Nachbin, A. (*with* Papanicolaou, G. C.) Boundary element method for long-time water wave propagation over rapidly varying bottom topography. **93b:76012**

— (*with* Papanicolaou, G. C.) Water waves in shallow channels of rapidly varying depth. (English summary) **93f:76015**

Nalimov, V. I. Two problems in plane stationary surface wave theory. (*see* **93k:00036**)

Naumkin, P. I. (*with* Shishmarëv, I. A.) Asymptotic behavior for large time values of solutions of a system of equations of surface waves. (Russian) **93g:76022**

— (*with* Shishmarëv, I. A.) On the destruction of surface waves. (Russian. Russian summary) **93j:76019**

Newman, J. N. Wave-drift damping of floating bodies. (English summary) **93m:76010**

Papanicolaou, G. C. *see* **Nachbin, A., 93b:76012** *and* **93f:76015**

Pedersen, Hans M. (*with* Løkberg, Ole J.) Coherence and radiative energy transfer for linear surface gravity waves in water of constant depth. (English summary) **93i:76016**

Pennell, S. *see* **Mirie, R., 93j:76018**

Pil'kevich, A. M. *see* **Lukovskii, I. A., (93m:00027)**

Pramanik, A. K. (*with* Majumdar, M.) The gravity waves created by a moving source in a fluid of finite depth. (English summary) **93f:76016**

Prestin, M. *see* **Miloh, Touvia; et al., 93k:76016**

Radder, A. C. An explicit Hamiltonian formulation of surface waves in water of finite depth. **93a:76013**

Rainey, R. C. T. *see* **Manners, W., 93f:76013**

Rawlins, A. D. *see* **McIver, P., 93m:76009**

Ruan, Hang Yu (*with* Lou, Sen Yue) Symmetry reductions of Whitham-Broer-Kaup equations in shallow water. (Chinese. English and Chinese summaries) **93k:76017**

Rumyantsev, B. N. The three-dimensional Cauchy-Poisson problem for a sloping shore. (Russian) (*see* **93m:00036**)

Rykunov, L. N. *see* **Arsen'ev, S. A.; et al.**

Saffman, P. G. *see* **Caponi, E. A.; et al., 93d:76004**

Savin, A. S. Generation of surface waves by a rising vortex ring. (Russian) **93g:76023**

Shelkovnikov, N. K. *see* **Arsen'ev, S. A.; et al.**

Shishmarëv, I. A. *see* **Naumkin, P. I., 93g:76022** *and* **93j:76019**

Shtilman, L. *see* **Miloh, Touvia; et al., 93k:76016**

Shvets, A. Yu. *see* **Krasnopol'skaya, T. S., 93f:76010**

Sibgatullin, N. R. On the theory of narrow-band wave packets on a free surface. (Russian. Russian summary) **93j:76020**

Spector, M. D. (*with* Miloh, Touvia) A comparative stability study of stationary wave solutions of the Korteweg-de Vries and Benjamin-Ono 2-D models. (English summary) **93h:76013**

Sternberg, Peter *see* **Craig, Walter, 93c:76005** *and* **93f:76008**

Sulem, C. *see* **Craig, Walter; et al., 93k:76012**

Sulem, Pierre-Louis *see* **Craig, Walter; et al., 93k:76012**

Teng, Michelle H. (*with* Wu, Theodore Y.) Generation and propagation of nonlinear water waves in a channel with variable cross section. **93b:76013**

— (*with* Wu, Theodore Y.) Nonlinear water waves in channels of arbitrary shape. (English summary) **93k:76018**
Tenti, G. *see* **Drennan, W. M.; et al., 93b:76010**
Timokha, A. N. *see* **Lukovskii, I. A., 93e:76012**
Tripathi, Usha *see* **Basu, Uma, 93k:76010**
Tulin, M. P. *see* **Miloh, Touvia; et al., 93k:76016**
Tverskoi, M. B. *see* **Grigor, O. E., 93i:76009**
Umeki, Makoto Lagrangian motion of fluid particles induced by three-dimensional standing surface waves. (English summary) **93f:76017**
Urusov, A. I. Modeling the process of propagation of long surface waves and their interaction with obstacles semisubmerged in a fluid. (Russian) **93e:76013**
Ushijima, Teruo Computational aspect of linear water wave problem. **93d:76009**
Verboom, G. K. *see* **Mooiman, J., (93g:76003)**
Vijaya Bharathi, L. *see* **Chakrabarti, Aloknath, 93i:76008**
Wu, Jian Hua[1] (*with* Chen, Yao Song) A remark on the radiation conditions. **93a:76014**
Wu, Theodore Y. *see* **Teng, Michelle H., 93b:76013** *and* **93k:76018**
Yates, George T. Some antisymmetric solutions with permanent form of the forced KdV equation. **93a:76015**
Yoon, Sung B. *see* **Liu, Philip L.-F.; et al., (93f:00015)**
Yuen, H. C. *see* **Caponi, E. A.; et al., 93d:76004**
Zhao, Yao Nan *see* **Li, Rong Qing**
Zhevandrov, P. N. Edge waves on a gently sloping beach: uniform asymptotics. **93a:76016**
Zhou, Qing Fu (*with* Chen, Yan Sheng) Fourth order evolution equations with slowly varying depth and current and stability of Stokes waves. **93d:76010**
Zhu, Songping Stationary Binnie waves near resonance. (English summary) **93g:76024**
Zhu, Yong Nonlinear interfacial capillary-gravity waves in shear flow. **93d:76011**

Items with secondary classifications in 76B15

Abramyan, L. A. (*with* Stepan'yants, Yu. A.; Shrira, V. I.) Non-one-dimensional solitons in shear flows of boundary layer type. (Russian)
Albert, John P. Positivity properties and stability of solitary-wave solutions of model equations for long waves. **93d:35140**
Arsen'ev, S. A. (*with* Gubar', A. Yu.; Rykunov, L. N.; Shelkovnikov, N. K.) A new type of instability of long waves in shallow water: nonlinear sign-variable viscosity in tides. (Russian) **93g:76041**
Aurell, Erik *see* **She, Zhen Su; et al., 93h:35182**
Barclay, D. W. *see* **Moodie, T. Bryant; et al., 93e:35074**
Barkar', S. M. On the basis property for some of the eigenvectors of a class of operator pencils. (Russian) **93e:47017**
Bensoussan, Alain (*with* Kozlov, S. M.) Diffusion effective dans un flux périodique. (English and French summaries) [Effective diffusion in a periodic flow] **93i:35109**
Biagioni, H. A. (*with* Oberguggenberger, M.) Generalized solutions to the Korteweg-de Vries and the regularized long-wave equations. **93j:35152**
Biler, Piotr Long time behavior of solutions of the generalized Benjamin-Bona-Mahony equation in two space dimensions. **93e:35085**
Bressan, Nicoletta (*with* Pavoni, Donatella) Truncation versus mapping in the spectral approximation to the Korteweg-de Vries equation. (English summary) (*see* **93d:65005**)
Bridges, Thomas J. Spatial Hamiltonian structure, energy flux and the water-wave problem. (English summary) **93k:58085**
Capodanno, Pierre Small oscillations of a liquid in a container of revolution under zero gravity. **93m:76011**
Cathers, B. (*with* O'Connor, B. A.) Picard iteration convergence analysis in a Galerkin finite element approximation of the one-dimensional shallow water equations. (English summary) **93i:76053**
Cheng, Bin Numerical simulation of the Korteweg-de Vries equation with the Petrov-Galerkin finite element method. (Chinese. English summary) **93c:65114**
Chernousenko, V. M. (*with* Kuklin, V. M.; Panchenko, I. P.; Vorob'yov, V. M.) Space dissipative structures. (*see* **93b:00013**)
Daniel, Muthiah (*with* Porsezian, K.; Lakshmanan, M.) On the integrable models of the higher order water wave equation. (English summary) **93m:35160**
Dias, Frédéric *see* **Vanden-Broeck, Jean-Marc, 93d:76012**
Dixon, A. E. The stability and evolution of interfacial waves. (English summary) **93i:76041**
Dobrokhotov, S. Yu. (*with* Maslov, V. P.; Tsvetkov, V. B.) The problem of tipping a wave for the model equation $v_t + vv_x - \frac{1}{2}ihv_{xx} = 0$. (Russian) **93k:35243**
Dold, J. W. An efficient surface-integral algorithm applied to unsteady gravity waves. (English summary) **93g:76091**
Dost, S. *see* **Erbay, H. A.; et al., 93f:73080**
Eggers, K. On far-field approximations to the wave pattern around a ship travelling at constant velocity. **93g:76025**
Elyutin, P. V. On a self-similar soliton. (Russian) **93c:76007**
Engelbrecht, Jüri K. Etalon evolution equations. (English, Russian and Estonian summaries)
Erbay, H. A. (*with* Erbay, S.; Dost, S.) Wave propagation in fluid filled nonlinear viscoelastic tubes. (English summary) **93f:73080**
Erbay, S. *see* **Erbay, H. A.; et al., 93f:73080**
Evans, D. V. *see* **Linton, C. M., 93i:76084**
Filippov, S. I. *see* **Lotfullin, M. V., 93j:76012**
Fokas, A. S. *see* **Santini, Paolo Maria, (93b:00012)**
Fraguela Collar, Andrés Some spectral questions in the problem of small oscillations of a rotating fluid. (Russian. Russian summary) **93j:76062**
Frisch, Uriel *see* **She, Zhen Su; et al., 93h:35182**
de Goede, Erik D. Numerical methods for the 3D shallow water equations on vector and parallel computers. **93d:76047**
Grimshaw, R. H. J. (*with* Yi, Zeng Xin) Resonant generation of finite-amplitude waves by flow past topography on a β-plane. (English summary) **93m:76071**
Gubar', A. Yu. *see* **Arsen'ev, S. A.; et al., 93g:76041**
Haberman, Richard Standard form and a method of averaging for strongly nonlinear oscillatory dispersive traveling waves. **93a:73027**
Hastings, Stuart P. (*with* McLeod, J. Bryce) On the periodic solutions of a forced second-order equation. **93e:34060a**
— *see also* **Kaper, Tasso J., 93e:34060b**
He, Yuanping *see* **Moodie, T. Bryant; et al., 93e:35074**
Hillion, Pierre T. M. Generalized phases and nondispersive waves. (English summary) **93k:35157**
Homer, M. S. Spectral properties of the Laplace tidal wave equation. **93a:34099**
Hsu, C. A. *see* **Yang, J. Y.; et al., 93h:65127**
Huang, Si Xun A discussion on the existence of nonlinear solitary waves in low latitude areas. (Chinese. Chinese summary) **93k:35215**
Huang, Zheng Ming On the coupled vibration of an ideal fluid with a linear elastic structure. (Chinese. English and Chinese summaries) **93j:73060**
Hui, W. H. *see* **Yang, J. Y.; et al., 93h:65127**
Kaĭkina, E. I. Generalized solution of the Cauchy problem for a system of surface waves in the conservative case. (Russian. English summary) **93a:35123**
Kaper, Tasso J. (*with* Wiggins, Stephen) Commentary: "On the periodic solutions of a forced second-order equation [J. Nonlinear Sci. **1** (1991), no. 2, 225–245; MR 93e:34060a] by S. P. Hastings and J. B. McLeod. **93e:34060b**
Kichenassamy, Satyanad (*with* Olver, Peter J.) Existence and nonexistence of solitary wave solutions to higher-order model evolution equations. (English summary) **93h:35165**
Korobkin, A. A. (*with* Sturova, I. V.) Three-dimensional Cauchy-Poisson problem for a basin with a smoothly changing bottom. (Russian. Russian summary) **93d:35118**
Kozlov, S. M. *see* **Bensoussan, Alain, 93i:35109**
Kudashev, V. R. Scale-invariant solutions of the Whitham equations. (English summary) **93k:35234**
Kuklin, V. M. *see* **Chernousenko, V. M.; et al., (93b:00013)**
Kuznetsov, N. G. Integral equations for a problem on steady waves induced by a floating body. (Russian) **93c:76006**
— A lower bound on the sloshing frequencies of two-dimensional oscillations of a fluid in a channel. (Russian. Russian summary) **93g:76019**
Lakshmanan, M. *see* **Daniel, Muthiah; et al., 93m:35160**
Lichter, Seth Quasiperiodicity, chaos, and damping in cross-waves. (English summary) **93i:76031**
Linton, C. M. (*with* Evans, D. V.) Integral equations for a class of problems concerning obstacles in waveguides. (English summary) **93i:76084**
Liu, Ru Xun The design of characterizing-integral schemes and the application to the shallow water wave problems. (Chinese. English summary) **93c:65111**
Longuet-Higgins, Michael S. Capillary rollers and bores. (English summary) **93e:76020**
Lotfullin, M. V. (*with* Filippov, S. I.) Modeling of interfaces in problems on the flow of a heavy fluid around a wing profile. (Russian) **93j:76012**
Lou, Sen Yue Nonclassical symmetry reductions for the dispersive wave equations in shallow water. (English summary) **93j:35140**
Manolis, G. D. *see* **Pelekasis, N. A.; et al., 93c:76061**
Maslov, V. P. *see* **Dobrokhotov, S. Yu.; et al., 93k:35243**
McLeod, J. Bryce *see* **Hastings, Stuart P., 93e:34060a** *and* **Kaper, Tasso J., 93e:34060b**
Melville, W. K. *see* **Zhang, Jun, 93g:76064**
Miloh, Touvia On the plane-wave interfacial soliton in a two-layer fluid model of finite depth. **93b:76015**
Moodie, T. Bryant (*with* He, Yuanping; Barclay, D. W.) Wavefront expansions and nonlinear hyperbolic waves. **93e:35074**
Naumkin, P. I. (*with* Shishmarëv, I. A.) The Cauchy problem for the Whitham equation. I, II. (Russian. English summary) **93f:35188**
Neta, B. Analysis of finite elements and finite differences for shallow water equations: a review. (English summary) **93g:76081**
Oberguggenberger, M. *see* **Biagioni, H. A., 93j:35152**
Ockendon, J. R. *see* **Tew, R. H., 93d:76062**
O'Connor, B. A. *see* **Cathers, B., 93i:76053**
Olver, Peter J. *see* **Kichenassamy, Satyanad, 93h:35165**
Osborne, A. R. (*with* Segre, E.) The construction of exact wave train solutions of the periodic Korteweg-de Vries equation. (*see* **93b:00012**)
Ozawa, Tohru Exact blow-up solutions to the Cauchy problem for the Davey-Stewartson systems. (English summary) **93g:35130**
Panchenko, I. P. *see* **Chernousenko, V. M.; et al., (93b:00013)**
Pavlov, M. V. (*with* Tsarëv, S. P.) Conservation laws for the Benney equations. (Russian) **93a:35126**
Pavoni, Donatella *see* **Bressan, Nicoletta, (93d:65005)**
Pego, Robert L. (*with* Weinstein, Michael I.) Eigenvalues, and instabilities of solitary waves. (English summary) **93g:35115**
Pelekasis, N. A. (*with* Tsamopoulos, J. A.; Manolis, G. D.) A hybrid finite-boundary element method for inviscid flows with free surface. **93c:76061**
Porsezian, K. *see* **Daniel, Muthiah; et al., 93m:35160**
Roberts, A. J. A sub-centre manifold description of the evolution and interaction of nonlinear dispersive waves. (English summary) **93k:76036**
Roy Choudhury, S. Bäcklund transformations, truncated Painlevé expansions, and special solutions of nonintegrable long-wave evolution equations. (English and French summaries) **93j:35144**
Rykunov, L. N. *see* **Arsen'ev, S. A.; et al., 93g:76041**
Santini, Paolo Maria (*with* Fokas, A. S.) An initial-boundary value problem for the Davey-Stewartson 1 equation and coherent structures in multidimensions. (*see* **93b:00012**)
Segre, E. *see* **Osborne, A. R., (93b:00012)**
Segur, Harvey Who cares about integrability? **93d:58078**
She, Zhen Su (*with* Aurell, Erik; Frisch, Uriel) The inviscid Burgers equation with initial data of Brownian type. (English summary) **93h:35182**
Shelkovnikov, N. K. *see* **Arsen'ev, S. A.; et al., 93g:76041**
Shishmarëv, I. A. *see* **Naumkin, P. I., 93f:35188**
Shrira, V. I. *see* **Abramyan, L. A.; et al.**
Sinaĭ, Ya. G. Statistics of shocks in solutions of inviscid Burgers equation. (English summary) **93h:35183**
Stepan'yants, Yu. A. *see* **Abramyan, L. A.; et al.**
Sturova, I. V. *see* **Korobkin, A. A., 93d:35118**
Tew, R. H. (*with* Ockendon, J. R.) Multiple scales expansions near critical rays. **93d:76062**
Tolstova, O. L. An initial-boundary value problem for a system of equations that describe

wave motions in a layer of a fluid on an elastic substrate. (Russian. Russian summary) **93m:73032**

Tomilina, N. O. On the cresting of waves described by the Whitham equation. (Russian) **93c:35135**

Toro, E. F. Riemann problems and the WAF method for solving the two-dimensional shallow water equations. **93a:76079**

Tromp, Jeroen Uniformly valid asymptotic wave propagation based upon variational principles. (English summary) **93k:35050**

Tsamopoulos, J. A. *see* **Pelekasis, N. A.; et al., 93c:76061**

Tsarëv, S. P. *see* **Pavlov, M. V., 93a:35126**

Tsvetkov, V. B. *see* **Dobrokhotov, S. Yu.; et al., 93k:35243**

Turner, Robert E. L. *see* **Vanden-Broeck, Jean-Marc, 93f:76099**

Ursell, Fritz Some unsolved and unfinished problems in the theory of waves. **93g:01054**

Vanden-Broeck, Jean-Marc Gravity-capillary free surface flows. (English summary) **93k:76019**

— (*with* Dias, Frédéric) Gravity-capillary solitary waves in water of infinite depth and related free-surface flows. (English summary) **93d:76012**

— (*with* Turner, Robert E. L.) Long periodic internal waves. (English summary) **93f:76099**

Velarde, Manuel G. *see* **Weidman, P. D., 93f:35209**

Vorob'yov, V. M. *see* **Chernousenko, V. M.; et al., (93b:00013)**

Weidman, P. D. (*with* Velarde, Manuel G.) Internal solitary waves. **93f:35209**

Weinstein, Michael I. *see* **Pego, Robert L., 93g:35115**

Wiggins, Stephen *see* **Kaper, Tasso J., 93e:34060b**

Xiang, Xin Min *see* **Zhang, Fa Yong, 93b:65183**

Xin, Xiao Kang (*with* Zhao, Yue) The series solution for Korteweg-de Vries-Burgers equation. (English summary) **93k:35237**

Yang, J. Y. (*with* Hsu, C. A.; Hui, W. H.) A generalized Lagrangian method for solving the steady shallow water equations. (English summary) **93h:65127**

Yi, Zeng Xin *see* **Grimshaw, R. H. J., 93m:76071**

Zhang, Fa Yong (*with* Xiang, Xin Min) Legendre and Chebyshev pseudospectral method for BBM equation. **93b:65183**

Zhang, Jun (*with* Melville, W. K.) On the stability of weakly nonlinear short waves on finite-amplitude long gravity waves. (English summary) **93g:76064**

Zhao, Yue *see* **Xin, Xiao Kang, 93k:35237**

Zhu, Yong Head-on collision between two mKdV solitary waves in a two-layer fluid system. (Chinese. English and Chinese summaries) **93g:76026**

76B20 Ship waves

Eggers, K. On far-field approximations to the wave pattern around a ship travelling at constant velocity. **93g:76025**

Kuznetsov, N. G. Integral equations for a problem on steady waves induced by a floating body. (Russian) **93c:76006**

Items with secondary classifications in 76B20

Lighthill, Michael James Asymptotic behaviour of anisotropic wave systems stimulated by oscillating sources. **93h:76011**

Miloh, Touvia On the plane-wave interfacial soliton in a two-layer fluid model of finite depth. **93b:76015**

76B25 Solitary and cnoidal waves [see also 35Q51]

Abramyan, L. A. (*with* Stepan'yants, Yu. A.; Shrira, V. I.) Non-one-dimensional solitons in shear flows of boundary layer type. (Russian)

Amick, C. J. (*with* Toland, J. F.) Solitary waves with surface tension. I. Trajectories homoclinic to periodic orbits in four dimensions. **93b:76014**

Beale, J. Thomas Solitary water waves with ripples beyond all orders. (*see* **93i:00016**)

Benjamin, T. Brooke A new kind of solitary wave. (English summary) **93i:76017**

Dias, Frédéric *see* **Vanden-Broeck, Jean-Marc, 93d:76012**

Elyutin, P. V. On a self-similar soliton. (Russian) **93c:76007**

Miloh, Touvia On the plane-wave interfacial soliton in a two-layer fluid model of finite depth. **93b:76015**

Shen, Mei Chang (*with* Sun, S. M.) Generalized solitary waves in a stratified fluid. (*see* **93i:00016**)

Shrira, V. I. *see* **Abramyan, L. A.; et al.**

Stepan'yants, Yu. A. *see* **Abramyan, L. A.; et al.**

Sun, S. M. *see* **Shen, Mei Chang, (93i:00016)**

Toland, J. F. *see* **Amick, C. J., 93b:76014**

Vanden-Broeck, Jean-Marc (*with* Dias, Frédéric) Gravity-capillary solitary waves in water of infinite depth and related free-surface flows. (English summary) **93d:76012**

Yan, Jia Ren (*with* Zhou, Chuan Hui) Wu's soliton in a rectangular resonant chamber with uniformly and slowly varying width. (Chinese. English and Chinese summaries) **93f:76018**

Yan, Xiao Hong *see* **Zhong, Jian Xin**

Zhong, Jian Xin (*with* Yan, Xiao Hong) The influence of the bed on solitary waves on the surface of a fluid. (Chinese. English and Chinese summaries)

Zhou, Chuan Hui *see* **Yan, Jia Ren, 93f:76018**

Zhu, Yong Head-on collision between two mKdV solitary waves in a two-layer fluid system. (Chinese. English and Chinese summaries) **93g:76026**

Items with secondary classifications in 76B25

Albert, John P. Positivity properties and stability of solitary-wave solutions of model equations for long waves. **93d:35140**

Aleshkov, Yu. Z. Waves on the surface of a heavy fluid. (Russian) **93f:76007**

Bona, Jerry L. (*with* Ponce, Gustavo; Saut, Jean-Claude; Tom, Michael M.) A model system for strong interaction between internal solitary waves. **93e:35086**

Camassa, Roberto (*with* Wu, Theodore Y.) Stability of forced steady solitary waves. **93a:76046**

Craig, Walter (*with* Kappeler, Thomas; Strauss, Walter Alexander) Gain of regularity for equations of KdV type. (French summary) **93j:35153**

Derks, G. (*with* van Groesen, E.) Energy propagation in dissipative systems. II. Centrovelocity for nonlinear wave equations. **93a:35133**

Eckhaus, Wiktor On water waves at Froude number slightly higher than one and Bond number less than $\frac{1}{3}$. **93f:76009**

El-Deen Mohamedein, M. Sh. *see* **Iskandar, Labib, 93b:65126**

Ferraioli, F. *see* **Virgopia, N., 93k:35236**

Filippov, A. T. ★ Многоликий солитон. (Russian) [The many faces of the soliton] **93e:35093**

van Groesen, E. *see* **Derks, G., 93a:35133**

Huang, Si Xun A discussion on the existence of nonlinear solitary waves in low latitude areas. (Chinese. Chinese summary) **93k:35215**

Iizuka, Takeshi (*with* Nakao, Takenobu; Wadati, Miki) Solitons in inhomogeneous media. (English summary) **93i:35117**

Iskandar, Labib (*with* El-Deen Mohamedein, M. Sh.) Solitary waves interaction for the BBM equation. **93b:65126**

Jeffrey, Alan A brief history of solitons. (*see* **93g:00030**)

Kappeler, Thomas *see* **Craig, Walter; et al., 93j:35153**

Kichenassamy, Satyanad (*with* Olver, Peter J.) Existence and nonexistence of solitary wave solutions to higher-order model evolution equations. (English summary) **93h:35165**

Kudashev, V. R. Scale-invariant solutions of the Whitham equations. (English summary) **93k:35234**

Lombardi, Éric Bifurcation d'ondes solitaires à oscillations de faible amplitude à l'infini, pour un nombre de Froude proche de 1. (English summary) [Bifurcation of solitary waves with oscillations of small amplitude at infinity, for a Froude number near 1] **93a:35018**

Meinel, Reinhard (*with* Neugebauer, Gernot; Steudel, Heinz) ★ Solitonen. (German) [Solitons] **93j:35001**

Miloh, Touvia (*with* Prestin, M.; Shtilman, L.; Tulin, M. P.) A note on the numerical and N-soliton solutions of the Benjamin-Ono evolution equation. (English summary) **93k:76016**

— *see also* **Spector, M. D., 93h:76013**

Mirie, R. (*with* Pennell, S.) On weak oblique collisions of solitary waves. (English summary) **93j:76018**

Nakao, Takenobu *see* **Iizuka, Takeshi; et al., 93i:35117**

Neugebauer, Gernot *see* **Meinel, Reinhard; et al., 93j:35001**

Olver, Peter J. *see* **Kichenassamy, Satyanad, 93h:35165**

Pego, Robert L. (*with* Weinstein, Michael I.) Eigenvalues, and instabilities of solitary waves. (English summary) **93g:35115**

Pennell, S. *see* **Mirie, R., 93j:76018**

Plotnikov, P. I. Nonuniqueness of solutions of a problem on solitary waves, and bifurcations of critical points of smooth functionals. (Russian) **93d:35132**

Ponce, Gustavo *see* **Bona, Jerry L.; et al., 93e:35086**

Prestin, M. *see* **Miloh, Touvia; et al., 93k:76016**

Saut, Jean-Claude *see* **Bona, Jerry L.; et al., 93e:35086**

Shtilman, L. *see* **Miloh, Touvia; et al., 93k:76016**

Smereka, Peter A remark on the solitary wave stability for a Boussinesq equation. **93m:35163**

Spector, M. D. (*with* Miloh, Touvia) A comparative stability study of stationary wave solutions of the Korteweg-de Vries and Benjamin-Ono 2-D models. (English summary) **93h:76013**

Steudel, Heinz *see* **Meinel, Reinhard; et al., 93j:35001**

Strauss, Walter Alexander *see* **Craig, Walter; et al., 93j:35153**

Tom, Michael M. *see* **Bona, Jerry L.; et al., 93e:35086**

Tulin, M. P. *see* **Miloh, Touvia; et al., 93k:76016**

Virgopia, N. (*with* Ferraioli, F.) The perturbed Korteweg-de Vries equation: evolution of solitons. (English summary) **93k:35236**

Wadati, Miki *see* **Iizuka, Takeshi; et al., 93i:35117**

Weinstein, Michael I. *see* **Pego, Robert L., 93g:35115**

Wu, Theodore Y. *see* **Camassa, Roberto, 93a:76046**

Yates, George T. Some antisymmetric solutions with permanent form of the forced KdV equation. **93a:76015**

Zhu, Yong Nonlinear interfacial capillary-gravity waves in shear flow. **93d:76011**

76B40 Added mass computations

Items with secondary classifications in 76B40

Kozlov, S. M. On the domain of change of added mass, polarization and effective characteristics of composites. (Russian) **93f:73010**

Manners, W. (*with* Rainey, R. C. T.) Hydrodynamic forces on fixed submerged cylinders. (English summary) **93f:76013**

Power, Henry (*with* Tyvand, Peder A.) Drag force and virtual mass of a cylindrical porous shell in potential flow. (English summary)

Rainey, R. C. T. *see* **Manners, W., 93f:76013**

Tyvand, Peder A. *see* **Power, Henry**

76B45 Capillarity

Brackbill, J. U. (*with* Kothe, D. B.; Zemach, C.) A continuum method for modeling surface tension. **93c:76008**

Capodanno, Pierre Small oscillations of a liquid in a container of revolution under zero gravity. **93m:76011**

Keller, Joseph B. *see* **Merchant, Gregory J., 93a:76017**

Kothe, D. B. *see* **Brackbill, J. U.; et al., 93c:76008**

Merchant, Gregory J. (*with* Keller, Joseph B.) Contact angles. **93a:76017**

Vanden-Broeck, Jean-Marc Gravity-capillary free surface flows. (English summary) **93k:76019**

Zemach, C. *see* **Brackbill, J. U.; et al., 93c:76008**

Items with secondary classifications in 76B45

Amick, C. J. (*with* Toland, J. F.) Solitary waves with surface tension. I. Trajectories

homoclinic to periodic orbits in four dimensions. **93b:76014**

Andreev, V. K. (*with* Rodionov, A. A.) Instability under stretching of a cylindrical layer of fluid. (Russian) **93h:76027**

Athanassenas, Maria ★ Kapillarflächen mit freien Rändern. (German) [Capillary surfaces with free boundaries] **93m:49019**

— A free boundary problem for capillary surfaces. **93g:35144**

Barozzi, E. (*with* Emmer, M.; Gonzalez, E. H. A.) Lagrange multipliers and variational methods for equilibrium problems of fluids. **93j:49044**

Beale, J. Thomas Solitary water waves with ripples beyond all orders. (*see* **93i:00016**)

Benjamin, T. Brooke A new kind of solitary wave. (English summary) **93i:76017**

Bernardin, D. *see* **Séro-Guillaume, O. E.; et al., 93h:76080**

Brancher, J.-P. *see* **Séro-Guillaume, O. E.; et al., 93h:76080**

Capodanno, Pierre Sur les oscillations d'un système cylindrique de deux liquides non miscibles hors gravité. [On the oscillations of a cylindrical system of two immiscible fluids not subject to gravity] **93g:76054**

Dias, Frédéric *see* **Vanden-Broeck, Jean-Marc, 93d:76012**

Eckhaus, Wiktor On water waves at Froude number slightly higher than one and Bond number less than $\frac{1}{3}$. **93f:76009**

Emmer, M. *see* **Barozzi, E.; et al., 93j:49044**

Forbes, Lawrence K. (*with* Hocking, Graeme C.) Flow induced by a line sink in a quiescent fluid with surface-tension effects. (English summary) **93k:76009**

Gonzalez, E. H. A. *see* **Barozzi, E.; et al., 93j:49044**

Grigor, O. È. (*with* Tverskoĭ, M. B.) Investigation of capillary-gravity waves of finite amplitude on the surface of a floating fluid. (Russian. Russian summary) **93i:76009**

Gurevich, I. L. Capillary waves on the surface of an axisymmetric jet. (Russian) **93h:76010**

Hocking, Graeme C. *see* **Forbes, Lawrence K., 93k:76009**

Jones, M. C. W. On coupled differential equations which model the evolution of interacting capillary-gravity wave modes and related questions of stability. (English summary) **93k:76014**

Kuznetsov, A. O. (*with* Loginov, B. V.) Construction of the asymptotics of small solutions with an irregular hexagonal periodicity lattice for a problem on capillary-gravity waves over an even bottom. (Russian) **93i:76012**

Loginov, B. V. *see* **Kuznetsov, A. O., 93i:76012**

Miersemann, Erich Asymptotic expansion at a corner for the capillary problem: the singular case. (English summary) **93m:35039**

Miles, John W. On Rayleigh's investigation of crispations of fluid resting on a vibrating support. (English summary) **93h:76012**

— On surface waves with zero contact angle. (English summary) **93i:76015**

Moussa, Nabil On permanent capillar-heavy waves in infinite channels. (English summary)

Novick-Cohen, Amy On a minimization problem arising in wetting. **93d:49005**

Rodionov, A. A. *see* **Andreev, V. K., 93h:76027**

Séro-Guillaume, O. E. (*with* Zouaoui, D.; Bernardin, D.; Brancher, J.-P.) The shape of a magnetic liquid drop. (English summary) **93h:76080**

Shen, Mei Chang (*with* Sun, S. M.) Generalized solitary waves in a stratified fluid. (*see* **93i:00016**)

Sun, S. M. *see* **Shen, Mei Chang, (93i:00016)**

Toland, J. F. *see* **Amick, C. J., 93b:76014**

Tverskoĭ, M. B. *see* **Grigor, O. È., 93i:76009**

Vanden-Broeck, Jean-Marc (*with* Dias, Frédéric) Gravity-capillary solitary waves in water of infinite depth and related free-surface flows. (English summary) **93d:76012**

Zhu, Yong Nonlinear interfacial capillary-gravity waves in shear flow. **93d:76011**

Zouaoui, D. *see* **Séro-Guillaume, O. E.; et al., 93b:76080**

76B99 None of the above, but in this section

Borisyuk, M. N. (*with* Dubrovskiĭ, V. A.; Orlov, Yu. F.; Tirskikh, V. V.; Turbal, V. K.) A fluid dynamics problem concerning a catamaran. (Russian. Russian summary) (*see* **93d:00031**)

Capodanno, Pierre Sur la stabilité d'un mouvement particulier d'un solide se déplaçant dans un fluide et possédant une cavité partiellement remplie de liquide. (English summary) [On the stability of a particular motion in a fluid of a solid containing a cavity partially filled with liquid] **93i:76018**

Dubrovskiĭ, V. A. *see* **Borisyuk, M. N.; et al., (93d:00031)**

Falzarano, Jeffrey M. (*with* Shaw, Steven W.; Troesch, Armin W.) Application of global methods for analyzing dynamical systems to ship rolling motion and capsizing. **93b:76016**

Gurevich, I. L. (*with* Zhitnikov, V. P.) Plane flow around a ponderable flexible shell. (Russian)

Landweber, L. (*with* Stern, F.) Forces and moments on a body moving in an irrotational flow of an inviscid fluid. **93b:76017**

Lighthill, Michael James Hydrodynamic far fields. **93a:76018**

Limarchenko, O. S. Modeling the dynamics of structures that carry a fluid with a free surface in cavities of revolution. (Russian) **93c:76009**

Lotfullin, M. V. Interaction of profiles near the free surface of a heavy fluid. (Russian)

Luat, Le Kim *see* **Tràn Gia Lịch, 93m:76012**

Orlov, Yu. F. *see* **Borisyuk, M. N.; et al., (93d:00031)**

Power, Henry (*with* Tyvand, Peder A.) Drag force and virtual mass of a cylindrical porous shell in potential flow. (English summary)

Shaw, Steven W. *see* **Falzarano, Jeffrey M.; et al., 93b:76016**

Stern, F. *see* **Landweber, L., 93b:76017**

Tirskikh, V. V. *see* **Borisyuk, M. N.; et al., (93d:00031)**

Tràn Gia Lịch (*with* Luat, Le Kim) Boundary conditions for the two-dimensional Saint-Venant equation system. **93m:76012**

Troesch, Armin W. *see* **Falzarano, Jeffrey M.; et al., 93b:76016**

Turbal, V. K. *see* **Borisyuk, M. N.; et al., (93d:00031)**

Tyvand, Peder A. *see* **Power, Henry**

Wegert, E. (*with* von Wolfersdorf, Lothar) Plane potential flow past a cylinder with porous surface. (English summary) **93j:76021**

von Wolfersdorf, Lothar *see* **Wegert, E., 93j:76021**

Zhitnikov, V. P. *see* **Gurevich, I. L.**

Items with secondary classifications in 76B99

Angell, Thomas S. (*with* Kleinman, Ralph E.) A constructive method for shape optimization: a problem in hydromechanics. **93d:49045**

Antman, Stuart S. *see* **Lanza de Cristoforis, Massimo, 93k:73066**

Bérété, S. *see* **Sanchez-Hubert, J.; et al., 93i:73039**

Brio, Moysey (*with* Hunter, John K.) Asymptotic equations for conservation laws of mixed type. **93g:35093**

Doppel, K. (*with* Schomburg, B.) Regularity of solutions of the weak floating beam problem. **93e:35016**

Golubeva, O. V. (*with* Sapiyanov, T. N.) Distortion of two-dimensional flows by a permeable circumference. (Russian) **93j:76058**

Hart, V. G. (*with* Shi, Jingyu) Joined dissimilar thin elastic tubes containing steady perfect flow. (English summary) **93i:73038**

Huijben, A. J. M. *see* **Kaasschieter, E. F., 93b:65169**

Hunter, John K. *see* **Brio, Moysey, 93g:35093**

Ishlinskiĭ, A. Yu. (*with* Storozhenko, V. A.; Temchenko, M. E.) ★ Вращение твердого тела на струне и смежные задачи. (Russian) [Rotation of a rigid body on a string and related problems] **93d:70010**

Kaasschieter, E. F. (*with* Huijben, A. J. M.) Mixed-hybrid finite elements and streamline computation for the potential flow problem. **93b:65169**

Kawarada, Hideo (*with* Koshigoe, Hideyuki) The behavior of free surfaces appearing in flow problems. (*see* **93k:00036**)

Kim, Hyun S. (*with* Prosperetti, Andrea) Numerical simulation of the motion of rigid spheres in potential flow. (English summary) **93h:76074**

Kleinman, Ralph E. *see* **Angell, Thomas S., 93d:49045**

Kononov, Yu. N. On the influence of partitions in a cylindrical cavity on the stability of the uniform rotation of a Lagrange top. (Russian. Russian summary)

Koshigoe, Hideyuki *see* **Kawarada, Hideo, (93k:00036)**

Lanza de Cristoforis, Massimo (*with* Antman, Stuart S.) The large deformation of non-linearly elastic shells in axisymmetric flows. (English and French summaries) **93k:73066**

MacMillan, Ernest H. On the hydrodynamics of biaxial nematic liquid crystals. I. General theory. **93f:76005a**

Morand, Henri J.-P. (*with* Ohayon, Roger) ★ Interactions fluides-structures. (French) [Fluid-structure interactions] **93m:73031**

Nesterov, O. Yu. (*with* Sudakov, S. N.) On the stability of the uniform rotations of a top with an ellipsoidal cavity, containing a porous damper, completely filled with a viscous incompressible fluid. (Russian. Russian summary)

Nicolau, Alexandru Sur l'écoulement d'un fluide isotherme et non homogène. (French summary) [On the flow of a nonhomogeneous isothermal fluid] **93h:76070**

Ohayon, Roger *see* **Morand, Henri J.-P., 93m:73031**

Planchard, J. *see* **Sanchez-Hubert, J.; et al., 93i:73039**

Prosperetti, Andrea *see* **Kim, Hyun S., 93h:76074**

Rulla, Jim A priori estimates for the optimal control of an oscillating water column. (English summary) **93k:70040**

Sanchez-Hubert, J. (*with* Bérété, S.; Planchard, J.) Spectral properties of an elastic rod-spring coupled system immersed in a fluid. (English summary) **93i:73039**

Sapiyanov, T. N. *see* **Golubeva, O. V., 93j:76058**

Schomburg, B. *see* **Doppel, K., 93e:35016**

Shi, Jingyu *see* **Hart, V. G., 93i:73038**

Shishkov, S. Yu. The method of ξ-compensators in hydrodynamics. (Russian. English and Russian summaries) **93m:76065**

Stojanovic, Srdjan Computations for variational free boundary problem modeling injection of fluid from a slot into a stream. **93c:76082**

Storozhenko, V. A. *see* **Ishlinskiĭ, A. Yu.; et al., 93d:70010**

Sudakov, S. N. *see* **Nesterov, O. Yu.**

Temchenko, M. E. *see* **Ishlinskiĭ, A. Yu.; et al., 93d:70010**

Zeitlin, V. Yu. Finite-mode analogs of 2D ideal hydrodynamics: coadjoint orbits and local canonical structure. **93b:58059**

76Cxx Incompressible inviscid fluids, vorticity flows

Zeytounian, Radyadour Kh. ★ Meteorological fluid dynamics. **93m:76013**

Items with secondary classifications in 76Cxx

Ertel, Hans ★ Geophysical hydrodynamics and Ertel's potential vorticity. **93k:01090**

(Khlebnikov, V. I.) *see* **Polubarinova-Kochina, P. Ya., 93a:01067**

Polubarinova-Kochina, P. Ya. ★ Избранные труды. Гидродинамика и теория фильтрации. (Russian) [Selected works. Hydrodynamics and filtration theory] **93a:01067**

(Schröder, Wilfried) *see* **Ertel, Hans, 93k:01090**

(Treder, Hans-Jürgen) *see* **Ertel, Hans, 93k:01090**

Items listed otherwise than by author

Bibliography:

Polubarinova-Kochina, P. Ya. *see* **Polubarinova-Kochina, P. Ya., 93a:01067**

Biography:

Polubarinova-Kochina, P. Ya *see* **Polubarinova-Kochina, P. Ya., 93a:01067**

76C05 Vorticity flows

Alekseenko, S. V. (*with* Cherep, A. A.) Formation of spiral waves under circular motion of a source in a dispersive medium. (Russian)

Belyakov, G. V. *see* **Sadovskiĭ, M. A.; et al.**

Benedetto, D. (*with* Pulvirenti, Mario) From vortex layers to vortex sheets. **93g:76027**

Bhattacharjee, A. (*with* Wang, Xiaogang) Finite-time vortex singularity in a model of three-dimensional Euler flows. (English summary) **93g:76028**

Boratav, O. N. (*with* Pelz, Richard B.; Zabusky, N. J.) Winding and reconnection mechanisms of closely interacting vortex tubes in three dimensions. **93a:76019**

Caflisch, Russel E. (*with* Li, Xiao-Fan) Lagrangian theory for 3D vortex sheets with axial or helical symmetry. (English summary) **93h:76014**

Chen, Hudong Invariant two-dimensional structures of vorticity field in nonviscous fluid. (English summary) **93h:76015**
Cherep, A. A. *see* **Alekseenko, S. V.**
Chernenko, I. V. *see* **Chernousenko, V. M.; et al., (93b:00012)**
Chernousenko, V. M. (*with* Chernenko, I. V.; Chernyshenko, S. V.) Drift vortices in continuous media. (*see* **93b:00012**)
Chernyaev, A. P. A problem of an axially symmetric jet flow. (Russian) **93a:76020**
Chernyshenko, S. V. *see* **Chernousenko, V. M.; et al., (93b:00012)**
Chernyshev, S. A. *see* **Kop'ev, V. F., 93c:76011**
Dahleh, Marie Dillon Exterior flow of the Kida ellipse. (English summary) **93f:76019**
Dowker, J. S. (*with* Wolski, A.) Finite model of two-dimensional ideal hydrodynamics. (English summary) **93i:76019**
Dritschel, David G. (*with* Legras, Bernard) The elliptical model of two-dimensional vortex dynamics. II. Disturbance equations. (*see* **93b:00012**)
— *see also* **Legras, Bernard, (93b:00012)**
Duchon, Jean (*with* Robert, Raoul) Relaxation of Euler equations and hydrodynamic instabilities. **93g:76029**
Fabrikant, A. L. Resonant vortex-wave interaction. (English summary) (*see* **93g:76004**)
Fraenkel, L. E. On steady vortex rings with swirl and a Sobolev inequality. **93k:76020**
Franzese, P. *see* **Zannetti, L., 93i:76020**
Ghoniem, Ahmed F. *see* **Knio, Omar M., 93g:76030**
Goldhirsch, Isaac *see* **Sela, Nathan, 93f:76020**
Goldstein, Raymond E. (*with* Petrich, Dean M.) Solitons, Euler's equation, and vortex patch dynamics. **93e:76014**
Gryanik, V. M. (*with* Tevs, M. V.) Dynamics of singular geostrophic vortices near critical current points in an N-level model of the atmosphere (ocean). (Russian) **93c:76010**
— Localized vortices and coherent vortex structures in an unstable boundary layer. (Russian) **93k:76021**
Gurzhii, A. A. *see* **Meleshko, V. V.; et al., 93k:76022**
Hussain, Fazle *see* **Kunin, I. A.; et al., 93g:76031**
Klein, Rupert (*with* Majda, Andrew J.) An asymptotic theory for the nonlinear instability of antiparallel pairs of vortex filaments. (English summary) **93m:76014**
Knio, Omar M. (*with* Ghoniem, Ahmed F.) The three-dimensional structure of periodic vorticity layers under nonsymmetric conditions. (English summary) **93g:76030**
Kolář, V. On the critical points in the description of vortical flows. **93d:76013**
Konovalyuk, T. P. *see* **Meleshko, V. V.; et al., 93k:76022**
Konstantinov, M. Yu. *see* **Meleshko, V. V.; et al., 93k:76022**
Kop'ev, V. F. (*with* Chernyshev, S. A.) Small disturbances of steady vortices. (Russian) **93c:76011**
Krasny, Robert Computing vortex sheet motion. **93c:76012**
Kunin, I. A. (*with* Hussain, Fazle; Zhou, Xiaoliang) Stability of the 4-vortex system. **93g:76031**
Legras, Bernard (*with* Dritschel, David G.) The elliptical model of two-dimensional vortex dynamics. I. The basic state. (*see* **93b:00012**)
— (*with* Zeitlin, V. Yu.) Conformal dynamics for vortex motions. **93e:76015**
— *see also* **Dritschel, David G., (93b:00012)**
Li, Xiao-Fan *see* **Caflisch, Russel E., 93h:76014**
Majda, Andrew J. *see* **Klein, Rupert, 93m:76014**
Markov, S. I. (*with* Musher, S. L.; Stoyanov, P. S.; Turitsyn, S. K.) Numerical modeling of nonlinear toroidal vortices. (*see* **93b:00012**)
Meleshko, V. V. (*with* Konstantinov, M. Yu.; Gurzhii, A. A.; Konovalyuk, T. P.) Advection of a vortex pair atmosphere in a velocity field of point vortices. (English summary) **93k:76022**
Moffatt, H. Keith (*with* Tsinober, A.) Helicity in laminar and turbulent flow. **93b:76018**
Musher, S. L. *see* **Markov, S. I.; et al., (93b:00012)**
Nazarenko, S. V. (*with* Zakharov, V. E.) Kinetic equation for point vortices in a shear flow. **93c:76013**
Netreba, S. N. Three-dimensional structures of convective flows in stratified rotating media. (Russian. Russian summary) **93k:76023**
Nikulin, V. V. Dissipation of a vertical tornado-like vortex. (Russian) **93g:76032**
— An analogue of equations of rotating shallow water for hollow and tornado-like vortices. Height of a stationary tornado-like vortex. (Russian) **93g:76033**
Nycander, J. Existence criteria and velocity of stationary vortices in plasmas and in shallow water on a rotating planet. (*see* **93b:00013**)
Pelz, Richard B. *see* **Boratav, O. N.; et al., 93a:76019**
Perekhrest, V. I. On an exact solution of Euler's hydrodynamic equations for axisymmetric flows. (Russian. Russian summary) **93m:76015**
Petrich, Dean M. *see* **Goldstein, Raymond E., 93e:76014**
Pulvirenti, Mario *see* **Benedetto, D., 93g:76027**
Pumir, Alain (*with* Siggia, Eric D.) Development of singular solutions to the axisymmetric Euler equations. **93c:76014**
Ricca, Renzo L. Physical interpretation of certain invariants for vortex filament motion under LIA. **93b:76019**
Robert, Raoul *see* **Duchon, Jean, 93g:76029**
Rodionov, V. N. *see* **Sadovskii, M. A.; et al.**
Rõõm, R. The distribution function of a two-dimensional vorticity field, and integrals of motion. (Russian. English and Estonian summaries) **93b:76020**
Rottman, James W. (*with* Stansby, Peter K.) On the "δ-equations" for vortex sheet evolution. (English summary)
Rylov, A. I. Monotonicity properties of certain two-dimensional vortex flows of an incompressible fluid and of subsonic gas flows. (Russian. Russian summary) **93g:76034**
Sadovskii, M. A. (*with* Rodionov, V. N.; Belyakov, G. V.) On a mechanism for the rise of a cavitational vortex. (Russian)
Sela, Nathan (*with* Goldhirsch, Isaac) Stability theory of an elliptical vortex. (English summary) **93f:76020**
Sheina, E. A. *see* **Smirnov, A. P., (93f:00006)**
Shelley, M. J. A study of singularity formation in vortex-sheet motion by a spectrally accurate vortex method. (English summary) **93g:76035**
Shmyglevskii, Yu. D. On a twisted flow. (Russian. Russian summary)
Siggia, Eric D. *see* **Pumir, Alain, 93c:76014**
Skvortsov, A. T. Solitary vortices—a new exact solution of hydrodynamical equations. **93k:76024**
Smirnov, A. P. (*with* Sheina, E. A.) Local and global solutions of shallow water equations. (Russian. Russian summary) (*see* **93f:00006**)
Stansby, Peter K. *see* **Rottman, James W.**
Stoyanov, P. S. *see* **Markov, S. I.; et al., (93b:00012)**
Swaters, Gordon E. A survey of the mathematical theory of modons. **93j:76022**
Tevs, M. V. *see* **Gryanik, V. M., 93c:76010**
Tsinober, A. *see* **Moffatt, H. Keith, 93b:76018**
Turfus, Colin Prandtl-Batchelor flow past a flat plate at normal incidence in a channel—inviscid analysis. (English summary) **93m:76016**
Turitsyn, S. K. *see* **Markov, S. I.; et al., (93b:00012)**
Wang, Xiaogang *see* **Bhattacharjee, A., 93g:76028**
Wolski, A. *see* **Dowker, J. S., 93i:76019**
Zabusky, N. J. *see* **Boratav, O. N.; et al., 93a:76019**
Zakharov, V. E. *see* **Nazarenko, S. V., 93c:76013**
Zannetti, L. (*with* Franzese, P.) Advection by a point vortex in closed domains. (English summary) **93i:76020**
Zeitlin, V. Yu. Vorticity and waves: geometry of phase-space and the problem of normal variables. **93c:76015**
— *see also* **Legras, Bernard, 93e:76015**
Zhou, Xiaoliang *see* **Kunin, I. A.; et al., 93g:76031**

Items with secondary classifications in 76C05

Andreev, V. K. (*with* Rodionov, A. A.) Instability under stretching of a cylindrical layer of fluid. (Russian) **93h:76027**
Bassom, Andrew P. Time-dependent inviscid vortices in three-dimensional boundary layers. (English summary) **93i:76034**
Bayly, Bruce Complexity in fluids. (English summary) **93m:76045**
Bazdenkov, S. V. The effect of bottom friction on the cyclone-anticyclone asymmetry in rotating shallow-water flows with small deformation radius. (English summary) **93h:76075**
Bell, John B. (*with* Marcus, Daniel L.) Vorticity intensification and transition to turbulence in the three-dimensional Euler equations. **93c:76048**
Brenier, Y. Le problème du plus court chemin en hydrodynamique incompressible. [The problem of the shortest path in incompressible hydrodynamics] **93k:58039**
Buttke, Thomas F. Turbulence and vortices in superfluid helium. (*see* **93f:76078**)
Cao, Wei Ming *see* **Guo, Ben Yu, 93b:65148**
Capodanno, Pierre Quelques problèmes de stabilité d'un système de trois tourbillons. [Some stability problems for a three-vortex system] **93e:76022**
Carabineanu, Adrian (*with* Dragoş, Lazăr; Oprea, Iuliana) The linearized theory for submerged thin hydrofoil of infinite span. (English, Russian and Polish summaries) **93g:76017**
Carnevale, G. F. *see* **Kloosterziel, R. C., 93m:76041**
Chemin, Jean-Yves Existence globale pour le problème des poches de tourbillon. (English summary) [Global existence for the vortex-patch problem] **93c:35127**
Chernousenko, V. M. (*with* Kuklin, V. M.; Panchenko, I. P.) Structures in nonequilibrium media. (Russian) **93g:82061**
— (*with* Zadorozhnyi, V. F.; Tsvily, B. P.) Evolution and stability of vortex structures in continuum media. (*see* **93b:00012**)
Chorin, Alexandre Joel Vortices, turbulence, and statistical mechanics. (*see* **93f:76078**)
Dahleh, Marie Dillon Fast numerical method for the solution of the quasigeostrophic vorticity equation. (English summary)
Delort, Jean-Marc Une remarque sur le problème des nappes de tourbillon axisymétriques sur $\mathbf{R}^3$. (English and French summaries) [A remark on the problem of axisymmetric vortex sheets in $\mathbf{R}^3$] **93j:35131**
Denier, James P. The structure of fully nonlinear Taylor vortices. (English summary) **93e:76023**
Dragoş, Lazăr *see* **Carabineanu, Adrian; et al., 93g:76017**
Dresselhaus, Eliot (*with* Tabor, M.) The kinematics of stretching and alignment of material elements in general flow fields. **93a:76036**
Dritschel, David G. Vortex properties of two-dimensional turbulence. (English summary) **93k:76067**
— A fast contour dynamics method for many-vortex calculations in two-dimensional flows. (English summary) **93k:76084**
— *see also* **Legras, Bernard, 93i:76069**
Filatov, A. N. *see* **Gorelov, A. S., 93d:35168**
Fishelov, Dalia Vortex schemes for viscous flow. **93a:76075**
Fitt, A. D. *see* **Wilmott, P., 93i:76030**
Freymuth, Peter (*with* Gustafson, Karl E.; Leben, Robert) Visualization and computation of hovering mode vortex dynamics. (*see* **93f:76078**)
Geveci, Tunc *see* **Stewart, Kris, 93b:65213**
Gorelov, A. S. (*with* Filatov, A. N.) Inertial manifolds of barotropic atmosphere equations. (Russian) **93d:35168**
Guo, Ben Yu (*with* Cao, Wei Ming) Spectral-finite element method for solving three-dimensional vorticity equations. **93b:65148**
— *see also* **Ma, He Ping, 93f:76077**
Gustafson, Karl E. Four principles of vortex motion. (*see* **93f:76078**)
— *see also* **Freymuth, Peter; et al., (93f:76078)** *and* **Vortex methods and vortex motion, 93f:76078**
Hald, Ole H. Convergence of vortex methods. (*see* **93f:76078**)
van Heijst, G. J. F. *see* **Hopfinger, E. J., 93k:76119**
Hopfinger, E. J. (*with* van Heijst, G. J. F.) Vortices in rotating fluids. **93k:76119**
Horton, Claude Wendell, Jr. *see* **Kono, M., 93b:76089**
Hou, Thomas Y. (*with* Lowengrub, J.; Shelley, M. J.) The convergence of an exact desingularization for vortex methods. (English summary) **93k:65075**
Huang, Ke Lei *see* **Zhao, Xiao Hua; et al., 93j:76039**
Il'in, K. I. Stability of a baroclinic vortex. (Russian) **93e:76029**
Jackson, Eric *see* **She, Zhen Su; et al., (93d:65005)**
Khomenko, G. A. *see* **Moiseev, S. S.; et al., 93d:76032**

Kimura, Yoshifumi *see* **Omoto, Hideo, 93f:34013**
Klein, Rupert (*with* Majda, Andrew J.; McLaughlin, Richard M.) Asymptotic equations for the stretching of vortex filaments in a background flow field. (English summary) **93h:76025**
— *see also* **Ting, L., 93a:76025**
Kloosterziel, R. C. (*with* Carnevale, G. F.) Formal stability of circular vortices. (English summary) **93m:76041**
Kono, M. (*with* Horton, Claude Wendell, Jr.) Point vortex description of drift wave vortices: dynamics and transport. **93b:76089**
Kotelenez, Peter (*with* Mann, J. Adin, Jr.) Random vortex models and stochastic partial differential equations. (English summary) **93g:35112**
Kozlov, V. F. Construction of the stationary states of vortex patches by the method of perturbations. (Russian) **93a:76021**
Kozlov, Valerii V. Vortex theory of a top. (Russian) **93d:58055**
Kuklin, V. M. *see* **Chernousenko, V. M.; et al., 93g:82061**
Kuzovatov, I. A. A case of the existence of a global solution to Euler equations. (Russian. Russian summary) **93d:35119**
Kwek, Keng Huat *see* **Zhao, Xiao Hua; et al., 93j:76039**
Leben, Robert *see* **Freymuth, Peter; et al., (93f:76078)**
Legras, Bernard (*with* Dritschel, David G.) A comparison of the contour surgery and pseudo-spectral methods. (English summary) **93i:76069**
Li, Ji Bin *see* **Zhao, Xiao Hua; et al., 93j:76039**
Lifschitz, Alexander E. On the instability of three-dimensional flows of an ideal incompressible fluid. **93f:76041**
Lin, Shian-Jiann Contour dynamics of tornado-like vortices. (English summary) **93f:76021**
Linardatos, D. Determination of two-dimensional magnetostatic equilibria and analogous Euler flows. (English summary) **93i:76100**
Lions, Pierre-Louis Remarks on incompressible models of fluid mechanics. (*see* **93j:35004**)
Lowengrub, J. *see* **Hou, Thomas Y.; et al., 93k:65075**
Ma, He Ping (*with* Guo, Ben Yu) Combined finite element and pseudospectral method for three-dimensional vorticity equations. **93f:76077**
Majda, Andrew J. The interaction of nonlinear analysis and modern applied mathematics. **93g:35003b**
— The interaction of nonlinear analysis and modern applied mathematics. **93g:35003a**
— Mathematical fluid dynamics: the interaction of nonlinear analysis and modern applied mathematics. **93k:76003**
— *see also* **Klein, Rupert; et al., 93h:76025**
Mann, J. Adin, Jr. *see* **Kotelenez, Peter, 93g:35112**
Marchioro, Carlo (*with* Pulvirenti, Mario) On the vortex-wave system. **93d:35122**
Marcus, Daniel L. *see* **Bell, John B., 93c:76048**
Maslov, V. P. Incorrectness and regularization of equations of hydrodynamics and magnetohydrodynamics without dissipation and turbulence. **93e:76062**
Matsuoka, Chihiro (*with* Nozaki, Kazuhiro) Vortex dynamics of the complex Ginzburg-Landau equation. **93d:35155**
Mauceri Del Prete, Vincenza Convergence of vortex methods with pointwise evaluation. (Italian summary) **93g:65112**
McLaughlin, Richard M. *see* **Klein, Rupert; et al., 93h:76025**
McWilliams, James C. *see* **Weiss, Jeffrey B., 93k:76066**
Meiron, D. I. *see* **Shelley, M. J., 93c:76018** *and* **93i:76023**
Moffatt, H. Keith (*with* Ricca, Renzo L.) Interpretation of invariants of the Betchov-Da Rios equations and of the Euler equations. **93e:76016**
Moiseev, S. S. (*with* Oganyan, K. R.; Rutkevich, P. B.; Tur, A. V.; Khomenko, G. A.; Yanovskiĭ, V. V.) A vortex dynamo in helical turbulence. (Russian) **93d:76032**
Morgulis, A. B. On the existence of two-dimensional unsteady flows of an ideal incompressible fluid that admit a vorticity that is not summable with a power greater than one. (Russian. Russian summary) **93j:35142**
Mu, Mu Global smooth solutions of two-dimensional Euler equations. **93k:35219**
— (*with* Wang, Xi Yong) Nonlinear stability criteria for the motion of three-dimensional quasigeostrophic flow on a β-plane. **93f:76045**
Myagchilov, S. V. (*with* Tyrtyshnikov, E. E.) A fast matrix-vector multiplier in discrete vortex method. (English summary)
Nepomnyashchiĭ, A. A. *see* **Pismen, L. M., 93a:76045**
Nozaki, Kazuhiro *see* **Matsuoka, Chihiro, 93d:35155**
Oganyan, K. R. *see* **Moiseev, S. S.; et al., 93d:76032**
Omoto, Hideo (*with* Kimura, Yoshifumi) On ε-approximate singularities of autonomous systems of vortex type. **93f:34013**
Oprea, Iuliana *see* **Carabineanu, Adrian; et al., 93g:76017**
Orszag, Steven A. *see* **Shelley, M. J.; et al., 93i:76023** *and* **She, Zhen Su; et al., (93d:65005)**
Panchenko, I. P. *see* **Chernousenko, V. M.; et al., 93g:82061**
Penna, Vittorio (*with* Spera, Mauro) On coadjoint orbits of rotational perfect fluids. **93e:58074**
Perekhrest, V. I. Solution of nonlinear equations of the hydrodynamics of vortex flows of an ideal fluid. (Russian. Russian summary) (*see* **93g:00024**)
Pismen, L. M. (*with* Nepomnyashchiĭ, A. A.) On interaction of spiral waves. **93a:76045**
Potkin, V. V. On the physical meaning of some integrable cases of Euler equations on the Lie algebra SO(4). (Russian. Russian summary) (*see* **93m:00032**)
Pullin, D. I. Contour dynamics methods. **93e:76060**
Pulvirenti, Mario *see* **Marchioro, Carlo, 93d:35122**
Qi, Anmin Numerical study of wave propagation on vortex filaments. (English summary) **93g:76094**
Ricca, Renzo L. *see* **Moffatt, H. Keith, 93e:76016**
Ripa, P. Instability of a solid-body rotating vortex in a two-layer model. (English summary) **93k:76057**
Robert, Raoul (*with* Sommeria, J.) Statistical equilibrium states for two-dimensional flows. **93d:76034**
Rodionov, A. A. *see* **Andreev, V. K., 93h:76027**
Rouchon, Pierre On the Arnol'd stability criterion for steady-state flows of an ideal fluid. **93h:76037**
Rutkevich, P. B. *see* **Moiseev, S. S.; et al., 93d:76032**
Saffman, P. G. Vortex dynamics and turbulence. (*see* **93b:76001**)
Savin, A. S. Generation of surface waves by a rising vortex ring. (Russian) **93g:76023**
Sethian, James A. A brief overview of vortex methods. (*see* **93f:76078**)
— A gallery of fluid motion using vortex methods. (*see* **93f:76078**)
— *see also* **Vortex methods and vortex motion, 93f:76078**
She, Zhen Su (*with* Jackson, Eric; Orszag, Steven A.) Vortex structure and dynamics in turbulence. (English summary) (*see* **93d:65005**)
Shelley, M. J. (*with* Meiron, D. I.) Vortex reconnection and smoothness of the Euler equations. **93c:76018**
— (*with* Meiron, D. I.; Orszag, Steven A.) Dynamical aspects of vortex reconnection of perturbed anti-parallel vortex tubes. (English summary) **93i:76023**
— *see also* **Hou, Thomas Y.; et al., 93k:65075**
Shih, Wei Hui ★ Solutions analytiques de quelques équations aux dérivées partielles en mécanique des fluides. (French) [Analytic solutions of some partial differential equations in fluid mechanics] **93e:35090**
Sommeria, J. *see* **Robert, Raoul, 93d:76034**
Spera, Mauro *see* **Penna, Vittorio, 93e:58074**
Stewart, Kris (*with* Geveci, Tunc) Numerical experiments with a nonlinear evolution equation which exhibits blow-up. **93b:65213**
Tabor, M. *see* **Dresselhaus, Eliot, 93a:76036**
(Thom, René) *see* **Shih, Wei Hui, 93e:35090**
Ting, L. (*with* Klein, Rupert) ★ Viscous vortical flows. **93a:76025**
Troshkin, O. V. A separated vortex in a viscous fluid flow. (Russian) **93e:76018**
Tsinober, A. How solenoidal can be the Lamb vector in turbulent flow? Consequences and implications. **93a:76060**
Tsvily, B. P. *see* **Chernousenko, V. M.; et al., (93b:00012)**
Tur, A. V. *see* **Moiseev, S. S.; et al., 93d:76032**
Tyrtyshnikov, E. E. *see* **Myagchilov, S. V.**
Wang, Xi Yong *see* **Mu, Mu, 93f:76045**
Weiss, Jeffrey B. (*with* McWilliams, James C.) Nonergodicity of point vortices. (English summary) **93k:76066**
Wilmott, P. (*with* Fitt, A. D.) A composite cavity model for axisymmetric high Reynolds number separated flow. I. Modelling and analysis. (English summary) **93i:76030**
Yanovskiĭ, V. V. *see* **Moiseev, S. S.; et al., 93d:76032**
Zadorozhnyi, V. F. *see* **Chernousenko, V. M.; et al., (93b:00012)**
Zhao, Xiao Hua (*with* Kwek, Keng Huat; Li, Ji Bin; Huang, Ke Lei) Chaotic and resonant streamlines in the ABC flow. (English summary) **93j:76039**

Items listed otherwise than by author

Vortex methods and vortex motion ★ Vortex methods and vortex motion. **93f:76078**

76C10 Internal waves

Akylas, T. R. (*with* Grimshaw, R. H. J.) Solitary internal waves with oscillatory tails. (English summary) **93k:76025**
Grimshaw, R. H. J. *see* **Akylas, T. R., 93k:76025**
Lamb, Kevin G. (*with* Pierrehumbert, Raymond T.) Steady-state nonlinear internal gravity-wave critical layers satisfying an upper radiation condition. **93b:76021**
Mindlin, I. M. A new method in nonlinear problems of waves in a heavy stratified liquid excited by a vertically moving body. (Russian) **93b:76022**
Pierrehumbert, Raymond T. *see* **Lamb, Kevin G., 93b:76021**
Stetsenko, A. G. Two-dimensional description of an asymptotic field of internal waves behind a moving local source. (Russian. Russian summary) **93j:76023**

Items with secondary classifications in 76C10

Allakhverdiev, Kh. B. (*with* Pletner, Yu. D.; Sveshnikov, A. G.) On the oscillations of a vertical column of a stratified fluid with a free surface. (Russian. Russian summary) **93j:76063**
Chekhlov, V. I. A connection between problems on internal and surface waves. (Russian) (*see* **93m:00036**)
Debnath, Lokenath The Hilbert transform and its applications to fluid dynamics. **93h:76059**
Fraguela Collar, Andrés Some spectral questions in the problem of small oscillations of a rotating fluid. (Russian. Russian summary) **93j:76062**
Gorodtsov, V. A. A ball in an ideal uniformly stratified medium. (Russian. Russian summary) **93i:76095**
— High-velocity asymptotics of the drag of bodies in a waveguide layer of inhomogeneous fluids. (Russian. Russian summary) **93g:76110**
Kharik, V. M. Generation of internal waves in a rotating, stratified fluid: some symmetry properties. (English summary) **93j:76064**
Korobkin, A. A. Propagation of internal waves in an exponentially stratified fluid over a shelf. (Russian) **93i:76097**
Maas, Leo R. M. Nonlinear and free-surface effects on the spin-down of barotropic axisymmetric vortices. (English summary) **93i:76093**
Miloh, Touvia On the plane-wave interfacial soliton in a two-layer fluid model of finite depth. **93b:76015**
— (*with* Prestin, M.; Shtilman, L.; Tulin, M. P.) A note on the numerical and N-soliton solutions of the Benjamin-Ono evolution equation. (English summary) **93k:76016**
Pletner, Yu. D. *see* **Allakhverdiev, Kh. B.; et al., 93j:76063**
Prestin, M. *see* **Miloh, Touvia; et al., 93k:76016**
Shtilman, L. *see* **Miloh, Touvia; et al., 93k:76016**
Sveshnikov, A. G. *see* **Allakhverdiev, Kh. B.; et al., 93j:76063**
Tulin, M. P. *see* **Miloh, Touvia; et al., 93k:76016**
Turner, Robert E. L. *see* **Vanden-Broeck, Jean-Marc, 93f:76099**
Vanden-Broeck, Jean-Marc (*with* Turner, Robert E. L.) Long periodic internal waves. (English summary) **93f:76099**
Velarde, Manuel G. *see* **Weidman, P. D., 93f:35209**
Weidman, P. D. (*with* Velarde, Manuel G.) Internal solitary waves. **93f:35209**
Xu, Zhao Ting The propagation of internal waves in nonhomogeneous ocean with the basic horizontal currents. (English summary) **93i:86002**

76C15 Atmospheric waves

Kozlov, V. F. Construction of the stationary states of vortex patches by the method of perturbations. (Russian) **93a:76021**
Kshevetskiĭ, S. P. Invariants of acoustic and internal gravity waves in a nonisothermic atmosphere. (Russian. Russian summary) **93k:76026**
Lin, Shian-Jiann Contour dynamics of tornado-like vortices. (English summary) **93f:76021**
Scinocca, J. F. (*with* Shepherd, T. G.) Nonlinear wave-activity conservation laws and Hamiltonian structure for the two-dimensional anelastic equations. **93a:76022**
Shepherd, T. G. *see* **Scinocca, J. F., 93a:76022**

Items with secondary classifications in 76C15

Andreassen, Øyvind *see* **Wasberg, Carl Erik, (93d:65005)**
Chern, I-Liang (*with* Colin, Thierry; Kaper, Hans G.) Classical solutions of the nondivergent barotropic equations on the sphere. (English summary) **93g:76109**
Colin, Thierry *see* **Chern, I-Liang; et al., 93g:76109**
Davis, Christopher A. *see* **Rivest, Chantal; et al., 93k:86007**
Farrell, Brian F. *see* **Rivest, Chantal; et al., 93k:86007** *and* **93k:86008**
(Gol'dshtik, M. A.) *see* **Sozou, C., 93h:76026**
Iskenderov, D. Sh. (*with* Nikolaevskiĭ, V. N.) Laminarization of cores of atmospheric turbulent vortices. (Russian) **93e:86002**
Kaper, Hans G. *see* **Chern, I-Liang; et al., 93g:76109**
Kurganskiĭ, M. V. The atmospheric vortex charge. (Russian) **93c:86003**
Lions, Jacques-Louis (*with* Temam, Roger; Wang, Shou Hong) New formulations of the primitive equations of atmosphere and applications. **93e:35088**
Nikolaevskiĭ, V. N. *see* **Iskenderov, D. Sh., 93e:86002**
O'Brien, Enda Optimal growth rates in the quasigeostrophic initial value problem. (English summary) **93e:76030**
Rivest, Chantal (*with* Davis, Christopher A.; Farrell, Brian F.) Upper-tropospheric syntopic-scale waves. I. Maintenance as Eady normal modes. (English summary) **93k:86007**
— (*with* Farrell, Brian F.) Upper-tropospheric synoptic-scale waves. II. Maintenance and excitation of quasi modes. (English summary) **93k:86008**
(Shtern, V. N.) *see* **Sozou, C., 93h:76026**
Sozou, C. On solutions relating to conical vortices over a plane wall. (English summary) **93h:76026**
Strobel, Darrell F. *see* **Zhu, Xun, 93h:76034**
Temam, Roger *see* **Lions, Jacques-Louis; et al., 93e:35088**
Wang, Shou Hong *see* **Lions, Jacques-Louis; et al., 93e:35088**
Wasberg, Carl Erik (*with* Andreassen, Øyvind) Pseudospectral methods with open boundary conditions for the study of atmospheric wave phenomena. (English summary) (*see* **93d:65005**)
Zhu, Xun (*with* Strobel, Darrell F.) Nonlinear saturation of baroclinic instability in two-layer models. (English summary) **93h:76034**

76C20 Rossby waves

Gryanik, V. M. Rossby wave emission and adaptation of potential vortex fields in the atmosphere (ocean). (Russian) **93m:76017**

Items with secondary classifications in 76C20

Drake, John B. *see* **Williamson, David L.; et al., 93d:86006**
Hack, James J. *see* **Williamson, David L.; et al., 93d:86006**
Jakob, Rüdiger *see* **Williamson, David L.; et al., 93d:86006**
Reznik, G. M. Dynamics of singular vortices on a beta-plane. (English summary) **93d:86004**
Swarztrauber, Paul N. *see* **Williamson, David L.; et al., 93d:86006**
Wang, Shou Hong Attractors for the 3D baroclinic quasi-geostrophic equations of large-scale atmosphere. **93e:35091**
Williamson, David L. (*with* Drake, John B.; Hack, James J.; Jakob, Rüdiger; Swarztrauber, Paul N.) A standard test set for numerical approximations to the shallow water equations in spherical geometry. (English summary) **93d:86006**
Woods, Andrew W. The topographic control of planetary-scale flow. (English summary) **93k:86010**
Zeitlin, V. Yu. Vorticity and waves: geometry of phase-space and the problem of normal variables. **93c:76015**

76C99 None of the above, but in this section

Boulton-Stone, J. M. A two-dimensional bubble near a free surface. (English summary) **93i:76021**
Kazhikhov, A. V. A two-dimensional problem on the passage of an ideal fluid through a given region. (Russian) (*see* **93d:35001**)
Meshkov, A. G. Non-Lie symmetries in hydrodynamics. (Russian) (*see* **93d:58002**)
Moffatt, H. Keith (*with* Ricca, Renzo L.) Interpretation of invariants of the Betchov-Da Rios equations and of the Euler equations. **93e:76016**
Ricca, Renzo L. *see* **Moffatt, H. Keith, 93e:76016**
Timokha, A. N. Formulation of nonlinear boundary value problems of the three-dimensional motion of a rigid body filled with a fluid subject to the action of an acoustic field. (Russian. Russian summary) **93h:76016**
Weiss, Jeffrey B. Transport and mixing in traveling waves. (English summary) **93k:76027**

Items with secondary classifications in 76C99

Abutaliev, F. B. (*with* Kul'muradov, M. È.) Modeling processes, taking place in the atmosphere, by means of a multicomponent spectral barotropic model. (Russian. Russian summary)
Beigie, Darin (*with* Leonard, Anthony; Wiggins, Stephen) A global study of enhanced stretching and diffusion in chaotic tangles. (English summary) **93k:76063**
Boyd, John Philip The energy spectrum of fronts: time evolution of shocks in Burgers' equation. **93a:76062**
Dobrokhotov, S. Yu. (*with* Shafarevich, A. I.) Short-wave asymptotics in a linearized system of equations of hydrodynamics with rapidly oscillating coefficients. (Russian) (*see* **93m:35033**)
Dombre, Thierry (*with* Pumir, Alain; Siggia, Eric D.) On the interface dynamics for convection in porous media. (English summary) **93i:76089**
Dritschel, David G. *see* **Nycander, J.; et al., 93k:76120**
Dunbar, Steven R. Geometric analysis of a nonlinear boundary value problem from physical oceanography. (English summary) **93m:34026**
Finn, John M. *see* **Lau, Yun-Tung, 93h:58133**
Friedlander, Susan (*with* Vishik, M. M.) Instability criteria for steady flows of a perfect fluid. (English summary) **93j:76034**
(Ghil, M.) *see* **Ripa, P., 93c:76036**
Guo, Bo Ling *see* **Zhou, Yu Lin; et al., 93a:35127**
Hariharan, S. I. (*with* Ping, Yu; Scott, J. R.) Time domain numerical calculations of unsteady vortical flows about a flat plate airfoil. **93d:76043**
Hattori, Y. *see* **Nakamura, F.; et al., 93c:58036**
He, Meng Xing Periodic boundary problems for atmospheric dynamical equations. (Chinese. Chinese summary) **93m:35123**
Kambe, Tsutomu *see* **Nakamura, F.; et al., 93c:58036**
Khesin, B. A. Ergodic interpretation of integral hydrodynamic invariants. **93d:58124**
Komarenko, A. N. Equations of the perturbed motion of a body, with a cavity partially filled with a fluid, that rotates about an axis. (Russian. Russian summary) **93i:76092**
Kul'muradov, M. È. *see* **Abutaliev, F. B.**
Lau, Yun-Tung (*with* Finn, John M.) Dynamics of a three-dimensional incompressible flow with stagnation points. (English summary) **93h:58133**
Leonard, Anthony *see* **Beigie, Darin; et al., 93k:76063**
Lighthill, Michael James Hydrodynamic far fields. **93a:76018**
Nakamura, F. (*with* Hattori, Y.; Kambe, Tsutomu) Geodesics and curvature of a group of diffeomorphisms and motion of an ideal fluid. **93c:58036**
Nisht, M. I. (*with* Podobedov, V. A.; Zhelannikov, A. I.) Far-wake formation behind a wing and a system of carrying surfaces. (Russian)
Nycander, J. Refutation of stability proofs for dipole vortices. **93c:76037**
— (*with* Dritschel, David G.; Sutyrin, G. G.) The dynamics of long frontal waves in the shallow-water equations. (English summary) **93k:76120**
Ping, Yu *see* **Hariharan, S. I.; et al., 93d:76043**
Podobedov, V. A. *see* **Nisht, M. I.; et al.**
Pumir, Alain *see* **Dombre, Thierry; et al., 93i:76089**
Ripa, P. Comments on a paper by H. Sakuma and M. Ghil: "Stability of stationary barotropic modons by Lyapunov's direct method" [J. Fluid Mech. **211** (1990), 393–416; MR 91b:76063]. **93c:76036**
(Sakuma, H.) *see* **Ripa, P., 93c:76036**
Scott, J. R. *see* **Hariharan, S. I.; et al., 93d:76043**
Shafarevich, A. I. *see* **Dobrokhotov, S. Yu., (93m:35033)**
Siggia, Eric D. *see* **Dombre, Thierry; et al., 93i:76089**
Smolentsev, N. K. Curvature of the group of diffeomorphisms and of the space of volume elements. (Russian. Russian summary) **93i:58025**
Sutyrin, G. G. *see* **Nycander, J.; et al., 93k:76120**
Tan, Shao Bin *see* **Zhou, Yu Lin; et al., 93a:35127**
Tsarëv, S. P. Conservation laws and the Hamilton property of stationary equations of hydrodynamics. (Russian) (*see* **93d:58002**)
Vecchi, Italo Gagliardo-Nirenberg imbeddings and DiPerna-Majda sequences. (English summary) **93j:35145**
Vishik, M. M. *see* **Friedlander, Susan, 93j:76034**
Wiggins, Stephen *see* **Beigie, Darin; et al., 93k:76063**
Zhang, Ping Wen Exterior problem for the three-dimensional Euler equations. (English summary) **93k:35221**
Zhelannikov, A. I. *see* **Nisht, M. I.; et al.**
Zhou, Yu Lin (*with* Guo, Bo Ling; Tan, Shao Bin) On the Cauchy problem for the equation of finite-depth fluids. **93a:35127**

76Dxx Incompressible viscous fluids

Items with secondary classifications in 76Dxx

Zeytounian, Radyadour Kh. ★ Les modèles asymptotiques de la mécanique des fluides. II. (French) [Asymptotic models of fluid mechanics. II] **93i:76002**

Items listed otherwise than by author

Lecture Notes in Physics *see* **Zeytounian, Radyadour Kh., 93i:76002**

76D05 Navier-Stokes equations [see also 35Q30]

Antanovskiĭ, L. K. The bi-analytic stress-stream function in plane quasistationary problems of capillary hydrodynamics. (Russian) **93g:76036**
Balakumar, P. *see* **Hall, Philip[2]; et al., 93c:76016**
Banks, W. H. H. *see* **Watson, P.; et al., 93k:76030**
Bardos, Claude (*with* Ukai, Seiji) The classical incompressible Navier-Stokes limit of the Boltzmann equation. **93a:76023**
Boulanger, Ph. (*with* Hayes, Michael A.; Rajagopal, K. R.) Some unsteady exact solutions in the Navier-Stokes and the second grade fluid theories. (English summary) **93i:76022**
Brutyan, M. A. (*with* Krapivskiĭ, P. L.) Exact solution of Navier-Stokes equations describing the evolution of a vortex structure in a generalized shear flow. (Russian) **93f:76022**
Canuto, Claudio (*with* Russo, Alessandro) A viscous-inviscid coupling under mixed boundary conditions. (English summary) **93j:76024**
Chebotarëv, A. Yu. Optimal control problems for plane flows of a viscous incompressible fluid. (Russian. Russian summary) **93f:76023**
Chernousenko, V. M. (*with* Zadorozhnyĭ, V. F.; Tsvily, B. P.) Evolution and stability of vortex structures in continuum media. (*see* **93b:00012**)

Chin, P. (*with* D'Azevedo, E. F.; Forsyth, P. A.; Tang, Wei Pai) Preconditioned conjugate gradient methods for the incompressible Navier-Stokes equations.
D'Azevedo, E. F. *see* **Chin, P.; et al.**
Devdariani, M. T. *see* **Goncharov, A. L.; et al., 93b:76024**
Devulder, Christophe (*with* Marion, Martine; Titi, Edriss S.) On the rate of convergence of the nonlinear Galerkin methods. **93h:76017**
Drazin, P. G. *see* **Watson, P.; et al., 93k:76030**
Ersh, N. M. *see* **Gol'dshtik, M. A., 93b:76023**
van de Fliert, B. W. (*with* van Groesen, E.) Monopolar vortices as relative equilibria and their dissipative decay. **93a:76024**
Forsyth, P. A. *see* **Chin, P.; et al.**
Fryazinov, I. V. *see* **Goncharov, A. L.; et al., 93b:76024** *and* **Weinelt, Wilfried; et al., 93k:76031**
Fursikov, A. V. On the problem of closure of a chain of moment equations in the case of large Reynolds numbers. (Russian) **93f:76024**
Gol'dshtik, M. A. (*with* Ersh, N. M.) Stability of self-similar pipe flow with suction. (Russian) **93b:76023**
Goncharov, A. L. (*with* Devdariani, M. T.; Prostomolotov, A. I.; Fryazinov, I. V.) Approximation and a numerical method for the solution of three-dimensional Navier-Stokes equations on orthogonal grids. (Russian. English summary) **93b:76024**
— *see also* **Weinelt, Wilfried; et al., 93k:76031**
Gorskii, V. B. Two-dimensional vortex motions of a viscous incompressible fluid. (Russian) **93g:76037**
van Groesen, E. *see* **van de Fliert, B. W., 93a:76024**
Hall, Philip[2] (*with* Balakumar, P.; Papageorgiu, D.) On a class of unsteady three-dimensional Navier-Stokes solutions relevant to rotating disc flows: threshold amplitudes and finite-time singularities. **93c:76016**
Hartwig, Karl-Heinz *see* **Weinelt, Wilfried; et al., 93k:76031**
Hastings, Stuart P. *see* **Lu, Chun Qing; et al., 93h:76020**
Hayes, Michael A. *see* **Boulanger, Ph.; et al., 93i:76022**
Ingham, D. B. (*with* Yan, B.) Fluid flows around cascades. (English summary) **93m:76018**
Irmay, Shragga New exact solutions of the Navier-Stokes equations near a plane. (English summary) **93m:76019**
Kamanaka, Y. *see* **Kambe, Tsutomu, 93h:76018**
Kambe, Tsutomu (*with* Kamanaka, Y.) Nonlinear dynamics of two-dimensional flows: bifurcation, chaos and turbulence. (English summary) **93h:76018**
Kiehn, R. M. Compact dissipative flow structures with topological coherence, embedded in Eulerian environments. (English summary) **93h:76019**
Klein, Rupert *see* **Ting, L., 93a:76025**
Kobel'kov, G. M. Numerical methods for solving Navier-Stokes equations in velocity-pressure variables. (Russian) **93b:76025**
Krapivskii, P. L. *see* **Brutyan, M. A., 93f:76022**
Lee, Jon[1] Topology of trajectories of the 2D Navier-Stokes equations. (English summary) **93k:76028**
Lodge, A. S. (*with* Pritchard, W. G.; Scott, L. R.) Corrigendum to: "The hole-pressure problem" [IMA J. Appl. Math. **46** (1991), no. 1-2, 39–66; MR 92b:76025]. **93k:76029**
Lu, Chun Qing (*with* MacGillivray, A. Dean; Hastings, Stuart P.) Asymptotic behaviour of solutions of a similarity equation for laminar flows in channels with porous walls. (English summary) **93h:76020**
MacGillivray, A. Dean *see* **Lu, Chun Qing; et al., 93h:76020**
Marion, Martine *see* **Devulder, Christophe; et al., 93h:76017**
Maslov, V. P. Beginning of weakly anisotropic turbulence. **93c:76017**
Mayer, Ernst W. (*with* Powell, Kenneth G.) Similarity solutions for viscous vortex cores. **93b:76026**
Meiron, D. I. *see* **Shelley, M. J., 93c:76018** *and* **93i:76023**
Orszag, Steven A. *see* **Shelley, M. J.; et al., 93i:76023**
Papageorgiu, D. *see* **Hall, Philip[2]; et al., 93c:76016**
Payne, L. E. Some remarks on ill-posed problems for viscous fluids. (English summary) **93j:76025**
Powell, Kenneth G. *see* **Mayer, Ernst W., 93b:76026**
Pritchard, W. G. *see* **Lodge, A. S.; et al., 93k:76029**
Prostomolotov, A. I. *see* **Goncharov, A. L.; et al., 93b:76024**
Ragulin, V. V. A boundary value problem for equations of a nonlinearly viscous fluid in a domain with a porous boundary. (Russian. Russian summary) **93f:76025**
Rajagopal, K. R. *see* **Boulanger, Ph.; et al., 93i:76022**
Ranger, K. B. Solutions of the Navier-Stokes equations in implicit form. (English summary) **93m:76020**
Russo, Alessandro *see* **Canuto, Claudio, 93j:76024**
Sazonov, L. I. Justification of the linearization method in a flow problem. (Russian) **93g:76038**
Scott, L. R. *see* **Lodge, A. S.; et al., 93k:76029**
Shelley, M. J. (*with* Meiron, D. I.) Vortex reconnection and smoothness of the Euler equations. **93c:76018**
— (*with* Meiron, D. I.; Orszag, Steven A.) Dynamical aspects of vortex reconnection of perturbed anti-parallel vortex tubes. (English summary) **93i:76023**
Sritharan, S. S. Pontryagin maximum principle and dynamic programming for viscous hydrodynamics. **93g:76039**
— On the acceleration of viscous fluid through an unbounded channel. **93e:76017**
Tang, Wei Pai *see* **Chin, P.; et al.**
Ting, L. (*with* Klein, Rupert) ★ Viscous vortical flows. **93a:76025**
Titi, Edriss S. *see* **Devulder, Christophe; et al., 93h:76017**
Troshkin, O. V. A separated vortex in a viscous fluid flow. (Russian) **93e:76018**
Tsvily, B. P. *see* **Chernousenko, V. M.; et al., (93b:00012)**
Ukai, Seiji *see* **Bardos, Claude, 93a:76023**
Vasin, I. A. On some inverse problems of the dynamics of a viscous incompressible fluid in the case of integral overdetermination. (Russian. Russian summary) **93i:76024**
Watson, P. (*with* Banks, W. H. H.; Zaturska, M. B.; Drazin, P. G.) Laminar channel flow driven by accelerating walls. **93k:76030**
Weinelt, Wilfried (*with* Goncharov, A. L.; Fryazinov, I. V.; Hartwig, Karl-Heinz) Numerical methods for solving the problem of injection of plastic into thin forms. (Russian. Russian summary) **93k:76031**
Yan, B. *see* **Ingham, D. B., 93m:76018**
Zadorozhnyi, V. F. *see* **Chernousenko, V. M.; et al., (93b:00012)**
Zaturska, M. B. *see* **Watson, P.; et al., 93k:76030**

Items with secondary classifications in 76D05

Achdou, Yves (*with* Glowinski, Roland; Pironneau, Olivier) Tuning the mesh of a mixed method for the stream function. Vorticity formulation of the Navier-Stokes equations. (English summary) **93m:65165**
Afendikov, A. L. (*with* Varin, V. P.) An analysis of periodic flows in the vicinity of the plane Poiseuille flow. **93a:76038**
Ahmed, N. U. Optimal control of hydrodynamic flow with possible application to artificial heart. **93e:49053**
Alinhac, Serge Some remarks about the instability of the vortex patch problem. (*see* **93d:35003**)
Amrouche, C. Sur une classe de fluides non newtoniens: les solutions aqueuses de polymères. (English and French summaries) [On a class of non-Newtonian fluids: aqueous polymer solutions] **93k:76004**
Anikonov, Yu. E. Distribution functions, evolution equations and inverse problems. (Russian) **93m:35138**
Arina, Renzo (*with* Canuto, Claudio) A self-adaptive domain decomposition for the viscous/inviscid coupling. I. Burgers equation. (English summary) **93m:76061**
Armbruster, Dieter (*with* Heiland, Randy; Kostelich, Eric J.; Nicolaenko, Basil) Phase-space analysis of bursting behavior in Kolmogorov flow. (English summary) **93i:76046**
Babin, A. V. (*with* Vishik, M. I.) ★ Attractors of evolution equations. **93d:58090**
— Asymptotic expansion at infinity of a strongly perturbed Poiseuille flow. (*see* **93i:58102**)
Bakker, P. G. ★ Bifurcations in flow patterns. **93i:76001**
Ban, Octavian Une solution numérique des équations de Navier-Stokes stationnaires. [A numerical solution of the stationary Navier-Stokes equations] **93j:76043**
Baron, Judson R. *see* **Kallinderis, J. G., 93h:76057**
Bartuccelli, M. V. (*with* Gibbon, J. D.; Malham, S. J. A.) Lattice methods and the pressure field for solutions of the Navier-Stokes equations. (English summary) **93j:35128**
Bassom, Andrew P. (*with* Seddougui, Sharon O.) The effects of suction on the nonlinear stability of the three-dimensional boundary layer above a rotating disc. (English summary) **93e:76032**
Behr, M. *see* **Tezduyar, T. E.; et al., 93h:76050**
Bellout, Hamid (*with* Bloom, Frederick; Nečas, Jindřich) Phenomenological behavior of multipolar viscous fluids. (English summary) **93g:76006**
Benharbit, A. M. (*with* Siddiqui, A. M.) Certain solutions of the equations of the planar motion of a second grade fluid for steady and unsteady cases. **93i:76005**
Benjamin, T. Brooke Note on formulas for the drag of a sphere. (English summary) **93i:76032**
Bernardi, Christine (*with* Girault, Vivette; Maday, Yvon) Mixed spectral element approximation of the Navier-Stokes equations in the stream-function and vorticity formulation. (English and French summaries) **93i:65113**
Besson, O. (*with* Laydi, M. R.) Some estimates for the anisotropic Navier-Stokes equations and for the hydrostatic approximation. (English and French summaries) **93m:35139**
Betyaev, S. K. Mathematical models in outflow problems. (Russian. English and Russian summaries)
Beyer, R. P. (*with* LeVeque, Randall J.) Analysis of a one-dimensional model for the immersed boundary method. **93a:65123**
Binz, E. Global differential geometric methods in elasticity and hydrodynamics. (English summary) **93f:58057**
Black, D. W. *see* **Rothmayer, A. P., 93i:76047**
Bloom, Frederick *see* **Bellout, Hamid; et al., 93g:76006**
Böhm, Michael On the Galerkin-method in intermediate spaces for the initial-boundary value problem of the Navier-Stokes equations in two dimensions. **93a:65126**
Boisson, H. C. *see* **Spiteri, P., 93m:65126**
Bolstad, John H. Following paths of symmetry-breaking bifurcation points. (English summary) **93h:58162**
Bontoux, P. *see* **Chaouche, A.; et al., (93d:65005)**
Borchers, Wolfgang (*with* Miyakawa, Tetsuro) Algebraic L^2 decay for Navier-Stokes flows in exterior domains. II. **93g:35111**
— (*with* Miyakawa, Tetsuro) L^2-decay for Navier-Stokes flows in unbounded domains, with application to exterior stationary flows. **93i:35100**
— (*with* Pileckas, Konstantin) Existence, uniqueness and asymptotics of steady jets. (English summary) **93j:35129**
Bożek, Bogusław (*with* Holly, Konstanty; Olajossy, Andrzej) Stationary Navier-Stokes equations: on qualitative and numerical aspects of the Galerkin method. (Polish summary) **93a:76074**
Brandt, Achi (*with* Yavneh, I.) On multigrid solution of high-Reynolds incompressible entering flows. **93d:76046**
Brutyan, M. A. (*with* Krapivskii, P. L.) Investigation of the stability of periodic flows of a viscous fluid. (Russian) **93a:76040**
Brzeźniak, Zdzisław (*with* Capiński, Marek; Flandoli, Franco) Stochastic Navier-Stokes equations with multiplicative noise. (English summary) **93m:35140**
Calzada Canalejo, M. C. *see* **Cruz Soto, J. L.; et al.**
Cantwell, Brian J. Exact solution of a restricted Euler equation for the velocity gradient tensor. **93a:76057**
Canuto, Claudio *see* **Arina, Renzo, 93m:76061**
Cao, Wei Ming (*with* Guo, Ben Yu) A pseudospectral method for solving Navier-Stokes equations. **93c:65119**
— (*with* Guo, Ben Yu) A Fourier-Chebyshev spectral method for three-dimensional vorticity equations with unilateral periodic boundary conditions. (English summary) **93j:65157**
— *see also* **Guo, Ben Yu, 93g:76079**
Capiński, Marek (*with* Cutland, Nigel J.) Stochastic Navier-Stokes equations. **93b:35108**
— (*with* Cutland, Nigel J.) A simple proof of existence of weak and statistical solutions of Navier-Stokes equations. (English summary) **93h:35155**
— (*with* Cutland, Nigel J.) Navier-Stokes equations with multiplicative noise. (English

summary) **93j:35130**
— *see also* **Brzeźniak, Zdzisław; et al., 93m:35140**
Cervera, Miguel *see* **Codina, Ramon; et al., (93j:00009)**
Chabard, J.-P. (*with* Métivet, Brigitte; Pot, G.; Thomas, B.) An efficient finite-element method for the computation of three-dimensional turbulent incompressible flows. **93k:76076**
Chae, Dongho On the ensemble average in the study of approximate inertial manifolds. **93c:35126a**
— Remarks on the regularity of weak solutions of the Navier-Stokes equations. (English summary) **93i:35102**
— On the ensemble average in the study of approximate inertial manifolds. II. **93c:35126b**
— Some a priori estimates for weak solutions of the 3-D Navier-Stokes equations. **93d:35112**
Chang, Chien Cheng Potential flow and forces for incompressible viscous flow. **93c:76024**
Chaouche, A. (*with* Randriamampianina, A.; Bontoux, P.) A collocation method based on the influence matrix technique for Navier-Stokes problems in annular domains. (English summary) (*see* **93d:65005**)
Chebotarëv, A. Yu. Subdifferential boundary value problems for stationary Navier-Stokes equations. (Russian. Russian summary) **93k:35203**
Chemin, Jean-Yves Remarques sur l'existence globale pour le système de Navier-Stokes incompressible. (English summary) [Remarks on global existence for the incompressible Navier-Stokes system] **93a:35118**
Chen, Wenhan Approximate inertial manifolds for 2D Navier-Stokes equations. **93a:35119**
Ch'ên, Yü I *see* **Wang, Ch'ing An, 93m:34034**
Chester, W. The forces on a body moving through a viscous fluid. (English summary) **93f:76039**
Choo, Joshua Y. (*with* Schultz, David H.) Stable high order methods for differential equations with small coefficients for the second order terms. (English summary) **93j:65209**
Chorin, Alexandre Joel Vortices, turbulence, and statistical mechanics. (*see* **93f:76078**)
Chou, Mo Hong An efficient scheme for unsteady flow past an object with boundary conformal to a circle. **93b:65053**
Cioranescu, Doïna (*with* Saint Jean Paulin, J.) Particules déformables en suspension dans un fluide visqueux. (English summary) [Suspensions of deformable particles in a viscous fluid] **93b:76029**
Clercx, H. J. H. (*with* Schram, P. P. J. M.) Brownian particles in shear flow and harmonic potentials: a study of long-time tails. (English summary) **93e:82042**
Codina, Ramon (*with* Cervera, Miguel; Oñate, Eugenio) A finite-element formulation for the analysis of incompressible viscous flow. (Spanish. Spanish summary) (*see* **93j:00009**)
Coulhon, Thierry (*with* Lamberton, Damien) Quelques remarques sur la régularité L^p du semi-groupe de Stokes. [Some remarks on the L^p-regularity of the Stokes semigroup] **93f:35176**
Cruz Soto, J. L. (*with* Calzada Canalejo, M. C.; Marín Beltrán, M.; Fernández Cara, Enrique) A parallel algorithm for solving the incompressible Navier-Stokes problem. (English summary)
Cutland, Nigel J. *see* **Capiński, Marek, 93b:35108; 93h:35155** *and* **93j:35130**
Danaev, N. T. (*with* Smagulov, Sh. S.) A procedure for the numerical solution of Navier-Stokes equations in (ψ, ω) variables. (Russian. Russian summary) **93i:76059**
Daube, O. Resolution of the 2D Navier-Stokes equations in velocity-vorticity form by means of an influence matrix technique. (English summary) **93i:76066**
Debussche, A. (*with* Temam, Roger) Inertial manifolds and the slow manifolds in meteorology. **93a:47073**
Demay, Yves *see* **Iooss, Gérard; et al., 93f:76048**
Denier, James P. The structure of fully nonlinear Taylor vortices. (English summary) **93e:76023**
Dobrokhotov, S. Yu. (*with* Shafarevich, A. I.) Some asymptotic solutions of linearized Navier-Stokes equations. (Russian. Russian summary) **93m:35141**
Dubois, Thierry (*with* Jauberteau, François; Temam, Roger) The nonlinear Galerkin method for the two- and three-dimensional Navier-Stokes equations. (*see* **93e:76002**)
Duff, G. F. D. Navier-Stokes derivative estimates in three dimensions with boundary values and body forces. **93b:35109**
Dukowicz, John K. (*with* Dvinsky, Arkady S.) Approximate factorization as a high order splitting for the implicit incompressible flow equations. (English summary) **93g:76092**
Dvinsky, Arkady S. *see* **Dukowicz, John K., 93g:76092**
Dwyer, Harry A. *see* **Yam, Clement G., (93j:76003)**
Easwaran, C. V. (*with* Majumdar, S. R.) Oseen flow past a split-plate in a micropolar fluid. (English summary)
Èmanuilov, O. Yu. On some optimal control problems connected with the Navier-Stokes system. (English summary) **93h:49013**
Fattorini, H. O. (*with* Sritharan, S. S.) Existence of optimal controls for viscous flow problems. (English summary) **93h:49014**
Feng, Min Fu *see* **Zhou, Tian Xiao; et al., 93g:65149; 93h:65141**
Fernández Cara, Enrique Some remarks about Navier-Stokes equations. (Spanish. Spanish summary) **93j:35132**
— (*with* Guillén, F.) The existence of nonhomogeneous, viscous and incompressible flow in unbounded domains. (English summary) **93h:35157**
— *see also* **Cruz Soto, J. L.; et al.**
Fischer, Paul F. Analysis and application of a parallel spectral element method for the solution of the Navier-Stokes equations. (English summary) (*see* **93d:65005**)
Fishelov, Dalia Vortex schemes for viscous flow. **93a:76075**
Flandoli, Franco *see* **Brzeźniak, Zdzisław; et al., 93m:35140**
Foias, Ciprian (*with* Manley, Oscar P.; Temam, Roger) Approximate inertial manifolds and effective viscosity in turbulent flows. (English summary) **93m:76052**
Franca, Leopoldo P. (*with* Frey, Sérgio L.) Stabilized finite element methods. II. The incompressible Navier-Stokes equations. (English summary) **93i:76055**
Franceschini, V. (*with* Zanasi, R.) Three-dimensional Navier-Stokes equations truncated on a torus. **93e:58169**
Frey, Sérgio L. *see* **Franca, Leopoldo P., 93i:76055**
Freymuth, Peter (*with* Gustafson, Karl E.; Leben, Robert) Visualization and computation of hovering mode vortex dynamics. (*see* **93f:76078**)
Frincu, Guerino The solution of Stokes equation by the boundary element method. (English summary) **93g:65152**
— Stokes equation study by integral equations method. (English summary) **93g:65153**
Fursikov, A. V. The problem of closure of the chains of moment equations corresponding to the three-dimensional Navier-Stokes system in the case of large Reynolds numbers. (Russian) **93b:35111**
— The moment theory for Navier-Stokes equations with a random right-hand side. (Russian. Russian summary) **93m:35142**
Fushchich, V. I. (*with* Popovich, R. O.) Symmetry reduction of the Navier-Stokes equations to linear two-dimensional systems of equations. (Russian summary) **93i:35103**
Ganjoo, D. K. *see* **Tezduyar, T. E.; et al., 93h:76050**
Gastaldi, F. (*with* Quarteroni, Alfio; Sacchi Landriani, Giovanni) Coupling of two-dimensional hyperbolic and elliptic equations. (English summary) (*see* **93d:65005**)
Gellert, M. *see* **Harbord, R., 93g:76080**
Gibbon, J. D. *see* **Bartuccelli, M. V.; et al., 93j:35128**
Girault, Vivette *see* **Bernardi, Christine; et al., 93i:65113**
Gliklikh, Yu. E. Diffeomorphism groups and Lagrangian description of the hydrodynamics of a viscous incompressible fluid. (Russian) **93c:58040**
— Infinite-dimensional stochastic differential geometry in modern Lagrangian approach to hydrodynamics of viscous incompressible fluid. **93e:58195**
Glowinski, Roland Finite element methods for the numerical simulation of incompressible viscous flow. Introduction to the control of the Navier-Stokes equations. **93b:65140**
— (*with* Pironneau, Olivier) Finite element methods for Navier-Stokes equations. **93c:76059**
— *see also* **Tezduyar, T. E.; et al., 93h:76050** *and* **Achdou, Yves; et al., 93m:65165**
Glushko, A. V. The asymptotic behavior as $t \to \infty$ of the solution of the problem of the collapse of an intrusion spot in a viscous stratified fluid. (Russian. Russian summary) **93k:35042**
Golse, François Incompressible hydrodynamics as a limit of the Boltzmann equation. (English summary) **93m:82039**
Goncharova, O. N. Solvability of a nonstationary problem for equations of free convection with temperature-dependent viscosity. (Russian. Russian summary) **93k:76105**
Gresho, P. M. Some interesting issues in incompressible fluid dynamics, both in the continuum and in numerical simulation. **93e:76056**
Grigor'ev, A. I. (*with* Lazaryants, A. È.) A method for solving the Navier-Stokes equation in curvilinear coordinate systems. (Russian) **93d:35115**
Griniv, O. O. A central limit theorem for the Burgers equation. (Russian. English summary) **93f:35202**
Grubb, Gerd (*with* Solonnikov, V. A.) Boundary value problems for the nonstationary Navier-Stokes equations treated by pseudo-differential methods. **93e:35082**
Guillén, F. *see* **Fernández Cara, Enrique, 93h:35157**
Gunzburger, Max D. (*with* Mundt, M.; Peterson, Janet S.) Experiences with finite element methods for the velocity-vorticity formulation of three-dimensional, viscous, incompressible flows. (English summary) **93f:76067**
— (*with* Hou, Steven L.) Treating inhomogeneous essential boundary conditions in finite element methods and the calculation of boundary stresses. **93d:76039**
— (*with* Hou, LiSheng; Svobodny, Thomas P.) Heating and cooling control of temperature distributions along boundaries of flow domains. (English summary) **93m:35178**
Guo, Ben Yu (*with* Cao, Wei Ming) A combined spectral-finite element method for solving two-dimensional unsteady Navier-Stokes equations. **93g:76079**
— *see also* **Cao, Wei Ming, 93c:65119; Huang, Wei², 93h:65143; Cao, Wei Ming, 93j:65157** *and* **Ma, He Ping, 93m:65144**
Gürlebeck, K. *see* **Sprössig, W., 93k:35207**
Gustafson, Karl E. (*with* Halasi, K.) The flow semigroup approximation problem. **93m:47073**
— Four principles of vortex motion. (*see* **93f:76078**)
— *see also* **Freymuth, Peter; et al., (93f:76078)** *and* **Vortex methods and vortex motion, 93f:76078**
Halasi, K. *see* **Gustafson, Karl E., 93m:47073**
Hall, Charles A. (*with* Ye, Xiu) Construction of null bases for the divergence operator associated with incompressible Navier-Stokes equations. **93c:65142**
Hämäläinen, Jari ★ Mathematical modelling and simulation of fluid flows in the headbox of paper machines.
Harbord, R. (*with* Gellert, M.) A simple least-squares method for FE analysis of the Navier-Stokes problem. (English summary) **93g:76080**
Hebeker, F.-K. (*with* Wilde, P.) On missing boundary conditions with unsteady incompressible Navier-Stokes flows. (English summary) **93h:35158**
Heiland, Randy *see* **Armbruster, Dieter; et al., 93i:76046**
Henderson, Ron (*with* Karniadakis, George Em.) Hybrid spectral element methods for flows over rough walls. (English summary) (*see* **93g:65009**)
Hirsh, Richard S. *see* **Ku, Hwar-Ching; et al., (93d:65005)**
Hishida, Toshiaki (*with* Yamada, Yoshio) Global solutions for the heat convection equations in an exterior domain. **93f:35177**
Ho, Lee-Wing (*with* Maday, Yvon; Patera, Anthony T.; Rønquist, Einar M.) A high-order Lagrangian-decoupling method for the incompressible Navier-Stokes equations. (English summary) (*see* **93d:65005**)
— (*with* Patera, Anthony T.) A Legendre spectral element method for simulation of unsteady incompressible viscous free-surface flows. (English summary) (*see* **93d:65005**)
Holly, Konstanty Development of the fourth rank moment of velocity of the free fluid in $\mathbf{R}^3$. **93c:35129**
— *see also* **Bożek, Bogusław; et al., 93a:76074**
Hou, LiSheng *see* **Gunzburger, Max D.; et al., 93m:35178** *and* **Manouzi, Hassan, 93m:65145**
Hou, Steven L. *see* **Gunzburger, Max D., 93d:76039**
Hou, Thomas Y. (*with* Wetton, Brian T. R.) Convergence of a finite difference scheme for the Navier-Stokes equations using vorticity boundary conditions. **93b:65125**
Huang, Ming You *see* **Zheng, Quan¹, 93c:65128**
Huang, Wei² (*with* Guo, Ben Yu) The spectral-difference method for Navier-Stokes equations. (English summary) **93h:65143**
Hwang, Tzy Wei (*with* Wang, Ch'ing An) On multiple solutions for Berman's problem. (English summary) **93f:34041**

Iannelli, Angela Bounded and almost-periodic solutions of a Navier-Stokes type equation. **93d:35116**
Iooss, Gérard (*with* Mielke, Alexander; Demay, Yves) Mathematical justification of steady Ginzburg-Landau equation starting from Navier-Stokes. **93f:76048**
— (*with* Mielke, Alexander) Hydrodynamical stability problems in infinitely long cylindrical domains: existence of defects in travelling waves. (English summary) **93g:76063**
— *see also* **Vanderbauwhede, André, 93f:58174**
Ishii, Katsuya (*with* Iwatsu, R.; Kambe, Tsutomu; Matsumoto, N.) Chaotic streamlines in viscous incompressible flows. (*see* **93b:00012**)
Iwatsu, R. *see* **Ishii, Katsuya; et al., (93b:00012)**
Jauberteau, François (*with* Rosier, C.; Temam, Roger) A nonlinear Galerkin method for the Navier-Stokes equations. (English summary) (*see* **93d:65005**)
— *see also* **Dubois, Thierry; et al., (93e:76002)**
Jiang, Jin Liang Use the equations of total pressure and velocity to solve the viscous incompressible flow in the channel. (English summary)
Johansson, B. Christer V. Boundary conditions for open boundaries for the incompressible Navier-Stokes equation. (English summary) **93m:76064**
Johnson, Claes The characteristic streamline diffusion finite element method. (English and Portuguese summaries) **93f:76068**
Jolly, M. S. Bifurcation computations on an approximate inertial manifold for the 2D Navier-Stokes equations. (English summary) **93m:65143**
Jones, Don A. (*with* Titi, Edriss S.) On the number of determining nodes for the 2D Navier-Stokes equations. **93f:35179**
— (*with* Titi, Edriss S.) Determining finite volume elements for the 2D Navier-Stokes equations. (English summary) **93j:35133**
Kagei, Yoshiyuki On weak solutions of nonstationary Boussinesq equations. (English summary) **93m:35153**
Kallinderis, J. G. (*with* Baron, Judson R.) The finite volume approach for the Navier-Stokes equations. **93h:76057**
Kambe, Tsutomu *see* **Ishii, Katsuya; et al., (93b:00012)**
Kan-on, Yukio (*with* Narukawa, Kimiaki; Teramoto, Yoshiaki) On the equations of bioconvective flow. **93b:35118**
Karagodov, V. P. Unique solvability in the large of three-dimensional problems on the convection of a viscous incompressible fluid. (Russian) **93c:35130**
Karam Filho, José (*with* Loula, Abimael F. D.) On stable equal-order finite element formulations for incompressible flow problems. **93e:76049**
Karniadakis, George Em. Spectral element–Fourier methods for incompressible turbulent flows. (English summary) (*see* **93d:65005**)
— *see also* **Henderson, Ron, (93g:65009)**
Kaucher, Edgar Area-preserving mappings, their application for parallel and partially validated computations of Navier-Stokes-problems. (English summary) **93g:65134**
Kingdon, R. D. (*with* Schofield, P.; White, L.) A lattice Boltzmann model for the simulation of fluid flow. **93d:76054**
Kobayashi, Takayuki (*with* Muramatu, Tosinobu) Abstract Besov space approach to the nonstationary Navier-Stokes equations. (English summary) **93m:35143**
Koksch, N. (*with* Leonov, G. A.; Morozov, A. V.; Ponomarenko, D. V.) Zur Eingrenzung des Lorenz-Attraktors durch die Anwendung der nichtlokalen Reduktionsmethode und mit Hilfe von Vergleichssystemen zweiter Ordnung. (English and Russian summaries) [Estimation of the Lorenz attractor based on the nonlocal reduction method and on comparison systems of second order] **93e:58119**
Kolesnichenko, V. I. *see* **Kolpakov, N. Yu., 93g:76114**
Kolpakov, N. Yu. (*with* Kolesnichenko, V. I.) The influence of a meridional electrovortical flow on the azimuthal rotation of a liquid. (Russian. Russian summary) **93g:76114**
Kostelich, Eric J. *see* **Armbruster, Dieter; et al., 93i:76046**
Kostikov, A. A. The thermodiffusion Stefan problem in the presence of convection. (Russian. Russian and Ukrainian summaries) **93j:35196**
Kostin, I. N. Numerical construction of an attractor of the Navier-Stokes systems. (Russian. English and Russian summaries) **93g:65128**
Kozono, Hideo (*with* Sohr, Hermann) Density properties for solenoidal vector fields, with applications to the Navier-Stokes equations in exterior domains. **93b:35112**
Krapivskiĭ, P. L. *see* **Brutyan, M. A., 93a:76040**
Krause, Egon The solution to the problem of vortex breakdown. (English summary) **93e:76054**
Ku, Hwar-Ching (*with* Taylor, Thomas D.; Hirsh, Richard S.) Pseudospectral matrix element methods for flow in complex geometry. (English summary) (*see* **93d:65005**)
Kutysh, I. I. Application of the Fourier method to the solution of Euler and Navier-Stokes equations. (Russian) (*see* **93j:00004**)
Kvachko, V. Yu. Construction of grids for solving three-dimensional parabolic Navier-Stokes equations. (Russian) (*see* **93f:00017**)
Ladyzhenskaya, O. A. Some globally stable approximations for the Navier-Stokes equations and some other equations for viscous incompressible fluids. (English and French summaries) **93i:35105**
Lamberton, Damien *see* **Coulhon, Thierry, 93f:35176**
Laminie, Jacques (*with* Pascal, Frédéric; Temam, Roger) Nonlinear Galerkin method with finite element approximation. (*see* **93e:76002**)
Laydi, M. R. *see* **Besson, O., 93m:35139**
Lazaryants, A. È. *see* **Grigor'ev, A. I., 93d:35115**
Leben, Robert *see* **Freymuth, Peter; et al., (93f:76078)**
Lecointe, Y. (*with* Piquet, J.) Computation of unsteady, laminar, incompressible, viscous flows using the vorticity streamfunction formulation. (English summary) **93f:76073**
Lele, Sanjiva K. *see* **Poinsot, T. J., 93d:76050**
Leonov, G. A. *see* **Koksch, N.; et al., 93e:58119**
LeVeque, Randall J. *see* **Beyer, R. P., 93a:65123**
Li, Kai Tai (*with* Liu, Xiao Zhong) Bifurcation with symmetry breaking for the flow between two concentric rotating spheres. (English summary) **93h:65083**
Limarchenko, O. S. Unsteady rotation of a viscous fluid with a free surface in a cylindrical tank. (Russian. Russian summary) **93h:76076**
Liou, Jianntyng *see* **Tezduyar, T. E.; et al., 93h:76050**
Liu, Vincent Xiaosong Instability for the Navier-Stokes equations on the 2-dimensional torus and a lower bound for the Hausdorff dimension of their global attractors. **93f:35185**
Liu, Xiao Zhong *see* **Li, Kai Tai, 93h:65083**
Liu, Xiaosong A note on Gevrey class regularity for the solutions of the Navier-Stokes equations. **93i:35107**
Loula, Abimael F. D. *see* **Karam Filho, José, 93e:76049**
Lovicar, Vladimír (*with* Straškraba, Ivan) Remark on cavitation solutions of stationary compressible Navier-Stokes equations in one dimension. **93d:35120**
Lu, Jin Fu *see* **Wang, Guang De, 93d:76044**
Lü, Tao (*with* Neittaanmäki, Pekka; Tai, Xue Cheng) A parallel splitting-up method for partial differential equations and its applications to Navier-Stokes equations. (English and French summaries) **93i:65111**
Lubich, Ch. (*with* Ostermann, Alexander) Runge-Kutta methods for parabolic equations and convolution quadrature. **93d:65082**
Ma, He Ping (*with* Guo, Ben Yu) Combined finite element and pseudospectral method for the three-dimensional Navier-Stokes equations. (English summary) **93m:65144**
Maday, Yvon *see* **Bernardi, Christine; et al., 93i:65113** *and* **Ho, Lee-Wing; et al., (93d:65005)**
Majda, Andrew J. The interaction of nonlinear analysis and modern applied mathematics. **93g:35003b**
— The interaction of nonlinear analysis and modern applied mathematics. **93g:35003a**
Majumdar, S. R. *see* **Easwaran, C. V.**
Malham, S. J. A. *see* **Bartuccelli, M. V.; et al., 93j:35128**
Manley, Oscar P. *see* **Foias, Ciprian; et al., 93m:76052**
Manouzi, Hassan Analyse des solutions non singulières d'une formulation mixte des équations de Navier-Stokes. (English summary) [Analysis of the nonsingular solutions of a mixed formulation of the Navier-Stokes equations] **93d:35121**
— (*with* Hou, LiSheng) Resolution of the Navier-Stokes equations in vorticity-velocity formulation via control techniques. (English summary) **93m:65145**
Marcati, Pierangelo (*with* Milani, Albert J.) Fluid flow in macromolecular systems and related perturbation problems. (English and French summaries) **93h:35167**
Maremonti, Paolo Some results on the asymptotic behaviour of Hopf weak solutions to the Navier-Stokes equations in unbounded domains. **93b:35113**
Marín Beltrán, M. *see* **Cruz Soto, J. L.; et al.**
Marra, Rossana Hydrodynamical stochastic formalism and representation formulas. **93a:60090**
Matsumoto, N. *see* **Ishii, Katsuya; et al., (93b:00012)**
Mattor, N. *see* **Terry, P. W.; et al., 93a:76059**
Mavriplis, Catherine A posteriori error estimators for adaptive spectral element techniques. (*see* **93b:76002**)
Métivet, Brigitte *see* **Chabard, J.-P.; et al., 93k:76076**
Meyer, R. E. (*with* Strikwerda, John C.; Vanden-Broeck, Jean-Marc) Notes on wave attenuation on beaches. (English summary) **93k:86005**
Mielke, Alexander *see* **Iooss, Gérard; et al., 93f:76048** *and* **93g:76063**
Milani, Albert J. *see* **Marcati, Pierangelo, 93h:35167**
Miyakawa, Tetsuro *see* **Borchers, Wolfgang, 93g:35111** *and* **93i:35100**
Mohapatra, Ram Narayan *see* **Shivamoggi, Bhimsen K., (93b:41001)**
Montanaro, Adriano On the indeterminateness of the constitutive equations for certain dissipative materials. **93h:73002**
Morimoto, Hiroko On the existence and uniqueness of the stationary solution to the equations of natural convection. **93c:35132**
— Nonstationary Boussinesq equations. **93b:35120**
Morozov, A. V. *see* **Koksch, N.; et al., 93e:58119**
Mukminov, F. Kh. On the decay of a solution of a mixed problem for a linearized system of Navier-Stokes equations. (Russian. Russian summary) **93k:35049**
Müller, Wolfdietrich Numerical simulation of turbulent flow and matter transfer in a 3D water circulation model. **93b:76063**
Mundt, M. *see* **Gunzburger, Max D.; et al., 93f:76067**
Muramatu, Tosinobu *see* **Kobayashi, Takayuki, 93m:35143**
Narukawa, Kimiaki *see* **Kan-on, Yukio; et al., 93b:35118**
Nataf, Frédéric Paraxial approximations of the steady advection-diffusion equation. Padé approximants for operators. **93e:76065**
Nečas, Jindřich *see* **Bellout, Hamid; et al., 93g:76006**
Neittaanmäki, Pekka *see* **Lü, Tao; et al., 93i:65111**
Newman, D. E. *see* **Terry, P. W.; et al., 93a:76059**
Nicolaenko, Basil (*with* She, Zhen Su) Symmetry-breaking homoclinic chaos in Kolmogorov flows. (*see* **93b:00012**)
— *see also* **Armbruster, Dieter; et al., 93i:76046**
Novotný, Antonín Viscous multipolar fluids. Physical background and mathematical theory. (English summary) **93m:76001**
Okamoto, Hisashi (*with* Tavener, Simon J.) Degenerate O(2)-equivariant bifurcation equations and their applications to the Taylor problem. **93b:76041**
Olajossy, Andrzej *see* **Bożek, Bogusław; et al., 93a:76074**
Oñate, Eugenio *see* **Codina, Ramon; et al., (93j:00009)**
Oskolkov, A. P. Nonlocal problems for a class of nonlinear operator equations that arise in the theory of equations of S. L. Sobolev type. (Russian. English summary) **93e:35064**
Ostermann, Alexander *see* **Lubich, Ch., 93d:65082**
Ou, Yuh-Roung (*with* Sritharan, S. S.) Analysis of regularized Navier-Stokes equations. I, II. **93d:35123**
Ovcharova, A. S. *see* **Voevodin, A. F., 93j:76045**
Pascal, Frédéric *see* **Laminie, Jacques; et al., (93e:76002)**
Patera, Anthony T. *see* **Ho, Lee-Wing; et al., (93d:65005)** *and* **(93d:65005)**
Payne, L. E. On stabilizing ill-posed Cauchy problems for the Navier-Stokes equations. (English summary) **93k:35267**
Peralta-Fabi, R. (*with* Plaschko, P.) Bifurcation of solutions to the controlled Burgers equation. (English summary) **93i:76090**
Peterson, Janet S. *see* **Gunzburger, Max D.; et al., 93f:76067**
Phillips, Timothy N. Spectral domain decomposition techniques for viscous incompressible flows. (English summary) (*see* **93d:65005**)
— Pseudospectral domain decomposition techniques for the Navier-Stokes equations. (English summary) (*see* **93g:65009**)
— (*with* Roberts, Gareth W.) The treatment of spurious pressure modes in spectral incompressible flow calculations. (English summary) **93k:76090**

Pileckas, Konstantin *see* **Borchers, Wolfgang**, 93j:35129
Piquet, J. *see* **Lecointe, Y.**, 93f:76073
Pironneau, Olivier *see* **Glowinski, Roland**, 93c:76059 *and* **Achdou, Yves; et al.**, 93m:65165
Plaschko, P. *see* **Peralta-Fabi, R.**, 93i:76090
Poinsot, T. J. (*with* Lele, Sanjiva K.) Boundary conditions for direct simulations of compressible viscous flows. **93d:76050**
Ponomarenko, D. V. *see* **Koksch, N.; et al.**, 93e:58119
Popovich, R. E. General solution of Navier-Stokes equations with an additional condition. (Russian. English summary) **93b:35114**
Popovich, R. O. *see* **Fushchich, V. I.**, 93i:35103
Pot, G. *see* **Chabard, J.-P.; et al.**, 93k:76076
Priimak, V. G. A family of pseudospectral algorithms for integration of Navier-Stokes equations in a cylindrical coordinate system. (Russian. Russian summary) **93j:65161**
Prilepko, A. I. (*with* Vasin, I. A.) Formulation and investigation of a nonlinear inverse problem of the control of the motion of a viscous incompressible fluid. (Russian. Russian summary) **93i:35115**
Prouse, Giovanni On a Navier-Stokes type equation and inequality. (English summary) **93m:35147**
Qin, Ning (*with* Richards, Bryan E.) Sparse quasi-Newton method for Navier-Stokes solution. (*see* **93b:76002**)
Quarteroni, Alfio (*with* Sacchi Landriani, Giovanni; Valli, Alberto) Coupling of viscous and inviscid Stokes equations via a domain decomposition method for finite elements. **93b:65190**
— Numerical methods in fluid-dynamics. (Italian) **93g:76095**
— *see also* **Gastaldi, F.; et al.**, (93d:65005)
Randriamampianina, A. *see* **Chaouche, A.; et al.**, (93d:65005)
Raugel, Geneviève (*with* Sell, George R.) Navier-Stokes equations on thin 3D domains. I. Global attractors and global regularity of solutions. (English summary) **93j:35134**
Renardy, Michael An existence theorem for a free surface flow problem with open boundaries. (English summary) **93i:35159**
Ricci, Maria Lavinia On the motion of a fluid in a basin with slipping conditions on the side. (Italian summary) **93g:35113**
Richards, Bryan E. *see* **Qin, Ning**, (93b:76002)
Riley, N. Oscillating viscous flows. II. Superposed oscillations. **93d:76020**
Roberts, Gareth W. *see* **Phillips, Timothy N.**, 93k:76090
(Rodrigues, José-Francisco) *see* **Mathematical topics in fluid mechanics**, 93h:00019
Ronquist, Einar M. A domain decomposition method for elliptic boundary value problems: application to unsteady incompressible fluid flow. (English summary) (*see* **93g:65009**)
— *see also* **Ho, Lee-Wing; et al.**, (93d:65005)
Rosier, C. *see* **Jauberteau, François; et al.**, (93d:65005)
Rothmayer, A. P. (*with* Black, D. W.) On the temporal evolution of finite ensembles. (English summary) **93i:76047**
Ruas, V. Finite-element methods for three-dimensional incompressible viscous flow. **93h:76049**
Russo, Giovanni Deterministic vortex methods for the incompressible Navier-Stokes equations. (English summary) (*see* **93g:76001**)
Rylov, A. A. Convergence of the finite element method for equations of a nonhomogeneous viscous fluid. (Russian. Russian summary) **93k:76078**
Sacchi Landriani, Giovanni *see* **Quarteroni, Alfio; et al.**, 93b:65190 *and* **Gastaldi, F.; et al.**, (93d:65005)
Saint Jean Paulin, J. *see* **Cioranescu, Doïna**, 93b:76029
Samaitis, K. (*with* Stupelis, Liudvikas) On a free boundary problem for Navier-Stokes equations. I. (Russian) **93k:35206a**
— (*with* Stupelis, Liudvikas) On a free boundary problem for Navier-Stokes equations. II. (Russian. English and Lithuanian summaries) **93k:35206b**
Sather, D. Transition solutions in the Taylor problem. **93k:76049**
Scarbnick, Carl D. *see* **Strikwerda, John C.**, 93h:65156
Schäfer, Michael Numerical solution of the time-dependent axisymmetric Boussinesq equations on processor arrays. (English summary)
Schofield, P. *see* **Kingdon, R. D.; et al.**, 93d:76054
Schram, P. P. J. M. *see* **Clercx, H. J. H.**, 93e:82042
Schultz, David H. *see* **Choo, Joshua Y.**, 93j:65209
Seddougui, Sharon O. *see* **Bassom, Andrew P.**, 93e:76032
Sell, George R. *see* **Raugel, Geneviève**, 93j:35134
(Sequeira, A.) *see* **Mathematical topics in fluid mechanics**, 93h:00019
Sethian, James A. A brief overview of vortex methods. (*see* **93f:76078**)
— *see also* **Vortex methods and vortex motion**, 93f:76078
Shafarevich, A. I. *see* **Dobrokhotov, S. Yu.**, 93m:35141
Shcheprov, A. V. Calculation of a two-dimensional analogue of a Couette flow. (Russian. Russian summary)
She, Zhen Su *see* **Nicolaenko, Basil**, (93b:00012)
Shen, Jie Numerical simulation of the regularized driven cavity flows at high Reynolds numbers. (English summary) (*see* **93d:65005**)
— On error estimates of some higher order projection and penalty-projection methods for Navier-Stokes equations. **93a:35122**
Shih, Wei Hui ★ Solutions analytiques de quelques équations aux dérivées partielles en mécanique des fluides. (French) [Analytic solutions of some partial differential equations in fluid mechanics] **93e:35090**
Shinkarenko, G. A. *see* **Zubov, V. M.**
Shivamoggi, Bhimsen K. (*with* Mohapatra, Ram Narayan) Generalized Painlevé formulation and variational symmetries of the Lorenz equation. (*see* **93b:41001**)
Shubov, V. I. Long time behavior of infinite-dimensional dissipative dynamical systems. I. **93h:58092**
Siddiqui, A. M. *see* **Benharbit, A. M.**, 93i:76005
Sinitsyn, V. Yu. Some methods for reducing Navier-Stokes equations and equations of magnetohydrodynamics. (Russian. Russian summary) (*see* **93m:00032**)
Sivaloganathan, S. A finite-element, parameter stepping solution procedure for the steady-state Boussinesq equations. (English summary) **93e:65140**
Smagulov, Sh. S. *see* **Danaev, N. T.**, 93i:76059
Sohr, Hermann *see* **Kozono, Hideo**, 93b:35112
Solonnikov, V. A. Problems in the hydrodynamics of a viscous incompressible fluid in domains with noncompact boundaries. (Russian. Russian summary) **93m:35149**
— On the solvability of a free boundary problem for the Navier-Stokes equations in the Hölder space of functions. (*see* **93k:00036**)
— *see also* **Grubb, Gerd**, 93e:35082
Sonke, L. Analysis of domain decomposition for nonsymmetric problems: application to the Navier-Stokes equations. **93a:65174**
Spiteri, P. (*with* Boisson, H. C.) Subdomain predictor-corrector algorithms for solving the incompressible Navier-Stokes equation. (English summary) **93m:65126**
Sprössig, W. (*with* Gürlebeck, K.) Application of quaternionic analysis on generalized nonlinear Stokes eigenvalue problems. (English summary) **93k:35207**
Sritharan, S. S. *see* **Ou, Yuh-Roung**, 93d:35123 *and* **Fattorini, H. O.**, 93h:49014
Straškraba, Ivan *see* **Lovicar, Vladimír**, 93d:35120
Strikwerda, John C. (*with* Scarbnick, Carl D.) A domain decomposition method for incompressible viscous flow. (English summary) **93h:65156**
— *see also* **Meyer, R. E.; et al.**, 93k:86005
Stupelis, Liudvikas *see* **Samaitis, K.**, 93k:35206a *and* **93k:35206b**
Svobodny, Thomas P. *see* **Gunzburger, Max D.; et al.**, 93m:35178
Tai, Xue Cheng *see* **Lü, Tao; et al.**, 93i:65111
Takahashi, Shuji On a regularity criterion up to the boundary for weak solutions of the Navier-Stokes equations. **93h:35161**
Takeshita, Akira A remark on Leray's inequality. (English summary) **93j:35135**
Tan, Hong *see* **Zhu, Jia Lin; et al.**, (93b:65006)
Tavener, Simon J. *see* **Okamoto, Hisashi**, 93b:76041
Taylor, Thomas D. *see* **Ku, Hwar-Ching; et al.**, (93d:65005)
Temam, Roger *see* **Debussche, A.**, 93a:47073; **Foias, Ciprian; et al.**, 93m:76052; **Jauberteau, François; et al.**, (93d:65005); **Dubois, Thierry; et al.**, (93e:76002) *and* **Laminie, Jacques; et al.**, (93e:76002)
Teramoto, Yoshiaki On the Navier-Stokes flow down an inclined plane. **93h:35162**
— *see also* **Kan-on, Yukio; et al.**, 93b:35118
Terry, P. W. (*with* Newman, D. E.; Mattor, N.) Coherence of intense localized vorticity in decaying two-dimensional Navier-Stokes turbulence. **93a:76059**
Tezduyar, T. E. Stabilized finite element formulations for incompressible flow computations. **93f:76069**
— (*with* Liou, Jianntyng; Ganjoo, D. K.; Behr, M.; Glowinski, Roland) Unsteady incompressible flow computations with the finite-element method. **93h:76050**
(Thom, René) *see* **Shih, Wei Hui**, 93e:35090
Thomas, B. *see* **Chabard, J.-P.; et al.**, 93k:76076
Thompson, C. P. A parallel adaptive multigrid algorithm for the incompressible Navier-Stokes equations. (English summary) (*see* **93m:65006**)
Titi, Edriss S. *see* **Jones, Don A.**, 93f:35179 *and* **93j:35133**
Turfus, Colin Prandtl-Batchelor flow past a flat plate at normal incidence in a channel—inviscid analysis. (English summary) **93m:76016**
Vabishchevich, P. N. Difference schemes for problems with a quadratic nonlinearity. (Russian. Russian summary) **93g:65087**
Valli, Alberto *see* **Quarteroni, Alfio; et al.**, 93b:65190
Vanden-Broeck, Jean-Marc *see* **Meyer, R. E.; et al.**, 93k:86005
Vanderbauwhede, André (*with* Iooss, Gérard) Center manifold theory in infinite dimensions. **93f:58174**
Varin, V. P. *see* **Afendikov, A. L.**, 93a:76038
Varnhorn, Werner Time delay and finite differences for the nonstationary nonlinear Navier-Stokes equations. **93a:65118**
Vasin, I. A. *see* **Prilepko, A. I.**, 93i:35115
Vishik, M. I. *see* **Babin, A. V.**, 93d:58090
Voevodin, A. F. (*with* Ovcharova, A. S.) Calculation of the vorticity function on the boundary of a closed circular domain. (Russian. Russian summary) **93j:76045**
Walsh, Owen Eddy solutions of the Navier-Stokes equations. (*see* **93m:00042**)
Wang, Ch'ing An (*with* Ch'ên, Yü I) On existence of similarity solutions for laminar flow in a channel with one porous wall. (English summary) **93m:34034**
— *see also* **Hwang, Tzy Wei**, 93f:34041
Wang, Guang De (*with* Lu, Jin Fu) A characteristic-difference method for solving vorticity equations for stream functions. (Chinese. English summary) **93d:76044**
Wang, Shou Hong Attractors for the 3D baroclinic quasi-geostrophic equations of large-scale atmosphere. **93e:35091**
Wang, Xue Feng[1] The Stefan problem with nonlinear convection. (English summary) **93j:35197**
Wetton, Brian T. R. *see* **Hou, Thomas Y.**, 93b:65125
White, L. *see* **Kingdon, R. D.; et al.**, 93d:76054
White, Luther W. A study of uniqueness for the initialization problem for Burgers' equation. (English summary) **93m:35164**
Wilde, P. *see* **Hebeker, F.-K.**, 93h:35158
Xia, Jun Fei *see* **Zhu, Jia Lin; et al.**, (93b:65006)
Xiong, Hua Xin *see* **Zhou, Tian Xiao; et al.**, 93g:65149
Yam, Clement G. (*with* Dwyer, Harry A.) Unsteady flow in a curved pipe. (*see* **93j:76003**)
Yamada, Yoshio *see* **Hishida, Toshiaki**, 93f:35177
Yavneh, I. *see* **Brandt, Achi**, 93d:76046
Ye, Xiu *see* **Hall, Charles A.**, 93c:65142
Ying, Long An Optimal error estimates for a viscosity splitting formula. (*see* **93b:65006**)
Yuan, Zheng Qiang *see* **Zhu, Jia Lin; et al.**, (93b:65006)
Zadorozhnyi, V. F. Finite-dimensional dynamical systems in turbulence theory. (Russian) **93m:35150**
Zanasi, R. *see* **Franceschini, V.**, 93e:58169
Zeytounian, Radyadour Kh. ★ Mécanique des fluides fondamentale. (English. French summary) [Fundamental fluid mechanics] **93h:76001**
— Fluid dynamics limits of meteorological equations. (English and Russian summaries) **93m:76072**
Zhang, Ke Wei[2] A reproductive property and periodic solutions to modified Navier-Stokes equations. (Chinese. English and Chinese summaries) **93j:35136**
Zhang, Ping Wen Viscous splitting of the Navier-Stokes equations with nonzero boundary condition. (Chinese. English summary) **93k:35208**

Zheng, Quan[1] (*with* Huang, Ming You) A simplified viscosity splitting method for solving the initial boundary value problems of Navier-Stokes equation. **93c:65128**

Zhou, Tian Xiao (*with* Feng, Min Fu; Xiong, Hua Xin) A new approach to stability of finite elements under divergence constraints. **93g:65149**

— (*with* Feng, Min Fu) A penalty stabilized finite element method for the Navier-Stokes equations. (Chinese. English summary)

— (*with* Feng, Min Fu) A least squares Petrov-Galerkin finite element method for the stationary Navier-Stokes equations. **93h:65141**

Zhu, Jia Lin (*with* Yuan, Zheng Qiang; Xia, Jun Fei; Tan, Hong) Boundary element method for numerical solution of steady Navier-Stokes equations. (*see* **93b:65006**)

Zubov, V. M. (*with* Shinkarenko, G. A.) Application of the penalty method for the solution of stationary problems of hydrodynamics with mixed boundary conditions. (Ukrainian)

Items listed otherwise than by author

Lisbon ★ Mathematical topics in fluid mechanics. **93h:00019**

Mathematical topics in fluid mechanics ★ Mathematical topics in fluid mechanics. **93h:00019**

Plenary discussion: Is this the theory for these experiments? Plenary discussion: is this the theory for these experiments? (*see* **93b:76001**)

Vortex methods and vortex motion ★ Vortex methods and vortex motion. **93f:76078**

76D07 Stokes flows

Amaranath, T. *see* **Padmavathi, B. S., 93m:76022**

Barta, Efrath *see* **Liron, Nadav, 93c:76019**

Davis, A. M. J. Periodic blocking in parallel shear or channel flow at low Reynolds number. (English summary) **93k:76032**

Dewynne, J. N. (*with* Ockendon, J. R.; Wilmott, P.) A systematic derivation of the leading-order equations for extensional flows in slender geometries. (English summary) **93i:76025**

Harper, John F. *see* **Lerner, L., 93a:76026**

Hemalatha, K. *see* **Usha, R., 93m:76026**

Kaloni, P. N. *see* **Qin, Yu, 93m:76024**

Kim, Jae-Uk *see* **Kim, Moon Uhn, 93d:76014**

Kim, Moon Uhn (*with* Kim, Jae-Uk) Stokes drag on a circular annulus. **93d:76014**

Lerner, L. (*with* Harper, John F.) Stokes flow past a pair of stagnant-cap bubbles. **93a:76026**

Liron, Nadav (*with* Barta, Efrath) Motion of a rigid particle in Stokes flow: a new second-kind boundary-integral equation formulation. **93c:76019**

Luchini, P. (*with* Lupo, M.; Pozzi, A.) Unsteady Stokes flow in a distensible pipe. (German and Russian summaries) **93m:76021**

Lupo, M. *see* **Luchini, P.; et al., 93m:76021**

Ma, Keju (*with* Pravica, D. W.) Stokes flow in a two-dimensional spatially periodic boundary driven by a combination of line singularities. (English summary) **93i:76026**

— (*with* Pravica, D. W.) Separation of streamlines for spatially periodic flow at nonzero Reynolds numbers. (English summary) **93i:76027**

Mattheij, R. M. M. *see* **van de Vorst, G. A. L., 93k:76034**

Ockendon, J. R. *see* **Dewynne, J. N.; et al., 93i:76025**

Padmavathi, B. S. (*with* Amaranath, T.) A solution for the problem of Stokes flow past a porous sphere. (English summary) **93m:76022**

Pickering, W. M. *see* **Sozou, C., 93m:76025**

Power, Henry Low Reynolds number deformation of compound drops in shear flow. (English summary) **93m:76023**

Pozrikidis, C. ★ Boundary integral and singularity methods for linearized viscous flow. **93a:76027**

Pozzi, A. *see* **Luchini, P.; et al., 93m:76021**

Pravica, D. W. *see* **Ma, Keju, 93i:76026** *and* **93i:76027**

Qin, Yu (*with* Kaloni, P. N.) Creeping flow past a porous spherical shell. (English and German summaries) **93m:76024**

Ranger, K. B. Flow at small Reynolds numbers of a viscous fluid bounded by a corrugated boundary. (English summary) **93k:76033**

Smith, S. H. The small time behaviour for the impulsively started flow past a semi-infinite flat plate. **93e:76019**

Sozou, C. (*with* Pickering, W. M.) Development of the Stokes flow field associated with a line vortex perpendicular to a plane wall. (English summary) **93m:76025**

Usha, R. (*with* Hemalatha, K.) A note on plane Stokes flow past a shear free impermeable cylinder. (English summary) **93m:76026**

van de Vorst, G. A. L. (*with* Mattheij, R. M. M.) Numerical analysis of a 2-D viscous sintering problem with nonsmooth boundaries. (English and German summaries) **93k:76034**

Wilmott, P. *see* **Dewynne, J. N.; et al., 93i:76025**

Items with secondary classifications in 76D07

Achdou, Yves (*with* Pironneau, Olivier) Integral equations for the generalized Stokes operator. (French summary) **93c:65160**

— (*with* Glowinski, Roland; Pironneau, Olivier) Tuning the mesh of a mixed method for the stream function. Vorticity formulation of the Navier-Stokes equations. (English summary) **93m:65165**

Alexopoulos, A. H. *see* **Klibi, A.; et al.**

Allaire, Grégoire Continuity of the Darcy's law in the low-volume fraction limit. **93a:76096**

Antanovskiĭ, L. K. The bi-analytic stress-stream function in plane quasistationary problems of capillary hydrodynamics. (Russian) **93g:76036**

(Avellaneda, Marco) *see* **Lafarge, Denis, 93k:76111**

Bernardi, Christine (*with* Coppoletta, Giuseppe; Girault, Vivette; Maday, Yvon) Spectral methods for the Stokes problem in stream-function formulation. (English summary) (*see* **93d:65005**)

Bernstein, S. Operator calculus for elliptic boundary value problems in unbounded domains. **93e:35015**

Borchers, Wolfgang (*with* Pileckas, Konstantin) Existence, uniqueness and asymptotics of steady jets. (English summary) **93j:35129**

Bourgeat, A. (*with* El Amri, Hassan; Tapiéro, R.) Existence d'une taille critique pour une fissure dans un milieu poreux. (English summary) [Existence of a critical ratio for a fissure in a porous medium] **93c:76076**

Britton, N. F. A new method for mass transport problems with an application to haemofilters. **93a:76111**

Čadek, Ondřej (*with* Martinec, Zdeněk; Matyska, Ctirad) Spectral variational approach to the non-Newtonian Stokes problem in a spherical shell. (English summary) **93f:76002**

Carneiro de Araújo, J. H. *see* **Ruas, V.; et al., 93j:65211**

Chang, Ching Lung (*with* Fix, George J.) A mixed finite element method for Stokes problem—acceleration, pressure, formulation. (English summary) **93h:76046**

Cheng, Xiao Liang (*with* Jiang, Jin Sheng) The velocity-pressure Q_2-Q_1 finite element. (Chinese. English summary) **93d:76038**

— *see also* **Jiang, Jin Sheng, 93b:65141**

Chester, W. The matching condition for two-dimensional flow at low Reynolds number: with application to the motion of an elliptic cylinder. (English summary) **93f:76040**

Coppoletta, Giuseppe *see* **Bernardi, Christine; et al., (93d:65005)**

Deville, M. O. Chebyshev collocation solutions of flow problems. (English summary) (*see* **93d:65005**)

El Amri, Hassan *see* **Bourgeat, A.; et al., 93c:76076**

Èmanuilov, O. Yu. *see* **Fursikov, A. V.**

Fix, George J. *see* **Chang, Ching Lung, 93h:76046**

Fortin, Michel (*with* Mghazli, Z.) Analyse d'un élément mixte pour le problème de Stokes. I. Résultats généraux. (English summary) [Analysis of a mixed element for the Stokes problem. I. General results] **93g:76078**

— (*with* Mghazli, Z.) Analyse d'un élément mixte pour le problème de Stokes. II. Construction et estimations d'erreur. (English summary) [Analysis of a mixed element for the Stokes problem. II. Construction and error estimates] **93i:76054**

— (*with* Pierre, R.) Stability analysis of discrete generalized Stokes problems. **93b:65139**

Franca, Leopoldo P. (*with* Karam Filho, José; Loula, Abimael F. D.; Stenberg, R.) A convergence analysis of a stabilized method for the Stokes flow. (Portuguese summary) **93b:65168**

Frincu, Guerino The solution of Stokes equation by the boundary element method. (English summary) **93g:65152**

— Stokes equation study by integral equations method. (English summary) **93g:65153**

Fursikov, A. V. (*with* Èmanuilov, O. Yu.) ε-controllability of the Stokes problem with distributed control concentrated in a subdomain. (Russian)

Girault, Vivette (*with* Giroire, J.; Sequeira, A.) A stream-function–vorticity variational formulation for the exterior Stokes problem in weighted Sobolev spaces. **93d:35113**

— *see also* **Bernardi, Christine; et al., (93d:65005)**

Giroire, J. *see* **Girault, Vivette; et al., 93d:35113**

Glowinski, Roland Ensuring well-posedness by analogy: Stokes problem and boundary control for the wave equation. (English summary) **93j:65179**

— *see also* **Achdou, Yves; et al., 93m:65165**

Goubet, Olivier Séparation des variables dans le problème de Stokes. Application à son approximation multiéchelles éléments finis. (English and French summaries) [Separation of variables in the Stokes problem. Application to its multiscale finite-element approximation] **93j:65180**

Gunzburger, Max D. (*with* Hou, Steven L.) Treating inhomogeneous essential boundary conditions in finite element methods and the calculation of boundary stresses. **93d:76039**

Hebeker, F.-K. An integral equation of the first kind for a free boundary value problem of the stationary Stokes' equations. (English summary) **93g:35147**

Heinrichs, Wilhelm Splitting techniques for the pseudospectral approximation of the unsteady Stokes equations. (English summary) **93i:65097**

Hou, Steven L. *see* **Gunzburger, Max D., 93d:76039**

Ingber, Marc S. (*with* Li, J.) A method of regularization of the hypersingular integral contained in the traction boundary integral equation for the Stokes flow problem. (English summary) (*see* **93b:65002**)

— (*with* Mondy, L. A.) Direct second kind boundary integral formulation for Stokes flow problems. (English summary) **93i:76058**

James, Douglas Implicit nullspace iterative methods for constrained least squares problems. **93b:65055**

Jensen, Soren S. p-version of mixed finite element methods for Stokes-like problems. (English summary) **93m:76058**

Jiang, Jin Sheng (*with* Cheng, Xiao Liang) On the stability of biquadratic-bilinear velocity-pressure finite elements. **93b:65141**

— *see also* **Cheng, Xiao Liang, 93d:76038**

Karam Filho, José (*with* Loula, Abimael F. D.) A nonstandard application of Babuška-Brezzi theory to finite element analysis of Stokes problem. (English and Portuguese summaries) **93c:65117**

— *see also* **Franca, Leopoldo P.; et al., 93b:65168**

Klibi, A. (*with* Alexopoulos, A. H.; Wiest, J. M.) Singularity cancellation in boundary integral equations for axisymmetric Stokes flow.

Kozono, Hideo (*with* Sohr, Hermann) On a new class of generalized solutions for the Stokes equations in exterior domains. **93m:35144**

Lafarge, Denis Comments on: "Rigorous link between fluid permeability, electrical conductivity, and relaxation times for transport in porous media" [Phys. Fluids A 3 (1991), no. 11, 2529–2540; MR 92j:76090] by M. Avellaneda and S. Torquato. (English summary) **93k:76111**

Li, J. *see* **Ingber, Marc S., (93b:65002)**

Loula, Abimael F. D. *see* **Franca, Leopoldo P.; et al., 93b:65168** *and* **Karam Filho, José, 93c:65117**

L'vov, V. A. A probabilisitic problem that arises in describing the motion of solid particles in a fluid. (Russian) **93i:76071**

Maday, Yvon (*with* Meiron, D. I.; Patera, Anthony T.; Rønquist, Einar M.) Analysis of iterative methods for the steady and unsteady Stokes problem: application to spectral element discretizations. (English summary) **93k:65099**

— *see also* **Bernardi, Christine; et al., (93d:65005)**

Martinec, Zdeněk *see* **Čadek, Ondřej; et al., 93f:76002**

Mattheij, R. M. M. *see* **van de Vorst, G. A. L., (93b:65002)**

Matyska, Ctirad *see* **Čadek, Ondřej; et al., 93f:76002**

Meiron, D. I. *see* **Maday, Yvon; et al., 93k:65099**
Mel'nik, S. I. Investigation of an explicit difference scheme for the nonstationary Stokes problem. (Russian) **93b:76061**
Mghazli, Z. *see* **Fortin, Michel, 93g:76078** *and* **93i:76054**
Mondy, L. A. *see* **Ingber, Marc S., 93i:76058**
Mukhtarova, O. V. (*with* Smirnov, L. P.) The effect of the surface tension gradient on the motion of a spherical and deformed drop. (Russian) **93h:76023**
Nicolaides, R. A. Analysis and convergence of the MAC scheme. I. The linear problem. (English summary) **93j:65143**
Pal'tsev, B. V. Rapidly converging iterative methods with splitting of the boundary conditions for a Stokes-type multidimensional system. Periodic "flows" between parallel walls. (Russian) **93k:76089**
Pascal, H. Similarity solutions to some unsteady flows of non-Newtonian fluids of power law behavior. (English summary) **93f:76003**
Patera, Anthony T. *see* **Maday, Yvon; et al., 93k:65099**
Peskin, Charles S. *see* **Tu, Cheng, 93g:76097**
Pierre, R. *see* **Fortin, Michel, 93b:65139**
Pileckas, Konstantin *see* **Borchers, Wolfgang, 93j:35129**
Pironneau, Olivier *see* **Achdou, Yves, 93c:65160** *and* **93m:65165**
de Power, B. F. *see* **Power, Henry, 93i:76033**
Power, Henry (*with* de Power, B. F.) Second-kind integral equation formulation for the slow motion of a particle of arbitrary shape near a plane wall in a viscous fluid. (English summary) **93i:76033**
Rønquist, Einar M. *see* **Maday, Yvon; et al., 93k:65099**
Ruas, V. (*with* Carneiro de Araújo, J. H.; Silva Ramos, M. A. M.) Approximation of the three-field Stokes system via optimized quadrilateral finite elements. (English and French summaries) **93j:65211**
Scarbnick, Carl D. *see* **Strikwerda, John C., 93h:65156**
Sequeira, A. *see* **Girault, Vivette; et al., 93d:35113**
Silva Ramos, M. A. M. *see* **Ruas, V.; et al., 93j:65211**
Smirnov, L. P. *see* **Mukhtarova, O. V., 93h:76023**
Sohr, Hermann *see* **Kozono, Hideo, 93m:35144**
Stenberg, R. *see* **Franca, Leopoldo P.; et al., 93b:65168**
Strikwerda, John C. (*with* Scarbnick, Carl D.) A domain decomposition method for incompressible viscous flow. (English summary) **93h:65156**
Tapiéro, R. *see* **Bourgeat, A.; et al., 93c:76076**
Tarzia, Domingo A. Numerical analysis of a Stokes equation. (Spanish. English and Spanish summaries) **93m:76063**
(Torquato, S.) *see* **Lafarge, Denis, 93k:76111**
Tu, Cheng (*with* Peskin, Charles S.) Stability and instability in the computation of flows with moving immersed boundaries: a comparison of three methods. (English summary) **93g:76097**
Voevodin, A. F. Stability of Thom conditions for the Stokes difference boundary value problem. (Russian. Russian summary)
— Stability and realization of Thom conditions for the Stokes difference boundary value problem. (Russian. Russian summary) **93j:76046**
— Stability and realization of implicit schemes for the Stokes equations. (Russian. Russian summary) **93j:65141**
van de Vorst, G. A. L. (*with* Mattheij, R. M. M.) A BDF-BEM scheme for modelling viscous sintering. (English summary) (*see* **93b:65002**)
Wang, Hong A boundary element method for steady-state two-dimensional Stokes flows and its asymptotic error estimates. (English summary) **93k:76079**
Wiest, J. M. *see* **Klibi, A.; et al.**
Ye, Xing De A spectral τ approximation for the two-dimensional Stokes problem. (Chinese. English and Chinese summaries) **93j:65193**
Zhang, Tie Mixed mesh finite elements for solving the stationary Stokes problem. (Chinese. English summary) **93e:65120**

76D08 Lubrication theory

Abell, M. L. (*with* Ames, William F.) Symmetry reduction of Reynolds equation and applications to film lubrication. (English summary) **93d:76015**
Ames, William F. *see* **Abell, M. L., 93d:76015**
Boldyrev, Yu. Ya. Periodic variational problem associated with the linear Reynolds equation. (Russian. Russian summary) **93j:76026**
Chen, Da Rong A lubrication solution to the Prandtl-Eyring constitutive equation. (Chinese. English and Chinese summaries) **93i:76028**
Durany, J. (*with* Vázquez, C.) Existence and uniqueness of the solution of a piezoviscous lubrication problem with axial inflow. (Spanish. English summary) (*see* **93j:00009**)
— (*with* García Lomba, Guillermo; Vázquez, C.) Numerical solution of free-boundary problems in piezoviscous lubrication. (Spanish. English summary) (*see* **93j:00009**)
Entov, V. M. (*with* Ètingof, P. I.) Some exact solutions of the thin-sheet stamping problem. (Russian. Russian summary) **93i:76029**
Ètingof, P. I. *see* **Entov, V. M., 93i:76029**
García Lomba, Guillermo *see* **Durany, J.; et al., (93j:00009)**
Grigor'ev, B. S. Application of the method of conjugate equations to nonstationary problems of gas lubrication. (Russian) **93a:76028**
Grotberg, J. B. *see* **Jensen, O. E., 93f:76026**
Jensen, O. E. (*with* Grotberg, J. B.) Insoluble surfactant spreading on a thin viscous film: shock evolution and film rupture. (English summary) **93f:76026**
Lister, John R. Viscous flows down an inclined plane from point and line sources. (English summary) **93g:76040**
Nizameev, Kh. R. Stability of a rigid body on a thin layer of a viscous gas. (Russian) **93f:76027**
Vázquez, C. *see* **Durany, J., (93j:00009)** *and* **(93j:00009)**

Items with secondary classifications in 76D08

Abell, M. L. (*with* Ames, William F.) Semi-symmetry reduction of partial differential equations. (English summary) (*see* **93j:00008**)
Ames, William F. *see* **Abell, M. L., (93j:00008)**
Bayada, Guy (*with* Chambat, Michèle) Conditions aux limites à l'interface d'un milieu poreux et d'un écoulement libre de faible épaisseur. (English and French summaries) [On boundary conditions at the interface between a thin film flow and a porous medium] **93f:76093**
— *see also* **Jai, M.; et al., 93g:65130**
Chambat, Michèle *see* **Bayada, Guy, 93f:76093** *and* **Jai, M.; et al., 93g:65130**
Georgiou, E. (*with* Maldarelli, C.; Papageorgiou, D. T.; Rumschitzki, D. S.) An asymptotic theory for the linear stability of a core-annular flow in the thin annular limit. (English summary) **93g:76062**
Jai, M. (*with* Bayada, Guy; Chambat, Michèle) The L.P.D.E.M., a mixed finite difference method for elliptic problems. (English summary) **93g:65130**
King, Andrew Charles (*with* Tuck, E. O.; Vanden-Broeck, Jean-Marc) Air-blown waves on thin viscous sheets. (English summary) **93k:76035**
Kytömaa, H. K. (*with* Schmid, Peter J.) On the collision of rigid spheres in a weakly compressible fluid. (English summary) **93h:76006**
Maldarelli, C. *see* **Georgiou, E.; et al., 93g:76062**
Papageorgiou, D. T. *see* **Georgiou, E.; et al., 93g:76062**
Rumschitzki, D. S. *see* **Georgiou, E.; et al., 93g:76062**
Schmid, Peter J. *see* **Kytömaa, H. K., 93h:76006**
Tuck, E. O. *see* **King, Andrew Charles; et al., 93k:76035**
Vanden-Broeck, Jean-Marc *see* **King, Andrew Charles; et al., 93k:76035**
Wierzcholski, K. Estimation of solutions of basic equations for non-Newtonian fluid flow in a film between two nonrotational surfaces. **93d:76003**

76D10 Boundary-layer theory

Abd-el-Malek, M. B. *see* **Boutros, Y. Z.; et al., 93a:76030**
Badran, N. A. *see* **Boutros, Y. Z.; et al., 93a:76030**
Berbente, C. (*with* Tătăranu, C.) A polynomial method for the calculation of the laminar incompressible boundary layer. **93d:76016**
Betyaev, S. K. Mathematical models in outflow problems. (Russian. English and Russian summaries)
Bodonyi, R. J. (*with* Duck, Peter W.) Boundary-layer receptivity due to a wall suction and control of Tollmien-Schlichting waves. **93a:76029**
Boutros, Y. Z. (*with* Abd-el-Malek, M. B.; Badran, N. A.) Group-theoretic approach for solving time-independent free-convective boundary layer flow on a nonisothermal vertical flat plate. (Russian and Polish summaries) **93a:76030**
Cousteix, J. Calculation methods of three-dimensional boundary layers. (English summary) **93f:76028**
Crouch, J. D. Nonlocalized receptivity of boundary layers. (English summary) **93h:76021**
Daniels, P. G. A singularity in thermal boundary-layer flow on a horizontal surface. (English summary) **93f:76029**
Degani, A. T. (*with* Smith, F. T.; Walker, J. D. A.) The structure of a three-dimensional turbulent boundary layer. (English summary) **93m:76027**
Ding, Zhong Man (*with* Wang, Zhi Qing) The new solution for the axially symmetrical laminar boundary layer equations between two parallel spherical surfaces. (Chinese. English and Chinese summaries)
Doorly, D. J. (*with* Smith, F. T.) Initial value problems for spot disturbances in incompressible or compressible boundary layers. **93a:76031**
Duck, Peter W. *see* **Bodonyi, R. J., 93a:76029**
Ece, Mehmet Cem The initial boundary-layer flow past a translating and spinning rotational symmetric body. (English summary)
Fazio, Riccardo The Blasius problem formulated as a free boundary value problem. (English summary) **93f:76030**
Grundmann, R. Introduction to three-dimensional boundary layers. (English summary) **93f:76031**
Ignatovich, N. V. *see* **Vorob'ev, E. M., 93f:76032**
Kachanov, Yu. S. (*with* Ryzhov, O. S.) Formation of solitons in a transitional boundary layer. Theory and experiment. (Russian) **93d:76017**
Luněv, V. V. *see* **Voitkova, G. V., 93d:76018**
Manuilovich, S. V. A method for the laminarization of a boundary layer on a vibrating wing. (Russian) **93a:76032**
Ryzhov, O. S. (*with* Terent'ev, E. D.) Wave motions in a three-dimensional boundary layer. (Russian) **93c:76020**
— *see also* **Kachanov, Yu. S., 93d:76017**
Shalov, V. I. A boundary layer on thin wings of low aspect ratio. (Russian) **93c:76021**
Smith, F. T. *see* **Doorly, D. J., 93a:76031** *and* **Degani, A. T.; et al., 93m:76027**
Tătăranu, C. *see* **Berbente, C., 93d:76016**
Terent'ev, E. D. *see* **Ryzhov, O. S., 93c:76020**
Voitkova, G. V. (*with* Luněv, V. V.) Discontinuous solutions of boundary layer equations with a positive pressure gradient. (Russian) **93d:76018**
Vorob'ev, E. M. (*with* Ignatovich, N. V.) Group analysis of a boundary value problem for equations of a laminar boundary layer. (Russian. English summary) **93f:76032**
Wadey, P. D. On the development of Görtler vortices in wall jet flow. **93c:76022**
Walker, J. D. A. *see* **Degani, A. T.; et al., 93m:76027**
Wang, Zhi Qing *see* **Ding, Zhong Man**
Yuan, Yi Wu An approximate analytical solution of the laminar boundary layer equations. (Chinese. English and Chinese summaries)

Items with secondary classifications in 76D10

Abramyan, L. A. (*with* Stepan'yants, Yu. A.; Shrira, V. I.) Non-one-dimensional solitons in shear flows of boundary layer type. (Russian)
Bassom, Andrew P. (*with* Hall, Philip[2]) On the interaction of Görtler vortices and Tollmien-Schlichting waves in boundary layer flows. (English summary) **93m:76039**
— (*with* Seddougui, Sharon O.) The effects of suction on the nonlinear stability of the three-dimensional boundary layer above a rotating disc. (English summary) **93e:76032**
— Time-dependent inviscid vortices in three-dimensional boundary layers. (English summary) **93i:76034**
Berkooz, Gal (*with* Holmes, Philip J.; Lumley, John L.) Control of the turbulent boundary layer and dynamical systems theory: an update. (*see* **93b:76001**)

— (*with* Holmes, Philip J.; Lumley, John L.) Low-dimensional models of the wall region in a turbulent boundary layer: new results. (English summary) **93i:76043**
Bertolotti, F. P. (*with* Herbert, Th.; Spalart, P. R.) Linear and nonlinear stability of the Blasius boundary layer. (English summary) **93g:76061**
Blennerhassett, P. *see* **Smith, F. T., 93e:76035**
Bowles, R. I. (*with* Smith, F. T.) The standing hydraulic jump: theory, computations and comparisons with experiments. (English summary) **93f:76038**
— *see also* **Walton, A. G.; et al., 93k:76051**
Carmona, Carlos *see* **Power, Henry; et al., 93c:76039**
Choudhari, Meelan (*with* Hall, Philip[2]) On the nonlinear evolution of large wavelength Görtler vortices. (English summary) **93k:76047**
Denier, James P. (*with* Hall, Philip[2]) On the nonlinear development of the most unstable Görtler vortex mode. (English summary) **93m:76040**
van Duijn, C. J. (*with* Peletier, L. A.) A boundary-layer problem in fresh-salt groundwater flow. **93c:76077**
Gittler, Philipp On similarity solutions occurring in the theory of interactive laminar boundary layers. (English summary) **93g:76100**
Grosch, C. E. (*with* Jackson, T. L.; Kapila, A. K.) Nonseparable eigenmodes of the incompressible boundary layer. (English summary) (*see* **93j:76004**)
Hall, Philip[2] (*with* Morris, Helen) On the instability of boundary layers on heated flat plates. (English summary) **93i:76036**
— *see also* **Choudhari, Meelan, 93k:76047; Bassom, Andrew P., 93m:76039** *and* **Denier, James P., 93m:76040**
Herbert, Th. *see* **Bertolotti, F. P.; et al., 93g:76061**
Holmes, Philip J. *see* **Berkooz, Gal; et al., 93i:76043** *and* **(93b:76001)**
(Hussaini, M. Y.) *see* **Instability, transition, and turbulence, 93j:76004**
Ingham, D. B. (*with* Yan, B.) Fluid flows around cascades. (English summary) **93m:76018**
Jackson, T. L. *see* **Grosch, C. E.; et al., (93j:76004)**
Kapila, A. K. *see* **Grosch, C. E.; et al., (93j:76004)**
Khusnutdinova, N. V. A model of a boundary layer with separation. (Russian. Russian summary) **93d:35129**
Koch, Werner On a degeneracy of temporal secondary instability modes in Blasius boundary-layer flow. (English summary) **93g:76053**
(Kumar, Ajay[2]) *see* **Instability, transition, and turbulence, 93j:76004**
Lumley, John L. *see* **Berkooz, Gal; et al., 93i:76043** *and* **(93b:76001)**
Málek, Josef (*with* Nečas, Jindřich; Novotný, Antonín) Measure-valued solutions and asymptotic behavior of a multipolar model of a boundary layer. **93h:35159**
Morris, Helen *see* **Hall, Philip[2], 93i:76036**
Nečas, Jindřich *see* **Málek, Josef; et al., 93h:35159**
Neish, A. (*with* Smith, F. T.) On turbulent separation in the flow past a bluff body. (English summary) **93f:76033**
Novotný, Antonín *see* **Málek, Josef; et al., 93h:35159**
Otto, S. R. On stability of the flow around an oscillating sphere. **93a:76041**
Pakdemirli, Mehmet (*with* Şuhubi, Erdoğan S.) Boundary layer theory for second order fluids. **93a:76003**
— (*with* Şuhubi, Erdoğan S.) Similarity solutions of boundary layer equations for second order fluids. **93b:76004**
Peletier, L. A. *see* **van Duijn, C. J., 93c:76077**
Petrovich, V. Yu. An estimate for the quality of computational algorithms in the calculation of a stationary boundary layer by the integral relation method. (Russian) **93a:76078**
Popov, S. P. Soliton perturbations induced by an oscillator in a boundary layer. (Russian) **93b:76042**
Power, Henry (*with* Villegas, Miguel; Carmona, Carlos) Nonlinear inertial effects on the instability of a single long wave of finite amplitude at the interface of two viscous fluids. **93c:76039**
Ridha, A. On the dual solutions associated with boundary-layer equations in a corner. (English summary) **93i:76035**
Schetz, Joseph A. ★ Boundary layer analysis. **93k:76002**
Seddougui, Sharon O. *see* **Bassom, Andrew P., 93e:76032**
Shrira, V. I. *see* **Abramyan, L. A.; et al.**
Smith, F. T. (*with* Blennerhassett, P.) Nonlinear interaction of oblique three-dimensional Tollmien-Schlichting waves and longitudinal vortices, in channel flows and boundary layers. (English summary) **93e:76035**
— *see also* **Neish, A., 93f:76033; Bowles, R. I., 93f:76038** *and* **Walton, A. G.; et al., 93k:76051**
Sod, Gary A. A numerical model of a thermal boundary layer. **93d:76052**
Spalart, P. R. *see* **Bertolotti, F. P.; et al., 93g:76061**
Stepan'yants, Yu. A. *see* **Abramyan, L. A.; et al.**
(Streett, C. L.) *see* **Instability, transition, and turbulence, 93j:76004**
Şuhubi, Erdoğan S. *see* **Pakdemirli, Mehmet, 93a:76003** *and* **93b:76004**
Timoshin, S. N. Singularity in the solution of the equations of a three-dimensional boundary layer due to the collision of wall jets. (Russian) **93a:76033**
Villegas, Miguel *see* **Power, Henry; et al., 93c:76039**
Walton, A. G. (*with* Bowles, R. I.; Smith, F. T.) Vortex-wave interaction in a strong adverse pressure gradient. (English summary) **93k:76051**
Yan, B. *see* **Ingham, D. B., 93m:76018**

Items listed otherwise than by author

Hampton, VA ★ Instability, transition, and turbulence. **93j:76004**
Instability, transition, and turbulence ★ Instability, transition, and turbulence. **93j:76004**
Workshop:
Instability, Transition, and Turbulence ★ Instability, transition, and turbulence. **93j:76004**

76D15 Boundary-layer separation and reattachment

Neish, A. (*with* Smith, F. T.) On turbulent separation in the flow past a bluff body. (English summary) **93f:76033**
Smith, F. T. *see* **Neish, A., 93f:76033**
Vilenskiĭ, G. G. Three-dimensional local separation. (Russian) **93f:76034**

Items with secondary classifications in 76D15

Berbente, C. (*with* Tătăranu, C.) A polynomial method for the calculation of the laminar incompressible boundary layer. **93d:76016**
Bowles, R. I. (*with* Smith, F. T.) The standing hydraulic jump: theory, computations and comparisons with experiments. (English summary) **93f:76038**
Fitt, A. D. *see* **Wilmott, P., 93i:76030**
Khusnutdinova, N. V. A model of a boundary layer with separation. (Russian. Russian summary) **93d:35129**
Smith, F. T. *see* **Bowles, R. I., 93f:76038**
Tătăranu, C. *see* **Berbente, C., 93d:76016**
Wilmott, P. (*with* Fitt, A. D.) A composite cavity model for axisymmetric high Reynolds number separated flow. I. Modelling and analysis. (English summary) **93i:76030**

76D25 Wakes and jets

Chwang, Allen T. *see* **Hwang, Wei-Shien, 93f:76035**
Eckelmann, Helmut *see* **Noack, Bernd R., 93b:76027**
Fitt, A. D. *see* **Wilmott, P., 93i:76030**
Hwang, Wei-Shien (*with* Chwang, Allen T.) The swirling round laminar jet. **93f:76035**
Noack, Bernd R. (*with* Eckelmann, Helmut) On chaos in wakes. **93b:76027**
Timoshin, S. N. Singularity in the solution of the equations of a three-dimensional boundary layer due to the collision of wall jets. (Russian) **93a:76033**
Wilmott, P. (*with* Fitt, A. D.) A composite cavity model for axisymmetric high Reynolds number separated flow. I. Modelling and analysis. (English summary) **93i:76030**

Items with secondary classifications in 76D25

Borchers, Wolfgang (*with* Pileckas, Konstantin) Existence, uniqueness and asymptotics of steady jets. (English summary) **93j:35129**
Broze, George (*with* Hussain, Fazle) Spatiotemporal dynamics in transitional jet flow. (English summary) (*see* **93g:76004**)
Foster, M. R. (*with* Jacqmin, David) Nonparallel effects in the instability of Long's vortex. (English summary) **93h:76028**
Horwitz, J. (*with* Rosenblat, S.) Nonlinear stability of a viscous axisymmetric jet. (English summary) **93f:76047**
Hussain, Fazle *see* **Broze, George, (93g:76004)**
Ibrahim, E. A. *see* **Lin, Sung P.**
Irmay, Shragga New exact solutions of the Navier-Stokes equations near a plane. (English summary) **93m:76019**
Jacqmin, David *see* **Foster, M. R., 93h:76028**
Lin, Sung P. (*with* Ibrahim, E. A.) Corrigenda: "Instability of a viscous liquid jet surrounded by a viscous gas in a vertical pipe" [J. Fluid Mech. **218** (1990), 641–658; MR 91f:76027]. **Lupu, Mircea** Obtaining and studying Beltrami type equations for axially symmetric jets in magnetogasdynamics (MGD). **93e:76068**
Pileckas, Konstantin *see* **Borchers, Wolfgang, 93j:35129**
Price, W. G. (*with* Tan, Ming-Yi) Fundamental viscous solutions or "transient oseenlets" associated with a body manoeuvring in a viscous fluid. (English summary) **93g:76048**
Ramos, J. I. Annular liquid jets: formulation and steady state analysis. (English and German summaries) **93j:76014**
Rosenblat, S. *see* **Horwitz, J., 93f:76047**
Tan, Ming-Yi *see* **Price, W. G., 93g:76048**
Wadey, P. D. On the development of Görtler vortices in wall jet flow. **93c:76022**

76D30 Singular perturbation problems

Items with secondary classifications in 76D30

Chester, W. The matching condition for two-dimensional flow at low Reynolds number: with application to the motion of an elliptic cylinder. (English summary) **93f:76040**
Kirschvink, Stephen J. Shock layer behavior for a quasilinear boundary value problem. **93c:34119**
Ryzhov, O. S. (*with* Terent'ev, E. D.) Wave motions in a three-dimensional boundary layer. (Russian) **93c:76020**
Terent'ev, E. D. *see* **Ryzhov, O. S., 93c:76020**
Xu, Jian Jun[1] Global instability of viscous fingering in a Hele-Shaw cell: formation of oscillatory fingers. **93a:76048**

76D33 Waves

Arsen'ev, S. A. (*with* Gubar', A. Yu.; Rykunov, L. N.; Shelkovnikov, N. K.) A new type of instability of long waves in shallow water: nonlinear sign-variable viscosity in tides. (Russian) **93g:76041**
Barnyak, M. Ya. (*with* Tsebriĭ, R. I.) Reduction of a problem on normal oscillations of a pendulum with a cylindrical cavity filled with a viscous fluid to a system of integro-differential equations, and a projection method for their solution. (Russian. Russian summary) (*see* **93g:00025**)
Bratukhin, Yu. K. (*with* Makarov, S. O.) Secondary thermocapillary motions of soliton type. (Russian. Russian summary)
Ehrenmark, U. T. A mixed problem for the biharmonic equation in a wedge with application to dissipating linear waves on a plane beach. (English summary) **93g:76042**
Fetecău, Constantin Thermal influence on the propagation of cylindrical waves in simple fluids. (Romanian) **93a:76034**
Gubar', A. Yu. *see* **Arsen'ev, S. A.; et al., 93g:76041**
Guckenheimer, John (*with* Mahalov, Alex) Resonant triad interactions in symmetric systems. **93b:76028**
Kel'bert, M. Ya. (*with* Sazonov, I. A.) ★ Распространение импульсов в жидкостях. (Russian. English and Russian summaries) [Pulse propagation in fluids] **93m:76028**
Kevorkian, J. *see* **Yu, Jun[2], 93g:76043**
King, Andrew Charles (*with* Tuck, E. O.; Vanden-Broeck, Jean-Marc) Air-blown waves on thin viscous sheets. (English summary) **93k:76035**

Kotychenko, L. N. *see* **Tsvelodub, O. Yu.; et al., 93h:76022** *and* **93m:76029**
Lichter, Seth Quasiperiodicity, chaos, and damping in cross-waves. (English summary) **93i:76031**
Longuet-Higgins, Michael S. Theory of weakly damped Stokes waves: a new formulation and its physical interpretation. **93d:76019**
— Capillary rollers and bores. (English summary) **93e:76020**
Mahalov, Alex *see* **Guckenheimer, John, 93b:76028**
Makarov, S. O. *see* **Bratukhin, Yu. K.**
Roberts, A. J. A sub-centre manifold description of the evolution and interaction of nonlinear dispersive waves. (English summary) **93k:76036**
Rykunov, L. N. *see* **Arsen'ev, S. A.; et al., 93g:76041**
Sazonov, I. A. *see* **Kel'bert, M. Ya., 93m:76028**
Shelkovnikov, N. K. *see* **Arsen'ev, S. A.; et al., 93g:76041**
Trifonov, Yu. Ya. *see* **Tsvelodub, O. Yu.; et al., 93h:76022** *and* **93j:76027**
Tsebrii, R. I. *see* **Barnyak, M. Ya., (93g:00025)**
Tsvelodub, O. Yu. (*with* Trifonov, Yu. Ya.; Kotychenko, L. N.) Solution wave structures of model evolutional equation for active dissipative medium. (English summary) **93h:76022**
— (*with* Trifonov, Yu. Ya.) Nonlinear waves on the surface of a falling liquid film. II. Bifurcations of the first-family waves and other types of nonlinear waves. (English summary) **93j:76027**
— (*with* Kotychenko, L. N.) Spatial wave regimes on a surface of thin viscous liquid film. (English summary) **93m:76029**
Tuck, E. O. *see* **King, Andrew Charles; et al., 93k:76035**
Vanden-Broeck, Jean-Marc *see* **King, Andrew Charles; et al., 93k:76035**
Yu, Jun² (*with* Kevorkian, J.) Nonlinear evolution of small disturbances into roll waves in an inclined open channel. (English summary) **93g:76043**

Items with secondary classifications in 76D33

Abramyan, L. A. (*with* Stepan'yants, Yu. A.; Shrira, V. I.) Non-one-dimensional solitons in shear flows of boundary layer type. (Russian)
Aganović, I. Homogenization of free boundary oscillations of an inviscid fluid in a porous reservoir. (English and French summaries) **93j:35027**
Almeida, M. A. (*with* Moreira, I. C.) Lie symmetries for the reduced three-wave interaction problem. **93f:58216**
Bassom, Andrew P. (*with* Hall, Philip²) On the interaction of Görtler vortices and Tollmien-Schlichting waves in boundary layer flows. (English summary) **93m:76039**
Benney, D. J. (*with* Zhou, Yi Fan) The nonlinear instability characteristics of waves in free shear layers. **93g:35110**
Beran, Philip S. (*with* Culick, Fred E. C.) The role of nonuniqueness in the development of vortex breakdown in tubes. (English summary) **93f:76037**
Blennerhassett, P. *see* **Smith, F. T., 93e:76035**
Bodonyi, R. J. (*with* Duck, Peter W.) Boundary-layer receptivity due to a wall suction and control of Tollmien-Schlichting waves. **93a:76029**
Carmona, Carlos *see* **Power, Henry; et al., 93c:76039**
Caviglia, G. (*with* Morro, Angelo) Energy flux in dissipative media. **93c:73015**
Crouch, J. D. Nonlocalized receptivity of boundary layers. (English summary) **93h:76021**
Crow, John A. Long time classical solutions of a nonlinear wave equation. **93f:35150**
Culick, Fred E. C. *see* **Beran, Philip S., 93f:76037**
Demiray, Hilmi Wave propagation through a viscous fluid contained in a prestressed thin elastic tube. (English summary) **93g:76117**
Duck, Peter W. *see* **Bodonyi, R. J., 93a:76029**
Giovine, Pasquale (*with* Oliveri, Francesco) Wave features related to a model of compressible immiscible mixtures of two perfect fluids. (English summary) **93i:76072**
Goloshubin, G. M. *see* **Krauklis, P. V.; et al., 93g:73099**
Hall, Philip² *see* **Bassom, Andrew P., 93m:76039**
Iooss, Gérard (*with* Mielke, Alexander) Time-periodic Ginzburg-Landau equations for one-dimensional patterns with large wave length. **93e:58168**
Jeffrey, Alan A brief history of solitons. (*see* **93g:00030**)
Kachanov, Yu. S. (*with* Ryzhov, O. S.) Formation of solitons in a transitional boundary layer. Theory and experiment. (Russian) **93d:76017**
Krauklis, L. A. *see* **Krauklis, P. V.; et al., 93g:73099**
Krauklis, P. V. (*with* Goloshubin, G. M.; Krauklis, L. A.) A low-velocity wave in a layer of a fluid that models an oilfield stratum. (Russian. English and Russian summaries) **93g:73099**
Martínez Alonso, L. (*with* Medina Reus, E.) Soliton interaction with change of form in the classical Boussinesq system. **93d:35135**
McCarthy, Matthew F. Pulse propagation in particulate suspensions. (English summary) **93k:76118**
Medina Reus, E. *see* **Martínez Alonso, L., 93d:35135**
Meyer, R. E. (*with* Strikwerda, John C.; Vanden-Broeck, Jean-Marc) Notes on wave attenuation on beaches. (English summary) **93k:86005**
Mielke, Alexander *see* **Iooss, Gérard, 93e:58168**
Moreira, I. C. *see* **Almeida, M. A., 93f:58216**
Morro, Angelo *see* **Caviglia, G., 93c:73015**
Oliveri, Francesco *see* **Giovine, Pasquale, 93i:76072**
Power, Henry (*with* Villegas, Miguel; Carmona, Carlos) Nonlinear inertial effects on the instability of a single long wave of finite amplitude at the interface of two viscous fluids. **93c:76039**
Ryzhov, O. S. (*with* Terent'ev, E. D.) Wave motions in a three-dimensional boundary layer. (Russian) **93c:76020**
— *see also* **Kachanov, Yu. S., 93d:76017**
Shrira, V. I. *see* **Abramyan, L. A.; et al.**
Smith, F. T. (*with* Blennerhassett, P.) Nonlinear interaction of oblique three-dimensional Tollmien-Schlichting waves and longitudinal vortices, in channel flows and boundary layers. (English summary) **93e:76035**
Stepan'yants, Yu. A. *see* **Abramyan, L. A.; et al.**
Strikwerda, John C. *see* **Meyer, R. E.; et al., 93k:86005**
Şuhubi, Erdoğan S. *see* **Ünal, G., 93c:76028**
Terent'ev, E. D. *see* **Ryzhov, O. S., 93c:76020**
Troshkin, O. V. Waves in turbulent media. (English summary) **93k:76068**
Ünal, G. (*with* Şuhubi, Erdoğan S.) Travelling waves and chaos in the Kolmogorov-Spiegel-Sivashinsky model. **93c:76028**
Vanden-Broeck, Jean-Marc *see* **Meyer, R. E.; et al., 93k:86005**
Villegas, Miguel *see* **Power, Henry; et al., 93c:76039**
Wolansky, Gershon Stationary and quasi-stationary shock waves for non-spatially homogeneous Burgers equation in the limit of small dissipation. I. **93h:35185**
Zhang, Keke On equatorially trapped boundary inertial waves. (English summary) **93k:76121**
Zhou, Yi Fan *see* **Benney, D. J., 93g:35110**

76D45 Capillarity [see also 76B45]

Antanovskii, L. K. The effect of capillary forces on the non-steady-state fall of a drop in an unbounded fluid. (Russian) **93c:76023**
Hocking, Leslie M. Rival contact-angle models and the spreading of drops. **93a:76035**
Jeong, Jae-Tack (*with* Moffatt, H. Keith) Free-surface cusps associated with flow at low Reynolds numbers. (English summary) **93f:76036**
Moffatt, H. Keith *see* **Jeong, Jae-Tack, 93f:76036**
Mukhtarova, O. V. (*with* Smirnov, L. P.) The effect of the surface tension gradient on the motion of a spherical and deformed drop. (Russian) **93h:76023**
Smirnov, L. P. *see* **Mukhtarova, O. V., 93h:76023**

Items with secondary classifications in 76D45

Antanovskii, L. K. Transient motion of a drop in boundless liquid with surfactants. (English and Bulgarian summaries)
— The bi-analytic stress-stream function in plane quasistationary problems of capillary hydrodynamics. (Russian) **93g:76036**
Bowles, R. I. (*with* Smith, F. T.) The standing hydraulic jump: theory, computations and comparisons with experiments. (English summary) **93f:76038**
Budnik, A. M. (*with* Polevikov, V. K.) Modeling of a free surface of annular magnetofluid seals by means of the boundary element method. (Russian. Russian summary) **93i:76057**
Dijkstra, Henk A. On the structure of cellular solutions in Rayleigh-Bénard-Marangoni flows in small-aspect-ratio containers. (English summary) **93g:76056**
Fleury, Françoise Sédimentation d'une suspension de gouttelettes visqueuses sphériques. (French summary) [Sedimentation of a suspension of spherical viscous droplets] **93g:76045**
Georgiou, E. (*with* Maldarelli, C.; Papageorgiou, D. T.; Rumschitzki, D. S.) An asymptotic theory for the linear stability of a core-annular flow in the thin annular limit. (English summary) **93g:76062**
Grigor'ev, A. I. (*with* Lazaryants, A. È.) A method for solving the Navier-Stokes equation in curvilinear coordinate systems. (Russian) **93d:35115**
Grotberg, J. B. *see* **Jensen, O. E., 93f:76026**
Gurtin, Morton E. (*with* Soner, H. Mete) Some remarks on the Stefan problem with surface structure. **93d:35181**
Hattori, Harumi (*with* Mischaikow, Konstantin) On the slow motions of phase boundaries in the Korteweg theory of capillarity. (English summary) **93k:35232**
Hocking, Leslie M. (*with* Miksis, Michael J.) Stability of a ridge of fluid. (English summary) **93m:76044**
Ibrahim, E. A. *see* **Lin, Sung P.**
Jensen, O. E. (*with* Grotberg, J. B.) Insoluble surfactant spreading on a thin viscous film: shock evolution and film rupture. (English summary) **93f:76026**
Lazaryants, A. È. *see* **Grigor'ev, A. I., 93d:35115**
Lin, Sung P. (*with* Ibrahim, E. A.) Corrigenda: "Instability of a viscous liquid jet surrounded by a viscous gas in a vertical pipe" [J. Fluid Mech. **218** (1990), 641–658; MR 91f:76027].
Lindsay, K. A. (*with* Straughan, Brian) Nonlinear temperature-dependent surface tension driven convection. **93e:76025**
Longuet-Higgins, Michael S. Capillary rollers and bores. (English summary) **93e:76020**
Maldarelli, C. *see* **Georgiou, E.; et al., 93g:76062**
Mattheij, R. M. M. *see* **van de Vorst, G. A. L., 93k:76034**
Meyer, R. E. (*with* Strikwerda, John C.; Vanden-Broeck, Jean-Marc) Notes on wave attenuation on beaches. (English summary) **93k:86005**
Miksis, Michael J. *see* **Hocking, Leslie M., 93m:76044**
Mischaikow, Konstantin *see* **Hattori, Harumi, 93k:35232**
Papageorgiou, D. T. *see* **Georgiou, E.; et al., 93g:76062**
Paşa, Gelu I. (*with* Poliševski, Dan) Instability of interfaces in oil recovery. **93a:76102**
Polevikov, V. K. *see* **Budnik, A. M., 93i:76057**
Poliševski, Dan *see* **Paşa, Gelu I., 93a:76102**
Rumschitzki, D. S. *see* **Georgiou, E.; et al., 93g:76062**
Smith, F. T. *see* **Bowles, R. I., 93f:76038**
Soner, H. Mete *see* **Gurtin, Morton E., 93d:35181**
Straughan, Brian *see* **Lindsay, K. A., 93e:76025**
Strikwerda, John C. *see* **Meyer, R. E.; et al., 93k:86005**
Sutyrin, V. G. The minimal surface that divides into different regions in a space or the structure of an ideal dry foam. (Russian) **93k:53011**
Vanden-Broeck, Jean-Marc *see* **Meyer, R. E.; et al., 93k:86005**
van de Vorst, G. A. L. (*with* Mattheij, R. M. M.) Numerical analysis of a 2-D viscous sintering problem with nonsmooth boundaries. (English and German summaries) **93k:76034**
Xu, Jian Jun¹ Global instability of viscous fingering in a Hele-Shaw cell: formation of oscillatory fingers. **93a:76048**

76D99 None of the above, but in this section

Antanovskii, L. K. Transient motion of a drop in boundless liquid with surfactants. (English and Bulgarian summaries)
Benjamin, T. Brooke Note on formulas for the drag of a sphere. (English summary) **93i:76032**
Beran, Philip S. (*with* Culick, Fred E. C.) The role of nonuniqueness in the development of vortex breakdown in tubes. (English summary) **93f:76037**

Berezovsky, Arkady (*with* Kaplansky, Felix) Dynamics of thin vortex rings in a viscous fluid. (Russian and Estonian summaries) **93g:76044**

Bowles, R. I. (*with* Smith, F. T.) The standing hydraulic jump: theory, computations and comparisons with experiments. (English summary) **93f:76038**

Breuer, H. P. (*with* Petruccione, Francesco) A stochastic formulation of Burgers' equation. (English summary) **93j:76028**

Champneys, A. R. Homoclinic tangencies in the dynamics of articulated pipes conveying fluid. (English summary) **93k:76037**

Chang, Chien Cheng Potential flow and forces for incompressible viscous flow. **93c:76024**

Chester, W. The forces on a body moving through a viscous fluid. (English summary) **93f:76039**

— The matching condition for two-dimensional flow at low Reynolds number: with application to the motion of an elliptic cylinder. (English summary) **93f:76040**

Cioranescu, Doïna (*with* Saint Jean Paulin, J.) Particules déformables en suspension dans un fluide visqueux. (English summary) [Suspensions of deformable particles in a viscous fluid] **93b:76029**

Couder, Yves Growth patterns: from stable curved fronts to fractal structures. **93m:76030**

Culick, Fred E. C. *see* **Beran, Philip S., 93f:76037**

Currò, Carmela (*with* Donato, A.; Povzner, A. Ya.) Perturbation method for a generalized Burgers' equation. **93b:76030**

Donato, A. *see* **Currò, Carmela; et al., 93b:76030**

Dresselhaus, Eliot (*with* Tabor, M.) The kinematics of stretching and alignment of material elements in general flow fields. **93a:76036**

Dzhaikbaev, A. M. (*with* Isaev, S. A.) Parabolic approximation of a diffusion model of an inhomogeneous fluid. (Russian. Russian summary) **93k:76038**

Easwaran, C. V. (*with* Kokal, S. L.) A theory for transient discharge in tubes with applications to a new type of viscometer. (English summary) **93h:76024**

Erunova, I. B. (*with* Rivkind, V. Ya.) Investigation of the problem of liquid evaporation. (Russian. English summary) **93b:76031**

Fleury, Françoise Sédimentation d'une suspension de gouttelettes visqueuses sphériques. (French summary) [Sedimentation of a suspension of spherical viscous droplets] **93g:76045**

Frenkel, Alexander L. *see* **Sivashinsky, Gregory I., 93d:76021**

Giniatullin, A. I. *see* **Maslennikova, V. N., 93c:76026**

Gol'dshtein, R. V. (*with* Mosolov, A. B.) Flows of fractal-crushed ice. (Russian)

(Gol'dshtik, M. A.) *see* **Sozou, C., 93h:76026**

Hämäläinen, Jari ★ Mathematical modelling and simulation of fluid flows in the headbox of paper machines.

Hu, Howard H. (*with* Joseph, Daniel D.) Miscible displacement in a Hele-Shaw cell. (English summary) **93c:76025**

Ingham, D. B. *see* **Yuan, Y., (93i:76003)**

Isaev, S. A. *see* **Dzhaikbaev, A. M., 93k:76038**

Ivanova, N. I. Numerical solution of a problem on periodic motions of a non-linearly viscous fluid in a plane slit. (Russian. Russian summary) (*see* **93g:00023**)

Joseph, Daniel D. *see* **Hu, Howard H., 93c:76025**

Kaplansky, Felix *see* **Berezovsky, Arkady, 93g:76044**

Klein, Rupert (*with* Majda, Andrew J.; McLaughlin, Richard M.) Asymptotic equations for the stretching of vortex filaments in a background flow field. (English summary) **93h:76025**

Kochina, N. N. On the motion of a viscous fluid in a pipe of finite length. (Russian. Russian summary) **93g:76046**

Kokal, S. L. *see* **Easwaran, C. V., 93h:76024**

Majda, Andrew J. *see* **Klein, Rupert; et al., 93h:76025**

Maslennikova, V. N. (*with* Giniatullin, A. I.) On the intrusion problem in a viscous stratified fluid for three space variables. (Russian) **93c:76026**

McLaughlin, Richard M. *see* **Klein, Rupert; et al., 93h:76025**

Mosolov, A. B. *see* **Gol'dshtein, R. V.**

Ngô Huy Can (*with* Tran Thu Ha) The convective motion of an incompressible viscous fluid contained in an elastic cylindrical shell. **93k:76039**

Osterle, Fletcher On the relationship between Lorentz's theorem for viscous flow and Onsager's reciprocal theorem. (English summary) **93g:76047**

Petruccione, Francesco *see* **Breuer, H. P., 93j:76028**

Povzner, A. Ya. *see* **Currò, Carmela; et al., 93b:76030**

de Power, B. F. *see* **Power, Henry, 93i:76033**

Power, Henry (*with* de Power, B. F.) Second-kind integral equation formulation for the slow motion of a particle of arbitrary shape near a plane wall in a viscous fluid. (English summary) **93i:76033**

Price, W. G. (*with* Tan, Ming-Yi) Fundamental viscous solutions or "transient oseenlets" associated with a body manoeuvring in a viscous fluid. (English summary) **93g:76048**

Rajagopal, K. R. Flows between rotating plates. (*see* **93j:35004**)

Rankin, Samuel M., III *see* **Tang, Dalin, 93m:76032**

Richardson, Stanley Hele-Shaw flows with time-dependent free boundaries involving injection through slits. **93g:76049**

Riley, N. Oscillating viscous flows. II. Superposed oscillations. **93d:76020**

Rivkind, V. Ya. *see* **Erunova, I. B., 93b:76031**

Sadhal, S. S. Solutions to a class of transport problems with radially dominant convection. (English summary) **93m:76031**

Saffman, P. G. Vortex dynamics and turbulence. (*see* **93b:76001**)

— Approach of a vortex pair to a rigid free surface in viscous fluid. (English summary)

Saint Jean Paulin, J. *see* **Cioranescu, Doïna, 93b:76029**

(Shtern, V. N.) *see* **Sozou, C., 93h:76026**

Sivashinsky, Gregory I. (*with* Frenkel, Alexander L.) On negative eddy viscosity under conditions of isotropy. **93d:76021**

Smith, F. T. *see* **Bowles, R. I., 93f:76038**

Sozou, C. On solutions relating to conical vortices over a plane wall. (English summary) **93h:76026**

Sparenberg, J. A. On the stream function in low Reynolds number flow for general curvilinear coordinates. **93a:76037**

Steinbach, Jörg (*with* Weinelt, Wilfried) Mathematical modelling of the injection moulding process. **93g:76050**

Şuhubi, Erdoğan S. *see* **Ünal, G., 93c:76027** *and* **93c:76028**

Tabor, M. *see* **Dresselhaus, Eliot, 93a:76036**

Tan, Ming-Yi *see* **Price, W. G., 93g:76048**

Tang, Dalin (*with* Rankin, Samuel M., III) Peristaltic transport of a heat-conducting viscous fluid as an application of abstract differential equations and semigroup of operators. (English summary) **93m:76032**

Tanveer, Saleh Viscous displacement in a Hele-Shaw cell. **93k:76040**

Tran Thu Ha *see* **Ngô Huy Can, 93k:76039**

Troy, William C. Solutions of third-order differential equations relevant to draining and coating flows. (English summary) **93j:76029**

Ünal, G. (*with* Şuhubi, Erdoğan S.) A local analysis of the Kolmogorov-Spiegel-Sivashinsky equation. **93c:76027**

— (*with* Şuhubi, Erdoğan S.) Travelling waves and chaos in the Kolmogorov-Spiegel-Sivashinsky model. **93c:76028**

Weinelt, Wilfried *see* **Steinbach, Jörg, 93g:76050**

Willeboordse, Frederick H. Time-delayed map as a model for open fluid flow. (English summary) **93g:76051**

Wilson, S. K. The levelling of paint films. (English summary)

Yavorskii, N. I. The heat wake around a streamlined body. (Russian) **93d:76022**

Yuan, Y. (*with* Ingham, D. B.) The boundary element solution of a viscous free surface problem. (English summary) (*see* **93i:76003**)

Zapryanov, Zapryan Fluid dynamics of rigid or fluid particles in shear flows. (Bulgarian. English and Russian summaries) **93m:76033**

Items with secondary classifications in 76D99

Aldis, G. K. *see* **Barry, S. I.; et al., 93c:76089**

Atkinson, Colin (*with* Sherwood, J. D.) The torque on a rotating n-bladed vane in a Newtonian fluid or linear elastic medium. **93c:73077**

Auriault, J.-L. (*with* He, S.) Liquid phase sintering: rearrangement and densification. (English summary) **93k:73010**

Azizov, Kh. F. Boundary regimes with peaking and localization in nonlinear non-Newtonian flow through porous media. (Russian) **93f:76092**

Banks, W. H. H. (*with* Zaturska, M. B.) Buoyancy-driven flow between parallel plane vertical walls. **93a:76039**

— (*with* Zaturska, M. B.) On flow through a porous annular pipe. **93c:76029**

Barry, S. I. (*with* Parker, K. H.; Aldis, G. K.) Fluid flow over a thin deformable porous layer. **93c:76089**

Bauer, Helmut F. Natural damped frequencies and axial response of a rotating finite viscous liquid column. **93e:76036**

Begehr, Heinrich Moving boundary problems of Hele Shaw type. **93g:35146**

Ben Amar, Martine Plumes in Hele-Shaw cells. (English summary) **93i:76085**

Berger, Stanley A. Ellipticity in the vortex breakdown problem. (English summary) **93k:76053**

Bernardi, Christine (*with* Laval, Frédéric; Métivet, Brigitte; Pernaud-Thomas, Bernadette) Finite element approximation of viscous flows with varying density. (English and French summaries) **93g:65143**

Brunet, Jean-Philippe *see* **Sethian, James A.; et al., 93d:76051**

Busse, F. H. (*with* Clever, R. M.) Three-dimensional convection in an inclined layer heated from below. **93a:76042**

Cao, Wei Ming *see* **Guo, Ben Yu; et al., 93d:76048**

Clever, R. M. *see* **Busse, F. H., 93a:76042**

Conca, C. (*with* Durán, M.; Planchard, J.) A quadratic eigenvalue problem involving Stokes equations. (English summary) **93g:73097**

Davis, A. M. J. Periodic blocking in parallel shear or channel flow at low Reynolds number. (English summary) **93k:76032**

Dritschel, David G. A fast contour dynamics method for many-vortex calculations in two-dimensional flows. (English summary) **93k:76084**

Duck, Peter W. (*with* Khorrami, Mehdi R.) A note on the effects of viscosity on the stability of a trailing-line vortex. (English summary) **93k:76055**

Durán, M. *see* **Conca, C.; et al., 93g:73097**

Eckhaus, Wiktor Singular perturbations of homoclinic orbits in $\mathbf{R}^4$. (English summary) **93f:34074**

Filatov, A. N. *see* **Gorelov, A. S., 93f:35182**

Fusco, D. (*with* Manganaro, N.) Exact solutions to flows in fluid filled elastic tubes. (English summary) **93k:35212**

Galanti, B. (*with* Sulem, Pierre-Louis) Large-scale instabilities and inverse cascades in ordinary and MHD flows at low Reynolds numbers. (English summary) (*see* **93d:00036**)

Gorelov, A. S. (*with* Filatov, A. N.) Inertial manifolds for equations of barotropic atmosphere. **93f:35182**

Grebenëv, V. N. On a dynamical system that arises in the problem of the spreading of a turbulent layer of a homogeneous fluid. (Russian) **93d:35127**

Greenberg, Adam *see* **Sethian, James A.; et al., 93d:76051**

Gunzburger, Max D. (*with* Hou, LiSheng; Svobodny, Thomas P.) A numerical method for drag minimization via the suction and injection of mass through the boundary. (English summary) (*see* **93c:93006**)

Guo, Ben Yu (*with* Xiong, Yue Shan) A spectral-difference method for solving the three-dimensional vorticity equation. I. (Chinese summary) **93b:65149**

— (*with* Xiong, Yue Shan) A spectral-difference method for solving the three-dimensional vorticity equation. II. (Chinese summary) **93b:65150**

— (*with* Ma, He Ping; Cao, Wei Ming; Huang, Hui) The Fourier-Chebyshev spectral method for solving two-dimensional unsteady vorticity equations. **93d:76048**

Hamdan, M. H. Computational aspects of flow through curved domains: the effect of no-slip. (English summary) **93k:76109**

He, S. *see* **Auriault, J.-L., 93k:73010**

Hocking, Leslie M. (*with* Miksis, Michael J.) Stability of a ridge of fluid. (English summary) **93m:76044**

Holm, Darryl D. (*with* Kimura, Yoshifumi) Zero-helicity Lagrangian kinematics of three-dimensional advection. (English summary) **93k:76095**

Hou, LiSheng *see* **Gunzburger, Max D.; et al., (93c:93006)**

Howison, Sam D. (*with* Khokhlov, Yu. E.) Classification of solutions in a problem of Hele-Shaw flows with an unknown boundary. (Russian) **93k:35278**
Hu, Bei A nonlinear nonlocal parabolic equation for channel flow. **93f:35120**
Huang, Hui *see* **Guo, Ben Yu; et al., 93d:76048**
Icha, Andrzej Solution of a turbulent heat conductivity equation in the Oseen's approximation. **93e:76044**
Il'in, A. A. Some dimensionless numbers and the associated inequalities describing the asymptotic behaviour of the solutions to the barotropic vorticity equation. **93f:35183**
Keefe, Laurence R. Two nonlinear control schemes contrasted on a hydrodynamiclike model. (English summary) **93k:76096**
Khokhlov, Yu. E. *see* **Howison, Sam D., 93k:35278**
Khomenko, G. A. *see* **Moiseev, S. S.; et al., 93d:76032**
Khorrami, Mehdi R. *see* **Duck, Peter W., 93k:76055**
Kimura, Yoshifumi *see* **Holm, Darryl D., 93k:76095**
Klein, Rupert (*with* Majda, Andrew J.) An asymptotic theory for the nonlinear instability of antiparallel pairs of vortex filaments. (English summary) **93m:76014**
Koch, Donald L. Hydrodynamic diffusion in dilute sedimenting suspensions at moderate Reynolds numbers. (English summary) **93m:76067**
Koiso, Norihito Motion of a springy circle wire. **93d:73056**
Laval, Frédéric *see* **Bernardi, Christine; et al., 93g:65143**
Legat, Vincent (*with* Marchal, Jean-Marie) Die design: an implicit formulation for the inverse problem. (English summary) **93i:76056**
Lister, John R. Viscous flows down an inclined plane from point and line sources. (English summary) **93g:76040**
Lomov, S. A. Pseudo-analyticity and the problem of mathematical description of a boundary layer. (Russian) **93k:34122**
Lukaszewicz, Grzegorz On diffusion in viscous fluids mixed boundary conditions. **93k:35216**
— On diffusion in viscous fluids. Existence and uniqueness of solutions. (English summary) **93j:35141**
Ma, He Ping *see* **Guo, Ben Yu; et al., 93d:76048**
Maas, Leo R. M. Nonlinear and free-surface effects on the spin-down of barotropic axisymmetric vortices. (English summary) **93i:76093**
Majda, Andrew J. *see* **Klein, Rupert, 93m:76014**
Manganaro, N. *see* **Fusco, D., 93k:35212**
Marchal, Jean-Marie *see* **Legat, Vincent, 93i:76056**
Mesirov, Jill P. *see* **Sethian, James A.; et al., 93d:76051**
Métivet, Brigitte *see* **Bernardi, Christine; et al., 93g:65143**
Mielke, Alexander Reduction of PDEs on domains with several unbounded directions: a first step towards modulation equations. (German summary) **93f:35023**
Miksis, Michael J. *see* **Hocking, Leslie M., 93m:76044**
Millar, Robert F. Bubble motion along a channel in a Hele-Shaw cell: a Schwarz function approach. **93a:35157**
Moiseev, S. S. (*with* Oganyan, K. R.; Rutkevich, P. B.; Tur, A. V.; Khomenko, G. A.; Yanovskii, V. V.) A vortex dynamo in helical turbulence. (Russian) **93d:76032**
Oganyan, K. R. *see* **Moiseev, S. S.; et al., 93d:76032**
Parker, K. H. *see* **Barry, S. I.; et al., 93c:76089**
Pernaud-Thomas, Bernadette *see* **Bernardi, Christine; et al., 93g:65143**
Planchard, J. *see* **Conca, C.; et al., 93g:73097**
Pullin, D. I. Contour dynamics methods. **93e:76060**
Rizza, A. Numerical analysis of a self-adaptive formulation for the viscous/inviscid coupling. **93b:76058**
Rutkevich, P. B. *see* **Moiseev, S. S.; et al., 93d:76032**
Savenkov, I. V. Resonant amplification of two-dimensional disturbances in a semi-infinite channel. (Russian. Russian summary) **93h:76038**
Sethian, James A. (*with* Brunet, Jean-Philippe; Greenberg, Adam; Mesirov, Jill P.) Two-dimensional, viscous, incompressible flow in complex geometries on a massively parallel processor. **93d:76051**
Shcheprov, A. V. Calculation of a flow of a viscous fluid on adaptive grids. (Russian) **93c:76064**
Sherwood, J. D. *see* **Atkinson, Colin, 93c:73077**
Sritharan, S. S. An optimal control problem in exterior hydrodynamics. **93e:49031**
Starovoitov, V. N. Solvability of a problem on the motion of a fluid with an interphase boundary. (Russian. Russian summary) **93f:35248**
Sulem, Pierre-Louis *see* **Galanti, B., (93d:00036)**
Svobodny, Thomas P. *see* **Gunzburger, Max D.; et al., (93c:93006)**
Tsarëv, S. P. Conservation laws and the Hamilton property of stationary equations of hydrodynamics. (Russian) (*see* **93d:58002**)
Tur, A. V. *see* **Moiseev, S. S.; et al., 93d:76032**
Xiong, Yue Shan *see* **Guo, Ben Yu, 93b:65149** *and* **93b:65150**
Yanagita, Tatsuo Phenomenology of boiling: a coupled map lattice model. (English summary) **93g:80006**
Yanovskii, V. V. *see* **Moiseev, S. S.; et al., 93d:76032**
Yortsos, Y. C. *see* **Zeybek, M., 93g:76106**
Zaturska, M. B. *see* **Banks, W. H. H., 93a:76039** *and* **93c:76029**
Zeybek, M. (*with* Yortsos, Y. C.) Parallel flow in Hele-Shaw cells. (English summary) **93g:76106**

76Exx Hydrodynamic stability

Items with secondary classifications in 76Exx

Bayly, Bruce Complexity in fluids. (English summary) **93m:76045**
Landahl, M. T. (*with* Mollo-Christensen, E.) ★ Turbulence and random processes in fluid mechanics. **93m:76047**
Mollo-Christensen, E. *see* **Landahl, M. T., 93m:76047**
(Pérez-García, Carlos) *see* **New trends in nonlinear dynamics: nonvariational aspects, 93i:00022**
Straughan, Brian ★ The energy method, stability, and nonlinear convection. **93e:76027**
Zeytounian, Radyadour Kh. ★ Mécanique des fluides fondamentale. (English. French summary) [Fundamental fluid mechanics] **93h:76001**

Items listed otherwise than by author

Estella ★ New trends in nonlinear dynamics: nonvariational aspects. **93i:00022**
NATO Advanced Research Workshop:
New Trends in Nonlinear Dynamics: Nonvariational Aspects ★ New trends in nonlinear dynamics: nonvariational aspects. **93i:00022**
New trends in nonlinear dynamics: nonvariational aspects ★ New trends in nonlinear dynamics: nonvariational aspects. **93i:00022**

76E05 Stability of parallel flows

Afendikov, A. L. (*with* Varin, V. P.) An analysis of periodic flows in the vicinity of the plane Poiseuille flow. **93a:76038**
Banks, W. H. H. (*with* Zaturska, M. B.) Buoyancy-driven flow between parallel plane vertical walls. **93a:76039**
— (*with* Zaturska, M. B.) On flow through a porous annular pipe. **93c:76029**
Barston, E. M. On the linear stability of inviscid incompressible plane parallel flow. **93b:76032**
Bassom, Andrew P. Time-dependent inviscid vortices in three-dimensional boundary layers. (English summary) **93i:76034**
Benney, D. J. *see* **Zhou, Yi Fan, 93b:76033**
Bridges, Thomas J. Spatially-quasiperiodic states in shear flows. (English summary) **93k:76041**
Brutyan, M. A. (*with* Krapivskiĭ, P. L.) Investigation of the stability of periodic flows of a viscous fluid. (Russian) **93a:76040**
— (*with* Krapivskiĭ, P. L.) Analytical determination of critical Reynolds numbers for periodic viscous gas flows. (English summary) **93j:76030**
Denier, James P. (*with* Hall, Philip[2]; Seddougui, Sharon O.) On the receptivity problem for Görtler vortices: vortex motions induced by wall roughness. **93c:76030**
Erlebacher, Gordon *see* **Pruett, C. David; et al., 93k:76042**
Grosch, C. E. (*with* Jackson, T. L.; Kapila, A. K.) Nonseparable eigenmodes of the incompressible boundary layer. (English summary) (*see* **93j:76004**)
Hall, Philip[2] *see* **Denier, James P.; et al., 93c:76030**
Henningson, Dan S. (*with* Schmid, Peter J.) Vector eigenfunction expansions for plane channel flows. **93e:76021**
Jackson, T. L. *see* **Grosch, C. E.; et al., (93j:76004)**
Kapila, A. K. *see* **Grosch, C. E.; et al., (93j:76004)**
Karniadakis, George Em. *see* **Tomboulides, A. G.; et al., 93c:76031**
Knoester, H. (*with* van der Zanden, J.) On the stability of multi-layered fluids. I. Analysis. (English summary) **93g:76052**
Koch, Werner On a degeneracy of temporal secondary instability modes in Blasius boundary-layer flow. (English summary) **93g:76053**
Krapivskiĭ, P. L. *see* **Brutyan, M. A., 93a:76040** *and* **93j:76030**
Mulone, G. On the stability of plane parallel convective flow. (*see* **93g:00030**)
Ng, Lian L. *see* **Pruett, C. David; et al., 93k:76042**
Pruett, C. David (*with* Ng, Lian L.; Erlebacher, Gordon) On the nonuniqueness of the parallel-flow approximation. (English summary) **93k:76042**
Ridha, A. On the dual solutions associated with boundary-layer equations in a corner. (English summary) **93i:76035**
Schmid, Peter J. *see* **Henningson, Dan S., 93e:76021**
Seddougui, Sharon O. *see* **Denier, James P.; et al., 93c:76030**
Tchavdarov, B. An upper bound on the growth rate of the linear instability in a capillary jet.
Tomboulides, A. G. (*with* Triantafyllou, G. S.; Karniadakis, George Em.) A new mechanism of period doubling in free shear flows. **93c:76031**
Triantafyllou, G. S. *see* **Tomboulides, A. G.; et al., 93c:76031**
Varin, V. P. *see* **Afendikov, A. L., 93a:76038**
van der Zanden, J. *see* **Knoester, H., 93g:76052**
Zaturska, M. B. *see* **Banks, W. H. H., 93a:76039** *and* **93c:76029**
Zhou, Yi Fan (*with* Benney, D. J.) Instability of three-dimensional waves in two-layered flows. **93b:76033**

Items with secondary classifications in 76E05

Bodonyi, R. J. (*with* Duck, Peter W.) Boundary-layer receptivity due to a wall suction and control of Tollmien-Schlichting waves. **93a:76029**
Chernyshov, S. L. *see* **Zakharchuk, V. T.; et al., (93f:00006)**
Crouch, J. D. Nonlocalized receptivity of boundary layers. (English summary) **93h:76021**
Duck, Peter W. *see* **Bodonyi, R. J., 93a:76029**
Gittler, Philipp On similarity solutions occurring in the theory of interactive laminar boundary layers. (English summary) **93g:76100**
Grubin, S. E. (*with* Trigub, V. N.) The asymptotic theory of hypersonic boundary-layer stability. (English summary) **93m:76054**
— (*with* Trigub, V. N.) The long-wave limit in the asymptotic theory of hypersonic boundary-layer stability. (English summary) **93m:76055**
(Hussaini, M. Y.) *see* **Instability, transition, and turbulence, 93j:76004**
Keller, Joseph B. *see* **Knessl, Charles, 93h:76033**
Knessl, Charles (*with* Keller, Joseph B.) Stability of rotating shear flows in shallow water. (English summary) **93h:76033**
(Kumar, Ajay[1]) *see* **Instability, transition, and turbulence, 93j:76004**
Savenkova, N. P. *see* **Zakharchuk, V. T.; et al., (93f:00006)**
Smith, Ronald Buoyancy effects in vertical shear dispersion. (English summary) **93f:76091**
(Streett, C. L.) *see* **Instability, transition, and turbulence, 93j:76004**
Thess, André Instabilities in two-dimensional spatially periodic flows. I. Kolmogorov flow. **93d:76027**
Trigub, V. N. *see* **Grubin, S. E., 93m:76054** *and* **93m:76055**
Wadey, P. D. On the development of Görtler vortices in wall jet flow. **93c:76022**
Zakharchuk, V. T. (*with* Savenkova, N. P.; Chernyshov, S. L.) On an approach to the solution of the Orr-Sommerfeld equation. (Russian. Russian summary) (*see* **93f:00006**)

Items listed otherwise than by author

Hampton, VA ★ Instability, transition, and turbulence. **93j:76004**
Instability, transition, and turbulence ★ Instability, transition, and turbulence. **93j:76004**
Workshop:
Instability, Transition, and Turbulence ★ Instability, transition, and turbulence. **93j:76004**

76E10 Inertial instability

Andreev, V. K. (*with* Rodionov, A. A.) Instability under stretching of a cylindrical layer of fluid. (Russian) **93h:76027**
Capodanno, Pierre Sur les oscillations d'un système cylindrique de deux liquides non miscibles hors gravité. [On the oscillations of a cylindrical system of two immiscible fluids not subject to gravity] **93g:76054**
— Quelques problèmes de stabilité d'un système de trois tourbillons. [Some stability problems for a three-vortex system] **93e:76022**
Chernyavskii, V. M. (*with* Shtemler, Yu. M.) Stability of Couette flow between free cylinders with allowance for self-gravitation. (Russian) **93b:76034**
Cladis, P. E. Taylor-Couette instability in nematic liquid crystals. (English summary) (*see* **93d:58007**)
Denier, James P. The structure of fully nonlinear Taylor vortices. (English summary) **93e:76023**
Foster, M. R. (*with* Jacqmin, David) Nonparallel effects in the instability of Long's vortex. (English summary) **93h:76028**
Gledzer, E. B. (*with* Ponomarev, V. M.) Instability of bounded flows with elliptical streamlines. (English summary) **93e:76024**
Ibrahim, E. A. *see* **Lin, Sung P.**
Jacqmin, David *see* **Foster, M. R., 93h:76028**
Joseph, Daniel D. (*with* Liao, T. Y. J.; Saut, Jean-Claude) Kelvin-Helmholtz mechanism for side branching in the displacement of light with heavy fluid under gravity. **93c:76032**
Lebovitz, Norman (*with* Lifschitz, Alexander E.) Short wavelength instabilities of rotating, compressible fluid masses. (English summary) **93g:76055**
Liao, T. Y. J. *see* **Joseph, Daniel D.; et al., 93c:76032**
Lifschitz, Alexander E. On the instability of three-dimensional flows of an ideal incompressible fluid. **93f:76041**
— *see also* **Lebovitz, Norman, 93g:76055**
Lin, Sung P. (*with* Ibrahim, E. A.) Corrigenda: "Instability of a viscous liquid jet surrounded by a viscous gas in a vertical pipe" [J. Fluid Mech. **218** (1990), 641–658; MR 91f:76027]. **93a:76041**
Otto, S. R. On stability of the flow around an oscillating sphere. **93a:76041**
Parada, Raúl Felipe On a work of S. L. Sobolev concerning the stability of mechanical systems. (Spanish. English and Spanish summaries) **93j:76031**
Ponomarev, V. M. *see* **Gledzer, E. B., 93e:76024**
Rodionov, A. A. *see* **Andreev, V. K., 93h:76027**
Saut, Jean-Claude *see* **Joseph, Daniel D.; et al., 93c:76032**
Shtemler, Yu. M. *see* **Chernyavskii, V. M., 93b:76034**

Items with secondary classifications in 76E10

Bauer, Helmut F. (*with* Kammerer, Lothar) Natural frequencies and axial response of a spinning liquid layer in a micro-gravity field. (English and German summaries) **93m:76070**
Carmona, Carlos *see* **Power, Henry; et al., 93c:76039**
Chossat, Pascal Branching of rotating waves in a one-parameter problem of steady-state bifurcation with spherical symmetry. **93a:58128**
Fraguela Collar, Andrés Some spectral questions in the problem of small oscillations of a rotating fluid. (Russian. Russian summary) **93j:76062**
Hussain, Fazle *see* **Kunin, I. A.; et al., 93g:76031**
Kammerer, Lothar *see* **Bauer, Helmut F., 93m:76070**
Kranenburg, C. On the evolution of roll waves. (English summary) **93i:76011**
Kunin, I. A. (*with* Hussain, Fazle; Zhou, Xiaoliang) Stability of the 4-vortex system. **93g:76031**
Power, Henry (*with* Villegas, Miguel; Carmona, Carlos) Nonlinear inertial effects on the instability of a single long wave of finite amplitude at the interface of two viscous fluids. **93c:76039**
Shelley, M. J. A study of singularity formation in vortex-sheet motion by a spectrally accurate vortex method. (English summary) **93g:76035**
Trifonov, Yu. Ya. *see* **Tsvelodub, O. Yu., 93j:76027**
Tsvelodub, O. Yu. (*with* Trifonov, Yu. Ya.) Nonlinear waves on the surface of a falling liquid film. II. Bifurcations of the first-family waves and other types of nonlinear waves. (English summary) **93j:76027**
Villegas, Miguel *see* **Power, Henry; et al., 93c:76039**
Zhou, Xiaoliang *see* **Kunin, I. A.; et al., 93g:76031**

76E15 Convective instability

Banerjee, Mihir B. (*with* Gupta, J. R.; Prakash, Jyoti) Upper limits to the complex growth rates in thermohaline instability. **93d:76023**
Bestehorn, M. *see* **Fantz, M.; et al., (93b:58001)**
Bhattacharyya, S. N. *see* **Gupta, A. S.; et al., 93d:76025**
Busse, F. H. (*with* Clever, R. M.) Three-dimensional convection in an inclined layer heated from below. **93a:76042**
Chernikov, Aleksandr Antonovich (*with* Schmidt, George) Chaotic streamlines in convective cells. (English summary) **93f:76042**
Chomaz, J.-M. Absolute and convective instabilities in nonlinear systems. (English summary) **93f:76043**
Clever, R. M. *see* **Busse, F. H., 93a:76042**
Daniels, P. G. (*with* Weinstein, Marcel Mordechai) On finite-amplitude patterns of convection near a lateral boundary. (English summary) **93d:76024**
Dijkstra, Henk A. On the structure of cellular solutions in Rayleigh-Bénard-Marangoni flows in small-aspect-ratio containers. (English summary) **93g:76056**
Ecke, Robert E. Quasiperiodicity, mode-locking, and universal scaling in Rayleigh-Bénard convection. (English summary) **93k:76043**
Fantz, M. (*with* Friedrich, R.; Bestehorn, M.; Haken, H.) Evolution of patterns in rotating Bénard convection. (*see* **93b:58001**)
Franchi, F. (*with* Straughan, Brian) A nonlinear energy stability analysis of a model for deep convection. **93c:76033**
Friedrich, R. *see* **Fantz, M.; et al., (93b:58001)**
Ganguly, Keshab *see* **Gupta, A. S.; et al., 93d:76025**
Garazo, Alfredo N. (*with* Velarde, Manuel G.) Solitary waves driven by capillarity and Marangoni forces. (English summary) (*see* **93g:76004**)
Gershuni, G. Z. (*with* Nepomnyashchii, A. A.; Velarde, Manuel G.) On dynamic excitation of Marangoni instability. (English summary)
Golbabai, A. Nonparallel plane Rayleigh-Bénard convection in cylindrical geometry. (English summary) **93j:76032**
Goldstein, H. F. (*with* Knobloch, Edgar; Mercader, I.; Net, M.) Convection in a rotating cylinder. I. Linear theory for moderate Prandtl numbers. (English summary)
Guckenheimer, John Symmetry properties of confined convective states. **93a:76043**
Gupta, A. S. (*with* Bhattacharyya, S. N.; Ganguly, Keshab) On the onset of thermal instability in fluid-filled porous spheres and spherical shells. **93d:76025**
Gupta, J. R. *see* **Banerjee, Mihir B.; et al., 93d:76023**
Haken, H. *see* **Fantz, M.; et al., (93b:58001)**
Hall, Philip[2] (*with* Morris, Helen) On the instability of boundary layers on heated flat plates. (English summary) **93i:76036**
Hu, H.-C. *see* **Kelly, Robert Edward, 93m:76034**
Kelly, Robert Edward (*with* Hu, H.-C.) The onset of Rayleigh-Bénard convection in nonplanar oscillatory flows. (English summary) **93m:76034**
Kerr, Oliver S. Two-dimensional instabilities of steady double-diffusive interleaving. (English summary) **93f:76044**
Knobloch, Edgar (*with* Proctor, M. R. E.; Weiss, N. O.) Heteroclinic bifurcations in a simple model of double-diffusive convection. **93c:76034**
— *see also* **Goldstein, H. F.; et al.**
Kopachevskii, N. D. (*with* Pivovarchik, V. N.) On a sufficient condition for the instability of convective motions of a fluid in an open vessel. (Russian. Russian summary) **93k:76044**
Kosel, U. (*with* Röhlig, K.-J.) Bifurkationsprobleme bei Kanalströmungen zäher Flüssigkeiten. [Bifurcation problems in channel flows of viscous fluids] **93i:76037**
Kraenkel, R. A. *see* **Manna, M. A.; et al., 93h:76029**
Krishnamurthy, Ramesh A linear stability analysis of a mixed convection plume from a line source: higher order effects. (French summary) **93d:76026**
Kurcbart, S. M. *see* **Manna, M. A.; et al., 93h:76029**
Lindsay, K. A. (*with* Straughan, Brian) Nonlinear temperature-dependent surface tension driven convection. **93e:76025**
Lu, Ya Yan Bifurcation to mean flows in convection. (English summary) **93m:76035**
Manna, M. A. (*with* Kraenkel, R. A.; Kurcbart, S. M.; Pereira, J. G.) Some nonlinear evolution equations in the Bénard problem. (English summary) **93h:76029**
Massaguer, Josep M. Shear type instabilities in the Bénard problem. **93g:76057**
McKay, G. (*with* Straughan, Brian) Nonlinear energy stability and convection near the density maximum. (English summary) **93h:76030**
Mercader, I. *see* **Goldstein, H. F.; et al.**
Metzener, P. (*with* Proctor, M. R. E.) Interaction of patterns with disparate scales. (English summary) **93j:76033**
Morris, Helen *see* **Hall, Philip[2], 93i:76036**
Mulone, G. On the stability of a rotating fluid with Prandtl numbers less than 1. (Italian summary) **93h:76031**
— On the stability of a plane parallel convective mixture through the Lyapunov second method. **93b:76035**
Napolitano, Luigi G. (*with* Viviani, Antonio) Instability of Marangoni and combined free convection. (English summary) (*see* **93g:00030**)
Nepomnyashchii, A. A. *see* **Gershuni, G. Z.; et al.**
Net, M. *see* **Goldstein, H. F.; et al.**
Pereira, J. G. *see* **Manna, M. A.; et al., 93h:76029**
Pivovarchik, V. N. *see* **Kopachevskii, N. D., 93k:76044**
Prakash, Jyoti *see* **Banerjee, Mihir B.; et al., 93d:76023**
Proctor, M. R. E. *see* **Knobloch, Edgar; et al., 93c:76034** *and* **Metzener, P., 93j:76033**
Rees, D. A. S. A numerical investigation of the nonlinear wave stability of vertical thermal boundary layer flow in a porous medium. (English summary)
Renardy, Michael A rigorous stability proof for plane Couette flow of an upper convected Maxwell fluid at zero Reynolds number. (English summary) **93g:76058**
Riahi, D. N. Nonlinear dispersive waves in convective flows. (*see* **93f:00015**)
— Weakly nonlinear oscillatory convection in a rotating fluid. (English summary) **93e:76026**
— Preferred pattern of convection in a porous layer with a spatially nonuniform boundary temperature. (English summary) **93i:76038**
Richardson, Lorna Porous penetrative convection with a salt field and internal heat source. (English summary) **93m:76036**
Rionero, Salvatore (*with* Straughan, Brian) Nonlinear convection problems involving internal heat generation and variable gravity effects. (English summary) (*see* **93g:00030**)
Röhlig, K.-J. *see* **Kosel, U., 93i:76037**
Rucklidge, A. M. Chaos in models of double convection. **93g:76059**
Schmidt, George *see* **Chernikov, Aleksandr Antonovich, 93f:76042**
Straughan, Brian ★ The energy method, stability, and nonlinear convection. **93e:76027**
— *see also* **Franchi, F., 93c:76033**; **Lindsay, K. A., 93e:76025**; **McKay, G., 93h:76030** *and* **Rionero, Salvatore, (93g:00030)**
Velarde, Manuel G. *see* **Gershuni, G. Z.; et al.** *and* **Garazo, Alfredo N., (93g:76004)**
Viviani, Antonio *see* **Napolitano, Luigi G., (93g:00030)**
Weinstein, Marcel Mordechai *see* **Daniels, P. G., 93d:76024**
Weiss, N. O. *see* **Knobloch, Edgar; et al., 93c:76034**
Yudovich, V. I. On the boundary of monotone and oscillatory convective stability of a horizontal layer of fluid. (Russian) **93e:76028**
Zhang, Keke Spiralling columnar convection in rapidly rotating spherical fluid shells. **93a:76044**

Items with secondary classifications in 76E15

Brevdo, Leonid Three-dimensional absolute and convective instabilities, and spatially amplifying waves in parallel shear flows. **93a:76053**
Cercignani, Carlo *see* **Stefanov, S. K.**
Cessi, Paola (*with* Young, W. R.) Multiple equilibria in two-dimensional thermohaline circulation. (English summary) **93f:76089**
Coullet, Pierre (*with* Frisch, T.; Plaza, Frédéric) Sources and sinks of wave patterns. (English summary) **93k:58204**
Cox, Stephen M. (*with* Leibovich, Sidney; Moroz, Irene M.; Tandon, Amit) Nonlinear dynamics in Langmuir circulations with O(2) symmetry. (English summary) **93h:76032**
Dionne, Benoit (*with* Golubitsky, Martin) Planforms in two and three dimensions. **93c:58026**
Ecke, Robert E. *see* **Zhong, Fang**, **93a:76093**
Frisch, T. *see* **Coullet, Pierre; et al.**, **93k:58204**
Fröhlich, J. (*with* Peyret, Roger) Calculations of non-Boussinesq convection by a pseudospectral method. (English summary) (*see* **93d:65005**)
Golubitsky, Martin *see* **Dionne, Benoit**, **93c:58026**
Holm, Darryl D. (*with* Kimura, Yoshifumi) Zero-helicity Lagrangian kinematics of three-dimensional advection. (English summary) **93k:76095**
Jeon, Chang Ho *see* **Song, Jong Chul**, **93c:76073**
Joets, A. *see* **Ribotta, R.**, **93e:76007**
Kimura, Yoshifumi *see* **Holm, Darryl D.**, **93k:76095**
Kramer, Lorenz *see* **Silber, Mary; et al.**, **93j:58098**
Leibovich, Sidney *see* **Cox, Stephen M.; et al.**, **93h:76032**
Lindsay, K. A. (*with* Straughan, Brian) Penetrative convection in a micropolar fluid. (English summary) **93g:76007**
Manneville, Paul From chaos to turbulence in fluid dynamics. (English summary) **93j:76037**
Moroz, Irene M. *see* **Cox, Stephen M.; et al.**, **93h:76032**
Mulone, G. On the stability of plane parallel convective flow. (*see* **93g:00030**)
Néel, Marie-Christine Natural convection in a horizontal porous layer of infinite extent: inhomogeneous heating. (English summary) **93h:76073**
Newell, Alan C. *see* **Passot, T.**, **93i:76086**
Passot, T. (*with* Newell, Alan C.) The phase-diffusion equation and its regularization for natural convective patterns. (English summary) **93i:76086**
Peyret, Roger *see* **Fröhlich, J.**, (**93d:65005**)
Plaza, Frédéric *see* **Coullet, Pierre; et al.**, **93k:58204**
Pološevski, Dan Further remarks on the appearance of Darcean convection. **93k:76115**
Pumir, Alain (*with* Siggia, Eric D.) Development of singular solutions to the axisymmetric Euler equations. **93c:76014**
Ribotta, R. (*with* Joets, A.) Defects of nonlinear waves in the convection of a nematic liquid crystal. (English summary) **93e:76007**
Riecke, Hermann *see* **Silber, Mary; et al.**, **93j:58098**
Roberts, A. J. Planform evolution in convection—an embedded centre manifold. (English summary) **93g:76104**
Rucklidge, A. M. Chaos in a low-order model of magnetoconvection. (English summary) **93k:76125**
Siggia, Eric D. *see* **Pumir, Alain**, **93c:76014**
Silber, Mary (*with* Riecke, Hermann; Kramer, Lorenz) Symmetry-breaking Hopf bifurcation in anisotropic systems. (English summary) **93j:58098**
Song, Jong Chul (*with* Jeon, Chang Ho) On the sufficient condition for the linearized approximation of the Bénard convection problem. **93c:76073**
Stefanov, S. K. (*with* Cercignani, Carlo) Monte Carlo simulation of Bénard's instability in a rarefied gas. (English summary)
Straughan, Brian Stability problems in electrohydrodynamics, ferrohydrodynamics and thermoelectric magnetohydrodynamics. **93m:76038**
— *see also* **Lindsay, K. A.**, **93g:76007**
Şuhubi, Erdoğan S. *see* **Ünal, G.**, **93c:76027** *and* **93c:76028**
Tandon, Amit *see* **Cox, Stephen M.; et al.**, **93h:76032**
Ünal, G. (*with* Şuhubi, Erdoğan S.) A local analysis of the Kolmogorov-Spiegel-Sivashinsky equation. **93c:76027**
— (*with* Şuhubi, Erdoğan S.) Travelling waves and chaos in the Kolmogorov-Spiegel-Sivashinsky model. **93c:76028**
von Wahl, Wolf The Boussinesq-equations in terms of poloidal and toroidal fields and the mean flow. Lecture notes. **93g:35133**
Yakhot, Victor $\frac{4}{5}$ Kolmogorov law for statistically stationary turbulence: application to high-Rayleigh-number Bénard convection. **93c:76044**
Young, W. R. *see* **Cessi, Paola**, **93f:76089**
Yudovich, V. I. An infinite-dimensional model of free convection. (Russian) **93a:76092**
Zhong, Fang (*with* Ecke, Robert E.) Pattern dynamics and heat transport in rotating Rayleigh-Bénard convection. **93a:76093**
Zimmermann, Walter On travelling waves in electrohydrodynamic convection in nematics. **93g:76013**

76E20 Instability of geophysical and astrophysical flows

Cox, Stephen M. (*with* Leibovich, Sidney; Moroz, Irene M.; Tandon, Amit) Nonlinear dynamics in Langmuir circulations with O(2) symmetry. (English summary) **93h:76032**
— (*with* Leibovich, Sidney; Moroz, Irene M.; Tandon, Amit) Hopf bifurcations in Langmuir circulations. (English summary) **93k:76045**
(Ghil, M.) *see* **Ripa, P.**, **93c:76036**
Il'in, K. I. Stability of a baroclinic vortex. (Russian) **93e:76029**
Keller, Joseph B. *see* **Knessl, Charles**, **93h:76033**
Knessl, Charles (*with* Keller, Joseph B.) Stability of rotating shear flows in shallow water. (English summary) **93h:76033**
Leibovich, Sidney *see* **Cox, Stephen M.; et al.**, **93h:76032** *and* **93k:76045**
Moroz, Irene M. *see* **Cox, Stephen M.; et al.**, **93h:76032** *and* **93k:76045**
Mu, Mu (*with* Wang, Xi Yong) Nonlinear stability criteria for the motion of three-dimensional quasigeostrophic flow on a β-plane. **93f:76045**
Nycander, J. Refutation of stability proofs for dipole vortices. **93c:76037**
O'Brien, Enda Optimal growth rates in the quasigeostrophic initial value problem. (English summary) **93e:76030**
Pedlosky, Joseph Baroclinic instability localized by dissipation. **93c:76035**
Ripa, P. Comments on a paper by H. Sakuma and M. Ghil: "Stability of stationary barotropic modons by Lyapunov's direct method" [J. Fluid Mech. **211** (1990), 393–416; MR 91b:76063]. **93c:76036**
Rodríguez Ricard, Mariano Local stability of certain convective atmospheric currents. (Spanish. English and Spanish summaries) **93m:76037**
(Sakuma, H.) *see* **Ripa, P.**, **93c:76036**
Strobel, Darrell F. *see* **Zhu, Xun**, **93h:76034**
Tandon, Amit *see* **Cox, Stephen M.; et al.**, **93h:76032** *and* **93k:76045**
Wang, Xi Yong *see* **Mu, Mu**, **93f:76045**
Zhu, Xun (*with* Strobel, Darrell F.) Nonlinear saturation of baroclinic instability in two-layer models. (English summary) **93h:76034**

Items with secondary classifications in 76E20

Aly, Jean-Jacques (*with* Pérez, Jérôme) On the stability of a gaseous sphere against nonradial perturbations. (English summary) **93i:85002**
Arsen'ev, S. A. (*with* Gubar', A. Yu.; Rykunov, L. N.; Shelkovnikov, N. K.) A new type of instability of long waves in shallow water: nonlinear sign-variable viscosity in tides. (Russian) **93g:76041**
Bauer, Helmut F. Natural damped frequencies and axial response of a rotating finite viscous liquid column. **93e:76036**
Bayly, Bruce *see* **Gilbert, Andrew D.**, **93f:76101**
Bhattacharyya, S. N. *see* **Gupta, A. S.; et al.**, **93d:76025**
Bonazzola, S. (*with* Pérault, M.; Puget, J. L.; Heyvaerts, J.; Falgarone, E.; Panis, J. F.) Jeans collapse of turbulent gas clouds: tentative theory. (English summary) **93i:85005**
Carnevale, G. F. *see* **Kloosterziel, R. C.**, **93m:76041**
Davis, Christopher A. *see* **Rivest, Chantal; et al.**, **93k:86007**
Dolzhanskii, F. V. (*with* Manin, D. Yu.) The effect of the Ekman turbulent layer on the dynamics of large-scale motions. (Russian) **93c:76049**
Falgarone, E. *see* **Bonazzola, S.; et al.**, **93i:85005**
Farrell, Brian F. *see* **Rivest, Chantal; et al.**, **93k:86007** *and* **93k:86008**
Ganguly, Keshab *see* **Gupta, A. S.; et al.**, **93d:76025**
Gaponov-Grekhov, A. V. (*with* Lomov, A. S.; Osipov, G. V.; Rabinovich, M. I.) Generation and dynamics of two-dimensional structures in nonequilibrium dissipative media. (Russian) **93f:58220**
Gilbert, Andrew D. (*with* Bayly, Bruce) Magnetic field intermittency and fast dynamo action in random helical flows. (English summary) **93f:76101**
Gubar', A. Yu. *see* **Arsen'ev, S. A.; et al.**, **93g:76041**
Gupta, A. S. (*with* Bhattacharyya, S. N.; Ganguly, Keshab) On the onset of thermal instability in fluid-filled porous spheres and spherical shells. **93d:76025**
Heyvaerts, J. *see* **Bonazzola, S.; et al.**, **93i:85005**
Il'in, A. A. Some dimensionless numbers and the associated inequalities describing the asymptotic behaviour of the solutions to the barotropic vorticity equation. **93f:35183**
Kloosterziel, R. C. (*with* Carnevale, G. F.) Formal stability of circular vortices. (English summary) **93m:76041**
Lin, Shian-Jiann Contour dynamics of tornado-like vortices. (English summary) **93f:76021**
Lomov, A. S. *see* **Gaponov-Grekhov, A. V.; et al.**, **93f:58220**
Loper, D. E. A nonequilibrium theory of a slurry. (English summary) **93g:76108**
Maas, Leo R. M. Nonlinear and free-surface effects on the spin-down of barotropic axisymmetric vortices. (English summary) **93i:76093**
Manin, D. Yu. *see* **Dolzhanskii, F. V.**, **93c:76049**
Mu, Mu Nonlinear stability of two-dimensional quasigeostrophic motions. **93d:86005**
— Nonlinear stability criteria for motions of multilayer quasi-geostrophic flow. **93e:76033**
Osipov, G. V. *see* **Gaponov-Grekhov, A. V.; et al.**, **93f:58220**
Panis, J. F. *see* **Bonazzola, S.; et al.**, **93i:85005**
Pérault, M. *see* **Bonazzola, S.; et al.**, **93i:85005**
Pérez, Jérôme *see* **Aly, Jean-Jacques**, **93i:85002**
Puget, J. L. *see* **Bonazzola, S.; et al.**, **93i:85005**
Rabinovich, M. I. *see* **Gaponov-Grekhov, A. V.; et al.**, **93f:58220**
Richardson, Lorna Porous penetrative convection with a salt field and internal heat source. (English summary) **93m:76036**
Ripa, P. Instability of a solid-body rotating vortex in a two-layer model. (English summary) **93k:76057**
Rivest, Chantal (*with* Davis, Christopher A.; Farrell, Brian F.) Upper-tropospheric syntopic-scale waves. I. Maintenance as Eady normal modes. (English summary) **93k:86007**
— (*with* Farrell, Brian F.) Upper-tropospheric synoptic-scale waves. II. Maintenance and excitation of quasi modes. (English summary) **93k:86008**
Roberts, Paul H. (*with* Soward, A. M.) Dynamo theory. **93c:76086**
Rykunov, L. N. *see* **Arsen'ev, S. A.; et al.**, **93g:76041**
Shelkovnikov, N. K. *see* **Arsen'ev, S. A.; et al.**, **93g:76041**
Soward, A. M. *see* **Roberts, Paul H.**, **93c:76086**
Zhang, Keke Spiralling columnar convection in rapidly rotating spherical fluid shells. **93a:76044**

76E25 Magnetohydrodynamic and electrohydrodynamic instabilities

Chen, Xiao Liang (*with* Morrison, P. J.) Nonlinear interactions of tearing modes in the presence of shear flow. **93c:76038**
Elhefnawy, Abdel Raouf F. The Rayleigh-Taylor instability in magnetic fluids and nonlinear interfacial waves. (English and French summaries) **93h:76035**
— Nonlinear Rayleigh-Taylor instability in magnetic fluids between two parallel plates. (English summary) **93e:76031**
— Nonlinear electrohydrodynamic Kelvin-Helmholtz instability under the influence of an oblique electric field. **93b:76036**
Galanti, B. (*with* Sulem, Pierre-Louis) Large-scale instabilities and inverse cascades in ordinary and MHD flows at low Reynolds numbers. (English summary) (*see* **93d:00036**)

Malik, S. K. (*with* Singh, Manohar) Chaos in Kelvin-Helmholtz instability in magnetic fluids. (English summary) **93i:76039**
— (*with* Singh, Manohar) An explosive instability in magnetic fluids. (English summary) **93i:76040**
Morrison, P. J. *see* **Chen, Xiao Liang**, **93c:76038**
Paris, R. B. (*with* Wood, Alastair D.) Asymptotic-assisted numerics for spectral perturbation in MHD instability. (English summary) (*see* **93m:65006**)
Sagalakov, A. M. (*with* Yudintsev, A. Yu.) Stability of three-dimensional self-oscillations in plane-parallel flows of an electricity-conducting fluid in a longitudinal magnetic field. (Russian)
— (*with* Yudintsev, A. Yu.) Three-dimensional perturbations for magnetohydrodynamic flows in a circular channel. (Russian)
Singh, Manohar *see* **Malik, S. K.**, **93i:76039** *and* **93i:76040**
Straughan, Brian Stability problems in electrohydrodynamics, ferrohydrodynamics and thermoelectric magnetohydrodynamics. **93m:76038**
Sulem, Pierre-Louis *see* **Galanti, B.**, (**93d:00036**)
Wilson, S. K. The effect of a uniform axial magnetic field on the capillary instability of a rigidly rotating fluid column. (English summary) **93h:76036**
Winnewisser, G. *see* **Yue, Zeng Yuan**, **93f:76046**
Wood, Alastair D. *see* **Paris, R. B.**, (**93m:65006**)
Yudintsev, A. Yu. *see* **Sagalakov, A. M.**
Yue, Zeng Yuan (*with* Winnewisser, G.) On the temporal and the spatial Kelvin-Helmholtz instability of a hypersonic jet confined by a longitudinal magnetic field. (English summary) **93f:76046**

Items with secondary classifications in 76E25

Banerjee, Mihir B. (*with* Bhowmik, S. K.) Salvaging the Thompson-Chandrasekhar criterion: a tribute to S. Chandrasekhar. **93d:76073**
Barts, B. I. (*with* Moiseev, S. S.) The wave-turbulent dynamo. (Russian) (*see* **92d:00031**)
Bayly, Bruce *see* **Gilbert, Andrew D.**, **93f:76101**
Bernardin, D. *see* **Séro-Guillaume, O. E.; et al.**, **93h:76080**
Bhowmik, S. K. *see* **Banerjee, Mihir B.**, **93d:76073**
Brancher, J.-P. *see* **Séro-Guillaume, O. E.; et al.**, **93h:76080**
Camargo, S. J. *see* **Tasso, H.**, **93f:76049**
Chechkin, A. V. *see* **Tur, A. V.; et al.**, **93i:76103**
Claude, C. (*with* Latifi, A.; Leon, Jérôme Jp.) Nonlinear resonant scattering and plasma instability: an integrable model. **93g:35128**
Davidson, Ronald C. *see* **Lund, Steven M.**
Descloux, J. Stability of the solutions of the bidimensional magnetic shaping problem in absence of surface tension. **93g:76111**
Drozdov, V. V. *see* **Galkin, S. A.; et al.**, **93c:76084**
Druzhinin, I. Yu. Formulation of problems on the stability of shock waves in magnetohydrodynamics. (Russian. Russian summary) **93d:76074**
Eickermann, Th. *see* **Spatschek, K. H.; et al.**, **93i:76102**
Feireisl, Eduard A priori estimates for the stationary equations of electrohydrodynamics. (Italian summary) **93k:35211**
Galkin, S. A. (*with* Drozdov, V. V.; Martynov, A. A.) A variational approach to constructing of approximate models for MHD equilibrium and stability. **93c:76084**
Gilbert, Andrew D. (*with* Bayly, Bruce) Magnetic field intermittency and fast dynamo action in random helical flows. (English summary) **93f:76101**
Grigor'ev, A. I. (*with* Lazaryants, A. È.) A method for solving the Navier-Stokes equation in curvilinear coordinate systems. (Russian) **93d:35115**
Hamilton, R. L. (*with* Kennel, C. F.; Mjølhus, E.) Stability and bifurcation of quasiparallel Alfvén solitons. (English summary) **93j:35149**
Kennel, C. F. *see* **Hamilton, R. L.; et al.**, **93j:35149**
Kotschenreuther, M. *see* **Morrison, P. J.**, (**93b:00013**)
Kramer, Lorenz *see* **Silber, Mary; et al.**, **93j:58098**
Latifi, A. *see* **Claude, C.; et al.**, **93g:35128**
Lazaryants, A. È. *see* **Grigor'ev, A. I.**, **93d:35115**
Leon, Jérôme Jp. *see* **Claude, C.; et al.**, **93g:35128**
Linardatos, D. Determination of two-dimensional magnetostatic equilibria and analogous Euler flows. (English summary) **93i:76100**
Lo Surdo, C. Uniqueness theorems in ideal magnetofluid dynamics. **93a:76108**
Lund, Steven M. (*with* Davidson, Ronald C.) A class of coherent vortex structures in rotating nonneutral plasma. (English summary)
Martynov, A. A. *see* **Galkin, S. A.; et al.**, **93c:76084**
Martynov, O. M. A one-dimensional problem of MHD equilibrium. (Russian) (*see* **93m:00035**)
Mathur, Samir D. Onset of linear instability in homogeneous plasmas. (English summary) **93g:82096**
Mjølhus, E. *see* **Hamilton, R. L.; et al.**, **93j:35149**
Moiseev, S. S. *see* **Barts, B. I.**, (**92d:00031**)
Morrison, P. J. (*with* Kotschenreuther, M.) The free energy principle, negative energy modes, and stability. (*see* **93b:00013**)
Nakamura, Masa Aki On the magnetic Bénard problem. II. (English summary) **93k:35220**
Naulin, V. *see* **Spatschek, K. H.; et al.**, **93i:76102**
Riecke, Hermann *see* **Silber, Mary; et al.**, **93j:58098**
Roberts, Paul H. (*with* Soward, A. M.) Dynamo theory. **93c:76086**
Rucklidge, A. M. Chaos in a low-order model of magnetoconvection. (English summary) **93k:76125**
Ruzmaikin, A. A. *see* **Sokolov, D. D.; et al.**, **93h:76081**
Séro-Guillaume, O. E. (*with* Zouaoui, D.; Bernardin, D.; Brancher, J.-P.) The shape of a magnetic liquid drop. (English summary) **93h:76080**
Shivamoggi, Bhimsen K. Ideal and resistive magnetohydrodynamic modes. (English summary) **93j:76068**
Shukurov, A. M. *see* **Sokolov, D. D.; et al.**, **93h:76081**
Silber, Mary (*with* Riecke, Hermann; Kramer, Lorenz) Symmetry-breaking Hopf bifurcation in anisotropic systems. (English summary) **93j:58098**
Sokolov, D. D. (*with* Shukurov, A. M.; Ruzmaikin, A. A.) Magnetic structures, intermittency and highly supercritical dynamos. (English summary) **93h:76081**
Soward, A. M. *see* **Roberts, Paul H.**, **93c:76086**
Spatschek, K. H. (*with* Zhang, W.; Naulin, V.; Eickermann, Th.) Self-organization of nonlinear waves and vortices in driven and damped systems. (English summary) **93i:76102**
Tasso, H. (*with* Camargo, S. J.) On the nonlinear stability of dissipative fluids. (English summary) **93f:76049**
Thess, André Instabilities in two-dimensional spatially periodic flows. I. Kolmogorov flow. **93d:76027**
— Instabilities in two-dimensional spatially periodic flows. II. Square eddy lattice. **93d:76028**
Tsebers, A. O. Effects of deterministic chaos on the forced oscillations of a magnetic liquid drop. (Russian)
Tur, A. V. (*with* Chechkin, A. V.; Yanovskiĭ, V. V.) Negative viscosity and generation of dissipative solitons and zonal dissipative structures by drift waves. (English summary) **93i:76103**
Wahlberg, Christer Nonlinear kink mode dynamics in circular and noncircular pinches. **93c:76087**
Wilhelmsson, Hans Evolution and self-formation in some nonlinear systems. **93e:35059**
Yanovskiĭ, V. V. *see* **Tur, A. V.; et al.**, **93i:76103**
Zhang, W. *see* **Spatschek, K. H.; et al.**, **93i:76102**
Zimmermann, Walter On travelling waves in electrohydrodynamic convection in nematics. **93g:76013**
Zouaoui, D. *see* **Séro-Guillaume, O. E.; et al.**, **93h:76080**
Zubarev, A. Yu. Spinodal decay in magnetic fluids. (Russian) **93a:76109**

76E30 Nonlinear effects

Barkley, Dwight *see* **Tuckerman, Laurette S.**, **93k:76050**
Bassom, Andrew P. (*with* Hall, Philip[2]) On the interaction of Görtler vortices and Tollmien-Schlichting waves in boundary layer flows. (English summary) **93m:76039**
— (*with* Seddougui, Sharon O.) The effects of suction on the nonlinear stability of the three-dimensional boundary layer above a rotating disc. (English summary) **93e:76032**
Blackaby, Nicholas D. The inviscid instability of a nonlinear Görtler vortex state in a large Mach number boundary layer flow. (English summary) **93k:76046**
Blennerhassett, P. *see* **Smith, F. T.**, **93e:76035**
Bowles, R. I. *see* **Walton, A. G.; et al.**, **93k:76051**
Camargo, S. J. *see* **Tasso, H.**, **93f:76049**
Carmona, Carlos *see* **Power, Henry; et al.**, **93c:76039**
Carnevale, G. F. *see* **Kloosterziel, R. C.**, **93m:76041**
Choudhari, Meelan (*with* Hall, Philip[2]) On the nonlinear evolution of large wavelength Görtler vortices. (English summary) **93k:76047**
Churilov, S. M. (*with* Shukhman, I. G.) Weakly nonlinear theory of the alternation of modes in a circular shear flow. (English summary) **93g:76060**
Collet, P. (*with* Eckmann, J.-P.; Epstein, Henri) Diffusive repair for the Ginzburg-Landau equation. **93b:76037**
Demay, Yves (*with* Iooss, Gérard; Laure, P.) Wave patterns in the small gap Couette-Taylor problem. (English summary) **93k:76048**
— *see also* **Iooss, Gérard; et al.**, **93f:76048**
Denier, James P. (*with* Hall, Philip[2]) On the nonlinear development of the most unstable Görtler vortex mode. (English summary) **93m:76040**
Eckmann, J.-P. *see* **Collet, P.; et al.**, **93b:76037**
Epstein, Henri *see* **Collet, P.; et al.**, **93b:76037**
Hall, Philip[2] *see* **Choudhari, Meelan**, **93k:76047**; **Bassom, Andrew P.**, **93m:76039** *and* **Denier, James P.**, **93m:76040**
van Harten, Aart On the validity of the Ginzburg-Landau equation. **93b:76038**
Horwitz, J. (*with* Rosenblat, S.) Nonlinear stability of a viscous axisymmetric jet. (English summary) **93f:76047**
Iooss, Gérard (*with* Mielke, Alexander; Demay, Yves) Mathematical justification of steady Ginzburg-Landau equation starting from Navier-Stokes. **93f:76048**
— *see also* **Demay, Yves; et al.**, **93k:76048**
Kloosterziel, R. C. (*with* Carnevale, G. F.) Formal stability of circular vortices. (English summary) **93m:76041**
Laure, P. *see* **Demay, Yves; et al.**, **93k:76048**
Mielke, Alexander *see* **Iooss, Gérard; et al.**, **93f:76048**
Mu, Mu Nonlinear stability criteria for motions of multilayer quasi-geostrophic flow. **93e:76033**
Nepomnyashchiĭ, A. A. *see* **Pismen, L. M.**, **93a:76045**
Pismen, L. M. (*with* Nepomnyashchiĭ, A. A.) On interaction of spiral waves. **93a:76045**
Pomeau, Yves Bifurcations and subcritical instabilities. **93e:76034**
Power, Henry (*with* Villegas, Miguel; Carmona, Carlos) Nonlinear inertial effects on the instability of a single long wave of finite amplitude at the interface of two viscous fluids. **93c:76039**
Rosenblat, S. *see* **Horwitz, J.**, **93f:76047**
Rouchon, Pierre On the Arnol'd stability criterion for steady-state flows of an ideal fluid. **93h:76037**
Sather, D. Transition solutions in the Taylor problem. **93k:76049**
Savenkov, I. V. Resonant amplification of two-dimensional disturbances in a semi-infinite channel. (Russian. Russian summary) **93h:76038**
Seddougui, Sharon O. *see* **Bassom, Andrew P.**, **93e:76032**
Shivamoggi, Bhimsen K. Exact analytical solution of coupled Landau equations. (English summary) **93c:76040**
Shukhman, I. G. Nonlinear evolution of spiral density waves generated by the instability of the shear layer in a rotating compressible fluid. **93b:76039**
— *see also* **Churilov, S. M.**, **93g:76060**
Smith, F. T. (*with* Blennerhassett, P.) Nonlinear interaction of oblique three-dimensional Tollmien-Schlichting waves and longitudinal vortices, in channel flows and boundary layers. (English summary) **93e:76035**
— *see also* **Walton, A. G.; et al.**, **93k:76051**
Tasso, H. (*with* Camargo, S. J.) On the nonlinear stability of dissipative fluids. (English summary) **93f:76049**

Tuckerman, Laurette S. (*with* Barkley, Dwight) Erratum: "Bifurcation analysis of the Eckhaus instability" [Phys. D **46** (1990), no. 1, 57–86; MR 92g:76046]. **93k:76050**
Villegas, Miguel *see* **Power, Henry; et al., 93c:76039**
Walton, A. G. (*with* Bowles, R. I.; Smith, F. T.) Vortex-wave interaction in a strong adverse pressure gradient. (English summary) **93k:76051**

Items with secondary classifications in 76E30

Bakker, P. G. ★ Bifurcations in flow patterns. **93i:76001**
Balakumar, P. *see* **Hall, Philip[2]; et al., 93c:76016**
Bell, M. J. *see* **Read, P. L.; et al., 93c:76047**
Benney, D. J. (*with* Zhou, Yi Fan) The nonlinear instability characteristics of waves in free shear layers. **93g:35110**
Bertolotti, F. P. (*with* Herbert, Th.; Spalart, P. R.) Linear and nonlinear stability of the Blasius boundary layer. (English summary) **93g:76061**
Boichenko, V. A. *see* **Leonov, G. A., 93e:58132**
Bolstad, John H. Following paths of symmetry-breaking bifurcation points. (English summary) **93h:58162**
Camassa, Roberto (*with* Wu, Theodore Y.) Stability of forced steady solitary waves. **93a:76046**
Chechkin, A. V. *see* **Tur, A. V.; et al., 93i:76103**
Chernousenko, V. M. (*with* Zadorozhnyĭ, V. F.; Tsvily, B. P.) Evolution and stability of vortex structures in continuum media. (*see* **93b:00012**)
Chomaz, J.-M. Absolute and convective instabilities in nonlinear systems. (English summary) **93f:76043**
Coullet, Pierre (*with* Frisch, T.; Plaza, Frédéric) Sources and sinks of wave patterns. (English summary) **93k:58204**
Cox, Stephen M. (*with* Leibovich, Sidney; Moroz, Irene M.; Tandon, Amit) Nonlinear dynamics in Langmuir circulations with O(2) symmetry. (English summary) **93h:76032**
— (*with* Leibovich, Sidney; Moroz, Irene M.; Tandon, Amit) Hopf bifurcations in Langmuir circulations. (English summary) **93k:76045**
Damil, N. (*with* Potier-Ferry, M.) Amplitude equations for cellular instabilities. **93k:35242**
Denier, James P. The structure of fully nonlinear Taylor vortices. (English summary) **93e:76023**
Doorly, D. J. (*with* Smith, F. T.) Initial value problems for spot disturbances in incompressible or compressible boundary layers. **93a:76031**
Elhefnawy, Abdel Raouf F. The Rayleigh-Taylor instability in magnetic fluids and nonlinear interfacial waves. (English and French summaries) **93h:76035**
— Nonlinear Rayleigh-Taylor instability in magnetic fluids between two parallel plates. (English summary) **93e:76031**
Franchi, F. (*with* Straughan, Brian) A nonlinear energy stability analysis of a model for deep convection. **93c:76033**
Friedlander, Susan (*with* Vishik, M. M.) Instability criteria for steady flows of a perfect fluid. (English summary) **93j:76034**
Frisch, T. *see* **Coullet, Pierre; et al., 93k:58204**
Fu, Yibin (*with* Hall, Philip[2]) Nonlinear development and secondary instability of large-amplitude Görtler vortices in hypersonic boundary layers. (English summary) **93i:76050**
Gibbon, J. D. Weak and strong turbulence in a class of complex Ginzburg-Landau equations. **93g:76071**
Gumerov, N. A. Quasimonochromatic weakly nonlinear waves in a bubble medium with small dissipation. (Russian) **93d:76070**
Hall, Philip[2] (*with* Balakumar, P.; Papageorgiu, D.) On a class of unsteady three-dimensional Navier-Stokes solutions relevant to rotating disc flows: threshold amplitudes and finite-time singularities. **93c:76016**
— *see also* **Fu, Yibin, 93i:76050**
(Hargittai, István) *see* **Spiral symmetry, 93h:00014**
Henningson, Dan S. *see* **Schmid, Peter J., 93f:76059**
Herbert, Th. *see* **Bertolotti, F. P.; et al., 93g:76061**
Hussain, Fazle *see* **Kunin, I. A.; et al., 93g:76031**
(Hussaini, M. Y.) *see* **Instability, transition, and turbulence, 93j:76004**
Il'in, K. I. Stability of a baroclinic vortex. (Russian) **93e:76029**
Impey, M. D. (*with* Riley, D. S.; Wheeler, A. A.) Bifurcation analysis of cellular interfaces in unidirectional solidification of a dilute binary mixture. (English summary) **93j:35032**
Iooss, Gérard (*with* Mielke, Alexander) Time-periodic Ginzburg-Landau equations for one-dimensional patterns with large wave length. **93e:58168**
Joets, A. *see* **Ribotta, R., 93e:76007**
Johnson, D. W. *see* **Read, P. L.; et al., 93c:76047**
Keefe, Laurence R. Two nonlinear control schemes contrasted on a hydrodynamiclike model. (English summary) **93k:76096**
Kevorkian, J. *see* **Yu, Jun[2], 93g:76043**
Klein, Rupert (*with* Majda, Andrew J.; McLaughlin, Richard M.) Asymptotic equations for the stretching of vortex filaments in a background flow field. (English summary) **93h:76025**
— (*with* Majda, Andrew J.) An asymptotic theory for the nonlinear instability of antiparallel pairs of vortex filaments. (English summary) **93m:76014**
Koch, Werner On a degeneracy of temporal secondary instability modes in Blasius boundary-layer flow. (English summary) **93g:76053**
Kotychenko, L. N. *see* **Tsvelodub, O. Yu., 93m:76029**
Kraenkel, R. A. *see* **Manna, M. A.; et al., 93h:76029**
(Kumar, Ajay[2]) *see* **Instability, transition, and turbulence, 93j:76004**
Kunin, I. A. (*with* Hussain, Fazle; Zhou, Xiaoliang) Stability of the 4-vortex system. **93g:76031**
Kurcbart, S. M. *see* **Manna, M. A.; et al., 93h:76029**
Leibovich, Sidney *see* **Cox, Stephen M.; et al., 93h:76032** *and* **93k:76045**
Leonov, G. A. (*with* Boichenko, V. A.) Lyapunov's direct method in the estimation of the Hausdorff dimension of attractors. **93e:58132**
Lichter, Seth Quasiperiodicity, chaos, and damping in cross-waves. (English summary) **93i:76031**
Lindsay, K. A. (*with* Straughan, Brian) Nonlinear temperature-dependent surface tension driven convection. **93e:76025**
Liu, Vincent Xiaosong Instability for the Navier-Stokes equations on the 2-dimensional torus and a lower bound for the Hausdorff dimension of their global attractors. **93f:35185**
Lu, Ya Yan Bifurcation to mean flows in convection. (English summary) **93m:76035**
Majda, Andrew J. (*with* Roytburd, V.) Low-frequency multidimensional instabilities for reacting shock waves. **93f:76064**
— *see also* **Klein, Rupert; et al., 93h:76025** *and* **93m:76014**
Malik, S. K. (*with* Singh, Manohar) Chaos in Kelvin-Helmholtz instability in magnetic fluids. (English summary) **93i:76039**
Manna, M. A. (*with* Kraenkel, R. A.; Kurcbart, S. M.; Pereira, J. G.) Some nonlinear evolution equations in the Bénard problem. (English summary) **93h:76029**
Matsuoka, Chihiro (*with* Nozaki, Kazuhiro) Vortex dynamics of the complex Ginzburg-Landau equation. **93d:35155**
McKay, G. (*with* Straughan, Brian) Nonlinear energy stability and convection near the density maximum. (English summary) **93h:76030**
McLaughlin, Richard M. *see* **Klein, Rupert; et al., 93h:76025**
Melville, W. K. *see* **Zhang, Jun, 93g:76064**
Metzener, P. (*with* Proctor, M. R. E.) Interaction of patterns with disparate scales. (English summary) **93j:76033**
Mielke, Alexander Reduction of PDEs on domains with several unbounded directions: a first step towards modulation equations. (German summary) **93f:35023**
— *see also* **Iooss, Gérard, 93e:58168**
Moroz, Irene M. *see* **Cox, Stephen M.; et al., 93h:76032** *and* **93k:76045**
Mu, Mu (*with* Wang, Xi Yong) Nonlinear stability criteria for the motion of three-dimensional quasigeostrophic flow on a β-plane. **93f:76045**
Mulone, G. On the stability of a rotating fluid with Prandtl numbers less than 1. (Italian summary) **93h:76031**
Newell, Alan C. *see* **Passot, T., 93i:76086**
Nozaki, Kazuhiro *see* **Matsuoka, Chihiro, 93d:35155**
Padula, Mariarosaria Nonlinear stability results for a discrete velocity model of a gas in a slab. (*see* **93g:00030**)
Papageorgiu, D. *see* **Hall, Philip[2]; et al., 93c:76016**
Passot, T. (*with* Newell, Alan C.) The phase-diffusion equation and its regularization for natural convective patterns. (English summary) **93i:76086**
Pereira, J. G. *see* **Manna, M. A.; et al., 93h:76029**
(Pickover, Clifford A.) *see* **Spiral symmetry, 93h:00014**
Plaza, Frédéric *see* **Coullet, Pierre; et al., 93k:58204**
Potier-Ferry, M. *see* **Damil, N., 93k:35242**
Proctor, M. R. E. *see* **Metzener, P., 93j:76033**
Read, P. L. (*with* Bell, M. J.; Johnson, D. W.; Small, R. M.) Quasi-periodic and chaotic flow regimes in a thermally driven, rotating fluid annulus. **93c:76047**
Riahi, D. N. Weakly nonlinear oscillatory convection in a rotating fluid. (English summary) **93e:76026**
Ribotta, R. (*with* Joets, A.) Defects of nonlinear waves in the convection of a nematic liquid crystal. (English summary) **93e:76007**
Rica, Sergio (*with* Tirapegui, Enrique) Dynamics of spirals defects in two-dimensional extended systems. (English summary) **93e:76045**
Riley, D. S. *see* **Impey, M. D.; et al., 93j:35032**
Roytburd, V. *see* **Majda, Andrew J., 93f:76064**
Rucklidge, A. M. Chaos in models of double convection. **93g:76059**
Schmid, Peter J. (*with* Henningson, Dan S.) A new mechanism for rapid transition involving a pair of oblique waves. (English summary) **93f:76059**
Singh, Manohar *see* **Malik, S. K., 93i:76039**
Small, R. M. *see* **Read, P. L.; et al., 93c:76047**
Smith, F. T. *see* **Doorly, D. J., 93a:76031**
Spalart, P. R. *see* **Bertolotti, F. P.; et al., 93g:76061**
Straughan, Brian ★ The energy method, stability, and nonlinear convection. **93e:76027**
— Stability problems in electrohydrodynamics, ferrohydrodynamics and thermoelectric magnetohydrodynamics. **93m:76038**
— *see also* **Franchi, F., 93c:76033**; **Lindsay, K. A., 93e:76025** *and* **McKay, G., 93h:76030**
(Streett, C. L.) *see* **Instability, transition, and turbulence, 93j:76004**
Strobel, Darrell F. *see* **Zhu, Xun, 93h:76034**
Tandon, Amit *see* **Cox, Stephen M.; et al., 93h:76032** *and* **93k:76045**
Tirapegui, Enrique *see* **Rica, Sergio, 93e:76045**
Trifonov, Yu. Ya. *see* **Tsvelodub, O. Yu., 93j:76027**
Tsvelodub, O. Yu. (*with* Trifonov, Yu. Ya.) Nonlinear waves on the surface of a falling liquid film. II. Bifurcations of the first-family waves and other types of nonlinear waves. (English summary) **93j:76027**
— (*with* Kotychenko, L. N.) Spatial wave regimes on a surface of thin viscous liquid film. (English summary) **93m:76029**
Tsvily, B. P. *see* **Chernousenko, V. M.; et al., (93b:00012)**
Tur, A. V. (*with* Chechkin, A. V.; Yanovskiĭ, V. V.) Negative viscosity and generation of dissipative solitons and zonal dissipative structures by drift waves. (English summary) **93i:76103**
Vishik, M. M. *see* **Friedlander, Susan, 93j:76034**
Wahlberg, Christer Nonlinear kink mode dynamics in circular and noncircular pinches. **93c:76087**
Walgraef, D. External forcing of liquid crystal instabilities. (English summary) **93e:76008**
Wang, Xi Yong *see* **Mu, Mu, 93f:76045**
Wheeler, A. A. *see* **Impey, M. D.; et al., 93j:35032**
Wu, Theodore Y. *see* **Camassa, Roberto, 93a:76046**
Yanovskiĭ, V. V. *see* **Tur, A. V.; et al., 93i:76103**
Yortsos, Y. C. *see* **Zeybek, M., 93g:76106**
Yu, Jun[2] (*with* Kevorkian, J.) Nonlinear evolution of small disturbances into roll waves in an inclined open channel. (English summary) **93g:76043**
Zadorozhnyĭ, V. F. *see* **Chernousenko, V. M.; et al., (93b:00012)**
Zeybek, M. (*with* Yortsos, Y. C.) Parallel flow in Hele-Shaw cells. (English summary) **93g:76106**
Zhang, Jun (*with* Melville, W. K.) On the stability of weakly nonlinear short waves on finite-amplitude long gravity waves. (English summary) **93g:76064**
Zhou, Xiaoliang *see* **Kunin, I. A.; et al., 93g:76031**

Zhou, Yi Fan *see* **Benney, D. J., 93g:35110**
Zhu, Xun (*with* Strobel, Darrell F.) Nonlinear saturation of baroclinic instability in two-layer models. (English summary) **93h:76034**

Items listed otherwise than by author

Hampton, VA ★ Instability, transition, and turbulence. **93j:76004**
Instability, transition, and turbulence ★ Instability, transition, and turbulence. **93j:76004**
Spiral symmetry ★ Spiral symmetry. **93h:00014**
Workshop:
Instability, Transition, and Turbulence ★ Instability, transition, and turbulence. **93j:76004**

76E99 None of the above, but in this section

Balakumar, P. *see* **Duck, Peter W., 93k:76054**
Balsa, Thomas F. Flow generated by a small oscillating cylinder in a mixing layer. (English summary) **93k:76052**
Bauer, Helmut F. Natural damped frequencies and axial response of a rotating finite viscous liquid column. **93e:76036**
Berger, Stanley A. Ellipticity in the vortex breakdown problem. (English summary) **93k:76053**
Bertolotti, F. P. (*with* Herbert, Th.; Spalart, P. R.) Linear and nonlinear stability of the Blasius boundary layer. (English summary) **93g:76061**
Blackaby, Nicholas D. (*with* Cowley, Stephen J.; Hall, Philip[2]) On the instability of hypersonic flow past a flat plate. (English summary) **93m:76042**
Brevdo, Leonid A note on the Gaster transformation.
Brown, G. L. (*with* Lopez, Juan Manuel) Axisymmetric vortex breakdown. II. Physical mechanisms. **93c:76041b**
Camassa, Roberto (*with* Wu, Theodore Y.) Stability of forced steady solitary waves. **93a:76046**
Chiujdea, Cornelia (*with* Georgescu, Adelina; Florea, Răzvan) Linear stability of a turbulent flow of Maxwell fluids in pipes. (English summary) **93h:76039**
Cowley, Stephen J. *see* **Blackaby, Nicholas D.; et al., 93m:76042**
Dixon, A. E. The stability and evolution of interfacial waves. (English summary) **93i:76041**
Duck, Peter W. (*with* Balakumar, P.) On the stability of normal shock waves. (English summary) **93k:76054**
— (*with* Khorrami, Mehdi R.) A note on the effects of viscosity on the stability of a trailing-line vortex. (English summary) **93k:76055**
Florea, Răzvan *see* **Chiujdea, Cornelia; et al., 93h:76039**
Frenkel, Alexander L. Stability of an oscillating Kolmogorov flow. **93b:76040**
Friedlander, Susan (*with* Vishik, M. M.) Instability criteria for steady flows of a perfect fluid. (English summary) **93j:76034**
Frycz, P. (*with* Infeld, E.; Rowlands, George) Can the dynamics of structural change be treated theoretically? (*see* **93f:00015**)
Fu, Yibin (*with* Hall, Philip[2]) Effects of Görtler vortices, wall cooling and gas dissociation on the Rayleigh instability in a hypersonic boundary layer. (English summary) **93m:76043**
Georgescu, Adelina *see* **Chiujdea, Cornelia; et al., 93h:76039**
Georgiou, E. (*with* Maldarelli, C.; Papageorgiou, D. T.; Rumschitzki, D. S.) An asymptotic theory for the linear stability of a core-annular flow in the thin annular limit. (English summary) **93g:76062**
Hall, Philip[2] *see* **Blackaby, Nicholas D.; et al., 93m:76042** *and* **Fu, Yibin, 93m:76043**
Herbert, Th. *see* **Bertolotti, F. P.; et al., 93g:76061**
Hocking, Leslie M. (*with* Miksis, Michael J.) Stability of a ridge of fluid. (English summary) **93m:76044**
Infeld, E. *see* **Frycz, P.; et al., (93f:00015)**
Iooss, Gérard (*with* Mielke, Alexander) Hydrodynamical stability problems in infinitely long cylindrical domains: existence of defects in travelling waves. (English summary) **93g:76063**
Khorrami, Mehdi R. *see* **Duck, Peter W., 93k:76055**
Lopez, Juan Manuel Axisymmetric vortex breakdown. I. Confined swirling flow. **93c:76041a**
— (*with* Perry, A. D.) Axisymmetric vortex breakdown. III. Onset of periodic flow and chaotic advection. **93c:76041c**
— *see also* **Brown, G. L., 93c:76041b**
Maldarelli, C. *see* **Georgiou, E.; et al., 93g:76062**
Melville, W. K. *see* **Zhang, Jun, 93g:76064**
Mielke, Alexander *see* **Iooss, Gérard, 93g:76063**
Miksis, Michael J. *see* **Hocking, Leslie M., 93m:76044**
Neuvazhaev, V. E. (*with* Parshukov, I. È.) Investigation of Richtmyer-Meshkov instability by the vortex method. (Russian. Russian summary) **93j:76035**
Novotný, Antonín (*with* Padula, Mariarosaria) On the stability of the rest state of compressible multipolar fluids. (English summary) **93k:76056**
Okamoto, Hisashi (*with* Tavener, Simon J.) Degenerate O(2)-equivariant bifurcation equations and their applications to the Taylor problem. **93b:76041**
Padula, Mariarosaria *see* **Novotný, Antonín, 93k:76056**
Papageorgiou, D. T. *see* **Georgiou, E.; et al., 93g:76062**
Parshukov, I. È. *see* **Neuvazhaev, V. E., 93j:76035**
Perry, A. D. *see* **Lopez, Juan Manuel, 93c:76041c**
Popov, S. P. Soliton perturbations induced by an oscillator in a boundary layer. (Russian) **93b:76042**
Ripa, P. Instability of a solid-body rotating vortex in a two-layer model. (English summary) **93k:76057**
— A tale of three theorems. (Spanish summary) **93k:76058**
Rouchon, Pierre The Jacobi equation, Riemannian curvature and the motion of a perfect incompressible fluid. **93a:76047**
Rowlands, George *see* **Frycz, P.; et al., (93f:00015)**
Rumschitzki, D. S. *see* **Georgiou, E.; et al., 93g:76062**
Sharma, B. B. *see* **Sharma, Nanak C., 93i:76042**
Sharma, Nanak C. (*with* Sharma, B. B.) A modified instability criterion for heterogeneous shear flows. (English summary) **93i:76042**
Spalart, P. R. *see* **Bertolotti, F. P.; et al., 93g:76061**
Tavener, Simon J. *see* **Okamoto, Hisashi, 93b:76041**
Thess, André Instabilities in two-dimensional spatially periodic flows. I. Kolmogorov flow. **93d:76027**
— Instabilities in two-dimensional spatially periodic flows. II. Square eddy lattice. **93d:76028**
Vishik, M. M. *see* **Friedlander, Susan, 93j:76034**
Wu, Theodore Y. *see* **Camassa, Roberto, 93a:76046**
Xu, Jian Jun[1] Global instability of viscous fingering in a Hele-Shaw cell: formation of oscillatory fingers. **93a:76048**
Zhang, Jun (*with* Melville, W. K.) On the stability of weakly nonlinear short waves on finite-amplitude long gravity waves. (English summary) **93g:76064**

Items with secondary classifications in 76E99

Achard, J.-L. *see* **Canot, E., 93d:76053**
Adelmeyer, Moritz *see* **Iooss, Gérard, 93i:58001**
Albert, John P. Positivity properties and stability of solitary-wave solutions of model equations for long waves. **93d:35140**
Aston, P. J. (*with* Spence, A.; Wu, Wei[1]) Bifurcation to rotating waves in equations with O(2)-symmetry. **93e:58025**
Avellaneda, Marco (*with* Majda, Andrew J.) An integral representation and bounds on the effective diffusivity in passive advection by laminar and turbulent flows. **93e:76043**
Baesens, Claude (*with* MacKay, Robert S.) Uniformly travelling water waves from a dynamical systems viewpoint: some insights into bifurcations from Stokes' family. (English summary) **93h:76007**
Banks, W. H. H. *see* **Watson, P.; et al., 93k:76030**
Barozzi, E. (*with* Emmer, M.; Gonzalez, E. H. A.) Lagrange multipliers and variational methods for equilibrium problems of fluids. **93j:49044**
Bashkirov, A. G. Influence of viscous stresses on shock wave stability in gases. (English summary) **93k:76073**
Blokhin, A. M. (*with* Druzhinin, I. Yu.) On the stability of a fast magnetohydrodynamic shock wave for a weak magnetic field. (Russian) **93j:76066**
Bradley, N. J. *see* **Spencer, A. J. M., 93k:76005**
Brevdo, Leonid Three-dimensional absolute and convective instabilities, and spatially amplifying waves in parallel shear flows. **93a:76053**
Broze, George (*with* Hussain, Fazle) Spatiotemporal dynamics in transitional jet flow. (English summary) (*see* **93g:76004**)
Canot, E. (*with* Achard, J.-L.) An overview of boundary integral formulations for potential flows in fluid-fluid systems. **93d:76053**
Capodanno, Pierre Sur la stabilité d'un mouvement particulier d'un solide se déplaçant dans un fluide et possédant une cavité partiellement remplie de liquide. (English summary) [On the stability of a particular motion in a fluid of a solid containing a cavity partially filled with liquid] **93i:76018**
Chen, Qi Keith *see* **Yu, Lei; et al., 93g:58101**
Chen, Yan Sheng *see* **Zhou, Qing Fu, 93d:76010**
Chorin, Alexandre Joel Vortices, turbulence, and statistical mechanics. (*see* **93f:76078**)
Cohen, Robert Adam (*with* Luskin, Mitchell) Field-induced instabilities in nematic liquid crystals. (English summary) **93k:58055**
(Coron, Jean-Michel) *see* **Nematics, 93d:58007**
Couder, Yves Growth patterns: from stable curved fronts to fractal structures. **93m:76030**
Crewther, I. (*with* Huilgol, R. R.; Jozsa, R.) Axisymmetric and nonaxisymmetric flows of a non-Newtonian fluid between coaxial rotating discs. **93a:76004**
Dallmann, Uwe *see* **Simen, Martin, 93h:76044**
Dolzhanskii, F. V. (*with* Krymov, V. A.; Manin, D. Yu.) Quasi two-dimensional coherent structures. (English summary) (*see* **93g:76004**)
Drazin, P. G. *see* **Watson, P.; et al., 93k:76030**
Druzhinin, I. Yu. Formulations of problems on the stability of discontinuities in magnetohydrodynamics. (Russian) **93j:76067**
— *see also* **Blokhin, A. M., 93j:76066**
Druzhinin, O. A. (*with* Khomenko, G. A.) Nonlinear hydrodynamic alpha-effect and inverse energy cascade in turbulence of compressible fluid. (*see* **93b:00012**)
Duchon, Jean (*with* Robert, Raoul) Relaxation of Euler equations and hydrodynamic instabilities. **93g:76029**
Ebeling, Werner (*with* Engel-Herbert, H.; Herzel, Hans-Peter) ★ Selbstorganisation in der Zeit. (German) [Self-organization in time] **93d:00019**
Emmer, M. *see* **Barozzi, E.; et al., 93j:49044**
Engel-Herbert, H. *see* **Ebeling, Werner; et al., 93d:00019**
Ersh, N. M. *see* **Gol'dshtik, M. A., 93b:76023**
Fedorov, Alexandre V. (*with* Khokhlov, A. P.) Sensitivity of a supersonic boundary layer to acoustic disturbances. (Russian. Russian summary) **93k:76071**
Fetecău, Constantin Thermal influence on the propagation of cylindrical waves in simple fluids. (Romanian) **93a:76034**
Foster, M. R. (*with* Jacqmin, David) Nonparallel effects in the instability of Long's vortex. (English summary) **93h:76028**
Gaponov-Grekhov, A. V. (*with* Lomov, A. S.; Osipov, G. V.; Rabinovich, M. I.) Generation and dynamics of two-dimensional structures in nonequilibrium dissipative media. (Russian) **93f:58220**
Gavrilyuk, S. L. Existence, uniqueness, and Lax stability of traveling waves in a polydisperse bubbly medium with dissipation. **93c:76081**
(Ghidaglia, Jean-Michel) *see* **Nematics, 93d:58007**
Goldhirsch, Isaac Spectral degeneracy and hydrodynamic stability. (English summary) **93g:34078**
— *see also* **Sela, Nathan, 93f:76020**
Gol'dshtik, M. A. (*with* Ersh, N. M.) Stability of self-similar pipe flow with suction. (Russian) **93b:76023**
Gonzalez, E. H. A. *see* **Barozzi, E.; et al., 93j:49044**
Göz, M. F. On the origin of wave patterns in fluidized beds. (English summary) **93g:76107**
Grimshaw, R. H. J. Wave interactions in stratified fluids. **93a:76106**
Grotberg, J. B. *see* **Jensen, O. E., 93f:76026**

Guckenheimer, John (*with* Mahalov, Alex) Resonant triad interactions in symmetric systems. **93b:76028**
Gundersen, Roy M. The evolution of packets of surface waves. (English summary) **93m:76008**
(Hélein, Frédéric) *see* **Nematics, 93d:58007**
Herzel, Hans-Peter *see* **Ebeling, Werner; et al., 93d:00019**
Hill, Andrew (*with* Stewart, Ian N.) 3-mode interactions with O(2) symmetry and a model for Taylor-Couette flow. **93d:58111**
Hoover, Carol G. *see* **Hoover, William G.; et al., 93c:82032**
Hoover, William G. (*with* Posch, Harald A.; Hoover, Carol G.) Fractal dimension of steady nonequilibrium flows. **93c:82032**
Hu, Howard H. (*with* Joseph, Daniel D.) Miscible displacement in a Hele-Shaw cell. (English summary) **93c:76025**
Huang, Ke Lei *see* **Zhao, Xiao Hua; et al., 93j:76039**
Huilgol, R. R. *see* **Crewther, I.; et al., 93a:76004**
Hussain, Fazle *see* **Broze, George, (93g:76004)**
Hussaini, M. Y. *see* **Lasseigne, D. Glenn, 93k:76074**
Iooss, Gérard (*with* Adelmeyer, Moritz) ★ Topics in bifurcation theory and applications. **93i:58001**
Jacqmin, David *see* **Foster, M. R., 93h:76028**
Jensen, O. E. (*with* Grotberg, J. B.) Insoluble surfactant spreading on a thin viscous film: shock evolution and film rupture. (English summary) **93f:76026**
Jeong, Jae-Tack (*with* Moffatt, H. Keith) Free-surface cusps associated with flow at low Reynolds numbers. (English summary) **93f:76036**
Jones, M. C. W. On coupled differential equations which model the evolution of interacting capillary-gravity wave modes and related questions of stability. (English summary) **93k:76014**
Joseph, Daniel D. *see* **Hu, Howard H., 93c:76025**
Jozsa, R. *see* **Crewther, I.; et al., 93a:76004**
Keĭl'man, N. È. Stabilization of flows of a barotropic gas with viscosity that depends on density. (Russian. Russian summary) **93d:35117**
Kharrazova, I. R. *see* **Vidyakin, V. V.**
Khokhlov, A. P. *see* **Fedorov, Alexandre V., 93k:76071**
Khomenko, G. A. *see* **Moiseev, S. S.; et al., 93d:76032** *and* **Druzhinin, O. A., (93b:00012)**
Klein, Rupert *see* **Ting, L., 93a:76025**
Kotychenko, L. N. *see* **Tsvelodub, O. Yu.; et al., 93h:76022**
Krymov, V. A. *see* **Dolzhanskii, F. V.; et al., (93g:76004)**
Kuz'min, A. G. Conditions for the stability of a transonic stagnation flow in a channel. (Russian. Russian summary) **93k:76070**
Kwek, Keng Huat *see* **Zhao, Xiao Hua; et al., 93j:76039**
Landsberg, A. S. Geometrical phases and symmetries in dissipative systems. (English summary) **93d:81055**
Lasseigne, D. Glenn (*with* Hussaini, M. Y.) Interaction of disturbances with an oblique detonation wave attached to a wedge. (English summary) **93k:76074**
Legras, Bernard (*with* Zeitlin, V. Yu.) Conformal dynamics for vortex motions. **93e:76015**
Leslie, F. M. Flow-induced instabilities in nematic liquid crystals. (English summary) **93e:76006**
Li, Ji Bin *see* **Zhao, Xiao Hua; et al., 93j:76039**
Li, Kai Tai (*with* Liu, Xiao Zhong) Bifurcation with symmetry breaking for the flow between two concentric rotating spheres. (English summary) **93h:65083**
Li, Zhi Liang *see* **Yang, Zhong Hua[1], (93b:65006)**
Liu, Xiao Zhong *see* **Li, Kai Tai, 93h:65083**
Lombardi, Éric Bifurcation d'ondes solitaires à oscillations de faible amplitude à l'infini, pour un nombre de Froude proche de 1. (English summary) [Bifurcation of solitary waves with oscillations of small amplitude at infinity, for a Froude number near 1] **93a:35018**
Lomov, A. S. *see* **Gaponov-Grekhov, A. V.; et al., 93f:58220**
Lund, Fernando Defect dynamics for the nonlinear Schrödinger equation derived from a variational principle. **93e:35103**
Luskin, Mitchell *see* **Cohen, Robert Adam, 93k:58055**
MacKay, Robert S. *see* **Baesens, Claude, 93h:76007**
MacMillan, Ernest H. On the hydrodynamics of biaxial nematic liquid crystals. I. General theory. **93f:76005a**
— On the hydrodynamics of biaxial nematic liquid crystals. II. Steady-state analysis. **93f:76005b**
Mahalov, Alex *see* **Guckenheimer, John, 93b:76028**
Majda, Andrew J. *see* **Avellaneda, Marco, 93e:76043**
(Mandelbrot, Benoit B.) *see* **Vicsek, Tamás, 93k:82064a**
Manin, D. Yu. *see* **Dolzhanskii, F. V.; et al., (93g:76004)**
Miloh, Touvia *see* **Spector, M. D., 93h:76013**
Moffatt, H. Keith *see* **Jeong, Jae-Tack, 93f:76036**
Moiseev, S. S. (*with* Oganyan, K. R.; Rutkevich, P. B.; Tur, A. V.; Khomenko, G. A.; Yanovskii, V. V.) A vortex dynamo in helical turbulence. (Russian) **93d:76032**
Mulder, Wim A. (*with* Osher, Stanley; Sethian, James A.) Computing interface motion in compressible gas dynamics. **93a:76077**
Nizameev, Kh. R. Stability of a rigid body on a thin layer of a viscous gas. (Russian) **93f:76027**
Oganyan, K. R. *see* **Moiseev, S. S.; et al., 93d:76032**
Olaosebikan, O. Equilibrium states of a hyperelastic subfluid. (English, Russian and Polish summaries) **93g:76012**
Osher, Stanley *see* **Mulder, Wim A.; et al., 93a:76077**
Osipov, G. V. *see* **Gaponov-Grekhov, A. V.; et al., 93f:58220**
Ott, Edward *see* **Yu, Lei; et al., 93g:58101**
Padula, Mariarosaria Stability properties of regular flows of heat-conducting compressible fluids. **93h:76061**
Pego, Robert L. (*with* Weinstein, Michael I.) Eigenvalues, and instabilities of solitary waves. (English summary) **93g:35115**
Peralta-Fabi, R. (*with* Plaschko, P.) Bifurcation of solutions to the controlled Burgers equation. (English summary) **93i:76090**
Planchard, J. (*with* Thomas, B.) Stabilité dynamique en interaction fluide-structure. (English summary) [Dynamical stability in fluid-structure interaction] **93b:73030**
Plaschko, P. *see* **Peralta-Fabi, R., 93i:76090**
Plotnikov, P. I. Nonuniqueness of solutions of a problem on solitary waves, and bifurcations of critical points of smooth functionals. (Russian) **93d:35132**
Posch, Harald A. *see* **Hoover, William G.; et al., 93c:82032**
Rabinovich, M. I. *see* **Gaponov-Grekhov, A. V.; et al., 93f:58220**
Robert, Raoul *see* **Duchon, Jean, 93g:76029**
Roccato, Diego (*with* Virga, Epifanio G.) Drops of nematic liquid crystal floating on a fluid. **93f:76006**
Rutkevich, P. B. *see* **Moiseev, S. S.; et al., 93d:76032**
Ryzhov, O. S. (*with* Terent'ev, E. D.) Wave motions in a three-dimensional boundary layer. (Russian) **93c:76020**
Sazonov, L. I. Justification of the linearization method in a flow problem. (Russian) **93g:76038**
Sela, Nathan (*with* Goldhirsch, Isaac) Stability theory of an elliptical vortex. (English summary) **93f:76020**
Serre, Denis Transitions de phase et oscillations de grande amplitude. (English summary) [Phase transitions and large-amplitude oscillations] **93a:76082**
Sethian, James A. *see* **Mulder, Wim A.; et al., 93a:76077**
Simen, Martin (*with* Dallmann, Uwe) ★ On the instability of hypersonic flow past a pointed cone—comparison of theoretical and experimental results at Mach 8. (English. English and German summaries) **93h:76044**
Smereka, Peter A remark on the solitary wave stability for a Boussinesq equation. **93m:35163**
Spector, M. D. (*with* Miloh, Touvia) A comparative stability study of stationary wave solutions of the Korteweg-de Vries and Benjamin-Ono 2-D models. (English summary) **93h:76013**
Spence, A. *see* **Aston, P. J.; et al., 93e:58025**
Spencer, A. J. M. (*with* Bradley, N. J.) Gravity flow of a granular material in compression between vertical walls and through a tapering vertical channel. (English summary) **93k:76005**
Stewart, Ian N. *see* **Hill, Andrew, 93d:58111**
Tanveer, Saleh Viscous displacement in a Hele-Shaw cell. **93k:76040**
Terent'ev, E. D. *see* **Ryzhov, O. S., 93c:76020**
Thomas, B. *see* **Planchard, J., 93b:73030**
Ting, L. (*with* Klein, Rupert) ★ Viscous vortical flows. **93a:76025**
Trifonov, Yu. Ya. *see* **Tsvelodub, O. Yu.; et al., 93h:76022**
Tsvelodub, O. Yu. (*with* Trifonov, Yu. Ya.; Kotychenko, L. N.) Solution wave structures of model evolutional equation for active dissipative medium. (English summary) **93h:76022**
Tur, A. V. *see* **Moiseev, S. S.; et al., 93d:76032**
Vicsek, Mária (*with* Vicsek, Tamás) ★ Fractal growth. **93k:82064b**
Vicsek, Tamás ★ Fractal growth phenomena. **93k:82064a**
— *see also* **Vicsek, Mária, 93k:82064b**
Vidyakin, V. V. (*with* Kharrazova, I. R.) On the solution of stationary problems of the filtration of a viscoplastic fluid with a variable initial gradient. (Russian. Russian summary)
Virga, Epifanio G. *see* **Roccato, Diego, 93f:76006**
Walgraef, D. External forcing of liquid crystal instabilities. (English summary) **93e:76008**
Watson, P. (*with* Banks, W. H. H.; Zaturska, M. B.; Drazin, P. G.) Laminar channel flow driven by accelerating walls. **93k:76030**
Weinstein, Michael I. *see* **Pego, Robert L., 93g:35115**
Wilson, S. K. The levelling of paint films. (English summary)
Wu, Wei[1] *see* **Aston, P. J.; et al., 93e:58025**
Yang, Hui Jun Wave packets, bifurcations, and chaos. (English summary) **93m:35026**
Yang, Zhong Hua[1] (*with* Li, Zhi Liang) Bifurcation study on the laminar flow in the coiled tube with the triangular cross section. (*see* **93b:65006**)
Yanovskii, V. V. *see* **Moiseev, S. S.; et al., 93d:76032**
Yu, Lei (*with* Ott, Edward; Chen, Qi Keith) Fractal distribution of floaters on a fluid surface and the transition to chaos for random maps. **93g:58101**
Zaturska, M. B. *see* **Watson, P.; et al., 93k:76030**
Zeitlin, V. Yu. *see* **Legras, Bernard, 93e:76015**
Zhao, Xiao Hua (*with* Kwek, Keng Huat; Li, Ji Bin; Huang, Ke Lei) Chaotic and resonant streamlines in the ABC flow. (English summary) **93j:76039**
Zhou, Qing Fu (*with* Chen, Yan Sheng) Fourth order evolution equations with slowly varying depth and current and stability of Stokes waves. **93d:76010**

Items listed otherwise than by author

NATO Advanced Research Workshop:
Defects, Singularities and Patterns in Nematic Liquid Crystals: Mathematical and Physical Aspects ★ Nematics. **93d:58007**
Nematics ★ Nematics. **93d:58007**
Orsay ★ Nematics. **93d:58007**

76Fxx Turbulence [see also 58F13, 58F27, 60Gxx, 60Jxx]

Bayly, Bruce Complexity in fluids. (English summary) **93m:76045**
Berkooz, Gal (*with* Holmes, Philip J.; Lumley, John L.) Low-dimensional models of the wall region in a turbulent boundary layer: new results. (English summary) **93i:76043**
Christov, Christo Ivanov (*with* Nartov, V. P.) ★ Точечные случайные функции и крупномасштабная турбулентность. (Russian. Russian summary) [Pointwise random functions and large-scale turbulence] **93m:76046**
Holmes, Philip J. *see* **Berkooz, Gal; et al., 93i:76043**
Hunt, J. C. R. Developments in computational modelling of turbulent flows. (English summary) **93f:76050**
— *see also* **Turbulence and stochastic processes: Kolmogorov's ideas 50 years on, 93f:76051**
Landahl, M. T. (*with* Mollo-Christensen, E.) ★ Turbulence and random processes in fluid mechanics. **93m:76047**
Lesieur, Marcel ★ Turbulence in fluids. **93h:76040**
Lumley, John L. *see* **Berkooz, Gal; et al., 93i:76043**

Mollo-Christensen, E. *see* **Landahl, M. T., 93m:76047**
Nartov, V. P. *see* **Christov, Christo Ivanov, 93m:76046**
(Phillips, O. M.) *see* **Turbulence and stochastic processes: Kolmogorov's ideas 50 years on, 93f:76051**
(Williams, David) *see* **Turbulence and stochastic processes: Kolmogorov's ideas 50 years on, 93f:76051**

Items listed otherwise than by author

Plenary discussion: Is this the theory for these experiments? Plenary discussion: is this the theory for these experiments? (*see* **93b:76001**)
Turbulence and stochastic processes: Kolmogorov's ideas 50 years on ★ Turbulence and stochastic processes: Kolmogorov's ideas 50 years on. **93f:76051**

Items with secondary classifications in 76Fxx

Bergé, Pierre (*with* Pomeau, Yves; Vidal, Christian) ★ Порядок в хаосе. (Russian) [Order in chaos] **93e:58123**
(Danilov, Yu. A.) *see* **Bergé, Pierre; et al., 93e:58123**
(Erokhin, N. S.) *see* **Nonlinear dynamics of structures, 93g:76004**
Farge, Marie Wavelet transforms and their applications to turbulence. **93b:76066**
(Frisch, Uriel) *see* **Nonlinear dynamics of structures, 93g:76004**
(Hussain, Fazle) *see* **Nonlinear dynamics of structures, 93g:76004**
(Jiménez, Javier) *see* **Global geometry of turbulence, 93b:76001**
Manneville, Paul From chaos to turbulence in fluid dynamics. (English summary) **93j:76037**
(Moiseev, S. S.) *see* **Nonlinear dynamics of structures, 93g:76004**
Pomeau, Yves *see* **Bergé, Pierre; et al., 93e:58123**
(Ruelle, David) *see* **Bergé, Pierre; et al., 93e:58123**
(Sagdeev, R. Z.) *see* **Nonlinear dynamics of structures, 93g:76004**
Schetz, Joseph A. ★ Boundary layer analysis. **93k:76002**
Vidal, Christian *see* **Bergé, Pierre; et al., 93e:58123**

Items listed otherwise than by author

Global geometry of turbulence ★ The global geometry of turbulence. **93b:76001**
NATO Advanced Research Workshop:
Global Geometry of Turbulence ★ The global geometry of turbulence. **93b:76001**
Nonlinear dynamics of structures ★ Nonlinear dynamics of structures. **93g:76004**
Rota ★ The global geometry of turbulence. **93b:76001**
Symposium:
Generation of Large-scale Structures in Continuous Media ★ Nonlinear dynamics of structures. **93g:76004**
Vladimir Maiakovskiĭ ★ Nonlinear dynamics of structures. **93g:76004**

76F05 Homogeneous isotropic turbulence

Adzhemyan, L. Ts. (*with* Nalimov, M. Yu.) The maximum chaoticity principle in the statistical theory of developed turbulence. I. Homogeneous isotropic turbulence. (Russian. English and Russian summaries) **93e:76037**
Aubry, Nadine (*with* Guyonnet, Régis; Lima, Ricardo) Turbulence spectra. **93f:76052**
Aurell, Erik (*with* Frisch, Uriel; Lutsko, J.; Vergassola, M.) On the multifractal properties of the energy dissipation derived from turbulence data. **93b:76043**
Balk, A. M. (*with* Zakharov, V. E.) Stability of Kolmogorov spectra of weak turbulence. (Russian) **93c:76042**
Bayly, Bruce (*with* Levermore, C. David; Passot, T.) Density variations in weakly compressible flows. **93a:76049**
Bernard, Peter S. *see* **Speziale, Charles G., 93f:76053**
Calzada Canalejo, M. C. (*with* Cruz Soto, J. L.; Marín Beltrán, M.; Fernández Cara, Enrique) Positivity of k and ε in the k-ε turbulence model. (Spanish) (*see* **93j:00009**)
Chacón Rebollo, Tomás (*with* Franco Coronil, D.; Ortegón, F.) An isotropic version of the MPP model of turbulence. (Spanish) (*see* **93j:00009**)
Cruz Soto, J. L. *see* **Calzada Canalejo, M. C.; et al., (93j:00009)**
Druzhinin, O. A. (*with* Khomenko, G. A.; Moiseev, S. S.) Turbulent forcing and large-scale instability of compressible flows. (English summary) (*see* **93g:76004**)
E, Weinan (*with* Shu, Chi-Wang) Effective equations and the inverse cascade theory for Kolmogorov flows. (English summary) **93m:76048**
Eggers, Jens Intermittency in dynamical models of turbulence. (English summary) **93m:76049**
Eyink, Gregory L. Lagrangian field theory, multifractals, and universal scaling in turbulence. (English summary) **93k:76059**
Fernández Cara, Enrique *see* **Calzada Canalejo, M. C.; et al., (93j:00009)**
Franco Coronil, D. *see* **Chacón Rebollo, Tomás; et al., (93j:00009)**
Frisch, Uriel *see* **Aurell, Erik; et al., 93b:76043**
George, William K. The decay of homogeneous isotropic turbulence. **93a:76050**
Germano, M. Turbulence: the filtering approach. **93i:76044**
Ghosh, S. C. (*with* Mazumdar, Himadri Pai) Study of a homogeneous turbulent flow possessing helicity by a correlation method. **93e:76038**
Gotoh, Toshiyuki (*with* Kraichnan, Robert H.) Statistics of decaying Burgers turbulence. (English summary) **93k:76060**
Grebenčv, V. N. Solvability of a problem on the evolution of a turbulent spot in a homogeneous fluid on a small time interval. (Russian) **93b:76044**
— Letter to the editors: "Solvability of a problem on the evolution of a turbulent spot in a homogeneous fluid on a small time interval" [Differentsial'nye Uravneniya **27** (1991), no. 10, 1725–1733, 1836; MR 93b:76044]. (Russian) **93k:76061**
Guyonnet, Régis *see* **Aubry, Nadine; et al., 93f:76052**
Jensen, M. H. (*with* Paladin, Giovanni; Vulpiani, A.) Kolmogorov spectra and intermittency in turbulence. (*see* **93b:76001**)
Khomenko, G. A. *see* **Druzhinin, O. A.; et al., (93g:76004)**
Kraichnan, Robert H. *see* **Gotoh, Toshiyuki, 93k:76060**
Lam, S. H. On the RNG theory of turbulence. **93m:76050**
Lesieur, Marcel *see* **Métais, Olivier, 93e:76039**
Levermore, C. David *see* **Bayly, Bruce; et al., 93a:76049**
Lima, Ricardo *see* **Aubry, Nadine; et al., 93f:76052**
Lutsko, J. *see* **Aurell, Erik; et al., 93b:76043**
L'vov, V. S. Scale invariant theory of fully developed hydrodynamic turbulence—Hamiltonian approach. **93c:76043**
Marín Beltrán, M. *see* **Calzada Canalejo, M. C.; et al., (93j:00009)**
Mazumdar, Himadri Pai *see* **Ghosh, S. C., 93e:76038**
Meneveau, Charles *see* **O'Neil, John, 93i:76045**
Métais, Olivier (*with* Lesieur, Marcel) Spectral large-eddy simulation of isotropic and stably stratified turbulence. **93e:76039**
Moiseev, S. S. *see* **Druzhinin, O. A.; et al., (93g:76004)**
Nalimov, M. Yu. *see* **Adzhemyan, L. Ts., 93e:76037**
Novozhilov, Valentin Valentinovich (*with* Pavlovskiĭ, V. A.) State of and potential for the application of the von Kármán theory to the description of turbulent flows. **93b:76045**
O'Neil, John (*with* Meneveau, Charles) Spatial correlations in turbulence: predictions from the multifractal formalism and comparison with experiments. (English summary) **93i:76045**
Ortegón, F. *see* **Chacón Rebollo, Tomás; et al., (93j:00009)**
Paladin, Giovanni *see* **Jensen, M. H.; et al., (93b:76001)**
Passot, T. *see* **Bayly, Bruce; et al., 93a:76049**
Pavlovskiĭ, V. A. *see* **Novozhilov, Valentin Valentinovich, 93b:76045**
Shivamoggi, Bhimsen K. Spectral laws for the compressible isotropic turbulence. (English summary) (*see* **93j:76004**)
Shu, Chi-Wang *see* **E, Weinan, 93m:76048**
Speziale, Charles G. (*with* Thangam, S.) Analysis of an RNG based turbulence model for separated flows. (English summary) **93g:76065**
— (*with* Bernard, Peter S.) The energy decay in self-preserving isotropic turbulence revisited. (English summary) **93f:76053**
Thangam, S. *see* **Speziale, Charles G., 93g:76065**
Vergassola, M. *see* **Aurell, Erik; et al., 93b:76043**
Vulpiani, A. *see* **Jensen, M. H.; et al., (93b:76001)**
Waleffe, Fabian The nature of triad interactions in homogeneous turbulence. **93a:76051**
Yakhot, Victor $\frac{4}{5}$ Kolmogorov law for statistically stationary turbulence: application to high-Rayleigh-number Bénard convection. **93c:76044**
Zakharov, V. E. *see* **Balk, A. M., 93c:76042**

Items with secondary classifications in 76F05

Frenkel, Alexander L. *see* **Sivashinsky, Gregory I., 93d:76021**
Holley, Richard (*with* Waymire, Edward C.) Multifractal dimensions and scaling exponents for strongly bounded random cascades. (English summary) **93k:60122**
Sivashinsky, Gregory I. (*with* Frenkel, Alexander L.) On negative eddy viscosity under conditions of isotropy. **93d:76021**
Waymire, Edward C. *see* **Holley, Richard, 93k:60122**

76F10 Shear flows

Avellaneda, Marco (*with* Majda, Andrew J.) Mathematical models with exact renormalization for turbulent transport. II. Fractal interfaces, non-Gaussian statistics and the sweeping effect. **93g:76066**
— (*with* Majda, Andrew J.) Approximate and exact renormalization theories for a model for turbulent transport. **93g:76067**
Bogdanov, S. R. Closure of turbulence equations as a problem of analytic and scaling properties of spectral functions. (Russian) **93a:76052**
Brevdo, Leonid Three-dimensional absolute and convective instabilities, and spatially amplifying waves in parallel shear flows. **93a:76053**
Gatski, T. B. *see* **Yakhot, Victor; et al., 93e:76041**
Glimm, James *see* **Zhang, Qiang, 93g:76068**
Goncharov, A. M. (*with* Kud'yavin, V. S.) Generation of nonlinear internal waves under mixed region collapse in a stratified fluid. (Russian. Russian summary) (*see* **93m:00019**)
Kud'yavin, V. S. *see* **Goncharov, A. M., (93m:00019)**
Lele, Sanjiva K. Vorticity form of turbulence transport equations. **93c:76045**
Majda, Andrew J. *see* **Avellaneda, Marco, 93g:76066** *and* **93g:76067**
Orszag, Steven A. *see* **Yakhot, Victor; et al., 93e:76041**
Riedel, K. S. Quasilinear driven transport in a sheared flow field. **93e:76040**
Speziale, Charles G. *see* **Yakhot, Victor; et al., 93e:76041**
Thangam, S. *see* **Yakhot, Victor; et al., 93e:76041**
Yakhot, Victor (*with* Orszag, Steven A.; Thangam, S.; Gatski, T. B.; Speziale, Charles G.) Development of turbulence models for shear flows by a double expansion technique. **93e:76041**
Zhang, Qiang (*with* Glimm, James) Inertial range scaling of laminar shear flow as a model of turbulent transport. **93g:76068**

Items with secondary classifications in 76F10

Abramyan, L. A. (*with* Stepan'yants, Yu. A.; Shrira, V. I.) Non-one-dimensional solitons in shear flows of boundary layer type. (Russian)
Avellaneda, Marco (*with* Majda, Andrew J.) Homogenization and renormalization of multiple-scattering expansions for Green functions in turbulent transport. **93e:76042**
Ghoniem, Ahmed F. *see* **Knio, Omar M., 93g:76030**
Karniadakis, George Em. *see* **Tomboulides, A. G.; et al., 93c:76031**
Knio, Omar M. (*with* Ghoniem, Ahmed F.) The three-dimensional structure of periodic vorticity layers under nonsymmetric conditions. (English summary) **93g:76030**
Majda, Andrew J. *see* **Avellaneda, Marco, 93e:76042**
Massaguer, Josep M. Shear type instabilities in the Bénard problem. **93g:76057**
Neish, A. (*with* Smith, F. T.) On turbulent separation in the flow past a bluff body. (English summary) **93f:76033**
Shrira, V. I. *see* **Abramyan, L. A.; et al.**
Smith, F. T. *see* **Neish, A., 93f:76033**
Stepan'yants, Yu. A. *see* **Abramyan, L. A.; et al.**
Tomboulides, A. G. (*with* Triantafyllou, G. S.; Karniadakis, George Em.) A new mechanism of period doubling in free shear flows. **93c:76031**
Triantafyllou, G. S. *see* **Tomboulides, A. G.; et al., 93c:76031**

76F20 Turbulence via chaos techniques

Antonsen, Thomas M., Jr. *see* **Varosi, Frank; et al., 93k:76065**

Aref, Hassan Stochastic particle motion in laminar flows. (English summary) **93k:76062**

Beigie, Darin (*with* Leonard, Anthony; Wiggins, Stephen) A global study of enhanced stretching and diffusion in chaotic tangles. (English summary) **93k:76063**

Bell, M. J. *see* **Read, P. L.; et al., 93c:76047**

Berkooz, Gal (*with* Holmes, Philip J.; Lumley, John L.) Control of the turbulent boundary layer and dynamical systems theory: an update. (*see* **93b:76001**)

— (*with* Holmes, Philip J.; Lumley, John L.) Intermittent dynamics in simple models of the turbulent wall layer. **93f:76054**

— *see also* **Holmes, Philip J.; et al., 93c:76046**

Bershadskii, A. G. Cascade processes and fractals in turbulence. (Russian) **93b:76046**

Broze, George (*with* Hussain, Fazle) Spatiotemporal dynamics in transitional jet flow. (English summary) (*see* **93g:76004**)

Chaté, Hugues (*with* Manneville, Paul) Transition to turbulence via spatiotemporal intermittency: modeling and critical properties. **93f:76055**

Chernikov, Aleksandr Antonovich (*with* Neishtadt, A. I.; Rogal'skiĭ, A. V.; Yakhnin, V. Z.) Adiabatic chaotic advection in nonstationary 2D flows. (English summary) **93h:76041**

— (*with* Neishtadt, A. I.; Rogal'skiĭ, A. V.; Yakhnin, V. Z.) Lagrangian turbulence in nonstationary 2-D flows. **93f:76056**

Crisanti, A. (*with* Falcioni, M.; Provenzale, A.; Vulpiani, A.) Motion of passively advected impurities in two-dimensional flows: chaos, structures and diffusion. (English summary) **93h:76042**

— (*with* Falcioni, M.; Vulpiani, A.; Paladin, Giovanni) Lagrangian chaos: transport, mixing and diffusion in fluids. **93d:76029**

Dolzhanskii, F. V. (*with* Krymov, V. A.; Manin, D. Yu.) Quasi two-dimensional coherent structures. (English summary) (*see* **93g:76004**)

El Naschie, M. S. (*with* Elnashaie, S. S. E. H.) On the connection between fluid and elastostatical turbulence in Hamiltonian and flutter sets. (English summary)

Elnashaie, S. S. E. H. *see* **El Naschie, M. S.**

Ershov, S. V. (*with* Potapov, A. B.) The nature of nonchaotic turbulence. (Russian. English summary) **93a:76054**

— (*with* Potapov, A. B.) Macrodynamics: large-scale structures in turbulent media. (English summary) **93j:76036**

Falcioni, M. *see* **Crisanti, A.; et al., 93d:76029** *and* **93h:76042**

Holmes, Philip J. (*with* Berkooz, Gal; Lumley, John L.) Turbulence, dynamical systems and the unreasonable effectiveness of empirical eigenfunctions. **93c:76046**

— *see also* **Berkooz, Gal; et al., 93f:76054** *and* (**93b:76001**)

(Honda, Katsuya) *see* **Meneveau, Charles, 93d:76031**

Huang, Ke Lei *see* **Zhao, Xiao Hua; et al., 93j:76039**

Hussain, Fazle *see* **Broze, George, (93g:76004)**

Ishii, Katsuya (*with* Iwatsu, R.; Kambe, Tsutomu; Matsumoto, N.) Chaotic streamlines in viscous incompressible flows. (*see* **93b:00012**)

Iwatsu, R. *see* **Ishii, Katsuya; et al., (93b:00012)**

Johnson, D. W. *see* **Read, P. L.; et al., 93c:76047**

Kambe, Tsutomu *see* **Ishii, Katsuya; et al., (93b:00012)**

Keefe, Laurence R. (*with* Moin, Parviz; Kim, Jeongbin John) The dimension of attractors underlying periodic turbulent Poiseuille flow. (English summary) **93f:76057**

Kim, Jeongbin John *see* **Keefe, Laurence R.; et al., 93f:76057**

Krymov, V. A. *see* **Dolzhanskii, F. V.; et al., (93g:76004)**

Kwek, Keng Huat *see* **Zhao, Xiao Hua; et al., 93j:76039**

Lavallée, D. *see* **Schertzer, D.; et al., 93j:76038**

Leonard, Anthony *see* **Beigie, Darin; et al., 93k:76063**

Li, Ji Bin *see* **Zhao, Xiao Hua; et al., 93j:76039**

Ling, Fu Hua (*with* Schmidt, George) Mixing windows in discontinuous cavity flows. **93d:76030**

Lovejoy, S. *see* **Schertzer, D.; et al., 93j:76038**

Lumley, John L. *see* **Holmes, Philip J.; et al., 93c:76046**; **Berkooz, Gal; et al., 93f:76054** *and* (**93b:76001**)

Manin, D. Yu. *see* **Dolzhanskii, F. V.; et al., (93g:76004)**

Manneville, Paul From chaos to turbulence in fluid dynamics. (English summary) **93j:76037**

— *see also* **Chaté, Hugues, 93f:76055**

Matsumoto, N. *see* **Ishii, Katsuya; et al., (93b:00012)**

McWilliams, James C. *see* **Weiss, Jeffrey B., 93k:76066**

Meneveau, Charles Comment on: "Is intermittent motion of outer flow in the turbulent boundary layer deterministic chaos?" [Phys. Fluids A **3** (1991), no. 8, 1941–1946; MR 92c:76036] by Y. Tsuji, K. Honda, I. Nakamura and S. Sato. **93d:76031**

— *see also* **Muzzio, F. J.; et al., 93a:76055**

Moin, Parviz *see* **Keefe, Laurence R.; et al., 93f:76057**

Muzzio, F. J. (*with* Swanson, P. D.; Ottino, J. M.) The statistics of stretching and stirring in chaotic flows. (English summary)

— (*with* Meneveau, Charles; Swanson, P. D.; Ottino, J. M.) Scaling and multifractal properties of mixing in chaotic flows. **93a:76055**

(Nakamura, Ikuo) *see* **Meneveau, Charles, 93d:76031**

Neishtadt, A. I. *see* **Chernikov, Aleksandr Antonovich; et al., 93f:76056** *and* **93h:76041**

Nicolaenko, Basil (*with* She, Zhen Su) Symmetry-breaking homoclinic chaos in Kolmogorov flows. (*see* **93b:00012**)

Ott, Edward *see* **Varosi, Frank; et al., 93k:76065**

Ottino, J. M. Unity and diversity in mixing: stretching, diffusion, breakup, and aggregation in chaotic flows. (English summary) **93k:76064**

— *see also* **Muzzio, F. J.; et al., 93a:76055**

Paladin, Giovanni *see* **Crisanti, A.; et al., 93d:76029**

Potapov, A. B. *see* **Ershov, S. V., 93a:76054** *and* **93j:76036**

Provenzale, A. *see* **Crisanti, A.; et al., 93h:76042**

Pulliam, Thomas H. (*with* Vastano, John A.) Transition to chaos in an open unforced 2D flow. (English summary) **93m:76051**

Rabinovich, M. I. Nonlinear dynamics and turbulence. (Russian) (*see* **92d:00031**)

Read, P. L. (*with* Bell, M. J.; Johnson, D. W.; Small, R. M.) Quasi-periodic and chaotic flow regimes in a thermally driven, rotating fluid annulus. **93c:76047**

Rogal'skiĭ, A. V. *see* **Chernikov, Aleksandr Antonovich; et al., 93f:76056** *and* **93h:76041**

Romanenko, E. Yu. *see* **Sharkovskiĭ, A. N., 93a:76056**

(Sato, Shinichi[1]) *see* **Meneveau, Charles, 93d:76031**

Schertzer, D. (*with* Lovejoy, S.; Lavallée, D.; Schmitt, F.) Universal hard multifractal turbulence: theory and observations. (English summary) **93j:76038**

Schmidt, George *see* **Ling, Fu Hua, 93d:76030**

Schmitt, F. *see* **Schertzer, D.; et al., 93j:76038**

Sharkovskiĭ, A. N. (*with* Romanenko, E. Yu.) Ideal turbulence: attractors of deterministic systems may lie in the space of random fields. **93a:76056**

She, Zhen Su *see* **Nicolaenko, Basil, (93b:00012)**

Sirovich, L. *see* **Zhou, Xiang, 93j:76040**

Small, R. M. *see* **Read, P. L.; et al., 93c:76047**

Swanson, P. D. *see* **Muzzio, F. J.; et al., 93a:76055**

(Tsuji, Yoshiyuki) *see* **Meneveau, Charles, 93d:76031**

Varosi, Frank (*with* Antonsen, Thomas M., Jr.; Ott, Edward) The spectrum of fractal dimensions of passively convected scalar gradients in chaotic fluid flows. (English summary) **93k:76065**

Vastano, John A. *see* **Pulliam, Thomas H., 93m:76051**

Vulpiani, A. *see* **Crisanti, A.; et al., 93d:76029** *and* **93h:76042**

Weiss, Jeffrey B. (*with* McWilliams, James C.) Nonergodicity of point vortices. (English summary) **93k:76066**

Wiggins, Stephen *see* **Beigie, Darin; et al., 93k:76063**

Yakhnin, V. Z. *see* **Chernikov, Aleksandr Antonovich; et al., 93f:76056** *and* **93h:76041**

Zhao, Xiao Hua (*with* Kwek, Keng Huat; Li, Ji Bin; Huang, Ke Lei) Chaotic and resonant streamlines in the ABC flow. (English summary) **93j:76039**

Zhou, Xiang (*with* Sirovich, L.) Coherence and chaos in a model of turbulent boundary layer. (English summary) **93j:76040**

Items with secondary classifications in 76F20

(Acrivos, Andreas) *see* **Symposium: Fluid Mechanics of Stirring and Mixing, 93j:76006**

Afendikov, A. L. (*with* Varin, V. P.) An analysis of periodic flows in the vicinity of the plane Poiseuille flow. **93a:76038**

Bohr, Tomas Turbulent coupled map lattices. **93f:58146**

Bourzutschky, M. S. (*with* Cross, M. C.) Coupled map models for chaos in extended systems. **93c:58131**

Brown, Ray (*with* Chua, Leon O.) Chaos or turbulence? (English summary) **93m:58106**

Chen, Qi Keith *see* **Yu, Lei; et al., 93g:58101**

Chernikov, Aleksandr Antonovich (*with* Schmidt, George) Chaotic streamlines in convective cells. (English summary) **93f:76042**

— *see also* **Zaslavskiĭ, G. M.; et al., 93a:58127a** *and* **93a:58127b**

Choi, D.-I. *see* **Isichenko, M. B.; et al., 93h:76082**

Chua, Leon O. *see* **Brown, Ray, 93m:58106**

Collet, P. Fast dynamo for some Anosov flows. (*see* **93b:00027**)

Cross, M. C. *see* **Bourzutschky, M. S., 93c:58131**

Dresselhaus, Eliot (*with* Tabor, M.) The kinematics of stretching and alignment of material elements in general flow fields. **93a:76036**

Ecke, Robert E. Quasiperiodicity, mode-locking, and universal scaling in Rayleigh-Bénard convection. (English summary) **93k:76043**

Eckelmann, Helmut *see* **Noack, Bernd R., 93b:76027**

Eyink, Gregory L. Lagrangian field theory, multifractals, and universal scaling in turbulence. (English summary) **93k:76059**

Friedlander, Susan (*with* Vishik, M. M.) Instability criteria for steady flows of a perfect fluid. (English summary) **93j:76034**

Funakoshi, Mitsuaki (*with* Inoue, Susumu) Bifurcations and chaos in resonantly forced water waves. (English summary) (*see* **93f:00015**)

Grebenčv, V. N. On a dynamical system that arises in the problem of the spreading of a turbulent layer of a homogeneous fluid. (Russian) **93d:35127**

(Grishanin, B. A.) *see* **Neimark, Yu. I., 93d:58103**

Heo, E. G. *see* **Isichenko, M. B.; et al., 93h:76082**

Hill, Andrew (*with* Stewart, Ian N.) 3-mode interactions with O(2) symmetry and a model for Taylor-Couette flow. **93d:58111**

Holm, Darryl D. (*with* Kimura, Yoshifumi) Zero-helicity Lagrangian kinematics of three-dimensional advection. (English summary) **93k:76095**

Horton, Claude Wendell, Jr. *see* **Isichenko, M. B.; et al., 93h:76082**

Horwitz, J. (*with* Rosenblat, S.) Nonlinear stability of a viscous axisymmetric jet. (English summary) **93f:76047**

Inoue, Susumu *see* **Funakoshi, Mitsuaki, (93f:00015)**

Isichenko, M. B. (*with* Horton, Claude Wendell, Jr.; Kim, D. E.; Heo, E. G.; Choi, D.-I.) Stochastic diffusion and Kolmogorov entropy in regular and random Hamiltonians. (English summary) **93h:76082**

Jensen, M. H. (*with* Paladin, Giovanni; Vulpiani, A.) Kolmogorov spectra and intermittency in turbulence. (*see* **93b:76001**)

Kamanaka, Y. *see* **Kambe, Tsutomu, 93h:76018**

Kambe, Tsutomu (*with* Kamanaka, Y.) Nonlinear dynamics of two-dimensional flows: bifurcation, chaos and turbulence. (English summary) **93h:76018**

Kaneko, Kunihiko Simulating physics with coupled map lattices—pattern dynamics, information flow, and thermodynamics of spatiotemporal chaos. **93a:58155**

Keefe, Laurence R. Two nonlinear control schemes contrasted on a hydrodynamiclike model. (English summary) **93k:76096**

Kim, D. E. *see* **Isichenko, M. B.; et al., 93h:76082**

Kimura, Yoshifumi *see* **Holm, Darryl D., 93k:76095**

King, G. P. (*with* Stewart, Ian N.) Symmetric chaos. **93c:58138**

Klapper, I. A study of fast dynamo action in chaotic helical cells. **93c:76085**

Knobloch, Edgar (*with* Proctor, M. R. E.; Weiss, N. O.) Heteroclinic bifurcations in a simple model of double-diffusive convection. **93c:76034**

Kostelich, Eric J. Problems in estimating dynamics from data. (English summary) **93i:58140**

Krasnopol'skaya, T. S. (*with* Shvets, A. Yu.) Properties of chaotic oscillations of a fluid in cylindrical tanks. (Russian. English and Ukrainian summaries) **93f:76010**

Landa, P. S. *see* **Neĭmark, Yu. I., 93d:58103**
Lee, Jon[1] Topology of trajectories of the 2D Navier-Stokes equations. (English summary) **93k:76028**
MacKay, Robert S. An appraisal of the Ruelle-Takens route to turbulence. **93h:58101**
Meneveau, Charles *see* **O'Neil, John, 93i:76045**
Moiseev, S. S. Structures and intermittent chaos in random media. (English summary) (*see* **93g:76004**)
Muzzio, F. J. (*with* Swanson, P. D.; Ottino, J. M.) Mixing distributions produced by multiplicative stretching in chaotic flows. **93b:58105**
Neĭmark, Yu. I. (*with* Landa, P. S.) ★ Stochastic and chaotic oscillations. **93d:58103**
Noack, Bernd R. (*with* Eckelmann, Helmut) On chaos in wakes. **93b:76027**
O'Neil, John (*with* Meneveau, Charles) Spatial correlations in turbulence: predictions from the multifractal formalism and comparison with experiments. (English summary) **93i:76045**
Ott, Edward *see* **Yu, Lei; et al., 93g:58101**
Ottino, J. M. *see* **Muzzio, F. J.; et al., 93b:58105**
Paladin, Giovanni *see* **Jensen, M. H.; et al., (93b:76001)**
Peckham, Scott (*with* Waymire, Edward C.) On a symmetry of turbulence. **93c:76053**
(Pérez-García, Carlos) *see* **New trends in nonlinear dynamics: nonvariational aspects, 93i:00022**
Pomeau, Yves Bifurcations and subcritical instabilities. **93e:76034**
Proctor, M. R. E. *see* **Knobloch, Edgar; et al., 93c:76034**
Riedel, K. S. Quasilinear driven transport in a sheared flow field. **93e:76040**
Robinson, P. A. Driven random-phase three-wave interactions: cycles, bursts, and stochasticity. (English summary) **93i:58141**
Rosenblat, S. *see* **Horwitz, J., 93f:76047**
Rucklidge, A. M. Chaos in a low-order model of magnetoconvection. (English summary) **93k:76125**
Sagdeev, R. Z. *see* **Zaslavskiĭ, G. M.; et al., 93a:58127a** *and* **93a:58127b**
(Sagdeeva, A. R.) *see* **Zaslavskiĭ, G. M.; et al., 93a:58127b**
Schmidt, George *see* **Chernikov, Aleksandr Antonovich, 93f:76042**
Şefik, Bedri Coherent structures in nonlinear dynamical systems. Method of the random point functions. (English summary) **93m:35193**
Shvets, A. Yu. *see* **Krasnopol'skaya, T. S., 93f:76010**
Stewart, Ian N. *see* **King, G. P., 93c:58138** *and* **Hill, Andrew, 93d:58111**
Şuhubi, Erdoğan S. *see* **Ünal, G., 93c:76028**
Swanson, P. D. *see* **Muzzio, F. J.; et al., 93b:58105**
Tabor, M. *see* **Dresselhaus, Eliot, 93a:76036**
Thess, André Instabilities in two-dimensional spatially periodic flows. II. Square eddy lattice. **93d:76028**
Umeki, Makoto Lagrangian motion of fluid particles induced by three-dimensional standing surface waves. (English summary) **93f:76017**
Ünal, G. (*with* Şuhubi, Erdoğan S.) Travelling waves and chaos in the Kolmogorov-Spiegel-Sivashinsky model. **93c:76028**
Usikov, D. A. *see* **Zaslavskiĭ, G. M.; et al., 93a:58127a** *and* **93a:58127b**
Varin, V. P. *see* **Afendikov, A. L., 93a:76038**
Vishik, M. M. *see* **Friedlander, Susan, 93j:76034**
Vulpiani, A. *see* **Jensen, M. H.; et al., (93b:76001)**
Waymire, Edward C. *see* **Peckham, Scott, 93c:76053**
Weiss, N. O. *see* **Knobloch, Edgar; et al., 93c:76034**
Wiggins, Stephen ★ Chaotic transport in dynamical systems. **93c:58152**
Yu, Lei (*with* Ott, Edward; Chen, Qi Keith) Fractal distribution of floaters on a fluid surface and the transition to chaos for random maps. **93g:58101**
Zadorozhnyi, V. F. Finite-dimensional dynamical systems in turbulence theory. (Russian) **93m:35150**
Zaslavskiĭ, G. M. (*with* Sagdeev, R. Z.; Usikov, D. A.; Chernikov, Aleksandr Antonovich) ★ Слабый хаос и квазирегулярные структуры. (Russian) [Weak chaos and quasiregular patterns] **93a:58127a**
— (*with* Sagdeev, R. Z.; Usikov, D. A.; Chernikov, Aleksandr Antonovich) ★ Weak chaos and quasi-regular patterns. **93a:58127b**
Zeytounian, Radyadour Kh. ★ Mécanique des fluides fondamentale. (English. French summary) [Fundamental fluid mechanics] **93h:76001**

Items listed otherwise than by author

Estella ★ New trends in nonlinear dynamics: nonvariational aspects. **93i:00022**
La Jolla, CA ★ Symposium on Fluid Mechanics of Stirring and Mixing. **93j:76006**
NATO Advanced Research Workshop:
New Trends in Nonlinear Dynamics: Nonvariational Aspects ★ New trends in nonlinear dynamics: nonvariational aspects. **93i:00022**
New trends in nonlinear dynamics: nonvariational aspects ★ New trends in nonlinear dynamics: nonvariational aspects. **93i:00022**
Symposium:
Fluid Mechanics of Stirring and Mixing ★ Symposium on Fluid Mechanics of Stirring and Mixing. **93j:76006**

76F99 None of the above, but in this section

Armbruster, Dieter (*with* Heiland, Randy; Kostelich, Eric J.; Nicolaenko, Basil) Phase-space analysis of bursting behavior in Kolmogorov flow. (English summary) **93i:76046**
Arnal, Didier Transition description and prediction. **93g:76069**
Avellaneda, Marco (*with* Majda, Andrew J.) Homogenization and renormalization of multiple-scattering expansions for Green functions in turbulent transport. **93e:76042**
— (*with* Majda, Andrew J.) An integral representation and bounds on the effective diffusivity in passive advection by laminar and turbulent flows. **93e:76043**
Barts, B. I. (*with* Moiseev, S. S.) The wave-turbulent dynamo. (Russian) (*see* **92d:00031**)
Bell, John B. (*with* Marcus, Daniel L.) Vorticity intensification and transition to turbulence in the three-dimensional Euler equations. **93c:76048**
Bershadskii, A. G. Inverse cascade in fractal turbulence (vortex-fractons). (English summary) **93g:76070**
Black, D. W. *see* **Rothmayer, A. P., 93i:76047**
Buttke, Thomas F. Turbulence and vortices in superfluid helium. (*see* **93f:76078**)
Camargo, S. J. (*with* Tasso, H.) Renormalization group in magnetohydrodynamic turbulence. **93b:76047**
Cantwell, Brian J. Exact solution of a restricted Euler equation for the velocity gradient tensor. **93a:76057**
Carnevale, G. F. (*with* McWilliams, James C.; Pomeau, Yves; Weiss, Jeffrey B.; Young, W. R.) Rates, pathways, and end states of nonlinear evolution in decaying two-dimensional turbulence: scaling theory versus selective decay. **93a:76058**
Chorin, Alexandre Joel Vortices, turbulence, and statistical mechanics. (*see* **93f:76078**)
— Equilibrium statistics of a vortex filament with applications. **93j:76041**
Dolzhanskiĭ, F. V. (*with* Manin, D. Yu.) The effect of the Ekman turbulent layer on the dynamics of large-scale motions. (Russian) **93c:76049**
Dritschel, David G. Vortex properties of two-dimensional turbulence. (English summary) **93k:76067**
Druzhinin, O. A. (*with* Khomenko, G. A.) Nonlinear hydrodynamic alpha-effect and inverse energy cascade in turbulence of compressible fluid. (*see* **93b:00012**)
Dupree, Thomas H. Coarse-grain entropy in two-dimensional turbulence. (English summary) **93f:76058**
Dyachenko, S. (*with* Newell, Alan C.; Pushkarev, A.; Zakharov, V. E.) Optical turbulence: weak turbulence, condensates and collapsing filaments in the nonlinear Schrödinger equation. **93c:76050**
El Naschie, M. S. Physics-like mathematics in four dimensions—implications for classical and quantum mechanics. (English summary) (*see* **93j:00008**)
Fal'kovich, G. E. *see* **L'vov, V. S., 93c:76052**
Foias, Ciprian (*with* Manley, Oscar P.; Temam, Roger) Approximate inertial manifolds and effective viscosity in turbulent flows. (English summary) **93m:76052**
Freed, Nathan (*with* Ofer, Dror; Shvarts, Dov; Orszag, Steven A.) Two-phase flow analysis of self-similar turbulent mixing by Rayleigh-Taylor instability. (English summary)
Gibbon, J. D. Weak and strong turbulence in a class of complex Ginzburg-Landau equations. **93g:76071**
Heiland, Randy *see* **Armbruster, Dieter; et al., 93i:76046**
Henningson, Dan S. *see* **Schmid, Peter J., 93f:76059**
Icha, Andrzej Solution of a turbulent heat conductivity equation in the Oseen's approximation. **93e:76044**
Khomenko, G. A. *see* **Moiseev, S. S.; et al., 93d:76032** *and* **Druzhinin, O. A., (93b:00012)**
Kida, Shigeo (*with* Orszag, Steven A.) Energy and spectral dynamics in decaying compressible turbulence. **93c:76051**
Kostelich, Eric J. *see* **Armbruster, Dieter; et al., 93i:76046**
Liu, Shi Da (*with* Liu, Shi Kuo) KdV-Burgers equation modelling of turbulence. (English summary) **93g:76072**
Liu, Shi Kuo *see* **Liu, Shi Da, 93g:76072**
L'vov, V. S. Influence of external scale upon statistical properties of developed hydrodynamic turbulence. (*see* **93b:00012**)
— (*with* Fal'kovich, G. E.) Conservation laws and two-flux spectra of hydrodynamic convective turbulence. **93c:76052**
Majda, Andrew J. *see* **Avellaneda, Marco, 93e:76042** *and* **93e:76043**
Manin, D. Yu. *see* **Dolzhanskiĭ, F. V., 93c:76049**
Manley, Oscar P. *see* **Foias, Ciprian; et al., 93m:76052**
Marcus, Daniel L. *see* **Bell, John B., 93c:76048**
Mattor, N. *see* **Terry, P. W.; et al., 93a:76059**
McWilliams, James C. *see* **Carnevale, G. F.; et al., 93a:76058**
Moiseev, S. S. (*with* Oganyan, K. R.; Rutkevich, P. B.; Tur, A. V.; Khomenko, G. A.; Yanovskiĭ, V. V.) A vortex dynamo in helical turbulence. (Russian) **93d:76032**
— *see also* **Barts, B. I., (92d:00031)**
Newell, Alan C. *see* **Dyachenko, S.; et al., 93c:76050**
Newman, D. E. *see* **Terry, P. W.; et al., 93a:76059**
Nicolaenko, Basil *see* **Armbruster, Dieter; et al., 93i:76046**
Ofer, Dror *see* **Freed, Nathan; et al.**
Oganyan, K. R. *see* **Moiseev, S. S.; et al., 93d:76032**
Olla, Piero Renormalization-group analysis of two-dimensional incompressible turbulence. **93d:76033**
Orszag, Steven A. *see* **Kida, Shigeo, 93c:76051** *and* **Freed, Nathan; et al.**
Peckham, Scott (*with* Waymire, Edward C.) On a symmetry of turbulence. **93c:76053**
Pomeau, Yves Asymptotic time behaviour of nonlinear classical field equations. **93b:76048**
— *see also* **Carnevale, G. F.; et al., 93a:76058**
Pulvirenti, Mario On the 2-D turbulence. (*see* **93g:81002**)
Pushkarev, A. *see* **Dyachenko, S.; et al., 93c:76050**
Rica, Sergio (*with* Tirapegui, Enrique) Dynamics of spirals defects in two-dimensional extended systems. (English summary) **93e:76045**
Robert, Raoul (*with* Sommeria, J.) Statistical equilibrium states for two-dimensional flows. **93d:76034**
— A maximum-entropy principle for two-dimensional perfect fluid dynamics. **93b:76049**
Rothmayer, A. P. (*with* Black, D. W.) On the temporal evolution of finite ensembles. (English summary) **93i:76047**
Rutkevich, P. B. *see* **Moiseev, S. S.; et al., 93d:76032**
Ryrie, Susan C. Mixing by chaotic advection in a class of spatially periodic flows. **93b:76050**
Sarkar, Sutanu *see* **Shivamoggi, Bhimsen K., (93j:76004)**
Schmid, Peter J. (*with* Henningson, Dan S.) A new mechanism for rapid transition involving a pair of oblique waves. (English summary) **93f:76059**
Shivamoggi, Bhimsen K. (*with* Sarkar, Sutanu) Nonlinear wave interactions in compressible turbulence. (English summary) (*see* **93j:76004**)
Shvarts, Dov *see* **Freed, Nathan; et al.**
Smith, Leslie M. *see* **Yakhot, Victor, 93c:76054**
Sommeria, J. *see* **Robert, Raoul, 93d:76034**
Tasso, H. *see* **Camargo, S. J., 93b:76047**
Temam, Roger *see* **Foias, Ciprian; et al., 93m:76052**
Terry, P. W. (*with* Newman, D. E.; Mattor, N.) Coherence of intense localized vorticity in decaying two-dimensional Navier-Stokes turbulence. **93a:76059**
Tirapegui, Enrique *see* **Rica, Sergio, 93e:76045**

Trofimov, V. M. On a phenomenological vortex model of turbulence. (Russian. Russian summary)
Troshkin, O. V. Waves in turbulent media. (English summary) **93k:76068**
Tsinober, A. How solenoidal can be the Lamb vector in turbulent flow? Consequences and implications. **93a:76060**
Tur, A. V. *see* **Moiseev, S. S.; et al., 93d:76032**
Waymire, Edward C. *see* **Peckham, Scott, 93c:76053**
Weiss, Jeffrey B. *see* **Carnevale, G. F.; et al., 93a:76058**
Yakhot, Victor (*with* Smith, Leslie M.) The renormalization group, the ε-expansion and derivation of turbulence models. **93c:76054**
Yanovskiĭ, V. V. *see* **Moiseev, S. S.; et al., 93d:76032**
Yokoi, Nobumitsu (*with* Yoshizawa, Akira) Statistical analysis of the effects of helicity in inhomogeneous turbulence. (English summary) **93k:76069**
Yoshizawa, Akira *see* **Yokoi, Nobumitsu, 93k:76069**
Young, W. R. *see* **Carnevale, G. F.; et al., 93a:76058**
Zakharov, V. E. *see* **Dyachenko, S.; et al., 93c:76050**
Zimin, V. D. Hierarchical models of turbulence. (English summary) (*see* **93g:76004**)

Items with secondary classifications in 76F99

Alujević, A. *see* **Rek, Z.; et al., (93i:76003)**
Aubry, Nadine (*with* Guyonnet, Régis; Lima, Ricardo) Turbulence spectra. **93f:76052**
Avellaneda, Marco (*with* Majda, Andrew J.) Superdiffusion in nearly stratified flows. (English summary) **93j:82068**
Bayly, Bruce *see* **Gilbert, Andrew D., 93f:76101**
Benim, A. C. Finite-element analysis of enclosed turbulent diffusion flames. (*see* **93e:76050**)
Bobisud, L. E. Steady-state turbulent flow with reaction. **93a:34026**
Borghi, R. Turbulent combustion modelling: an overview of current methods related to the structure of nonpremixed flames. **93i:80003**
Bray, K. N. C. (*with* Libby, Paul A.) Premixed turbulent combustion. **93i:80004**
Brown, G. L. (*with* Lopez, Juan Manuel) Axisymmetric vortex breakdown. II. Physical mechanisms. **93c:76041b**
Caglioti, E. (*with* Lions, Pierre-Louis; Marchioro, Carlo; Pulvirenti, Mario) A special class of stationary flows for two-dimensional Euler equations: a statistical mechanics description. **93i:82060**
Chabard, J.-P. (*with* Métivet, Brigitte; Pot, G.; Thomas, B.) An efficient finite-element method for the computation of three-dimensional turbulent incompressible flows. **93k:76076**
Chae, Dongho On the ensemble average in the study of approximate inertial manifolds. **93c:35126a**
— On the ensemble average in the study of approximate inertial manifolds. II. **93c:35126b**
Chung, T. J. *see* **Kim, Y. M., (93e:76050)**
Clavin, P. Turbulent flame propagation. **93j:80005**
Dahlburg, R. B. (*with* Picone, J. M.) Pseudospectral simulation of compressible magnetohydrodynamic turbulence. (English summary) (*see* **93d:65005**)
Degani, A. T. (*with* Smith, F. T.; Walker, J. D. A.) The structure of a three-dimensional turbulent boundary layer. (English summary) **93m:76027**
Doorly, D. J. (*with* Smith, F. T.) Initial value problems for spot disturbances in incompressible or compressible boundary layers. **93a:76031**
Gilbert, Andrew D. (*with* Bayly, Bruce) Magnetic field intermittency and fast dynamo action in random helical flows. (English summary) **93f:76101**
Givi, Peyman *see* **McMurtry, Patrick A., (93e:76050)**
Goldhirsch, Isaac *see* **Sela, Nathan, 93f:76020**
Grebenëv, V. N. Diffusion of a turbulent spot in a problem with singularly perturbed initial turbulence energy. (Russian. Russian summary) **93k:35214**
Greenblatt, David Computing the combined effect of wake-passing and free-stream turbulence on gas turbine blade boundary layers. (English summary) **93h:80002**
Guyonnet, Régis *see* **Aubry, Nadine; et al., 93f:76052**
Hämäläinen, Jari ★ Mathematical modelling and simulation of fluid flows in the headbox of paper machines.
van Harten, Aart On the validity of the Ginzburg-Landau equation. **93b:76038**
Helland, K. (*with* Lii, Keh-Shin; Rosenblatt, Murray) Monte Carlo and turbulence. **93a:65006**
Jackson, Eric *see* **She, Zhen Su; et al., (93d:65005)**
Kamin, Shoshana (*with* Vázquez, Juan Luis) The propagation of turbulent bursts. (English summary) **93m:35094**
Karniadakis, George Em. Spectral element–Fourier methods for incompressible turbulent flows. (English summary) (*see* **93d:65005**)
Kim, Y. M. (*with* Chung, T. J.) Analysis of turbulent reacting flows in combustion. (*see* **93e:76050**)
Kochergin, V. P. (*with* Sklyar, S. N.) Semianalytical version of approximation of system of equations in the "b-ε" turbulence model. (English summary)
Kolář, V. On the critical points in the description of vortical flows. **93d:76013**
Lele, Sanjiva K. *see* **Poinsot, T. J., 93d:76050**
Libby, Paul A. *see* **Bray, K. N. C., 93i:80004**
Lii, Keh-Shin *see* **Helland, K.; et al., 93a:65006**
Lima, Ricardo *see* **Aubry, Nadine; et al., 93f:76052**
Lions, Pierre-Louis *see* **Caglioti, E.; et al., 93i:82060**
Lopez, Juan Manuel Axisymmetric vortex breakdown. I. Confined swirling flow. **93c:76041a**
— (*with* Perry, A. D.) Axisymmetric vortex breakdown. III. Onset of periodic flow and chaotic advection. **93c:76041c**
— *see also* **Brown, G. L., 93c:76041b**
Lykosov, V. N. (*with* Platov, G. A.) A numerical model of interaction between atmospheric and oceanic boundary layers. (English summary)
Majda, Andrew J. Mathematical fluid dynamics: the interaction of nonlinear analysis and modern applied mathematics. **93k:76003**
— *see also* **Avellaneda, Marco, 93j:82068**
Marchioro, Carlo *see* **Caglioti, E.; et al., 93i:82060**
Maslov, V. P. Beginning of weakly anisotropic turbulence. **93c:76017**
Matthaeus, W. H. *see* **Zank, G. P., 93k:76127**
McMurtry, Patrick A. (*with* Givi, Peyman) Direct numerical simulations of a reacting turbulent mixing layer by a pseudospectral-spectral element method. (*see* **93e:76050**)
Métivet, Brigitte *see* **Chabard, J.-P.; et al., 93k:76076**
Moffatt, H. Keith (*with* Tsinober, A.) Helicity in laminar and turbulent flow. **93b:76018**
Müller, Wolfdietrich Numerical simulation of turbulent flow and matter transfer in a 3D water circulation model. **93b:76063**
Orszag, Steven A. *see* **She, Zhen Su; et al., (93d:65005)**
Ozawa, Tohru (*with* Tsutsumi, Yoshio) The nonlinear Schrödinger limit and the initial layer of the Zakharov equations. **93d:76079**
Perry, A. D. *see* **Lopez, Juan Manuel, 93c:76041c**
Peters, N. A spectral closure for premixed turbulent combustion in the flamelet regime. (English summary) **93f:80022**
Picone, J. M. *see* **Dahlburg, R. B., (93d:65005)**
(Pironneau, Olivier) *see* **Numerical simulation of unsteady flows and transition to turbulence, 93e:76003**
Platov, G. A. *see* **Lykosov, V. N.**
Poinsot, T. J. (*with* Lele, Sanjiva K.) Boundary conditions for direct simulations of compressible viscous flows. **93d:76050**
Pot, G. *see* **Chabard, J.-P.; et al., 93k:76076**
Priimak, V. G. A family of pseudospectral algorithms for integration of Navier-Stokes equations in a cylindrical coordinate system. (Russian. Russian summary) **93j:65161**
Pulvirenti, Mario *see* **Caglioti, E.; et al., 93i:82060**
Rek, Z. (*with* Skerget, L.; Alujević, A.) Vorticity-velocity formulation for turbulent flow by BEM. (English summary) (*see* **93i:76003**)
Rica, Sergio (*with* Tirapegui, Enrique) Dynamics of vortices in the Ginzburg-Landau equation. **93b:82093**
(Rodi, W.) *see* **Numerical simulation of unsteady flows and transition to turbulence, 93e:76003**
Rosenblatt, Murray *see* **Helland, K.; et al., 93a:65006**
(Ryhming, I. L.) *see* **Numerical simulation of unsteady flows and transition to turbulence, 93e:76003**
Saffman, P. G. Vortex dynamics and turbulence. (*see* **93b:76001**)
Savenkov, I. V. Resonant amplification of two-dimensional disturbances in a semi-infinite channel. (Russian. Russian summary) **93h:76038**
(Savill, A. M.) *see* **Numerical simulation of unsteady flows and transition to turbulence, 93e:76003**
Sela, Nathan (*with* Goldhirsch, Isaac) Stability theory of an elliptical vortex. (English summary) **93f:76020**
She, Zhen Su (*with* Jackson, Eric; Orszag, Steven A.) Vortex structure and dynamics in turbulence. (English summary) (*see* **93d:65005**)
Sitenko, A. G. (*with* Sosenko, P. P.) Nonlinear electromagnetic fluctuations in plasmas (renormalization concept). (*see* **93b:00013**)
— (*with* Sosenko, P. P.) Renormalized theory of low-frequency hydrodynamic fluctuations in plasmas. (*see* **93b:00013**)
Skerget, L. *see* **Rek, Z.; et al., (93i:76003)**
Sklyar, S. N. *see* **Kochergin, V. P.**
Smith, F. T. *see* **Doorly, D. J., 93a:76031** *and* **Degani, A. T.; et al., 93m:76027**
Sosenko, P. P. *see* **Sitenko, A. G., (93b:00013)** *and* **(93b:00013)**
Şuhubi, Erdoğan S. *see* **Ünal, G., 93c:76027**
Thomas, B. *see* **Chabard, J.-P.; et al., 93k:76076**
Tirapegui, Enrique *see* **Rica, Sergio, 93b:82093**
(Truong, T. V.) *see* **Numerical simulation of unsteady flows and transition to turbulence, 93e:76003**
Tsinober, A. *see* **Moffatt, H. Keith, 93b:76018**
Tsutsumi, Yoshio *see* **Ozawa, Tohru, 93d:76079**
Ünal, G. (*with* Şuhubi, Erdoğan S.) A local analysis of the Kolmogorov-Spiegel-Sivashinsky equation. **93c:76027**
Vázquez, Juan Luis *see* **Kamin, Shoshana, 93m:35094**
Walker, J. D. A. *see* **Degani, A. T.; et al., 93m:76027**
Zang, Thomas A. Spectral method for simulations of transition and turbulence. (English summary) (*see* **93d:65005**)
Zank, G. P. (*with* Matthaeus, W. H.) Nearly incompressible fluids. II. Magnetohydrodynamics, turbulence, and waves. (English summary) **93k:76127**
Zeytounian, Radyadour Kh. ★ Meteorological fluid dynamics. **93m:76013**

Items listed otherwise than by author

Lausanne ★ Numerical simulation of unsteady flows and transition to turbulence. **93e:76003**
Numerical simulation of unsteady flows and transition to turbulence ★ Numerical simulation of unsteady flows and transition to turbulence. **93e:76003**
Workshop:
Numerical Simulation of Unsteady Flows and Transition to Turbulence ★ Numerical simulation of unsteady flows and transition to turbulence. **93e:76003**

76G25 General aerodynamics and subsonic flows

Aul'chenko, S. M. A variational method for constructing subsonic wing profiles. (Russian) **93i:76048**
Bassanini, P. (*with* Casciola, C. M.; Lancia, M. R.; Piva, R.) A boundary integral formulation for the kinetic field in aerodynamics. I. Mathematical analysis. **93f:76060**
Brouwer, H. H. On the use of the method of matched asymptotic expansions in propeller aerodynamics and acoustics. (English summary) **93f:76061**
Carabineanu, Adrian On subsonic steady flow past a circular obstacle. (Romanian. English and Romanian summaries) **93g:76073**
Casciola, C. M. *see* **Bassanini, P.; et al., 93f:76060**
Elizarov, A. M. (*with* Il'inskiĭ, N. B.; Potashev, A. V.) Inverse boundary value problems of aerohydrodynamics as a theoretical basis for the design of wing profiles in a subsonic flow. (Russian. Russian summary) **93i:76049**
— (*with* Fokin, D. A.) An inverse boundary value problem in aerodynamics with specification of the velocity distribution for two angles of attack. (Russian)

Fokin, D. A. *see* **Elizarov, A. M.**
Il'inskiĭ, N. B. *see* **Elizarov, A. M.; et al., 93i:76049**
Lampart, P. (*with* Wierciński, Z.) Application of the singular integral equations theory to the aerodynamic problems on example of the 2-dimensional flow past thin profile system. (English summary) **93d:76035**
Lancia, M. R. *see* **Bassanini, P.; et al., 93f:76060**
Nisht, M. I. (*with* Podobedov, V. A.; Zhelannikov, A. I.) Far-wake formation behind a wing and a system of carrying surfaces. (Russian)
Piva, R. *see* **Bassanini, P.; et al., 93f:76060**
Podobedov, V. A. *see* **Nisht, M. I.; et al.**
Potashev, A. V. *see* **Elizarov, A. M.; et al., 93i:76049**
Wierciński, Z. *see* **Lampart, P., 93d:76035**
Zhelannikov, A. I. *see* **Nisht, M. I.; et al.**

Items with secondary classifications in 76G25

Beux, François (*with* Dervieux, Alain) Exact-gradient shape optimization of a 2-D Euler flow. (English summary) **93j:76048**
Causon, D. M. *see* **Clarke, N.; et al., (93b:76002)**
Chueshov, I. D. Construction of solutions in a problem of the oscillations of a shell in a potential subsonic flow. (Russian) **93c:73078**
Clarke, N. (*with* Saunders, Robert; Causon, D. M.) A convenient entropy satisfying T.V.D. scheme for computational aerodynamics. (*see* **93b:76002**)
Dervieux, Alain *see* **Beux, François, 93j:76048**
Dragoş, Lazăr (*with* Popescu, Marin) Certain quadrature formulae of interest in aerodynamics. (English summary) **93h:65037**
Efremov, I. I. An aerodynamic hypothesis for solving problems of wing aeroelasticity. (Russian. English and Ukrainian summaries) **93i:73037**
Elizarov, A. M. (*with* Il'inskiĭ, A. N.; Il'inskiĭ, N. B.; Potashev, A. V.; Fokin, D. A.) Aerohydrodynamically appropriate velocity distributions in inverse boundary value problems of subsonic aerohydrodynamics. (Russian)
Fokin, D. A. *see* **Elizarov, A. M.; et al.**
Il'inskiĭ, A. N. *see* **Elizarov, A. M.; et al.**
Il'inskiĭ, N. B. *see* **Elizarov, A. M.; et al.**
Khakimzyanov, G. S. *see* **Shokin, Yu. I., (93b:76002)**
Lifanov, I. K. (*with* Poltavskiĭ, L. N.) Generalized Fourier operators and their application to the justification of some numerical methods in aerodynamics. (Russian. Russian summary) **93k:76088**
Manuilovich, S. V. A method for the laminarization of a boundary layer on a vibrating wing. (Russian) **93a:76032**
Matveev, A. F. (*with* Molyakov, N. M.) On the numerical solution of integral equations of the aerodynamics of permeable surfaces. (Russian) **93c:76068**
Mayer, Ernst W. (*with* Powell, Kenneth G.) Similarity solutions for viscous vortex cores. **93b:76026**
Molyakov, N. M. *see* **Matveev, A. F., 93c:76068**
Murai, Takafumi The role of the Hilbert transform in 2-dimensional aerodynamics. **93g:76096**
Poltavskiĭ, L. N. *see* **Lifanov, I. K., 93k:76088**
Popescu, Marin *see* **Dragoş, Lazăr, 93h:65037**
Potashev, A. V. *see* **Elizarov, A. M.; et al.**
Powell, Kenneth G. *see* **Mayer, Ernst W., 93b:76026**
Prössdorf, Siegfried (*with* Tordella, D.) On an extension of Prandtl's lifting line theory to curved wings. **93b:76007**
Rylov, A. I. Monotonicity properties of certain two-dimensional vortex flows of an incompressible fluid and of subsonic gas flows. (Russian. Russian summary) **93g:76034**
Saunders, Robert *see* **Clarke, N.; et al., (93b:76002)**
Shapiro, Richard A. ★ Adaptive finite element solution algorithm for the Euler equations. **93b:76059**
Shokin, Yu. I. (*with* Khakimzyanov, G. S.) Numerical calculation of stationary subsonic gas dynamics problems. (*see* **93b:76002**)
Tordella, D. *see* **Prössdorf, Siegfried, 93b:76007**
Vorob'ev, A. N. An algorithm for computing slow flows in channels. (Russian. Russian summary) **93i:76076**

76H05 Transonic flows

Cole, Julian D. *see* **Cook, L. Pamela, 93f:76062**
Cook, L. Pamela (*with* Cole, Julian D.) Asymptotic theory of the transonic area rule. **93f:76062**
Cramer, M. S. (*with* Tarkenton, G. M.) Transonic flows of Bethe-Zel'dovich-Thompson fluids. (English summary) **93e:76046**
Kuz'min, A. G. Conditions for the stability of a transonic stagnation flow in a channel. (Russian. Russian summary) **93k:76070**
Martínez-Gamba, Irene Boundary-layer formation for viscosity approximations in transonic flow. **93b:76051**
Pogu, Marc (*with* Tournemine, G.) Contribution à la résolution fonctionnelle d'écoulements transsoniques. [Contribution to the functional solution of transonic flows] **93g:76074**
Radzevich, S. B. On the unsteady flow around a thin profile by a transonic gas. (Russian. Russian summary) **93e:76047**
Roslyakov, G. S. *see* **Veretentsev, V. A., (93f:00006)**
Rusak, Z. Transonic flow around the leading edge of a thin airfoil with a parabolic nose. (English summary)
Tarkenton, G. M. *see* **Cramer, M. S., 93e:76046**
Titov, S. S. Local recurrences of the first order of transonic equations. (Russian) (*see* **93d:58002**)
Tournemine, G. *see* **Pogu, Marc, 93g:76074**
Veretentsev, V. A. (*with* Roslyakov, G. S.) Application of the factorization method to the computation of potential gas flow in a transonic region of a nozzle. (Russian. Russian summary) (*see* **93f:00006**)
Wu, L. Y. *see* **Zhu, Z. Q.; et al.**
Xia, Z. X. *see* **Zhu, Z. Q.; et al.**
Zhu, Z. Q. (*with* Xia, Z. X.; Wu, L. Y.) An inverse method with regularity condition for transonic airfoil design. (English summary)

Items with secondary classifications in 76H05

Aul'chenko, S. M. A variational method for constructing subsonic wing profiles. (Russian) **93i:76048**
Baumann, C. E. (*with* Storti, M. A.; Idelsohn, Sergio R.) Improving the convergence rate of the Petrov-Galerkin techniques for the solution of transonic and supersonic flows. **93a:76064**
Byval'tsev, P. M. (*with* Ivanov, M. Ya.) A fast method for calculating three-dimensional transonic potential flows in turbomachine blade passages. (Russian. Russian summary) **93h:76054**
Idelsohn, Sergio R. *see* **Baumann, C. E.; et al., 93a:76064**
Ivanov, M. Ya. *see* **Byval'tsev, P. M., 93h:76054**
Kuz'min, A. G. ★ Nonclassical equations of mixed type and their applications in gas dynamics. **93h:35137**
Lar'kin, N. A. On the theory of the Lin-Reissner-Tsien equation. (Russian) (*see* **93b:35002**)
— ★ Гладкие решения уравнений трансзвуковой газодинамики. (Russian) [Smooth solutions of equations of transonic gas dynamics] **93d:35169**
Lerat, A. (*with* Sidès, J.) Implicit transonic calculations without artificial viscosity or upwinding. (*see* **93b:76056**)
Martínez-Gamba, Irene Stationary transonic solutions of a one-dimensional hydrodynamic model for semiconductors. **93f:35186**
Nečas, Jindřich Finite element approach to the transonic flow problem. (*see* **93b:65007**)
Sidès, J. *see* **Lerat, A., (93b:76056)**
Storti, M. A. *see* **Baumann, C. E.; et al., 93a:76064**
Swanson, Roy Charles (*with* Turkel, Eli) On central-difference and upwind schemes. **93c:76065**
Turkel, Eli *see* **Swanson, Roy Charles, 93c:76065**

76J20 Supersonic flows

Bessonova, N. Yu. (*with* Radvogin, Yu. B.) A marching method for computing three-dimensional steady flows in problems of supersonic flow. (Russian) **93b:76052**
Cardoş, Vladimir General integral method in the study of supersonic flows past slender bodies. (English summary) **93m:76053**
Fedorov, Alexandre V. (*with* Khokhlov, A. P.) Sensitivity of a supersonic boundary layer to acoustic disturbances. (Russian. Russian summary) **93k:76071**
Khokhlov, A. P. *see* **Fedorov, Alexandre V., 93k:76071**
Levin, M. P. (*with* Sidorov, L. V.) ★ Расчет сверхзвуковых течений в пирамидальных соплах. (Russian) [Computation of supersonic flows in pyramidal nozzles] **93a:76061**
Parushnikov, V. I. (*with* Radvogin, Yu. B.) Calculation of the three-dimensional steady weakly supersonic gas flow around the leading edge of a pointed body in an associated shock wave regime. (Russian) **93b:76053**
Radvogin, Yu. B. *see* **Bessonova, N. Yu., 93b:76052** *and* **Parushnikov, V. I., 93b:76053**
Sidorov, L. V. *see* **Levin, M. P., 93a:76061**
Vorob'ev, N. F. On an exact solution of a problem on the end effect of a wing of finite span in a supersonic flow. (Russian) **93h:76043**

Items with secondary classifications in 76J20

Baumann, C. E. (*with* Storti, M. A.; Idelsohn, Sergio R.) Improving the convergence rate of the Petrov-Galerkin techniques for the solution of transonic and supersonic flows. **93a:76064**
Bourgault, Y. (*with* Caussignac, P.) Ill-posedness of a shock-fitting problem for parabolized Navier-Stokes equations. **93c:76056**
Caussignac, P. *see* **Bourgault, Y., 93c:76056**
Chen, Shu Xing Existence of local solution to supersonic flow past a three-dimensional wing. (French) **93h:35156**
Gittler, Philipp On similarity solutions occurring in the theory of interactive laminar boundary layers. (English summary) **93g:76100**
Glaister, P. A finite difference scheme for steady, supersonic, two-dimensional, compressible flow of real gases. **93b:76060**
Glazkov, Yu. V. (*with* Shcherbak, V. G.) The method of global iterations with respect to the pressure gradient for the solution of parabolized Navier-Stokes equations. (Russian. Russian summary) **93h:76055**
Hui, W. H. A new direction in steady supersonic/hypersonic flow computation. (*see* **93b:00022**)
— (*with* Loh, Ching-Yuen) A new Lagrangian method for steady supersonic flow computation. II. Slip-line resolution. (English summary) **93j:76044a**
— (*with* Loh, Ching-Yuen) A new Lagrangian method for steady supersonic flow computation. III. Strong shocks. **93j:76044b**
Idelsohn, Sergio R. *see* **Baumann, C. E.; et al., 93a:76064**
Levin, M. P. (*with* Sidorov, L. V.) A method for calculating three-dimensional supersonic flows in pyramidal nozzles. (Russian. Russian summary) **93h:76051**
— A quasicharacteristic difference scheme and its application for computing supersonic gas flows. (Russian. Russian summary) **93m:65137**
Loh, Ching-Yuen *see* **Hui, W. H., 93j:76044a** *and* **93j:76044b**
Men'shov, I. S. Increasing the accuracy of the Godunov scheme for computing steady supersonic gas flows on the basis of the solution of the generalized Riemann problem. (Russian) **93b:76062**
Powell, Alan Soviet aeroacoustics—a short review. **93d:76059**
Rylov, A. I. Some properties of subsonic flow behind a shock wave generated by a supersonic flow around bodies of finite thickness. (Russian) **93c:76058**
Shcherbak, V. G. *see* **Glazkov, Yu. V., 93h:76055**
Sidorov, L. V. *see* **Levin, M. P., 93h:76051**
Storti, M. A. *see* **Baumann, C. E.; et al., 93a:76064**

76K05 Hypersonic flows

Aupoix, B. *see* **Brazier, J. Ph.; et al., (93d:76001)**

Borisov, V. M. (*with* Ivankov, A. A.) Calculation of the radiative energy transfer in hypersonic flow around blunt bodies by means of P_1- and P_2-approximations of the method of spherical harmonics. (Russian) **93d:76036**

Brazier, J. Ph. (*with* Aupoix, B.; Cousteix, J.) Second-order effects in hypersonic laminar boundary layers. (English summary) (*see* **93d:76001**)

Chalot, Frédéric L. (*with* Hughes, Thomas J. R.) Analysis of hypersonic flows in thermo-chemical equilibrium by application of the Galerkin/least-squares formulation. (*see* **93b:00026**)

Cheng, H. K. Perspectives on hypersonic viscous flow research. (*see* **93h:76003**)

Cousteix, J. *see* **Brazier, J. Ph.; et al., (93d:76001)**

Dallmann, Uwe *see* **Simen, Martin, 93h:76044**

Désidéri, J.-A. The computation over unstructured grids of inviscid hypersonic reactive flow by upwind finite-volume schemes. (English summary) **93k:76072**

Fu, Yibin (*with* Hall, Philip[2]) Nonlinear development and secondary instability of large-amplitude Görtler vortices in hypersonic boundary layers. (English summary) **93i:76050**

Golovachëv, Yu. P. (*with* Zemlyakov, V. V.) Unsteady supersonic flow around a blunt body moving through thermal inhomogeneities in the case of a turbulent flow regime in a shock layer. (Russian. Russian summary)

Golubkin, V. N. (*with* Negoda, V. V.) On raising the aerodynamic quality of wings of small span for hypersonic velocities. (Russian. Russian summary) **93g:76075**

Grubin, S. E. (*with* Trigub, V. N.) The asymptotic theory of hypersonic boundary-layer stability. (English summary) **93m:76054**

— (*with* Trigub, V. N.) The long-wave limit in the asymptotic theory of hypersonic boundary-layer stability. (English summary) **93m:76055**

Hall, Philip[2] *see* **Fu, Yibin, 93i:76050**

Hughes, Thomas J. R. *see* **Chalot, Frédéric L., (93b:00026)**

Ivankov, A. A. *see* **Borisov, V. M., 93d:76036**

Louie, K. (*with* Ockendon, J. R.) Mathematical aspects of the theory of inviscid hypersonic flow. **93c:76055**

Negoda, V. V. *see* **Golubkin, V. N., 93g:76075**

Ockendon, J. R. *see* **Louie, K., 93c:76055**

Simen, Martin (*with* Dallmann, Uwe) ★ On the instability of hypersonic flow past a pointed cone—comparison of theoretical and experimental results at Mach 8. (English. English and German summaries) **93h:76044**

Svyat·skov, V. A. Incorrect extremals in a problem on an axisymmetric body in a hypersonic gas flow. (Russian. Russian summary) **93e:76048**

Tirskii, G. A. Up-to-date gasdynamic models of hypersonic aerodynamics and heat transfer with real gas properties. (*see* **93h:76003**)

Trigub, V. N. *see* **Grubin, S. E., 93m:76054** *and* **93m:76055**

Zemlyakov, V. V. *see* **Golovachëv, Yu. P.**

Items with secondary classifications in 76K05

Arguchintseva, M. A. (*with* Pilyugin, N. N.) Extremal problems for heat exchange between three-dimensional bodies moving at hypersonic velocities. (Russian. Russian summary) **93m:80006**

Baker, Allen Jerome *see* **Iannelli, G. S., 93a:76067**

Blackaby, Nicholas D. (*with* Cowley, Stephen J.; Hall, Philip[2]) On the instability of hypersonic flow past a flat plate. (English summary) **93m:76042**

Brykina, I. G. (*with* Rusakov, V. V.; Shcherbak, V. G.) Approximate formulas for heat fluxes on the surface of three-dimensional bodies. (Russian. Russian summary)

Ciccoli, M. C. (*with* Fezoui, L.; Désidéri, J.-A.) Efficient methods for inviscid nonequilibrium hypersonic flow fields. (French. English and French summaries) **93f:76066**

Cinnella, P. (*with* Grossman, Bernard) Flux-split algorithms for hypersonic flows. (English summary) **93i:76065**

Cowley, Stephen J. *see* **Blackaby, Nicholas D.; et al., 93m:76042**

Désidéri, J.-A. *see* **Ciccoli, M. C.; et al., 93f:76066**

Fezoui, L. *see* **Ciccoli, M. C.; et al., 93f:76066**

Fu, Yibin (*with* Hall, Philip[2]) Effects of Görtler vortices, wall cooling and gas dissociation on the Rayleigh instability in a hypersonic boundary layer. (English summary) **93m:76043**

Grossman, Bernard *see* **Cinnella, P., 93i:76065**

Hall, Philip[2] *see* **Blackaby, Nicholas D.; et al., 93m:76042** *and* **Fu, Yibin, 93m:76043**

Hänel, D. Computational methods for viscous hypersonic flows. (English summary) **93i:76067**

Hemker, P. W. *see* **Koren, B., (93d:76001)**

Hui, W. H. A new direction in steady supersonic/hypersonic flow computation. (*see* **93b:00022**)

Hussaini, M. Y. *see* **Lasseigne, D. Glenn, 93k:76074**

Iannelli, G. S. (*with* Baker, Allen Jerome) A non-linearly stable implicit finite element algorithm for hypersonic aerodynamics. **93a:76067**

Koren, B. (*with* Hemker, P. W.) Efficient multigrid computation of steady hypersonic flows. (English summary) (*see* **93d:76001**)

Lasseigne, D. Glenn (*with* Hussaini, M. Y.) Interaction of disturbances with an oblique detonation wave attached to a wedge. (English summary) **93k:76074**

Liou, Meng Sing *see* **Loh, Ching-Yuen, 93g:76087**

Loh, Ching-Yuen (*with* Liou, Meng Sing) Lagrangian solution of supersonic real gas flows. (English summary) **93g:76087**

(Murthy, T. K. S.) *see* **Computational methods in hypersonic aerodynamics, 93d:76001**

Pilyugin, N. N. *see* **Arguchintseva, M. A., 93m:80006**

Rusakov, V. V. *see* **Brykina, I. G.; et al.**

Shang, J. S. Numerical simulation of hypersonic flows. (English summary) (*see* **93d:76001**)

Shcherbak, V. G. *see* **Brykina, I. G.; et al.**

Weiland, C. A split-matrix Runge-Kutta type space-marching procedure. (English summary) **93g:76090**

Winnewisser, G. *see* **Yue, Zeng Yuan, 93f:76046**

Yue, Zeng Yuan (*with* Winnewisser, G.) On the temporal and the spatial Kelvin-Helmholtz instability of a hypersonic jet confined by a longitudinal magnetic field. (English summary) **93f:76046**

Items listed otherwise than by author

Computational methods in hypersonic aerodynamics ★ Computational methods in hypersonic aerodynamics. **93d:76001**

76L05 Shock waves and blast waves [see also 35L67, 73D05]

Bashkirov, A. G. Influence of viscous stresses on shock wave stability in gases. (English summary) **93k:76073**

Belotserkovets, I. S. (*with* Timoshenko, V. I.) On the calculation of nonregular interactions of shock waves. (Russian)

Borisov, Anatolii Al. (*with* Sharypov, O. V.) Formation of a bubbly detonation wave. (Russian. Russian summary) **93j:76042**

Bourgault, Y. (*with* Caussignac, P.) Ill-posedness of a shock-fitting problem for parabolized Navier-Stokes equations. **93c:76056**

Boyd, John Philip The energy spectrum of fronts: time evolution of shocks in Burgers' equation. **93a:76062**

Caussignac, P. *see* **Bourgault, Y., 93c:76056**

Dyment, A. *see* **Merlen, A., 93b:76054**

Fedorov, Alexandre V. (*with* Fedorova, N. N.) The structure, propagation and reflection of shock waves in a mixture of solid bodies (hydrodynamic approximation). (Russian) **93m:76056**

Fedorova, N. N. *see* **Fedorov, Alexandre V., 93m:76056**

Greenberg, J. M. The shock generation problem for a discrete gas with short-range repulsive forces. **93g:76076**

Guha, A. Jump conditions across normal shock waves in pure vapour-droplet flows. (English summary) **93f:76063**

Hussaini, M. Y. *see* **Lasseigne, D. Glenn, 93k:76074**

Ivanov, A. Yu. (*with* Likhachev, V. N.) The focusing of convergent weak shock waves in a viscous fluid. (Russian. Russian summary) (*see* **93d:00029**)

Ivanov, M. Ya. (*with* Krupa, V. G.) Calculation of the three-dimensional interaction between a shock wave and a boundary layer on a cylinder. (Russian) **93d:76037**

Krupa, V. G. *see* **Ivanov, M. Ya., 93d:76037**

Lacey, A. A. (*with* Vázquez, Juan Luis) Interaction of gas fronts. (English summary) **93i:76051**

Lasseigne, D. Glenn (*with* Hussaini, M. Y.) Interaction of disturbances with an oblique detonation wave attached to a wedge. (English summary) **93k:76074**

Likhachev, V. N. *see* **Ivanov, A. Yu., (93d:00029)**

Majda, Andrew J. (*with* Roytburd, V.) Low-frequency multidimensional instabilities for reacting shock waves. **93f:76064**

Merlen, A. (*with* Dyment, A.) Anisotropic blast waves and explosions in a moving gas. **93b:76054**

Muracchini, Augusto Shock waves formation in gravitational gases. (*see* **93g:00030**)

Nishi, Ryoichi On the instability of decelerating shock waves. **93c:76057**

Ostapenko, V. V. Expansion of the difference solution on the front of a traveling shock wave. (Russian) **93h:76045**

Palczewski, Andrzej (*with* Stasiak, W.) Numerical investigation of the one-dimensional shock wave reflection in a perfect gas. (English, Russian and Polish summaries)

Roytburd, V. *see* **Majda, Andrew J., 93f:76064**

Rylov, A. I. Some properties of subsonic flow behind a shock wave generated by a supersonic flow around bodies of finite thickness. (Russian) **93c:76058**

Sharypov, O. V. *see* **Borisov, Anatolii Al., 93j:76042**

Shvarts, Dov *see* **Waxman, Eli, 93k:76075**

Stasiak, W. *see* **Palczewski, Andrzej**

Timoshenko, V. I. *see* **Belotserkovets, I. S.**

Vázquez, Juan Luis *see* **Lacey, A. A., 93i:76051**

Waxman, Eli (*with* Shvarts, Dov) Second-type self-similar solutions to the strong explosion problem. (English summary) **93k:76075**

Items with secondary classifications in 76L05

Audounet, J. (*with* Moreux, V.) Petrov-Galerkin type finite element approximations of K-diagonalizable hyperbolic systems: applications to multidimensional Euler equations. (French. English and French summaries) **93j:65145**

Aurell, Erik *see* **She, Zhen Su; et al., 93h:35182**

Balakumar, P. *see* **Duck, Peter W., 93k:76054**

Bellomo, N. (*with* Longo, E.) Shock wave profiles in one dimension by the discrete Boltzmann equation with multiple collisions. (English summary) (*see* **93g:00030**)

— *see also* **Bonzani, I., 93e:82037**

Benson, David Joel (*with* Schoenfeld, S.) A total variation diminishing shock viscosity. (English summary) **93i:76052**

Bessonova, N. Yu. (*with* Radvogin, Yu. B.) A marching method for computing three-dimensional steady flows in problems of supersonic flow. (Russian) **93b:76052**

Blokhin, A. M. (*with* Druzhinin, I. Yu.) On the stability of a fast magnetohydrodynamic shock wave for a weak magnetic field. (Russian) **93j:76066**

Bonzani, I. (*with* Bellomo, N.) Mathematical aspects of nonlinear shock waves propagation by the discrete Boltzmann equation. **93e:82037**

Brauner, C.-M. (*with* Buckmaster, John; Dold, J. W.; Schmidt-Lainé, Cl.) On an evolution equation arising in detonation theory. **93k:80011**

Brio, Moysey (*with* Hunter, John K.) Mach reflection for the two-dimensional Burgers equation. (English summary) **93i:35119**

— (*with* Hunter, John K.) Asymptotic equations for conservation laws of mixed type. **93g:35093**

Buckmaster, John *see* **Brauner, C.-M.; et al., 93k:80011**

Bukiet, Bruce G. (*with* Menikoff, Ralph) Detonation waves and the front tracking method. (English summary) **93f:80017**

Cai, Wei (*with* Shu, Chi-Wang) Uniform high-order spectral methods for one- and two-dimensional Euler equations. (English summary) **93i:76064**

Chen, Shu Xing Interaction of shock and sound wave for system of gas dynamics. (*see* **93b:00022**)

Cramer, M. S. (*with* Tarkenton, G. M.) Transonic flows of Bethe-Zel'dovich-Thompson fluids. (English summary) **93e:76046**
Den'yanov, Yu. A. Asymptotic solution of a problem on the ignition of a fuel gas mixture by a heat source of constant intensity. (Russian) **93f:80018**
De Vuyst, Florian Un nouveau schéma numérique pour la résolution des équations d'Euler compressibles. (English summary) [A new numerical scheme for solving the compressible Euler equations] **93d:65090**
Dold, J. W. Emergence of a detonation within a reacting medium. **93h:80003**
— *see also* **Brauner, C.-M.; et al., 93k:80011**
Druzhinin, I. Yu. Formulation of problems on the stability of shock waves in magnetohydrodynamics. (Russian. Russian summary) **93d:76074**
— Formulations of problems on the stability of discontinuities in magnetohydrodynamics. (Russian) **93j:76067**
— *see also* **Blokhin, A. M., 93j:76066**
Duck, Peter W. (*with* Balakumar, P.) On the stability of normal shock waves. (English summary) **93k:76054**
Egorushkin, S. A. (*with* Kulikovskiĭ, A. G.) Stability of solutions of some boundary value problems for hyperbolic equations. (Russian) **93g:35089**
Fan, Haitao A limiting "viscosity" approach to the Riemann problem for materials exhibiting a change of phase. II. **93a:35102**
Fedorov, Alexandre V. The structure of a shock wave in a mixture of two solid bodies (hydrodynamic approximation). (Russian. Russian summary) **93k:73024**
— The structure of a combined discontinuity in gas suspensions in the presence of chaotic pressure of particles. (Russian)
— *see also* **Varlamov, E. V., 93d:73032**
Ferriz-Mas, A. (*with* Moreno-Insertis, F.) Shock wave propagation in a magnetic flux tube. (English summary) **93h:76077**
Filippova, O. L. Stability of plane MHD shock waves in an ideal gas. (Russian) **93d:76076**
Freistühler, Heinrich Dynamical stability and vanishing viscosity: a case study of a non-strictly hyperbolic system. **93b:35085**
Frisch, Uriel *see* **She, Zhen Su; et al., 93h:35182**
Gavrilyuk, S. L. Existence, uniqueness, and Lax stability of traveling waves in a polydisperse bubbly medium with dissipation. **93c:76081**
Gimse, Tore Conservation laws with discontinuous flux functions. (English summary) **93j:35111**
Glaister, P. A shock capturing scheme for steady, supercritical, free-surface flow. (English summary) **93f:76071**
— Similarity solutions for multi-component flows. (English summary) **93f:76083**
— Cylindrically symmetric flows in a Lagrangian frame. (English summary) **93k:76085**
Golovachëv, Yu. P. (*with* Zemlyakov, V. V.) Unsteady supersonic flow around a blunt body moving through thermal inhomogeneities in the case of a turbulent flow regime in a shock layer. (Russian. Russian summary)
Gonthier, Keith A. *see* **Powers, Joseph M., 93d:80005**
Goodman, Jonathan (*with* Xin, Zhou Ping) Viscous limits for piecewise smooth solutions to systems of conservation laws. (English summary) **93k:35167**
Grotberg, J. B. *see* **Jensen, O. E., 93f:76026**
Habbal, S. R. *see* **Hu, You Qiu, 93k:76123**
Harabetian, Eduard (*with* Pego, Robert L.) Nonconservative hybrid shock capturing schemes. (English summary) **93m:65118**
Harten, Ami Recent developments in shock-capturing schemes. **93c:65122**
Hesaaraki, Mahmud The structure of MFD shock waves in a model of two fluids. (English summary) **93m:76073**
Hsu, C. A. *see* **Yang, J. Y.; et al., 93h:65127**
Hu, You Qiu (*with* Habbal, S. R.) Interaction between perpendicular magnetohydrodynamic shocks. (English summary) **93k:76123**
Hui, W. H. (*with* Loh, Ching-Yuen) A new Lagrangian method for steady supersonic flow computation. II. Slip-line resolution. (English summary) **93j:76044a**
— (*with* Loh, Ching-Yuen) A new Lagrangian method for steady supersonic flow computation. III. Strong shocks. **93j:76044b**
— *see also* **Yang, J. Y.; et al., 93h:65127**
Hunter, John K. *see* **Brio, Moysey, 93g:35093** *and* **93i:35119**
Jensen, O. E. (*with* Grotberg, J. B.) Insoluble surfactant spreading on a thin viscous film: shock evolution and film rupture. (English summary) **93f:76026**
Kapila, A. K. An introduction to detonation theory. **93h:80005**
Karni, Smadar Viscous shock profiles and primitive formulations. (English summary) **93j:65163**
Kulikovskiĭ, A. G. *see* **Egorushkin, S. A., 93g:35089**
Li, Da Qian (*with* Zhao, Yan Chun) Global shock solutions to a class of piston problems for the system of one-dimensional isentropic flow. **93a:76084**
Li, De Ning Riemann problem for multi-dimensional hyperbolic conservation laws. (*see* **93k:00036**)
Li, Tong On the Riemann problem for a combustion model. (English summary) **93m:35154**
Liou, Meng Sing *see* **Loh, Ching-Yuen, 93g:76087**
Liu, Tai-Ping (*with* Xin, Zhou Ping) Stability of viscous shock waves associated with a system of non-strictly hyperbolic conservation laws. **93k:35170**
Logan, J. David Weakly nonlinear reactive shocks with lateral divergence. (English summary) **93k:80017**
Loh, Ching-Yuen (*with* Liou, Meng Sing) Lagrangian solution of supersonic real gas flows. (English summary) **93g:76087**
— *see also* **Hui, W. H., 93j:76044a** *and* **93j:76044b**
Longo, E. *see* **Bellomo, N., (93g:00030)**
Lu, Yun Guang (*with* Wang, Jing Hua) The interactions of elementary waves of nonstrictly hyperbolic system. **93a:35105**
Maesumi, Mohsen Symmetry breaking and the interaction of hyperbolic waves. **93a:76100**
Martínez-Gamba, Irene Boundary-layer formation for viscosity approximations in transonic flow. **93b:76051**
Menikoff, Ralph *see* **Bukiet, Bruce G., 93f:80017**
Men'shov, I. S. Increasing the accuracy of the Godunov scheme for computing steady supersonic gas flows on the basis of the solution of the generalized Riemann problem. (Russian) **93b:76062**
Mikhailov, A. P. (*with* Stepanova, V. V.) Nonlocalized blow-up solutions of the piston problem. (Russian. English and Russian summaries) **93g:76099**
Monaco, Roberto (*with* Preziosi, Luigi) ★ Fluid dynamic applications of the discrete Boltzmann equation. **93f:76084**
Moreno-Insertis, F. *see* **Ferriz-Mas, A., 93h:76077**
Moreux, V. *see* **Audounet, J., 93j:65145**
Muracchini, Augusto Shock waves formation and stability. (*see* **93a:82002**)
Naugol'nykh, K. A. (*with* Ostrovskiĭ, L. A.) ★ Нелинейные волновые процессы в акустике. (Russian) [Nonlinear wave processes in acoustics] **93a:73030**
Neuvazhaev, V. E. (*with* Parshukov, I. È.) Investigation of Richtmyer-Meshkov instability by the vortex method. (Russian. Russian summary) **93j:76035**
Nishihara, Kenji Asymptotic behavior toward the rarefaction wave of the solutions of the Burgers equation with nonlinear degenerate viscosity. (English summary) **93i:35023**
Ohwada, Taku Structure of normal shock waves: direct numerical analysis of the Boltzmann equation for hard-sphere molecules. (English summary) **93i:76077**
Ostrovskiĭ, L. A. *see* **Naugol'nykh, K. A., 93a:73030**
Pandey, B. D. *see* **Sharma, Rishi Ram; et al.**
Parshukov, I. È. *see* **Neuvazhaev, V. E., 93j:76035**
Parushnikov, V. I. (*with* Radvogin, Yu. B.) Calculation of the three-dimensional steady weakly supersonic gas flow around the leading edge of a pointed body in an associated shock wave regime. (Russian) **93b:76053**
Pego, Robert L. *see* **Harabetian, Eduard, 93m:65118**
Powers, Joseph M. (*with* Gonthier, Keith A.) Reaction zone structure for strong, weak overdriven, and weak underdriven oblique detonations. (English summary) **93d:80005**
Preziosi, Luigi *see* **Monaco, Roberto, 93f:76084**
Przekwas, A. J. *see* **Yang, H. Q., 93e:76055**
Radvogin, Yu. B. *see* **Bessonova, N. Yu., 93b:76052** *and* **Parushnikov, V. I., 93b:76053**
Risebro, Nils Henrik A front-tracking alternative to the random choice method. **93e:35071**
Roytburd, V. On detonation instability. **93k:80014**
Rybakin, B. P. Numerical modeling of the process of high-velocity penetration of an obstacle. (Russian. English, Russian and Moldavian summaries)
Schmidt-Lainé, Cl. *see* **Brauner, C.-M.; et al., 93k:80011**
Schoenfeld, S. *see* **Benson, David Joel, 93i:76052**
Sharma, Rishi Ram (*with* Sharma, V. D.; Pandey, B. D.; Shukla, Pushpa) Approximate and numerical solutions of a gaseous flow with shocks. (English summary)
Sharma, V. D. *see* **Sharma, Rishi Ram; et al.**
She, Zhen Su (*with* Aurell, Erik; Frisch, Uriel) The inviscid Burgers equation with initial data of Brownian type. (English summary) **93h:35182**
Shu, Chi-Wang *see* **Cai, Wei, 93i:76064**
Shukla, Pushpa *see* **Sharma, Rishi Ram; et al.**
Sinai, Ya. G. Statistics of shocks in solutions of inviscid Burgers equation. (English summary) **93h:35183**
Spiegelman, Marc Flow in deformable porous media. I. Simple analysis. (English summary)
— Flow in deformable porous media. II. Numerical analysis—the relationship between shock waves and solitary waves. (English summary)
Stepanova, V. V. *see* **Mikhailov, A. P., 93g:76099**
Szepessy, Anders (*with* Xin, Zhou Ping) Nonlinear stability of viscous shock waves. **93m:35125**
Tan, De Chun (*with* Zhang, Tong) Riemann problem for the self-similar ZND-model in gas dynamical combustion. **93d:80006**
Tanuma, Kazumi Asymptotic formulas for the shock wave of the scalar conservation law with smooth initial data. **93c:35100**
Tarkenton, G. M. *see* **Cramer, M. S., 93e:76046**
Toro, E. F. Riemann problems and the WAF method for solving the two-dimensional shallow water equations. **93a:76079**
Urmancheev, S. F. The influence of interphase interaction in the problem of a discontinuity decay in a gas-saturated porous medium. (Russian) (*see* **93m:00033**)
Varlamov, E. V. (*with* Fedorov, Alexandre V.) A traveling wave in a nonisothermic mixture of two solids. (Russian) **93d:73032**
Voshchin, S. V. A problem on focusing a weak shock wave in an ellipsoid of revolution. (Russian) (*see* **93f:00017**)
Wang, Jing Hua *see* **Lu, Yun Guang, 93a:35105**
Weiland, C. A split-matrix Runge-Kutta type space-marching procedure. (English summary) **93g:76090**
Wendroff, Burton Composite flows. (English summary) **93j:76050**
— An analysis of front tracking for chromatography. (English summary) **93m:65175**
Wolansky, Gershon Stationary and quasi-stationary shock waves for non-spatially homogeneous Burgers equation in the limit of small dissipation. I. **93h:35185**
Xin, Zhou Ping On the linearized stability of viscous shock profiles for systems of conservation laws. (English summary) **93k:35175**
— *see also* **Goodman, Jonathan, 93k:35167**; **Liu, Tai-Ping, 93k:35170** *and* **Szepessy, Anders, 93m:35125**
Yanagi, Shigenori The Riemann problem for a class of conservation laws of van der Waals fluid. **93d:35099**
Yang, H. Q. (*with* Przekwas, A. J.) A comparative study of advanced shock-capturing schemes applied to Burgers' equation. (English summary) **93e:76055**
Yang, J. Y. (*with* Hsu, C. A.; Hui, W. H.) A generalized Lagrangian method for solving the steady shallow water equations. (English summary) **93h:65127**
Zemlyakov, V. V. *see* **Golovachëv, Yu. P.**
Zhang, Tong *see* **Tan, De Chun, 93d:80006**
Zhao, Yan Chun *see* **Li, Da Qian, 93a:76084**

76Mxx Basic methods in fluid mechanics [see also 65–XX]

Abbott, M. B. (*with* Basco, D. R.) ★ Computational fluid dynamics. **93b:76055**
Basco, D. R. *see* **Abbott, M. B., 93b:76055**
Belotserkovskiĭ, O. M. CFD state-of-the-art in the U.S.S.R. **93a:76063**
— CFD state of the art in the USSR. II. (Chinese summary)

(Dervieux, Alain) *see* **Numerical simulation of compressible Euler flows, 93b:76056**
van Leer, Bram The computation of steady solutions to the Euler equations: a perspective. (*see* **93b:76056**)
— *see also* **Numerical simulation of compressible Euler flows, 93b:76056**
(Périaux, Jacques) *see* **Numerical simulation of compressible Euler flows, 93b:76056**
(Rizzi, Arthur) *see* **Numerical simulation of compressible Euler flows, 93b:76056**

Items listed otherwise than by author

Numerical simulation of compressible Euler flows ★ Numerical simulation of compressible Euler flows. **93b:76056**
Rocquencourt ★ Numerical simulation of compressible Euler flows. **93b:76056**
Workshop:
Numerical Simulation of Compressible Euler Flows ★ Numerical simulation of compressible Euler flows. **93b:76056**

Items with secondary classifications in 76Mxx

(Brebbia, C. A.) *see* **Computational methods in viscous aerodynamics, 93e:76001; Computational methods in water resources, 93g:76002** *and* **93g:76003**
(Chan, Tony F. C.) *see* **Proceedings: Conference on Scientific Computation, 93d:65004**
(Ewing, Richard E.) *see* **Computational methods in water resources, 93g:76002** *and* **93g:76003**
(Gray, W. G.) *see* **Computational methods in water resources, 93g:76002** *and* **93g:76003**
Hunt, J. C. R. Developments in computational modelling of turbulent flows. (English summary) **93f:76050**
— *see also* **Turbulence and stochastic processes: Kolmogorov's ideas 50 years on, 93f:76051**
(Lau, Richard L.) *see* **Computational acoustics, 93j:76001**
(Lee, Ding) *see* **Computational acoustics, 93j:76001** *and* **93j:76002**
(Marek, Ivo) *see* **Proceedings: Symposium on Numerical Analysis, 93b:65007**
(Morton, K. W.) *see* **Conference: Numerical Methods in Fluid Dynamics, 93e:76002**
(Murthy, T. K. S.) *see* **Computational methods in hypersonic aerodynamics, 93d:76001** *and* **Computational methods in viscous aerodynamics, 93e:76001**
(Phillips, O. M.) *see* **Turbulence and stochastic processes: Kolmogorov's ideas 50 years on, 93f:76051**
(Pinder, G. F.) *see* **Computational methods in water resources, 93g:76002** *and* **93g:76003**
(Pironneau, Olivier) *see* **Numerical simulation of unsteady flows and transition to turbulence, 93e:76003**
(Robinson, Allan R.) *see* **Computational acoustics, 93j:76001** *and* **93j:76002**
(Rodi, W.) *see* **Numerical simulation of unsteady flows and transition to turbulence, 93e:76003**
(Russell, T. F.) *see* **Computational methods in water resources, 93g:76002** *and* **93g:76003**
(Ryhming, I. L.) *see* **Numerical simulation of unsteady flows and transition to turbulence, 93e:76003**
(Savill, A. M.) *see* **Numerical simulation of unsteady flows and transition to turbulence, 93e:76003**
(Shi, Zhong Ci) *see* **Proceedings: Conference on Scientific Computation, 93d:65004**
(Simon, Horst D.) *see* **Parallel computational fluid dynamics, 93i:76004**
(Truong, T. V.) *see* **Numerical simulation of unsteady flows and transition to turbulence, 93e:76003**
(Vichnevetsky, Robert) *see* **Computational acoustics, 93j:76002**
(Wesseling, Pieter) *see* **Proceedings: Conference on Numerical Methods in Fluid Mechanics, 93b:76002**
(Williams, David) *see* **Turbulence and stochastic processes: Kolmogorov's ideas 50 years on, 93f:76051**

Items listed otherwise than by author

Cambridge, MA ★ Computational acoustics. Vol. 1. **93j:76001**
— ★ Computational acoustics. Vol. 2. **93j:76002**
Computational acoustics ★ Computational acoustics. Vol. 1. **93j:76001**
— ★ Computational acoustics. Vol. 2. **93j:76002**
Computational methods in hypersonic aerodynamics ★ Computational methods in hypersonic aerodynamics. **93d:76001**
Computational methods in viscous aerodynamics ★ Computational methods in viscous aerodynamics. **93e:76001**
Computational methods in water resources ★ Computational methods in water resources. IX. Vol. 1. **93g:76002**
— ★ Computational methods in water resources. IX. Vol. 2. **93g:76003**
Conference:
Computational Methods in Water Resources ★ Computational methods in water resources. IX. Vol. 1. **93g:76002**
— ★ Computational methods in water resources. IX. Vol. 2. **93g:76003**
Numerical Methods in Fluid Dynamics ★ Twelfth International Conference on Numerical Methods in Fluid Dynamics. **93e:76002**
Numerical Methods in Fluid Mechanics ★ Proceedings of the Eighth GAMM-Conference on Numerical Methods in Fluid Mechanics. **93b:76002**
Scientific Computation ★ Proceedings of International Conference on Scientific Computation. **93d:65004**
Delft ★ Proceedings of the Eighth GAMM-Conference on Numerical Methods in Fluid Mechanics. **93b:76002**
Denver, CO ★ Computational methods in water resources. IX. Vol. 1. **93g:76002**
— ★ Computational methods in water resources. IX. Vol. 2. **93g:76003**
Hangzhou ★ Proceedings of International Conference on Scientific Computation. **93d:65004**
IMACS Symposium:
Computational Acoustics ★ Computational acoustics. Vol. 1. **93j:76001**
— ★ Computational acoustics. Vol. 2. **93j:76002**
Lausanne ★ Numerical simulation of unsteady flows and transition to turbulence. **93e:76003**
Lecture Notes in Physics ★ Twelfth International Conference on Numerical Methods in Fluid Dynamics. **93e:76002**
Numerical simulation of unsteady flows and transition to turbulence ★ Numerical simulation of unsteady flows and transition to turbulence. **93e:76003**
Oxford ★ Twelfth International Conference on Numerical Methods in Fluid Dynamics. **93e:76002**
Parallel computational fluid dynamics ★ Parallel computational fluid dynamics. **93i:76004**
Prague ★ Proceedings of the Second International Symposium on Numerical Analysis. **93b:65007**
Proceedings:
Conference on Numerical Methods in Fluid Mechanics ★ Proceedings of the Eighth GAMM-Conference on Numerical Methods in Fluid Mechanics. **93b:76002**
Conference on Scientific Computation ★ Proceedings of International Conference on Scientific Computation. **93d:65004**
Symposium on Numerical Analysis ★ Proceedings of the Second International Symposium on Numerical Analysis. **93b:65007**
Symposium:
Numerical Analysis ★ Proceedings of the Second International Symposium on Numerical Analysis. **93b:65007**
Turbulence and stochastic processes: Kolmogorov's ideas 50 years on ★ Turbulence and stochastic processes: Kolmogorov's ideas 50 years on. **93f:76051**
Workshop:
Numerical Simulation of Unsteady Flows and Transition to Turbulence ★ Numerical simulation of unsteady flows and transition to turbulence. **93e:76003**

76M10 Finite element methods

Aldama, A. A. *see* **Beckie, R.; et al., (93g:76002)**
Baaijens, Frank P. T. A U-ALE formulation of 3-D unsteady viscoelastic flow. (English summary) **93m:76057**
Baker, Allen Jerome *see* **Iannelli, G. S., 93a:76067**
Baranger, Jacques (*with* El Amri, Hassan) A posteriori error estimators for mixed finite element approximation of some quasi-Newtonian flows. (Portuguese summary) **93f:76065**
Baumann, C. E. (*with* Storti, M. A.; Idelsohn, Sergio R.) Improving the convergence rate of the Petrov-Galerkin techniques for the solution of transonic and supersonic flows. **93a:76064**
Beckie, R. (*with* Wood, E. F.; Aldama, A. A.) A multigrid acceleration for domain decomposition mixed finite element simulation of groundwater flow. (English summary) (*see* **93g:76002**)
Behr, M. *see* **Tezduyar, T. E.; et al., 93a:76069a; 93a:76069b** *and* **93h:76050**
Benda, Josef Solution of an ideal compressible fluid flow in a plane cascade by the finite element method. (*see* **93b:65007**)
Benson, David Joel Momentum advection on a staggered mesh. **93b:76057**
— (*with* Schoenfeld, S.) A total variation diminishing shock viscosity. (English summary) **93i:76052**
Bettess, Jacqueline A. *see* **Bettess, Peter, 93g:76077**
Bettess, Peter (*with* Bettess, Jacqueline A.) Infinite elements for dynamic problems. I, II. (English summary) **93g:76077**
Bielak, Jacobo *see* **Zeng, Xiaogang; et al., 93d:76041**
Bless Ranero, Ibrahím (*with* Chacón Rebollo, Tomás) Numerical solution of two-dimensional Euler equations via a Lagrangian finite-element method using an adaptive mesh. (Spanish. Spanish summary) (*see* **93j:00009**)
Cao, Wei Ming *see* **Guo, Ben Yu, 93g:76079**
Carneiro de Araújo, J. H. *see* **Ruas, V., 93a:76068**
Cathers, B. (*with* O'Connor, B. A.) Picard iteration convergence analysis in a Galerkin finite element approximation of the one-dimensional shallow water equations. (English summary) **93i:76053**
Cervera, Miguel *see* **Codina, Ramon; et al., (93j:00009)**
Chabard, J.-P. (*with* Métivet, Brigitte; Pot, G.; Thomas, B.) An efficient finite-element method for the computation of three-dimensional turbulent incompressible flows. **93k:76076**
Chacón Rebollo, Tomás *see* **Bless Ranero, Ibrahím, (93j:00009)**
Chalot, Frédéric L. (*with* Franca, Leopoldo P.; Harari, Isaac; et al.) Calculation of two-dimensional compressible Euler flows with a new Petrov-Galerkin finite element method. (*see* **93b:76056**)
Chang, Ching Lung (*with* Fix, George J.) A mixed finite element method for Stokes problem—acceleration, pressure, formulation. (English summary) **93h:76046**
Cheng, Ai Jie A finite element method for displacement problems involving compressible miscible fluids. (Chinese. English and Chinese summaries) **93h:76047**
Cheng, Xiao Liang (*with* Jiang, Jin Sheng) The velocity-pressure Q_2-Q_1 finite element. (Chinese. English summary) **93d:76038**
(Chung, T. J.) *see* **Finite elements in fluids, 93e:76050**
Ciccoli, M. C. (*with* Fezoui, L.; Désidéri, J.-A.) Efficient methods for inviscid nonequilibrium hypersonic flow fields. (French. English and French summaries) **93f:76066**
Codina, Ramon (*with* Cervera, Miguel; Oñate, Eugenio) A finite-element formulation for the analysis of incompressible viscous flow. (Spanish. Spanish summary) (*see* **93j:00009**)
Désidéri, J.-A. *see* **Ciccoli, M. C.; et al., 93f:76066**
Donéa, J. (*with* Quartapelle, L.) An introduction to finite element methods for transient advection problems. **93a:76065**
Dutto, Laura C. The effect of ordering on preconditioned GMRES algorithm, for solving the compressible Navier-Stokes equations. (English summary) **93h:76048**
El Amri, Hassan *see* **Baranger, Jacques, 93f:76065**
Ewing, Richard E. Finite-element methods for multiphase and multicomponent flows. (*see* **93e:76050**)
Feng, Min Fu *see* **Zhou, Tian Xiao**
Fezoui, L. *see* **Ciccoli, M. C.; et al., 93f:76066**
Fix, George J. *see* **Chang, Ching Lung, 93h:76046**
Fortin, Michel (*with* Mghazli, Z.) Analyse d'un élément mixte pour le problème de Stokes. I. Résultats généraux. (English summary) [Analysis of a mixed element for the Stokes problem. I. General results] **93g:76078**
— (*with* Mghazli, Z.) Analyse d'un élément mixte pour le problème de Stokes. II. Construction et estimations d'erreur. (English summary) [Analysis of a mixed element for the Stokes problem. II. Construction and error estimates] **93i:76054**

Franca, Leopoldo P. (*with* Frey, Sérgio L.) Stabilized finite element methods. II. The incompressible Navier-Stokes equations. (English summary) **93i:76055**
— *see also* **Chalot, Frédéric L.; et al.,** (**93b:76056**)
Frey, Sérgio L. *see* **Franca, Leopoldo P., 93i:76055**
Ganjoo, D. K. *see* **Tezduyar, T. E.; et al., 93h:76050**
Gellert, M. *see* **Harbord, R., 93g:76080**
Glowinski, Roland (*with* Pironneau, Olivier) Finite element methods for Navier-Stokes equations. **93c:76059**
— *see also* **Tezduyar, T. E.; et al., 93h:76050**
Gunzburger, Max D. (*with* Mundt, M.; Peterson, Janet S.) Experiences with finite element methods for the velocity-vorticity formulation of three-dimensional, viscous, incompressible flows. (English summary) **93f:76067**
— (*with* Hou, Steven L.) Treating inhomogeneous essential boundary conditions in finite element methods and the calculation of boundary stresses. **93d:76039**
Guo, Ben Yu (*with* Cao, Wei Ming) A combined spectral-finite element method for solving two-dimensional unsteady Navier-Stokes equations. **93g:76079**
Hansbo, Peter The characteristic streamline diffusion method for convection-diffusion problems. **93a:76066**
Harari, Isaac (*with* Hughes, Thomas J. R.) Galerkin/least-squares finite element methods for the reduced wave equation with nonreflecting boundary conditions in unbounded domains. (English summary) **93c:76060**
— *see also* **Chalot, Frédéric L.; et al.,** (**93b:76056**)
Harbord, R. (*with* Gellert, M.) A simple least-squares method for FE analysis of the Navier-Stokes problem. (English summary) **93g:76080**
Hassan, O. (*with* Morgan, Kenneth; Peraire, J.) Finite-element solution scheme for compressible viscous flow. (*see* **93e:76050**)
Hou, Steven L. *see* **Gunzburger, Max D., 93d:76039**
Hu, K. K. *see* **Wang, Sam S. Y.,** (**93e:76050**)
Hughes, Thomas J. R. *see* **Harari, Isaac, 93c:76060**
Iannelli, G. S. (*with* Baker, Allen Jerome) A non-linearly stable implicit finite element algorithm for hypersonic aerodynamics. **93a:76067**
Idelsohn, Sergio R. *see* **Baumann, C. E.; et al., 93a:76064**
Jensen, Soren S. *p*-version of mixed finite element methods for Stokes-like problems. (English summary) **93m:76058**
Jiang, Bo-Nan Nonoscillatory and nondiffusive solution of convection problems by the iteratively reweighted least-squares finite element method. (English summary) **93k:76077**
Jiang, Jin Sheng *see* **Cheng, Xiao Liang, 93d:76038**
Johnson, Claes The characteristic streamline diffusion finite element method. (English and Portuguese summaries) **93f:76068**
Karam Filho, José (*with* Loula, Abimael F. D.) On stable equal-order finite element formulations for incompressible flow problems. **93e:76049**
Legat, Vincent (*with* Marchal, Jean-Marie) Die design: an implicit formulation for the inverse problem. (English summary) **93i:76056**
Liang, Dong A characteristics mixed finite element method of numerical simulation for 2-phase immiscible flow. **93d:76040**
Liou, Jianntyng *see* **Tezduyar, T. E.; et al., 93a:76069a**; **93a:76069b** *and* **93h:76050**
Löhner, Rainald Adaptive remeshing for transient problems with moving bodies. (*see* **93e:76050**)
Loula, Abimael F. D. *see* **Karam Filho, José, 93e:76049**
MacCamy, Richard C. *see* **Zeng, Xiaogang; et al., 93d:76041**
Manolis, G. D. *see* **Pelekasis, N. A.; et al., 93c:76061**
Marchal, Jean-Marie *see* **Legat, Vincent, 93i:76056**
Métivet, Brigitte *see* **Chabard, J.-P.; et al., 93k:76076**
Mghazli, Z. *see* **Fortin, Michel, 93g:76078** *and* **93i:76054**
Mittal, S. *see* **Tezduyar, T. E.; et al., 93a:76069b**
Morgan, Kenneth *see* **Hassan, O.; et al.,** (**93e:76050**)
Mundt, M. *see* **Gunzburger, Max D.; et al., 93f:76067**
Nečas, Jindřich Finite element approach to the transonic flow problem. (*see* **93b:65007**)
Neta, B. Analysis of finite elements and finite differences for shallow water equations: a review. (English summary) **93g:76081**
O'Connor, B. A. *see* **Cathers, B., 93i:76053**
Oñate, Eugenio *see* **Codina, Ramon; et al.,** (**93j:00009**)
Ortiz, P. A Taylor-Galerkin implicit-explicit generalisation for convective diffusion equations. (English summary) (*see* **93g:76002**)
Pelekasis, N. A. (*with* Tsamopoulos, J. A.; Manolis, G. D.) A hybrid finite-boundary element method for inviscid flows with free surface. **93c:76061**
Peraire, J. *see* **Hassan, O.; et al.,** (**93e:76050**)
Peterson, Janet S. *see* **Gunzburger, Max D.; et al., 93f:76067**
Pironneau, Olivier *see* **Glowinski, Roland, 93c:76059**
Pot, G. *see* **Chabard, J.-P.; et al., 93k:76076**
Quartapelle, L. *see* **Donéa, J., 93a:76065**
Ramaswamy, B. *see* **Srinivas, C.; et al.,** (**93g:76002**)
Rizza, A. Numerical analysis of a self-adaptive formulation for the viscous/inviscid coupling. **93b:76058**
Ruas, V. Finite-element methods for three-dimensional incompressible viscous flow. **93h:76049**
— (*with* Carneiro de Araújo, J. H.) An improved method for the simulation of viscoelastic flow with quadrilateral finite elements. (Spanish. English summary) **93a:76068**
Rylov, A. A. Convergence of the finite element method for equations of a nonhomogeneous viscous fluid. (Russian. Russian summary) **93k:76078**
Sauter, Stefan (*with* Wittum, Gabriel) A multigrid method for the computation of eigenmodes of closed water basins. **93c:76062**
Schoenfeld, S. *see* **Benson, David Joel, 93i:76052**
Shapiro, Richard A. ★ Adaptive finite element solution algorithm for the Euler equations. **93b:76059**
Sigurdsson, S. Treatment of the convective term in staggered finite element schemes for shallow water flow. (*see* **93g:76002**)
Srinivas, C. (*with* Ramaswamy, B.; Wheeler, Mary Fanett) Mixed finite element methods for flow through unsaturated porous media. (English summary) (*see* **93g:76002**)
Storti, M. A. *see* **Baumann, C. E.; et al., 93a:76064**
Tezduyar, T. E. Stabilized finite element formulations for incompressible flow computations. **93f:76069**
— (*with* Liou, Jianntyng; Ganjoo, D. K.; Behr, M.; Glowinski, Roland) Unsteady incompressible flow computations with the finite-element method. **93h:76050**
— (*with* Behr, M.; Liou, Jianntyng) A new strategy for finite element computations involving moving boundaries and interfaces—the deforming-spatial-domain/space-time procedure. I. The concept and the preliminary numerical tests. **93a:76069a**
— (*with* Behr, M.; Mittal, S.; Liou, Jianntyng) A new strategy for finite element computations involving moving boundaries and interfaces—the deforming-spatial-domain/space-time procedure. II. Computation of free-surface flows, two-liquid flows, and flows with drifting cylinders. **93a:76069b**
Thomas, B. *see* **Chabard, J.-P.; et al., 93k:76076**
Tsamopoulos, J. A. *see* **Pelekasis, N. A.; et al., 93c:76061**
Wang, Sam S. Y. (*with* Hu, K. K.) Improved methodology for formulating finite-element hydrodynamic models. (*see* **93e:76050**)
Wheeler, Mary Fanett *see* **Srinivas, C.; et al.,** (**93g:76002**)
Wittum, Gabriel *see* **Sauter, Stefan, 93c:76062**
Wood, E. F. *see* **Beckie, R.; et al.,** (**93g:76002**)
Wu, J. *see* **Zienkiewicz, O. C., 93d:76042**
Yuan, Yi Rang Finite element-characteristic method and analysis for a compressible miscible displacement problem in porous media. (English summary) **93g:76082**
Zeng, Xiaogang (*with* Bielak, Jacobo; MacCamy, Richard C.) Unified symmetric finite element and boundary integral variational coupling methods for linear fluid-structure interaction. (English summary) **93d:76041**
Zhou, Tian Xiao (*with* Feng, Min Fu) A penalty stabilized finite element method for the Navier-Stokes equations. (Chinese. English summary)
Zienkiewicz, O. C. (*with* Wu, J.) A general explicit or semi-explicit algorithm for compressible and incompressible flows. (English summary) **93d:76042**

Items listed otherwise than by author

Conference:
Finite Element Methods in Flow Problems ★ Finite elements in fluids. Vol. 8. **93e:76050**
Finite elements in fluids ★ Finite elements in fluids. Vol. 8. **93e:76050**
Huntsville, AL ★ Finite elements in fluids. Vol. 8. **93e:76050**

Items with secondary classifications in 76M10

Achdou, Yves (*with* Glowinski, Roland; Pironneau, Olivier) Tuning the mesh of a mixed method for the stream function. Vorticity formulation of the Navier-Stokes equations. (English summary) **93m:65165**
Alduncin, G. Primal and mixed upwind finite element approximations of control advection-diffusion problems. (English summary) **93m:76062**
Aleksandrova, N. I. Approximation of boundary conditions in problems of hydroelasticity. (Russian. English summary) **93c:73076**
(Aliabadi, M. Hosseini) *see* **Adaptive finite and boundary element methods, 93m:65005**
Audounet, J. (*with* Moreux, V.) Petrov-Galerkin type finite element approximations of K-diagonalizable hyperbolic systems: applications to multidimensional Euler equations. (French. English and French summaries) **93j:65145**
Babuška, Ivo M. *see* **Szabo, Barna A., 93f:73001**
Bank, Randolph E. (*with* Santos, Rafael F.) Analysis of some moving space-time finite element methods. (English summary) **93m:65141**
Baranger, Jacques (*with* Sandri, D.) Finite element approximation of viscoelastic fluid flow: existence of approximate solutions and error bounds. I. Discontinuous constraints. (English summary) **93k:65090**
Baruzzi, G. *see* **Strigberger, J.; et al., 93k:76093**
Bernardi, Christine (*with* Laval, Frédéric; Métivet, Brigitte; Pernaud-Thomas, Bernadette) Finite element approximation of viscous flows with varying density. (English and French summaries) **93g:65143**
Blom, J. G. *see* **Zegeling, P. A., 93j:65155**
Blum, Heribert Defect correction schemes for mixed and nonconforming finite elements. (English summary) **93f:65072**
Böhm, Michael On the Galerkin-method in intermediate spaces for the initial-boundary value problem of the Navier-Stokes equations in two dimensions. **93a:65126**
(Brebbia, C. A.) *see* **Adaptive finite and boundary element methods, 93m:65005**
Bristeau, Marie Odile (*with* Glowinski, Roland; Dutto, Laura C.; Périaux, Jacques; Rogé, G.) On recent numerical simulations of compressible Navier-Stokes flows. (English summary) **93f:76074**
Cai, Xiao-Chuan Additive Schwarz algorithms for parabolic convection-diffusion equations. **93a:65127**
Cao, Wei Ming *see* **Guo, Ben Yu, 93b:65148**; **93b:76072** *and* **93j:65159**
Cao, Yan Zhao (*with* Huang, Ming You) On finite element approximation for the bifurcation solution of free convection problem. (*see* **93b:65006**)
Carneiro de Araújo, J. H. *see* **Ruas, V.; et al., 93j:65211**
Chalot, Frédéric L. (*with* Hughes, Thomas J. R.) Analysis of hypersonic flows in thermo-chemical equilibrium by application of the Galerkin/least-squares formulation. (*see* **93b:00026**)
Cheng, Bin Numerical simulation of the Korteweg-de Vries equation with the Petrov-Galerkin finite element method. (Chinese. English summary) **93c:65114**
Cheng, Xiao Liang *see* **Jiang, Jin Sheng, 93b:65141**
Chernyi, N. I. *see* **Lyashko, I. I., 93h:76072**
Coussement, Grégory *see* **Jacquotte, Olivier-Pierre, 93h:76056**
Deineka, V. S. *see* **Sergienko, I. V.; et al., 93g:65159**
Demkowicz, Leszek *see* **Edwards, Michael G.; et al., 93m:65142**
Dukowicz, John K. (*with* Dvinsky, Arkady S.) Approximate factorization as a high order splitting for the implicit incompressible flow equations. (English summary) **93g:76092**
Dutto, Laura C. *see* **Bristeau, Marie Odile; et al., 93f:76074**
Dvinsky, Arkady S. *see* **Dukowicz, John K., 93g:76092**
D'yakonov, E. G. ★ Минимизация вычислительной работы. Асимптотически оптимальные алгоритмы для эллиптических задач. (Russian) [Minimization of computational work. Asymptotically optimal algorithms for elliptic problems] **93e:65136**
Edwards, Michael G. (*with* Oden, J. Tinsley; Demkowicz, Leszek) An h-r-adaptive

approximate Riemann solver for the Euler equations in two dimensions. (English summary) **93m:65142**

Eriksson, Kenneth (*with* Johnson, Claes) Adaptive streamline diffusion finite element methods for stationary convection-diffusion problems. **93d:65095**

Falk, Richard S. (*with* Richter, Gerard R.) Local error estimates for a finite element method for hyperbolic and convection-diffusion equations. **93e:65137**

Feng, Min Fu *see* **Zhou, Tian Xiao; et al., 93g:65149** *and* **93h:65141**

Fortin, Michel (*with* Pierre, R.) Stability analysis of discrete generalized Stokes problems. **93b:65139**

— *see also* **Strigberger, J.; et al., 93k:76093**

Franca, Leopoldo P. (*with* Karam Filho, José; Loula, Abimael F. D.; Stenberg, R.) A convergence analysis of a stabilized method for the Stokes flow. (Portuguese summary) **93b:65168**

Gastaldi, Lucia A domain decomposition method associated with the streamline diffusion FEM for linear hyperbolic systems. (English summary) **93j:65144**

Givi, Peyman *see* **McMurtry, Patrick A., (93e:76050)**

Givoli, Dan A spatially exact nonreflecting boundary condition for time dependent problems. **93a:65151**

Glowinski, Roland Finite element methods for the numerical simulation of incompressible viscous flow. Introduction to the control of the Navier-Stokes equations. **93b:65140**

— Ensuring well-posedness by analogy: Stokes problem and boundary control for the wave equation. (English summary) **93j:65179**

— *see also* **Bristeau, Marie Odile; et al., 93f:76074** *and* **Achdou, Yves; et al., 93m:65165**

Goubet, Olivier Séparation des variables dans le problème de Stokes. Application à son approximation multiéchelles éléments finis. (English and French summaries) [Separation of variables in the Stokes problem. Application to its multiscale finite-element approximation] **93j:65180**

Guo, Ben Yu (*with* Cao, Wei Ming) Spectral-finite element method for solving three-dimensional vorticity equations. **93b:65148**

— (*with* Cao, Wei Ming) Spectral-finite element method for compressible fluid flow. (Chinese. English and Chinese summaries) **93j:65159**

— (*with* Cao, Wei Ming) Spectral-finite element method for compressible fluid flows. (French summary) **93b:76072**

— *see also* **Ma, He Ping, 93m:65144**

Habashi, W. G. *see* **Strigberger, J.; et al., 93k:76093**

Hämäläinen, Jari ★ Mathematical modelling and simulation of fluid flows in the headbox of paper machines.

Hansbo, Peter *see* **Johnson, Claes, 93m:65157**

Harari, Isaac (*with* Hughes, Thomas J. R.) What are C and h?: inequalities for the analysis and design of finite element methods. **93g:65122**

— (*with* Hughes, Thomas J. R.) A cost comparison of boundary element and finite element methods for problems of time-harmonic acoustics. (English summary) **93h:76067**

Hebeker, F.-K. (*with* Wilde, P.) On missing boundary conditions with unsteady incompressible Navier-Stokes flows. (English summary) **93h:35158**

Heinrich, Juan C. *see* **Pepper, Darrell W., 93f:65001**

Hou, LiSheng *see* **Manouzi, Hassan, 93m:65145**

Huang, Ming You *see* **Cao, Yan Zhao, (93b:65006)**

Hugger, Jens Adaptive recovery of near optimal meshes in the finite element method for parameter dependent problems. (English summary) **93h:65138**

Hughes, Thomas J. R. *see* **Harari, Isaac, 93g:65122; 93h:76067** *and* **Chalot, Frédéric L., (93b:00026)**

Huijben, A. J. M. *see* **Kaasschieter, E. F., 93b:65169**

Jacquotte, Olivier-Pierre (*with* Coussement, Grégory) Structured mesh adaption: space accuracy and interpolation methods. (English summary) **93h:76056**

Jiang, Jin Sheng (*with* Cheng, Xiao Liang) On the stability of biquadratic-bilinear velocity-pressure finite elements. **93b:65141**

Johnson, Claes (*with* Hansbo, Peter) Adaptive finite element methods in computational mechanics. (English summary) **93m:65157**

— *see also* **Eriksson, Kenneth, 93d:65095**

Kaasschieter, E. F. (*with* Huijben, A. J. M.) Mixed-hybrid finite elements and streamline computation for the potential flow problem. **93b:65169**

Karam Filho, José (*with* Loula, Abimael F. D.) A nonstandard application of Babuška-Brezzi theory to finite element analysis of Stokes problem. (English and Portuguese summaries) **93c:65117**

— *see also* **Franca, Leopoldo P.; et al., 93b:65168**

Kato, Yasumasa (*with* Tanahashi, Takahiko) Finite element analysis of natural convection in concentric horizontal annuli using simultaneous relaxation of velocity and Bernoulli function. (Japanese. English summary) (*see* **93f:65027**)

Kim, J. *see* **Park, J.-h.; et al., (93b:65002)**

Koh, H. M. *see* **Park, J.-h.; et al., (93b:65002)**

Laminie, Jacques (*with* Pascal, Frédéric; Temam, Roger) Nonlinear Galerkin method with finite element approximation. (*see* **93e:76002**)

Laval, Frédéric *see* **Bernardi, Christine; et al., 93g:65143**

Levin, Orit *see* **Neuman, S. P.; et al., (93g:76003)**

Lin, Tao (*with* Wang, Hong) Solving a source term inverse problem of the diffusion equations by the interpolated quadratic finite element method. (*see* **93g:76002**)

Liu, Ke-shun *see* **Sun, Che, (93b:65006)**

Lodge, A. S. (*with* Pritchard, W. G.; Scott, L. R.) Corrigendum to: "The hole-pressure problem" [IMA J. Appl. Math. **46** (1991), no. 1-2, 39–66; MR 92b:76025]. **93k:76029**

Loula, Abimael F. D. *see* **Franca, Leopoldo P.; et al., 93b:65168** *and* **Karam Filho, José, 93c:65117**

Lube, G. Streamline diffusion finite element method for quasilinear elliptic problems. **93c:65143**

— An asymptotically fitted finite element method for convection dominated convection-diffusion-reaction problems. (German and Russian summaries) **93b:65143**

Lyashko, I. I. (*with* Chernyĭ, N. I.) A numerical method for solving problems of nonstationary filtration. (Russian. English and Russian summaries) **93h:76072**

Ma, He Ping (*with* Guo, Ben Yu) Combined finite element and pseudospectral method for the three-dimensional Navier-Stokes equations. (English summary) **93m:65144**

Mackerle, Jaroslav Finite and boundary elements and supercomputing—a bibliography (1989–1991). (English summary)

Manouzi, Hassan Analyse des solutions non singulières d'une formulation mixte des équations de Navier-Stokes. (English summary) [Analysis of the nonsingular solutions of a mixed formulation of the Navier-Stokes equations] **93d:35121**

— (*with* Hou, LiSheng) Resolution of the Navier-Stokes equations in vorticity-velocity formulation via control techniques. (English summary) **93m:65145**

McCormick, Stephen F. ★ Multilevel projection methods for partial differential equations. **93b:65137**

McMurtry, Patrick A. (*with* Givi, Peyman) Direct numerical simulations of a reacting turbulent mixing layer by a pseudospectral-spectral element method. (*see* **93e:76050**)

Métivet, Brigitte *see* **Bernardi, Christine; et al., 93g:65143**

Migórski, Stanisław (*with* Schaefer, Robert) The existence aspects of Dupuit and Boussinesq filtration models using finite element method. (*see* **93e:76002**)

Moreux, V. *see* **Audounet, J., 93j:65145**

Morton, K. W. (*with* Murdoch, T.; Süli, Endre) Optimal error estimation for Petrov-Galerkin methods in two dimensions. **93e:65138**

Murdoch, T. *see* **Morton, K. W.; et al., 93e:65138**

Neuman, S. P. (*with* Orr, S.; Levin, Orit; Paleologos, E.) Theory and high-resolution finite element analysis of 2-D and 3-D effective permeabilities in strongly heterogeneous porous media. (English summary) (*see* **93g:76003**)

Oden, J. Tinsley *see* **Edwards, Michael G.; et al., 93m:65142**

Orr, S. *see* **Neuman, S. P.; et al., (93g:76003)**

Paleologos, E. *see* **Neuman, S. P.; et al., (93g:76003)**

Park, J.-h. (*with* Koh, H. M.; Kim, J.) Fluid-structure interaction analysis by a coupled boundary element-finite element method in time domain. (English summary) (*see* **93b:65002**)

Pascal, Frédéric *see* **Laminie, Jacques; et al., (93e:76002)**

Pepper, Darrell W. (*with* Heinrich, Juan C.) ★ The finite element method. **93f:65001**

Périaux, Jacques *see* **Bristeau, Marie Odile; et al., 93f:76074**

Pernaud-Thomas, Bernadette *see* **Bernardi, Christine; et al., 93g:65143**

Pierre, R. *see* **Fortin, Michel, 93b:65139**

Pironneau, Olivier *see* **Achdou, Yves; et al., 93m:65165**

Pozrikidis, C. ★ Boundary integral and singularity methods for linearized viscous flow. **93a:76027**

Pritchard, W. G. *see* **Lodge, A. S.; et al., 93k:76029**

Puzhaĭ, A. M. *see* **Sergienko, I. V.; et al., 93g:65159**

Quarteroni, Alfio (*with* Sacchi Landriani, Giovanni; Valli, Alberto) Coupling of viscous and inviscid Stokes equations via a domain decomposition method for finite elements. **93b:65190**

— Numerical methods in fluid-dynamics. (Italian) **93g:76095**

Rank, E. Adaptivity and accuracy estimation for FEM and BIEM. (*see* **93m:65005**)

Richter, Gerard R. *see* **Falk, Richard S., 93e:65137**

Rogé, G. *see* **Bristeau, Marie Odile; et al., 93f:76074**

Ruas, V. (*with* Carneiro de Araújo, J. H.; Silva Ramos, M. A. M.) Approximation of the three-field Stokes system via optimized quadrilateral finite elements. (English and French summaries) **93j:65211**

Rusten, Torgeir (*with* Winther, Ragnar) Mixed finite element methods and domain decomposition. (English summary) (*see* **93g:76002**)

Sacchi Landriani, Giovanni *see* **Quarteroni, Alfio; et al., 93b:65190**

Sandri, D. *see* **Baranger, Jacques, 93k:65090**

Santos, Rafael F. *see* **Bank, Randolph E., 93m:65141**

Schaefer, Robert *see* **Migórski, Stanisław, (93e:76002)**

Schulkes, R. M. S. M. Interactions of an elastic solid with a viscous fluid: eigenmode analysis. **93d:73057**

Scott, L. R. *see* **Lodge, A. S.; et al., 93k:76029**

Sergienko, I. V. (*with* Deĭneka, V. S.; Skopetskiĭ, V. V.; Puzhaĭ, A. M.) Modeling and investigation of physical processes in structures with thin inhomogeneous inclusions. (Russian. English and Russian summaries) **93g:65159**

Sheen, Dongwoo Finite element methods for an acoustic well-logging problem associated with a porous medium saturated by a two-phase immiscible fluid. (English summary)

Silva Ramos, M. A. M. *see* **Ruas, V.; et al., 93j:65211**

Sivaloganathan, S. A finite-element, parameter stepping solution procedure for the steady-state Boussinesq equations. (English summary) **93e:65140**

Skopetskiĭ, V. V. *see* **Sergienko, I. V.; et al., 93g:65159**

Stenberg, R. *see* **Franca, Leopoldo P.; et al., 93b:65168**

Strigberger, J. (*with* Baruzzi, G.; Habashi, W. G.; Fortin, Michel) Some special purpose preconditioners for conjugate gradient-like methods applied to CFD. (English summary) **93k:76093**

Süli, Endre *see* **Morton, K. W.; et al., 93e:65138**

Sun, Che (*with* Liu, Ke-shun) The characteristic-finite element analysis for nonlinear convection-diffusion problems. (*see* **93b:65006**)

Szabo, Barna A. (*with* Babuška, Ivo M.) ★ Finite element analysis. **93f:73001**

Szymkiewicz, R. Solution of the advection-diffusion equation using the spline function and finite elements. (English summary)

Tanahashi, Takahiko *see* **Kato, Yasumasa, (93f:65027)**

Temam, Roger *see* **Laminie, Jacques; et al., (93e:76002)**

Vainikko, Eero (*with* Vainikko, Gennadi) Some numerical schemes for the identification of the filtration coefficient. (Russian summary) **93c:65132**

Vainikko, Gennadi *see* **Vainikko, Eero, 93c:65132**

Valli, Alberto *see* **Quarteroni, Alfio; et al., 93b:65190**

Wang, Hong *see* **Lin, Tao, (93g:76002)**

Wilde, P. *see* **Hebeker, F.-K., 93h:35158**

Winther, Ragnar *see* **Rusten, Torgeir, (93g:76002)**

Xie, C.-H. (*with* Zhu, X. Y.) Numerical solution of SUPG finite element method for unsaturated flow. (English summary) (*see* **93g:76002**)

Xiong, Hua Xin *see* **Zhou, Tian Xiao; et al., 93g:65149**

Yang, Dan Ping Approximation and its optimal error estimate of displacement of two-phase incompressible flow by mixed finite element and a modified method of characteristics.

— Coupled finite element and characteristics methods for displacement problems of two-phase flow in porous media, and error estimates for them. (Chinese. English and Chinese

summaries) **93j:65189**

Yang, Dao Qi A characteristic mixed method with dynamic finite-element space for convection-dominated diffusion problems. (English summary) **93k:65079**

Zegeling, P. A. (*with* Blom, J. G.) An evaluation of the gradient-weighted moving-finite-element method in one space dimension. (English summary) **93j:65155**

Zhang, Tie Mixed mesh finite elements for solving the stationary Stokes problem. (Chinese. English summary) **93e:65120**

Zhou, Tian Xiao (*with* Feng, Min Fu; Xiong, Hua Xin) A new approach to stability of finite elements under divergence constraints. **93g:65149**

— (*with* Feng, Min Fu) A least squares Petrov-Galerkin finite element method for the stationary Navier-Stokes equations. **93h:65141**

Zhu, X. Y. *see* **Xie, C.-H., (93g:76002)**

Items listed otherwise than by author

Adaptive finite and boundary element methods ★ Adaptive finite and boundary element methods. **93m:65005**

76M15 Boundary element methods

Abousleiman, Y. (*with* Cheng, A. H.-D.; Roegiers, J. C.) Boundary element method for viscoporoelasticity with rock mechanics applications. (English summary) (*see* **93b:65002**)

Al-Shemmeri, T. T. Error analysis of boundary element solutions for free-surface flows. (English summary) (*see* **93b:65002**)

Alujević, A. *see* **Rek, Z.; et al., (93i:76003)** *and* **Škerget, P.; et al., (93i:76003)**

Bottcher, C. *see* **Werby, Michael F.; et al., (93b:65002)**

Brebbia, C. A. *see* **ElHarrouni, K.; et al., (93b:65002)** *and* **Partridge, P. W., (93g:76002)**

Broadhead, M. K. *see* **Werby, Michael F.; et al., (93b:65002)**

Budnik, A. M. (*with* Polevikov, V. K.) Modeling of a free surface of annular magnetofluid seals by means of the boundary element method. (Russian. Russian summary) **93i:76057**

Cabral, J. J. S. P. (*with* Wrobel, L. C.; Montenegro, A. A. A.) A case study of saltwater intrusion in a long and thin aquifer. (English summary) (*see* **93b:65002**)

Chen, F. Determination of velocity distribution of an incompressible fluid in an elliptical pipe by boundary elements. (English summary) (*see* **93b:65002**)

Cheng, A. H.-D. *see* **Abousleiman, Y.; et al., (93b:65002)**

ElHarrouni, K. (*with* Ouazar, D.; Wrobel, L. C.; Brebbia, C. A.) Dual reciprocity boundary element method for heterogeneous porous media. (English summary) (*see* **93b:65002**)

Fujikawa, T. A method of discretization in the boundary element method for analysis of a sound field having adjacent elements. (*see* **93b:65008**)

Geller, A. S. *see* **Mondy, L. A.; et al., (93b:65002)**

Gramann, P. J. (*with* Mätzig, J. C.; Osswald, T. A.) Boundary element simulation of the mixing process of polymer blends. (English summary) (*see* **93b:65002**)

Han, Qing Shu Boundary element method of 3-D low-Reynolds-number viscous fluid flow. (*see* **93b:65008**)

— *see also* **Yang, De Quan; et al., (93b:65008)** *and* **Lin, Chang Sheng, (93b:65008)**

Huang, Yu Ying *see* **Liu, Zhi Hong, (93b:65008)**

Ingber, Marc S. (*with* Li, J.) A method of regularization of the hypersingular integral contained in the traction boundary integral equation for the Stokes flow problem. (English summary) (*see* **93b:65002**)

— (*with* Mondy, L. A.) Direct second kind boundary integral formulation for Stokes flow problems. (English summary) **93i:76058**

Jia, Z. H. *see* **Wu, T. W., (93b:65002)**

Jin, Zai Lu *see* **Wu, Qiong, (93b:65008)**

Kim, J. *see* **Park, J.-h.; et al., (93b:65002)**

Koh, H. M. *see* **Park, J.-h.; et al., (93b:65002)**

Li, J. *see* **Ingber, Marc S., (93b:65002)**

Li, W. L. (*with* Wu, T. W.; Seybert, A. F.) Boundary element analysis of acoustic radiation and scattering in half space using a generalized Green's function. (English summary) (*see* **93b:65002**)

Lin, Chang Sheng (*with* Han, Qing Shu) Numerical simulations of separating low-Reynolds-number viscous fluid flow. (*see* **93b:65008**)

Liu, Wei Qian *see* **Sun, Shen Chu, (93b:65008)**

Liu, Zhi Hong (*with* Huang, Yu Ying) An arbitrary Lagrangian-Eulerian boundary element method for large-amplitude sloshing problems. (*see* **93b:65008**)

Lobitz, D. W. *see* **Segalman, D. J., (93b:65002)**

Lou, Zhi Wen *see* **Zang, Yue Long, (93b:65008)**

Manga, M. *see* **Tanzosh, J.; et al., (93b:65002)**

Martinez, M. J. A boundary integral method for steady unsaturated flow in nonhomogeneous media. (English summary) (*see* **93b:65002**)

Mattheij, R. M. M. *see* **van de Vorst, G. A. L., (93b:65002)**

Mätzig, J. C. *see* **Gramann, P. J.; et al., (93b:65002)**

Mondy, L. A. (*with* Geller, A. S.; Rader, D. J.) Application of boundary element techniques to the motion of aerosol particles. (English summary) (*see* **93b:65002**)

— *see also* **Ingber, Marc S., 93i:76058**

Montenegro, A. A. A. *see* **Cabral, J. J. S. P.; et al., (93b:65002)**

Osswald, T. A. *see* **Gramann, P. J.; et al., (93b:65002)**

Ouazar, D. *see* **ElHarrouni, K.; et al., (93b:65002)**

Park, J.-h. (*with* Koh, H. M.; Kim, J.) Fluid-structure interaction analysis by a coupled boundary element-finite element method in time domain. (English summary) (*see* **93b:65002**)

Partridge, P. W. (*with* Brebbia, C. A.) The dual reciprocity boundary element method for the diffusion convection equation. (English summary) (*see* **93g:76002**)

Phan-Thien, N. *see* **Tullock, D., (93b:65002)**

Polevikov, V. K. *see* **Budnik, A. M., 93i:76057**

de Power, B. F. *see* **Power, Henry, (93b:65002)**

Power, Henry (*with* de Power, B. F.) The completed second kind boundary integral equation method for the deformation of a gas bubble due to low Reynolds number flow. (English summary) (*see* **93b:65002**)

Rader, D. J. *see* **Mondy, L. A.; et al., (93b:65002)**

Rek, Z. (*with* Skerget, L.; Alujević, A.) Vorticity-velocity formulation for turbulent flow by BEM. (English summary) (*see* **93i:76003**)

— *see also* **Škerget, P.; et al., (93i:76003)**

Roegiers, J. C. *see* **Abousleiman, Y.; et al., (93b:65002)**

Segalman, D. J. (*with* Lobitz, D. W.) SuperCHIEF: a modified CHIEF method. (English summary) (*see* **93b:65002**)

Seybert, A. F. *see* **Li, W. L.; et al., (93b:65002)**

Skerget, L. *see* **Rek, Z.; et al., (93i:76003)**

Škerget, P. (*with* Alujević, A.; Žagar, I.; Rek, Z.) Computational fluid dynamics by the boundary-domain integral method. (*see* **93i:76003**)

Sorokin, S. V. The asymptotic analysis of a two-level system of boundary integral equations for structural-acoustic coupling problems. (English summary) (*see* **93b:65002**)

Stone, H. A. *see* **Tanzosh, J.; et al., (93b:65002)**

Strayer, M. R. *see* **Werby, Michael F.; et al., (93b:65002)**

Sugino, R. *see* **Tosaka, N., (93b:65008)**

Sun, Shen Chu (*with* Liu, Wei Qian) Numerical analysis for wave forces by boundary element method. (*see* **93b:65008**)

Tanzosh, J. (*with* Manga, M.; Stone, H. A.) Boundary integral methods for viscous free-boundary problems: deformations of single and multiple fluid-fluid interfaces. (English summary) (*see* **93b:65002**)

Tosaka, N. (*with* Sugino, R.) Boundary element analysis of potential flow with nonlinear free surface. (*see* **93b:65008**)

Tullock, D. (*with* Phan-Thien, N.) A completed double layer boundary element method with domain decomposition. (English summary) (*see* **93b:65002**)

van de Vorst, G. A. L. (*with* Mattheij, R. M. M.) A BDF-BEM scheme for modelling viscous sintering. (English summary) (*see* **93b:65002**)

Wang, Hong A boundary element method for steady-state two-dimensional Stokes flows and its asymptotic error estimates. (English summary) **93k:76079**

Wang, Min Zhong *see* **Xu, Xin Sheng, (93b:65008)**

Werby, Michael F. (*with* Broadhead, M. K.; Strayer, M. R.; Bottcher, C.) Solution of the Helmholtz-Poincaré wave equation using the coupled boundary integral equations and optimal surface eigenfunctions. (English summary) (*see* **93b:65002**)

Wrobel, L. C. *see* **Cabral, J. J. S. P.; et al., (93b:65002)** *and* **ElHarrouni, K.; et al., (93b:65002)**

Wu, Bao Lin *see* **Yang, De Quan; et al., (93b:65008)**

Wu, James C. Boundary elements and viscous flows. (English summary) (*see* **93b:65002**)

Wu, Qiong (*with* Jin, Zai Lu) Numerical analysis on sloshing problem by boundary element method and perturbation method. (*see* **93b:65008**)

Wu, T. W. (*with* Jia, Z. H.) A choice of practical approaches to overcome the nonuniqueness problem of the BEM in acoustic radiation and scattering. (English summary) (*see* **93b:65002**)

— *see also* **Li, W. L.; et al., (93b:65002)**

Xing, Peng Ling *see* **Yang, De Quan; et al., (93b:65008)**

Xu, Xin Sheng (*with* Wang, Min Zhong) The direct and indirect boundary element methods for solutions of Stokes flow. (*see* **93b:65008**)

Yang, De Quan (*with* Zhang, Gou You; Wu, Bao Lin; Xing, Peng Ling; Han, Qing Shu) Boundary element analysis of hydrodynamical characteristics of lubricant in special shaped bearings. (*see* **93b:65008**)

Žagar, I. *see* **Škerget, P.; et al., (93i:76003)**

Zang, Yue Long (*with* Lou, Zhi Wen) Three-dimensional ship wave-making problem by two-dimensional boundary element method. (*see* **93b:65008**)

Zhang, Gou You *see* **Yang, De Quan; et al., (93b:65008)**

Items with secondary classifications in 76M15

Achard, J.-L. *see* **Canot, E., 93d:76053**

(Aliabadi, M. Hosseini) *see* **Adaptive finite and boundary element methods, 93m:65005**

Amini, S. *see* **Chen, Ke, 93i:65115**

Bassanini, P. (*with* Casciola, C. M.; Lancia, M. R.; Piva, R.) A boundary integral formulation for the kinetic field in aerodynamics. I. Mathematical analysis. **93f:76060**

Bielak, Jacobo *see* **Zeng, Xiaogang; et al., 93d:76041**

Boulton-Stone, J. M. A comparison of boundary integral methods for studying the motion of a two-dimensional bubble in an infinite fluid. (English summary) **93k:76007**

(Brebbia, C. A.) *see* **Boundary element technology, 93b:65002; Boundary elements in fluid dynamics, 93i:76003; Adaptive finite and boundary element methods, 93m:65005** *and* **Boundary element methods in acoustics**

Canot, E. (*with* Achard, J.-L.) An overview of boundary integral formulations for potential flows in fluid-fluid systems. **93d:76053**

Canuto, Claudio (*with* Russo, Alessandro) A viscous-inviscid coupling under mixed boundary conditions. (English summary) **93j:76024**

Casciola, C. M. *see* **Bassanini, P.; et al., 93f:76060**

Chen, Ke (*with* Amini, S.) Numerical analysis of boundary integral solution of the Helmholtz equation in domains with nonsmooth boundaries. (English summary) **93i:65115**

Cheng, A. H.-D. (*with* Cui, L.) Green's function for axisymmetric poroelasticity and coupled thermoelasticity. (English summary) (*see* **93b:65002**)

(Ciskowski, R. D.) *see* **Boundary element methods in acoustics**

Cormack, Donald E. *see* **Rosen, Dan, 93m:65163**

Cui, L. *see* **Cheng, A. H.-D., (93b:65002)**

Demkowicz, Leszek (*with* Karafiat, A.; Oden, J. Tinsley) Solution of elastic scattering problems in linear acoustics using *h-p* boundary element method. (English summary) **93j:73028**

(Du, Qing Hua) *see* **Theory and applications of boundary element methods, 93b:65008**

Frincu, Guerino The solution of Stokes equation by the boundary element method. (English summary) **93g:65152**

— Stokes equation study by integral equations method. (English summary) **93g:65153**

Harari, Isaac (*with* Hughes, Thomas J. R.) A cost comparison of boundary element and finite element methods for problems of time-harmonic acoustics. (English summary) **93h:76067**

Ho, Lee-Wing (*with* Maday, Yvon; Patera, Anthony T.; Rønquist, Einar M.) A high-order Lagrangian-decoupling method for the incompressible Navier-Stokes equations. (English summary) (*see* **93d:65005**)

Hughes, Thomas J. R. *see* **Harari, Isaac, 93h:76067**

(Ingber, Marc S.) *see* **Boundary element technology, 93b:65002**
Ingham, D. B. *see* **Yuan, Y., (93i:76003)**
Karafiat, A. *see* **Demkowicz, Leszek; et al., 93j:73028**
Krishnasamy, G. (*with* Rizzo, F. J.; Rudolphi, T. J.) Continuity requirements for density functions in the boundary integral equation method. (English summary) **93k:73089**
Lancia, M. R. *see* **Bassanini, P.; et al., 93f:76060**
Li, Gongqin A boundary integral method for an interface problem in acoustic propagation. (English summary) **93m:65162**
Liu, Yijun (*with* Rizzo, F. J.) A weakly singular form of the hypersingular boundary integral equation applied to 3-D acoustic wave problems. **93b:76077**
MacCamy, Richard C. *see* **Zeng, Xiaogang; et al., 93d:76041**
Mackerle, Jaroslav Finite and boundary elements and supercomputing—a bibliography (1989–1991). (English summary)
Maday, Yvon *see* **Ho, Lee-Wing; et al., (93d:65005)**
Manolis, G. D. *see* **Pelekasis, N. A.; et al., 93c:76061**
Mattheij, R. M. M. *see* **van de Vorst, G. A. L., 93k:76034**
Nachbin, A. (*with* Papanicolaou, G. C.) Boundary element method for long-time water wave propagation over rapidly varying bottom topography. **93b:76012**
Oden, J. Tinsley *see* **Demkowicz, Leszek; et al., 93j:73028**
Papanicolaou, G. C. *see* **Nachbin, A., 93b:76012**
(Partridge, P. W.) *see* **Boundary elements in fluid dynamics, 93i:76003**
Patera, Anthony T. *see* **Ho, Lee-Wing; et al., (93d:65005)**
Pelekasis, N. A. (*with* Tsamopoulos, J. A.; Manolis, G. D.) A hybrid finite-boundary element method for inviscid flows with free surface. **93c:76061**
Petrila, Titus On the application of complex variable boundary element method to the theory of profiles. **93d:30049**
Piva, R. *see* **Bassanini, P.; et al., 93f:76060**
de Power, B. F. *see* **Power, Henry, 93i:76033**
Power, Henry (*with* de Power, B. F.) Second-kind integral equation formulation for the slow motion of a particle of arbitrary shape near a plane wall in a viscous fluid. (English summary) **93i:76033**
Price, W. G. (*with* Tan, Ming-Yi) Fundamental viscous solutions or "transient oseenlets" associated with a body manoeuvring in a viscous fluid. (English summary) **93g:76048**
Rank, E. Adaptivity and accuracy estimation for FEM and BIEM. (*see* **93m:65005**)
Rizzo, F. J. *see* **Liu, Yijun, 93b:76077** *and* **Krishnasamy, G.; et al., 93k:73089**
Rønquist, Einar M. *see* **Ho, Lee-Wing; et al., (93d:65005)**
Rosen, Dan (*with* Cormack, Donald E.) Singular and near singular integrals in the BEM: a global approach. (English summary) **93m:65163**
Rudolphi, T. J. *see* **Krishnasamy, G.; et al., 93k:73089**
Russo, Alessandro *see* **Canuto, Claudio, 93j:76024**
Tan, Hong *see* **Zhu, Jia Lin; et al., (93b:65006)** *and* **(93b:65008)**
Tan, Ming-Yi *see* **Price, W. G., 93g:76048**
(Tanaka, Masataka) *see* **Theory and applications of boundary element methods, 93b:65008**
Tsamopoulos, J. A. *see* **Pelekasis, N. A.; et al., 93c:76061**
van de Vorst, G. A. L. (*with* Mattheij, R. M. M.) Numerical analysis of a 2-D viscous sintering problem with nonsmooth boundaries. (English and German summaries) **93k:76034**
Xia, Jun Fei *see* **Zhu, Jia Lin; et al., (93b:65006)**
Yan, Yi A fast boundary integral equation method for the 2-D Helmholtz equation. (English summary) **93m:65164**
Yuan, Y. (*with* Ingham, D. B.) The boundary element solution of a viscous free surface problem. (English summary) (*see* **93i:76003**)
Yuan, Zheng Qiang *see* **Zhu, Jia Lin; et al., (93b:65006)** *and* **(93b:65008)**
Zeng, Xiaogang (*with* Bielak, Jacobo; MacCamy, Richard C.) Unified symmetric finite element and boundary integral variational coupling methods for linear fluid-structure interaction. (English summary) **93d:76041**
Zhu, Jia Lin (*with* Tan, Hong; Yuan, Zheng Qiang) A mixed boundary-domain elements analysis for two-dimensional convection-diffusion equation. (*see* **93b:65008**)
— (*with* Yuan, Zheng Qiang; Xia, Jun Fei; Tan, Hong) Boundary element method for numerical solution of steady Navier-Stokes equations. (*see* **93b:65006**)

Items listed otherwise than by author

Adaptive finite and boundary element methods ★ Adaptive finite and boundary element methods. **93m:65005**
Albuquerque, NM ★ Boundary element technology. VII. **93b:65002**
Beijing ★ Theory and applications of boundary element methods. **93b:65008**
Boundary element methods in acoustics ★ Boundary element methods in acoustics.
Boundary element technology ★ Boundary element technology. VII. **93b:65002**
Boundary elements in fluid dynamics ★ Boundary elements in fluid dynamics. **93i:76003**
Conference:
Boundary Element Technology ★ Boundary element technology. VII. **93b:65002**
Southampton ★ Boundary elements in fluid dynamics. **93i:76003**
Symposium:
Boundary Element Methods ★ Theory and applications of boundary element methods. **93b:65008**
Theory and applications of boundary element methods ★ Theory and applications of boundary element methods. **93b:65008**

76M20 Finite difference methods

Abgrall, Rémi *see* **Chargy, D.; et al., 93g:76083**
Ban, Octavian Une solution numérique des équations de Navier-Stokes stationnaires. [A numerical solution of the stationary Navier-Stokes equations] **93j:76043**
Baumann, C. E. *see* **Storti, M. A.; et al., 93a:76073**
Bezrukov, A. A. Application of quasimonotone difference schemes of the second order of approximation in the modeling of discontinuous gas dynamic flows. (Russian. Russian summary)
Blunt, Martin (*with* Rubin, Barry) Implicit flux limiting schemes for petroleum reservoir simulation. (English summary) **93e:76051**
Chargy, D. (*with* Abgrall, Rémi; Fezoui, L.; Larrouturou, Bernard) Conservative numerical schemes for multicomponent inviscid flows. (French. English and French summaries) **93g:76083**
Cheer, A. Y. *see* **Saleem, M.; et al., 93g:76089**
Chen, Guo Qian (*with* Yang, Zhi Feng) The compact second-order upwind finite difference schemes for the convection-diffusion equations. (English summary)
— (*with* Gao, Zhi; Yang, Zhi Feng) A perturbational h^4 exponential finite difference scheme for the convective diffusion equation. (English summary) **93g:76084**
— (*with* Yang, Zhi Feng) A perturbational fourth-order upwind finite difference scheme for the convection-diffusion equation. (English summary)
Chévrier, P. (*with* Galley, H.) A van Leer finite volume scheme for the Euler equations on unstructured meshes. (English and French summaries) **93k:76080**
Choo, Joshua Y. (*with* Schultz, David H.) A stable high-order method for the heated cavity problem. (English summary) **93g:76085**
Danaev, N. T. (*with* Smagulov, Sh. S.) A procedure for the numerical solution of Navier-Stokes equations in (ψ, ω) variables. (Russian. Russian summary) **93i:76059**
Dedesh, V. V. The use of a polynomial representation of the numerical viscosity matrix for constructing Godunov-type schemes. (Russian. Russian summary) **93i:76060**
Dendy, J. E., Jr. *see* **Morel, Jim Emanuel; et al., 93i:76061**
Drobot, Adam *see* **Lottati, Itzhak; et al., (93g:76001)**
Dutoya, D. (*with* Errera, M. P.) A formal decomposition of the Jacobian matrix of the Euler equations. Application to upwind numerical schemes. (French. English and French summaries) **93f:76070**
Edigarov, A. S. Numerical computation of the turbulent flow of a cold heavy gas in the atmosphere. (Russian) **93a:76070**
Eidelman, Shmuel *see* **Lottati, Itzhak; et al., (93g:76001)**
Errera, M. P. *see* **Dutoya, D., 93f:76070**
Fabre, Sylvie Stability analysis of the Euler-Poisson equations. **93e:76052**
Favorskii, A. P. *see* **Samarskii, A. A.; et al., (93e:76002)**
Ferrell, Robert C. *see* **Richardson, John L.; et al., 93g:76088**
Fezoui, L. *see* **Chargy, D.; et al., 93g:76083**
Galley, H. *see* **Chévrier, P., 93k:76080**
Gao, Zhi *see* **Chen, Guo Qian; et al., 93g:76084**
Glaister, P. A shock capturing scheme for steady, supercritical, free-surface flow. (English summary) **93f:76071**
— An algorithm for the shallow water equations with body fitted meshes. (English summary) **93f:76072**
— A finite difference scheme for steady, supersonic, two-dimensional, compressible flow of real gases. **93b:76060**
— An efficient Riemann solver for unsteady flows with nonideal gases. **93e:76053**
Glassey, Robert Approximate solutions to the Zakharov equations via finite differences. **93a:76071**
Hall, Michael L. *see* **Morel, Jim Emanuel; et al., 93i:76061**
Hariharan, S. I. (*with* Ping, Yu; Scott, J. R.) Time domain numerical calculations of unsteady vortical flows about a flat plate airfoil. **93d:76043**
Hemker, P. W. *see* **Koren, B., (93d:76001)**
Hui, W. H. (*with* Loh, Ching-Yuen) A new Lagrangian method for steady supersonic flow computation. II. Slip-line resolution. (English summary) **93j:76044a**
— (*with* Loh, Ching-Yuen) A new Lagrangian method for steady supersonic flow computation. III. Strong shocks. **93j:76044b**
Idelsohn, Sergio R. *see* **Storti, M. A.; et al., 93a:76073**
Jeng, Yih Nen (*with* Liou, Yuan Chang) A new adaptive grid generation by elliptic equations with orthogonality at all of the boundaries. **93c:76063**
— (*with* Payne, Uon Jien) The application of the locally implicit method to upwind TVD schemes. (English summary) **93m:76059**
Khakimzyanov, G. S. *see* **Shokin, Yu. I., (93b:76002)**
Koren, B. (*with* Hemker, P. W.) Efficient multigrid computation of steady hypersonic flows. (English summary) (*see* **93d:76001**)
Korobitsyn, V. A. Numerical modeling of axisymmetric potential flows of an incompressible fluid. (Russian. English summary) **93a:76072**
Kozel, K. (*with* Vavřincová, M.) Finite volume solution of the Euler equations. (*see* **93b:65007**)
Krause, Egon The solution to the problem of vortex breakdown. (English summary) **93e:76054**
Larrouturou, Bernard *see* **Chargy, D.; et al., 93g:76083**
Lecointe, Y. (*with* Piquet, J.) Computation of unsteady, laminar, incompressible, viscous flows using the vorticity streamfunction formulation. (English summary) **93f:76073**
van Leer, Bram *see* **Rumsey, Christopher L.; et al., 93m:76060**
Lele, Sanjiva K. Compact finite difference schemes with spectral-like resolution. (English summary) **93g:76086**
Lerat, A. (*with* Sidès, J.) Implicit transonic calculations without artificial viscosity or upwinding. (*see* **93b:76056**)
Levin, M. P. (*with* Sidorov, L. V.) A method for calculating three-dimensional supersonic flows in pyramidal nozzles. (Russian. Russian summary) **93h:76051**
Liou, Meng Sing *see* **Loh, Ching-Yuen, 93g:76087**
Liou, Yuan Chang *see* **Jeng, Yih Nen, 93c:76063**
Loh, Ching-Yuen (*with* Liou, Meng Sing) Lagrangian solution of supersonic real gas flows. (English summary) **93g:76087**
— *see also* **Hui, W. H., 93j:76044a** *and* **93j:76044b**
Loktionova, N. Yu. (*with* Ryazanov, M. A.) A difference scheme on arbitrary moving grids for equations of magnetohydrodynamics with an azimuthal field. (Russian. Russian summary) (*see* **93f:00006**)
Long, Lyle N. *see* **Richardson, John L.; et al., 93g:76088**
Lottati, Itzhak (*with* Eidelman, Shmuel; Drobot, Adam) Solution of Euler's equations on adaptive grids using a fast unstructured grid second order Godunov solver (FUGGS). (English summary) (*see* **93g:76001**)
Lu, Jin Fu *see* **Wang, Guang De, 93d:76044**
Mel'nik, S. I. Investigation of an explicit difference scheme for the nonstationary Stokes problem. (Russian) **93b:76061**
Men'shov, I. S. Increasing the accuracy of the Godunov scheme for computing steady

supersonic gas flows on the basis of the solution of the generalized Riemann problem. (Russian) **93b:76062**

Morel, Jim Emanuel (*with* Dendy, J. E., Jr.; Hall, Michael L.; White, Stephen W.) A cell-centered Lagrangian-mesh diffusion differencing scheme. (English summary) **93i:76061**

Moskal'kov, M. N. (*with* Utebaev, D.) Comparison of the dispersion properties of certain difference schemes for a two-dimensional acoustic system. (Russian)

Müller, Wolfdietrich Numerical simulation of turbulent flow and matter transfer in a 3D water circulation model. **93b:76063**

Ovcharova, A. S. *see* **Voevodin, A. F., 93j:76045**

Pavlov, A. N. *see* **Vabishchevich, P. N., 93h:76053**

Payne, Uon Jien *see* **Jeng, Yih Nen, 93m:76059**

Peskin, Charles S. (*with* Printz, Beth Feller) Improved volume conservation in the computation of flows with immersed elastic boundaries. (English summary) **93k:76081**

Ping, Yu *see* **Hariharan, S. I.; et al., 93d:76043**

Piquet, J. *see* **Lecointe, Y., 93f:76073**

Printz, Beth Feller *see* **Peskin, Charles S., 93k:76081**

Przekwas, A. J. *see* **Yang, H. Q., 93e:76055**

Puckett, E. G. (*with* Saltzman, J. S.) A 3D adaptive mesh refinement algorithm for multimaterial gas dynamics. (English summary) **93i:76062**

Pulliam, Thomas H. *see* **Saleem, M.; et al., 93g:76089**

Qin, Ning (*with* Richards, Bryan E.) Sparse quasi-Newton method for Navier-Stokes solution. (*see* **93b:76002**)

Richards, Bryan E. *see* **Qin, Ning, (93b:76002)**

Richardson, John L. (*with* Ferrell, Robert C.; Long, Lyle N.) Unconditionally stable explicit algorithms for nonlinear fluid dynamics problems. (English summary) **93g:76088**

Roe, Philip L. *see* **Rumsey, Christopher L.; et al., 93m:76060**

Rubin, Barry *see* **Blunt, Martin, 93e:76051**

Rumsey, Christopher L. (*with* van Leer, Bram; Roe, Philip L.) A multidimensional flux function with applications to the Euler and Navier-Stokes equations. (English summary) **93m:76060**

Ryazanov, M. A. *see* **Loktionova, N. Yu., (93f:00006)**

Saleem, M. (*with* Pulliam, Thomas H.; Cheer, A. Y.) Acceleration of convergence and spectrum transformation of implicit finite difference operators associated with Navier-Stokes equations. (English summary) **93g:76089**

Saltzman, J. S. *see* **Puckett, E. G., 93i:76062**

Samarskiĭ, A. A. (*with* Favorskiĭ, A. P.; Tishkin, V. F.; Vasilevskiĭ, V. F.; Vyaznikov, K. V.) Construction high order monotonous difference schemes on nonregular grids. (*see* **93e:76002**)

Schultz, David H. *see* **Choo, Joshua Y., 93g:76085**

Scott, J. R. *see* **Hariharan, S. I.; et al., 93d:76043**

Semënov, A. Yu. (*with* Sharipov, A. K.) ★ Гибридный разностный метод для численного решения задач радиационной газовой динамики. (Russian) [A hybrid difference method for the numerical solution of problems of radiative gas dynamics] **93b:76064**

Sharipov, A. K. *see* **Semënov, A. Yu., 93b:76064**

Shcheprov, A. V. Calculation of a flow of a viscous fluid on adaptive grids. (Russian) **93c:76064**

— Calculation of a two-dimensional analogue of a Couette flow. (Russian. Russian summary)

Shen, Jie A remark on the projection-3 method. (English summary) **93k:76082**

Shokin, Yu. I. (*with* Khakimzyanov, G. S.) Numerical calculation of stationary subsonic gas dynamics problems. (*see* **93b:76002**)

Sidès, J. *see* **Lerat, A., (93b:76056)**

Sidorov, L. V. *see* **Levin, M. P., 93h:76051**

Smagulov, Sh. S. *see* **Danaev, N. T., 93i:76059**

Storti, M. A. (*with* Baumann, C. E.; Idelsohn, Sergio R.) A preconditioning mass matrix to accelerate the convergence to the steady Euler solutions using explicit schemes. **93a:76073**

Swanson, Roy Charles (*with* Turkel, Eli) On central-difference and upwind schemes. **93c:76065**

Thompson, C. P. A parallel adaptive multigrid algorithm for the incompressible Navier-Stokes equations. (English summary) (*see* **93m:65006**)

Tishkin, V. F. *see* **Samarskiĭ, A. A.; et al., (93e:76002)**

Tsertsvadze, G. Z. Convergence of a completely conservative difference scheme for equations of gas dynamics in Euler variables. (Russian. Russian summary) **93h:76052**

Turkel, Eli *see* **Swanson, Roy Charles, 93c:76065**

Utebaev, D. *see* **Moskal'kov, M. N.**

Vabishchevich, P. N. (*with* Pavlov, A. N.) Computational generation of orthogonal grids for the calculation of plane flows in channels. (Russian. Russian summary) **93h:76053**

Vasilevskiĭ, V. F. *see* **Samarskiĭ, A. A.; et al., (93e:76002)**

Vavřincová, M. *see* **Kozel, K., (93b:65007)**

Voevodin, A. F. (*with* Ovcharova, A. S.) Calculation of the vorticity function on the boundary of a closed circular domain. (Russian. Russian summary) **93j:76045**

— Stability and realization of Thom conditions for the Stokes difference boundary value problem. (Russian. Russian summary) **93j:76046**

Vyaznikov, K. V. *see* **Samarskiĭ, A. A.; et al., (93e:76002)**

Wang, Guang De (*with* Lu, Jin Fu) A characteristic-difference method for solving vorticity equations for stream functions. (Chinese. English summary) **93d:76044**

Weiland, C. A split-matrix Runge-Kutta type space-marching procedure. (English summary) **93g:76090**

White, Stephen W. *see* **Morel, Jim Emanuel; et al., 93i:76061**

Wu, Xiong Hua Calculation of shocked one-dimensional flows by the bisection method. (English summary) (*see* **93d:65004**)

Yang, H. Q. (*with* Przekwas, A. J.) A comparative study of advanced shock-capturing schemes applied to Burgers' equation. (English summary) **93e:76055**

Yang, Zhi Feng *see* **Chen, Guo Qian; et al., 93g:76084**

Items with secondary classifications in 76M20

Bank, Randolph E. (*with* Benbourenane, Mohamed) The hierarchical basis multigrid method for convection-diffusion equations. **93d:65106**

Barron, R. M. *see* **Hamdan, M. H., 93b:76083**

Baruzzi, G. *see* **Strigberger, J.; et al., 93k:76093**

Bayada, Guy *see* **Jai, M.; et al., 93g:65130**

Beckers, J. M. Analytical linear numerical stability conditions for an anisotropic three-dimensional advection-diffusion equation. **93a:65133**

Benbourenane, Mohamed *see* **Bank, Randolph E., 93d:65106**

Benson, David Joel Momentum advection on a staggered mesh. **93b:76057**

Bernard, Robert S. A MacCormack scheme for incompressible flow. **93d:76045**

Bessonova, N. Yu. (*with* Radvogin, Yu. B.) A marching method for computing three-dimensional steady flows in problems of supersonic flow. (Russian) **93b:76052**

Blokhin, A. M. (*with* Tsimerman, V. R.) Investigation of some differential-difference models for a system of acoustic equations. (Russian. Russian summary) (*see* **93b:00021**)

Brandt, Achi (*with* Yavneh, I.) On multigrid solution of high-Reynolds incompressible entering flows. **93d:76046**

Bristeau, Marie Odile (*with* Glowinski, Roland; Dutto, Laura C.; Périaux, Jacques; Rogé, G.) On recent numerical simulations of compressible Navier-Stokes flows. (English summary) **93f:76074**

Cao, Wei Ming *see* **Guo, Ben Yu; et al., 93d:76048**

Causon, D. M. *see* **Clarke, N.; et al., (93b:76002)**

Chambat, Michèle *see* **Jai, M.; et al., 93g:65130**

Chen, Yung Ming *see* **Zhu, Jian-Ping[2], (93g:65178)**

Chernyshov, S. L. *see* **Zakharchuk, V. T.; et al., (93f:00006)**

Choo, Joshua Y. (*with* Schultz, David H.) Stable high order methods for differential equations with small coefficients for the second order terms. (English summary) **93j:65209**

Chou, Mo Hong An efficient scheme for unsteady flow past an object with boundary conformal to a circle. **93b:65053**

Čiegis, Raimondas (*with* Čiupaila, Regimantas J.) The conditional minimization method for the numerical solution of a nonstationary problem with free boundaries. (Russian. English and Lithuanian summaries) **93b:65089**

Čiupaila, Regimantas J. *see* **Čiegis, Raimondas, 93b:65089**

Clarke, N. (*with* Saunders, Robert; Causon, D. M.) A convenient entropy satisfying T.V.D. scheme for computational aerodynamics. (*see* **93b:76002**)

Cohen, Gary (*with* Joly, Patrick) Fourth order schemes for the heterogeneous acoustics equation. (*see* **93d:65005**)

(Crowley, W. P.) *see* **Advances in the free-Lagrange method, 93g:76001**

Das, S. K. (*with* Lardner, R. W.) Variational parameter estimation for a two-dimensional numerical tidal model.

Deconinck, H. *see* **Struijs, R. J., (93b:76002)**

Demkowicz, Leszek *see* **Edwards, Michael G.; et al., 93m:65142**

Désidéri, J.-A. The computation over unstructured grids of inviscid hypersonic reactive flow by upwind finite-volume schemes. (English summary) **93k:76072**

Devdariani, M. T. *see* **Goncharov, A. L.; et al., 93b:76024**

Dey, S. K. A massively parallel algorithm for large-scale nonlinear computation with applications to nonlinear parabolic partial differential equations. (English summary) **93m:65068**

Dhar, Ranajit (*with* Sinha, D. K.) Some aspects of stability in atmospheric dispersion problems. (English summary) **93i:86003**

Douglas, Jim, Jr. (*with* Paes-Leme, P. J.) Finite difference methods for a model for immiscible displacement in naturally fractured petroleum reservoirs. (English and Portuguese summaries) **93i:65084**

Dutto, Laura C. *see* **Bristeau, Marie Odile; et al., 93f:76074**

Dzhgamadze, N. O. (*with* Popov, A. V.) Convergence of a difference scheme for two-dimensional equations of gas dynamics. (Russian) **93i:76074**

Eberle, Albrecht (*with* Rizzi, Arthur; Hirschel, Ernst Heinrich) ★ Numerical solutions of the Euler equations for steady flow problems. **93f:76081**

Edwards, Michael G. (*with* Oden, J. Tinsley; Demkowicz, Leszek) An *h-r*-adaptive approximate Riemann solver for the Euler equations in two dimensions. (English summary) **93m:65142**

Ersland, Brit Gunn (*with* Teigland, Rune) Comparison of two cell-centered multigrid schemes for problems with discontinuous coefficients. (English summary)

Feodoritova, O. B. *see* **Zhukov, V. T.; et al., 93c:76070**

Fortin, Michel *see* **Strigberger, J.; et al., 93k:76093**

(Fritts, M. J.) *see* **Advances in the free-Lagrange method, 93g:76001**

Fryazinov, I. V. *see* **Goncharov, A. L.; et al., 93b:76024**

Gardner, Carl L. *see* **Wang, Feng; et al., 93c:73040**

Gastaldi, Lucia A domain decomposition method associated with the streamline diffusion FEM for linear hyperbolic systems. (English summary) **93j:65144**

Geörg, Stefan Typical numerical problems arising with the treatment of ill conditioned partial differential equations by the example of the MHD-equations. (English summary) (*see* **93i:65006**)

Gladkii, A. V. *see* **Sergienko, I. V.; et al., 93g:65132**

Glaister, P. Second order accurate upwind difference schemes for scalar conservation laws with source terms. (English summary) **93m:65117**

Glowinski, Roland *see* **Bristeau, Marie Odile; et al., 93f:76074**

Goncharov, A. L. (*with* Devdariani, M. T.; Prostomolotov, A. I.; Fryazinov, I. V.) Approximation and a numerical method for the solution of three-dimensional Navier-Stokes equations on orthogonal grids. (Russian. English summary) **93b:76024**

Grell, Georg A. *see* **Smolarkiewicz, Piotr K., 93e:76061**

Grundmann, R. Introduction to three-dimensional boundary layers. (English summary) **93f:76031**

Guo, Ben Yu (*with* Xiong, Yue Shan) A spectral-difference method for solving the three-dimensional vorticity equation. I. (Chinese summary) **93b:65149**

— (*with* Xiong, Yue Shan) A spectral-difference method for solving the three-dimensional vorticity equation. II. (Chinese summary) **93b:65150**

— (*with* Ma, He Ping; Cao, Wei Ming; Huang, Hui) The Fourier-Chebyshev spectral method for solving two-dimensional unsteady vorticity equations. **93d:76048**

— *see also* **Huang, Wei[2], 93h:65143**

Habashi, W. G. *see* **Strigberger, J.; et al., 93k:76093**

Hagmeijer, R. *see* **Spekreijse, S. P., (93b:76002)**

Hall, Charles A. (*with* Ye, Xiu) Construction of null bases for the divergence operator associated with incompressible Navier-Stokes equations. **93c:65142**

Hamdan, M. H. (*with* Barron, R. M.) Applications of von Mises coordinates in porous media flow. **93b:76083**
Han, Hou De (*with* Il'in, V. P.; Kellogg, R. B.; Yuan, Wei) Analysis of flow directed iterations. **93c:65048**
Harabetian, Eduard A subcell resolution method for viscous systems of conservation laws. (English summary) **93i:76068**
— (*with* Pego, Robert L.) Nonconservative hybrid shock capturing schemes. (English summary) **93m:65118**
Harten, Ami Recent developments in shock-capturing schemes. **93c:65122**
Hazins, V. M. (*with* Svetsov, V. V.) A conservative stable smoothness-enhancing free-Lagrangian method. (English summary) **93k:76086**
Henley, Gregory J. (*with* Janus, J. Mark) Parallelization and convergence of a 3D implicit unsteady turbomachinery flow code. (English summary) (*see* **93g:65178**)
Hirschel, Ernst Heinrich *see* **Eberle, Albrecht; et al., 93f:76081**
Ho, Lee-Wing (*with* Maday, Yvon; Patera, Anthony T.; Rønquist, Einar M.) A high-order Lagrangian-decoupling method for the incompressible Navier-Stokes equations. (English summary) (*see* **93d:65005**)
Hou, Thomas Y. (*with* Wetton, Brian T. R.) Convergence of a finite difference scheme for the Navier-Stokes equations using vorticity boundary conditions. **93b:65125**
Hsu, C. A. *see* **Yang, J. Y.; et al., 93h:65127**
Hua, Xue Jiao *see* **Li, Rong Hua, (93b:65006)**
Huang, Hui *see* **Guo, Ben Yu; et al., 93d:76048**
Huang, Wei² (*with* Guo, Ben Yu) The spectral-difference method for Navier-Stokes equations. (English summary) **93h:65143**
Hui, W. H. *see* **Yang, J. Y.; et al., 93h:65127**
Il'in, V. P. *see* **Han, Hou De; et al., 93c:65048**
Ivanov, M. Ya. (*with* Krupa, V. G.) Calculation of the three-dimensional interaction between a shock wave and a boundary layer on a cylinder. (Russian) **93d:76037**
Jai, M. (*with* Bayada, Guy; Chambat, Michèle) The L.P.D.E.M., a mixed finite difference method for elliptic problems. (English summary) **93g:65130**
Jain, Mahinder Kumar (*with* Jain, Rajinder Kumar; Mohanty, R. K.) Fourth-order finite difference method for three-dimensional elliptic equations with nonlinear first-derivative terms. (English summary) **93h:65128**
Jain, Rajinder Kumar *see* **Jain, Mahinder Kumar; et al., 93h:65128**
Janus, J. Mark *see* **Henley, Gregory J., (93g:65178)**
Johansson, B. Christer V. Boundary conditions for open boundaries for the incompressible Navier-Stokes equation. (English summary) **93m:76064**
Joly, Patrick *see* **Cohen, Gary, (93d:65005)**
Kashiwa, Bryan (*with* Lee, Wen Ho) Comparisons between the cell-centered and staggered mesh Lagrangian hydrodynamics. (English summary) (*see* **93g:76001**)
Kellogg, R. B. *see* **Han, Hou De; et al., 93c:65048**
Klein, Rupert *see* **Ting, L., 93a:76025**
Kobel'kov, G. M. Numerical methods for solving Navier-Stokes equations in velocity-pressure variables. (Russian) **93b:76025**
Kolkka, Robert W. *see* **Malkus, David S.; et al., (93e:76050)**
Korobitsyn, V. A. Completely conservative axisymmetric difference schemes in curvilinear orthogonal coordinate systems. (Russian) **93b:65128**
Koterov, V. N. (*with* Krasnovskii, A. G.) A spectral-difference method for computing acoustic perturbations induced by a local heat source in a moving medium. (Russian) **93d:65089**
Krasnovskii, A. G. *see* **Koterov, V. N., 93d:65089**
Krõner, Dietmar About splitting and nonsplitting schemes for conservation laws in 2-D. (*see* **93b:76002**)
Krupa, V. G. *see* **Ivanov, M. Ya., 93d:76037**
Kucher, N. A. The weak approximation method for multidimensional equations of gas dynamics. (Russian. Russian summary) **93d:76057**
Lardner, R. W. *see* **Das, S. K.**
Lee, Wen Ho *see* **Kashiwa, Bryan, (93g:76001)**
LeVeque, Randall J. Cartesian grids and rotated difference methods for multi-dimensional flow. (English summary) **93g:65119**
Levin, M. P. (*with* Sidorov, L. V.) ★ Расчет сверхзвуковых течений в пирамидальных соплах. (Russian) [Computation of supersonic flows in pyramidal nozzles] **93a:76061**
— A quasicharacteristic difference scheme and its application for computing supersonic gas flows. (Russian. Russian summary) **93m:65137**
Li, Rong Hua (*with* Hua, Xue Jiao) Generalized upwind difference methods for convection-dominated diffusion problems. (*see* **93b:65006**)
Li, Zhi Liang *see* **Yang, Zhong Hua¹, (93b:65006)**
Lin, Tao Physical and numerical interfaces in the numerical simulation of wave propagations. (English summary) **93m:65124**
Lindsay, K. A. (*with* Ogden, R. R.) A practical implementation of spectral methods resistant to the generation of spurious eigenvalues. (English summary) **93f:65059**
Liseikin, V. D. On the construction of regular grids on n-dimensional surfaces. (Russian) **93c:65112**
Liu, Ru Xun The design of characterizing-integral schemes and the application to the shallow water wave problems. (Chinese. English summary) **93c:65111**
Lodge, A. S. (*with* Pritchard, W. G.; Scott, L. R.) Corrigendum to: "The hole-pressure problem" [IMA J. Appl. Math. **46** (1991), no. 1-2, 39–66; MR 92b:76025]. **93k:76029**
Lohéac, J.-P. (*with* Nataf, Frédéric; Schatzman, Michelle) Parabolic approximations of the convection-diffusion equation. **93h:65129**
Lötstedt, Per Grid independent convergence of the multigrid method for first-order equations. (English summary) **93g:65076**
Ma, He Ping *see* **Guo, Ben Yu; et al., 93d:76048**
Maday, Yvon *see* **Ho, Lee-Wing; et al., (93d:65005)**
Malkus, David S. (*with* Tsai, Yi-Cheng; Kolkka, Robert W.) New transient algorithms for non-Newtonian flows. (*see* **93e:76050**)
Mamunya, L. A. A nonlinear problem of the filtration of a gas with a variable coefficient of gas permeability. (Ukrainian. Russian and Ukrainian summaries) **93d:76066**
Mastin, C. Wayne Linear variational methods and adaptive grids.
Mayo, Anita A. (*with* Peskin, Charles S.) An implicit numerical method for fluid dynamics problems with immersed elastic boundaries. (English summary) **93k:76132**
McQueen, David M. *see* **Peskin, Charles S., 93k:76133**
Militzer, Julio *see* **Sun, Yu Ping, 93h:65157**
Mohanty, R. K. *see* **Jain, Mahinder Kumar; et al., 93h:65128**
Nataf, Frédéric *see* **Lohéac, J.-P.; et al., 93h:65129**
Nekhamkina, O. A. (*with* Strelets, M. Kh.) Numerical modeling of detonation waves by means of an efficient TVD-scheme. (Russian. Russian summary) **93m:80001**
Neta, B. Analysis of finite elements and finite differences for shallow water equations: a review. (English summary) **93g:76081**
Oden, J. Tinsley *see* **Edwards, Michael G.; et al., 93m:65142**
Ogden, R. R. *see* **Lindsay, K. A., 93f:65059**
Ohwada, Taku Structure of normal shock waves: direct numerical analysis of the Boltzmann equation for hard-sphere molecules. (English summary) **93i:76077**
Ostapenko, V. V. Expansion of the difference solution on the front of a traveling shock wave. (Russian) **93h:76045**
Paes-Leme, P. J. *see* **Douglas, Jim, Jr., 93i:65084**
Parushnikov, V. I. (*with* Radvogin, Yu. B.) Calculation of the three-dimensional steady weakly supersonic gas flow around the leading edge of a pointed body in an associated shock wave regime. (Russian) **93b:76053**
Patera, Anthony T. *see* **Ho, Lee-Wing; et al., (93d:65005)**
Pego, Robert L. *see* **Harabetian, Eduard, 93m:65118**
Périaux, Jacques *see* **Bristeau, Marie Odile; et al., 93f:76074**
Peskin, Charles S. (*with* McQueen, David M.) Computational biofluid dynamics. (English summary) **93k:76133**
— *see also* **Tu, Cheng, 93g:76097** *and* **Mayo, Anita A., 93k:76132**
Popov, A. V. *see* **Dzhgamadze, N. O., 93i:76074**
Pritchard, W. G. *see* **Lodge, A. S.; et al., 93k:76029**
Prostomolotov, A. I. *see* **Goncharov, A. L.; et al., 93b:76024**
Pumir, Alain (*with* Siggia, Eric D.) Development of singular solutions to the axisymmetric Euler equations. **93c:76014**
Radvogin, Yu. B. Quasimonotone multidimensional second-order difference schemes. (Russian) **93a:65116**
— *see also* **Bessonova, N. Yu., 93b:76052** *and* **Parushnikov, V. I., 93b:76053**
Rizzi, Arthur *see* **Eberle, Albrecht; et al., 93f:76081**
Roe, Philip L. (*with* Sidilkover, David) Optimum positive linear schemes for advection in two and three dimensions. (English summary) **93j:65137**
Rogé, G. *see* **Bristeau, Marie Odile; et al., 93f:76074**
Rønquist, Einar M. *see* **Ho, Lee-Wing; et al., (93d:65005)**
Roslyakov, G. S. *see* **Veretentsev, V. A., (93f:00006)**
Rubin, Stanley G. *see* **Srinivasan, Kumar, (93g:65009)**
Samareh-Abolhassani, Jamshid (*with* Smith, Robert E.) A practical approach to algebraic grid adaption.
Saunders, Robert *see* **Clarke, N.; et al., (93b:76002)**
Savenkova, N. P. *see* **Zakharchuk, V. T.; et al., (93f:00006)**
Scarbnick, Carl D. *see* **Strikwerda, John C., 93h:65156**
Schaeffer, David G. *see* **Wang, Feng; et al., 93c:73040**
Schäfer, Michael Numerical solution of the time-dependent axisymmetric Boussinesq equations on processor arrays. (English summary)
Schatzman, Michelle *see* **Lohéac, J.-P.; et al., 93h:65129**
Schultz, David H. *see* **Choo, Joshua Y., 93j:65209**
Scott, L. R. *see* **Lodge, A. S.; et al., 93k:76029**
Sergienko, I. V. (*with* Gladkii, A. V.; Skopetskii, V. V.) Stability of difference schemes for linear-fractional approximations of the Helmholtz equation. (Russian. English and Russian summaries) **93g:65132**
Sidilkover, David *see* **Roe, Philip L., 93j:65137**
Sidorov, L. V. *see* **Levin, M. P., 93a:76061**
Siggia, Eric D. *see* **Pumir, Alain, 93c:76014**
Sinha, D. K. *see* **Dhar, Ranajit, 93i:86003**
Skopetskii, V. V. *see* **Sergienko, I. V.; et al., 93g:65132**
Smith, Robert E. *see* **Samareh-Abolhassani, Jamshid**
Smolarkiewicz, Piotr K. (*with* Grell, Georg A.) A class of monotone interpolation schemes. **93e:76061**
Sparrow, Victor W. Time domain computations in nonlinear acoustics without one-way assumptions. (English summary) (*see* **93j:76001**)
Spekreijse, S. P. (*with* Hagmeijer, R.) Derivation of a Roe scheme for an N-species chemically reacting gas in thermal equilibrium. (*see* **93b:76002**)
Srinivasan, Kumar (*with* Rubin, Stanley G.) Adaptive multigrid domain decomposition solutions of the reduced Navier-Stokes equations. (English summary) (*see* **93g:65009**)
Strelets, M. Kh. *see* **Nekhamkina, O. A., 93m:80001**
Strigberger, J. (*with* Baruzzi, G.; Habashi, W. G.; Fortin, Michel) Some special purpose preconditioners for conjugate gradient-like methods applied to CFD. (English summary) **93k:76093**
Strikwerda, John C. (*with* Scarbnick, Carl D.) A domain decomposition method for incompressible viscous flow. (English summary) **93h:65156**
Struijs, R. J. (*with* Deconinck, H.) Multidimensional upwind schemes for the Euler equations using fluctuation distribution on a grid consisting of triangles. (*see* **93b:76002**)
Sun, Che *see* **You, Tong Shun, 93a:65120**
Sun, Yu Ping (*with* Militzer, Julio) The piecewise parabolic finite analytic method. I. Theory. (English summary) **93h:65157**
Svetsov, V. V. *see* **Hazins, V. M., 93k:76086**
Teigland, Rune *see* **Ersland, Brit Gunn**
Ting, L. (*with* Klein, Rupert) ★ Viscous vortical flows. **93a:76025**
Trangenstein, John A. Analysis of a model and sequential numerical method for thermal reservoir simulation. (*see* **93b:76086**)
(Trease, H. E.) *see* **Advances in the free-Lagrange method, 93g:76001**
Tsai, Yi-Cheng *see* **Malkus, David S.; et al., (93e:76050)**
Tsimerman, V. R. *see* **Blokhin, A. M., (93b:00021)**
Tu, Cheng (*with* Peskin, Charles S.) Stability and instability in the computation of flows with moving immersed boundaries: a comparison of three methods. (English summary) **93g:76097**
Turner, Robert E. L. *see* **Vanden-Broeck, Jean-Marc, 93f:76099**

Tveito, Aslak (*with* Winther, Ragnar) An error estimate for a finite difference scheme approximating a hyperbolic system of conservation laws. (English summary) **93m:65127**
Ushijima, Teruo Computational aspect of linear water wave problem. **93d:76009**
Vabishchevich, P. N. Difference schemes for problems with a quadratic nonlinearity. (Russian. Russian summary) **93g:65087**
Vanden-Broeck, Jean-Marc (*with* Turner, Robert E. L.) Long periodic internal waves. (English summary) **93f:76099**
— Two-dimensional jet aimed vertically upwards. (English summary) **93m:76007**
Varnhorn, Werner Time delay and finite differences for the nonstationary nonlinear Navier-Stokes equations. **93a:65118**
Veretentsev, V. A. (*with* Roslyakov, G. S.) Application of the factorization method to the computation of potential gas flow in a transonic region of a nozzle. (Russian. Russian summary) (*see* **93f:00006**)
Vichnevetsky, Robert On wave propagation in almost periodic structures. (English summary) **93i:65125**
Voevodin, A. F. Stability of Thom conditions for the Stokes difference boundary value problem. (Russian. Russian summary)
— Stability and realization of implicit schemes for the Stokes equations. (Russian. Russian summary) **93j:65141**
Vorob'ev, A. N. An algorithm for computing slow flows in channels. (Russian. Russian summary) **93i:76076**
Wang, Feng (*with* Gardner, Carl L.; Schaeffer, David G.) Steady-state computations of granular flow in an axisymmetric hopper. **93c:73040**
Wang, Wen Qia *see* **Yuan, Yi Rang; et al., 93h:65132**
Wetton, Brian T. R. *see* **Hou, Thomas Y., 93b:65125**
Winther, Ragnar *see* **Tveito, Aslak, 93m:65127**
Xiong, Yue Shan *see* **Guo, Ben Yu, 93b:65149** *and* **93b:65150**
Yang, Dan Ping *see* **Yuan, Yi Rang; et al., 93h:65132**
Yang, J. Y. (*with* Hsu, C. A.; Hui, W. H.) A generalized Lagrangian method for solving the steady shallow water equations. (English summary) **93h:65127**
Yang, Zhong Hua[1] (*with* Li, Zhi Liang) Bifurcation study on the laminar flow in the coiled tube with the triangular cross section. (*see* **93b:65006**)
Yavneh, I. *see* **Brandt, Achi, 93d:76046**
Ye, Xiu *see* **Hall, Charles A., 93c:65142**
Ying, Long An Optimal error estimates for a viscosity splitting formula. (*see* **93b:65006**)
You, Tong Shun (*with* Sun, Che) The characteristic-difference methods for some nonlinear convection-diffusion problem. **93a:65120**
Yuan, Wei *see* **Han, Hou De; et al., 93c:65048**
Yuan, Yi Rang (*with* Wang, Wen Qia; Yang, Dan Ping) Difference methods for a system of partial differential equations arising in the numerical simulation of petroleum origin and accumulation in basin evolution and a numerical analysis. (Chinese. English and Chinese summaries) **93h:65132**
Zabrodin, A. V. *see* **Zhukov, V. T.; et al., 93c:76070**
Zakharchuk, V. T. (*with* Savenkova, N. P.; Chernyshov, S. L.) On an approach to the solution of the Orr-Sommerfeld equation. (Russian. Russian summary) (*see* **93f:00006**)
Zarnowski, Roger E. Existence, uniqueness, and computation of solutions for mixed problems in compressible fluid flow. (English summary) **93i:35108**
Zhu, Jian-Ping[2] (*with* Chen, Yung Ming) On the application of supercomputers for history matching multiphase oil reservoir models. (English summary) (*see* **93g:65178**)
Zhukov, V. T. (*with* Zabrodin, A. V.; Feodoritova, O. B.) A scheme for solving nonstationary two-dimensional equations of gas dynamics with heat conduction on moving curvilinear grids. (Russian) **93c:76070**
Znev, A. I. An implicit method for solving equations of radiative gas dynamics. (Russian) **93h:76063**

Items listed otherwise than by author

Advances in the free-Lagrange method ★ Advances in the free-Lagrange method. **93g:76001**
Conference:
Free-Lagrange ★ Advances in the free-Lagrange method. **93g:76001**
Lecture Notes in Physics ★ Advances in the free-Lagrange method. **93g:76001**
Moran, WY ★ Advances in the free-Lagrange method. **93g:76001**

76M25 Other numerical methods

Aldama, A. A. (*with* Paniconi, C.) An analysis of the convergence of Picard iterations for implicit approximations of Richard's equation. (English summary) (*see* **93g:76002**)
Arina, Renzo (*with* Canuto, Claudio) A self-adaptive domain decomposition for the viscous/inviscid coupling. I. Burgers equation. (English summary) **93m:76061**
Atamian, C. (*with* Dinh, G. V.; Glowinski, Roland; He, Jiwen; Périaux, Jacques) On some imbedding methods applied to fluid dynamics and electromagnetics. **93c:76066**
Baron, Judson R. *see* **Kallinderis, J. G., 93h:76057**
Baruzzi, G. *see* **Strigberger, J.; et al., 93k:76093**
Bernard, Robert S. A MacCormack scheme for incompressible flow. **93d:76045**
Bourgat, Jean-François (*with* Le Tallec, Patrick; Tidriri, Driss; Qiu, Youchim) Numerical coupling of nonconservative or kinetic models with the conservative compressible Navier-Stokes equations. (English summary) (*see* **93g:65009**)
Bożek, Bogusław (*with* Holly, Konstanty; Olajossy, Andrzej) Stationary Navier-Stokes equations: on qualitative and numerical aspects of the Galerkin method. (Polish summary) **93a:76074**
Brackbill, J. U. *see* **Burgess, D.; et al., 93i:76063**
Brandt, Achi (*with* Yavneh, I.) On multigrid solution of high-Reynolds incompressible entering flows. **93d:76046**
Bristeau, Marie Odile (*with* Glowinski, Roland; Dutto, Laura C.; Périaux, Jacques; Rogé, G.) On recent numerical simulations of compressible Navier-Stokes flows. (English summary) **93f:76074**
Brunet, Jean-Philippe *see* **Sethian, James A.; et al., 93d:76051**
Burgess, D. (*with* Sulsky, D.; Brackbill, J. U.) Mass matrix formulation of the FLIP particle-in-cell method. (English summary) **93i:76063**
Busigin, Anthony (*with* Phillips, Colin R.) Efficient Newton-Raphson and implicit Euler methods for solving the HNC equation. **93b:76065**
Byval'tsev, P. M. (*with* Ivanov, M. Ya.) A fast method for calculating three-dimensional transonic potential flows in turbomachine blade passages. (Russian. Russian summary) **93h:76054**
Cai, Wei (*with* Shu, Chi-Wang) Uniform high-order spectral methods for one- and two-dimensional Euler equations. (English summary) **93i:76064**
Canuto, Claudio *see* **Arina, Renzo, 93m:76061**
Cao, Wei Ming *see* **Guo, Ben Yu; et al., 93d:76048**
Casasús Estelles, Trinidad (*with* Olmos, F.; Checa, E.; Chinesta, F.; Torres, R.) Qualitative and numerical study of the convection-diffusion equation and approximation of the solution on a polynomial-exponential basis. (Spanish. Spanish summary) (*see* **93j:00009**)
Causon, D. M. *see* **Clarke, N.; et al., (93b:76002)**
Checa, E. *see* **Casasús Estelles, Trinidad; et al., (93j:00009)**
Chen, Jiann Lin *see* **Jeng, Yih Nen, 93c:76067**
Chen, Yung Ming *see* **Zhu, Jian-Ping[2]**
Chinesta, F. *see* **Casasús Estelles, Trinidad; et al., (93j:00009)**
Chiou, B. J. Y. *see* **Sheu, T. W. H.; et al.**
Chiu, Kuang Ping *see* **Yang, Jinn Chuang, 93k:76094**
Choi, Y.-H. (*with* Merkle, C. L.) The application of preconditioning in viscous flows. (English summary) **93k:76083**
Choo, Yung K. *see* **Eiseman, Peter R.; et al., (93e:76050)**
Cinnella, P. (*with* Grossman, Bernard) Flux-split algorithms for hypersonic flows. (English summary) **93i:76065**
Clarke, N. (*with* Saunders, Robert; Causon, D. M.) A convenient entropy satisfying T.V.D. scheme for computational aerodynamics. (*see* **93b:76002**)
Coussement, Grégory *see* **Jacquotte, Olivier-Pierre, 93h:76056**
Crumpton, P. I. *see* **Shaw, G. J., 93h:76058**
Daube, O. Resolution of the 2D Navier-Stokes equations in velocity-vorticity form by means of an influence matrix technique. (English summary) **93i:76066**
Deconinck, H. *see* **Struijs, R. J., (93b:76002)** *and* **Roe, Philip L.; et al., (93e:76002)**
Deville, M. O. *see* **Schneidesch, C. R.**
Dinh, G. V. *see* **Atamian, C.; et al., 93c:76066**
Dold, J. W. An efficient surface-integral algorithm applied to unsteady gravity waves. (English summary) **93g:76091**
Dritschel, David G. A fast contour dynamics method for many-vortex calculations in two-dimensional flows. (English summary) **93k:76084**
— *see also* **Legras, Bernard, 93i:76069**
Dubois, Thierry (*with* Jauberteau, François; Temam, Roger) The nonlinear Galerkin method for the two- and three-dimensional Navier-Stokes equations. (*see* **93e:76002**)
Dukowicz, John K. (*with* Dvinsky, Arkady S.) Approximate factorization as a high order splitting for the implicit incompressible flow equations. (English summary) **93g:76092**
Dutto, Laura C. *see* **Bristeau, Marie Odile; et al., 93f:76074**
Dvinsky, Arkady S. *see* **Dukowicz, John K., 93g:76092**
Eiseman, Peter R. (*with* Choo, Yung K.; Smith, Robert E.) Algebraic grid generation with control points. (*see* **93e:76050**)
Espedal, M. S. *see* **Hansen, R.; et al., (93g:76002)**
Farge, Marie Wavelet transforms and their applications to turbulence. **93b:76066**
Feodoritova, O. B. *see* **Zhukov, V. T.; et al., 93c:76070**
Fishelov, Dalia Vortex schemes for viscous flow. **93a:76075**
Foley, Thomas A. *see* **Shen, Cherng-Yeu; et al., 93k:76092**
Fortin, Michel *see* **Strigberger, J.; et al., 93k:76093**
Freymuth, Peter (*with* Gustafson, Karl E.; Leben, Robert) Visualization and computation of hovering mode vortex dynamics. (*see* **93f:76078**)
Fröhlich, J. (*with* Peyret, Roger) Direct spectral methods for the low Mach number equations. (English summary) **93f:76075**
Glaister, P. Cylindrically symmetric flows in a Lagrangian frame. (English summary) **93k:76085**
Glazkov, Yu. V. (*with* Shcherbak, V. G.) The method of global iterations with respect to the pressure gradient for the solution of parabolized Navier-Stokes equations. (Russian. Russian summary) **93h:76055**
Glowinski, Roland *see* **Atamian, C.; et al., 93c:76066** *and* **Bristeau, Marie Odile; et al., 93f:76074**
de Goede, Erik D. Numerical methods for the 3D shallow water equations on vector and parallel computers. **93d:76047**
Greenberg, Adam *see* **Sethian, James A.; et al., 93d:76051**
Grell, Georg A. *see* **Smolarkiewicz, Piotr K., 93e:76061**
Gresho, P. M. Some interesting issues in incompressible fluid dynamics, both in the continuum and in numerical simulation. **93e:76056**
Grossman, Bernard *see* **Cinnella, P., 93i:76065**
Guillard, H. (*with* Malé, J. M.; Peyret, Roger) Adaptive spectral methods with application to mixing layer computations. (English summary) **93e:76057**
Guo, Ben Yu (*with* Ma, He Ping; Cao, Wei Ming; Huang, Hui) The Fourier-Chebyshev spectral method for solving two-dimensional unsteady vorticity equations. **93d:76048**
— *see also* **Ma, He Ping, 93f:76077**
Gustafson, Karl E. Four principles of vortex motion. (*see* **93f:76078**)
— *see also* **Freymuth, Peter; et al., (93f:76078)** *and* **Vortex methods and vortex motion, 93f:76078**
Habashi, W. G. *see* **Strigberger, J.; et al., 93k:76093**
Hald, Ole H. Convergence of vortex methods. (*see* **93f:76078**)
Hänel, D. Computational methods for viscous hypersonic flows. (English summary) **93i:76067**
Hansen, R. (*with* Espedal, M. S.; Nygaard, O.) An operator splitting technique for two-phase immiscible flow dominated by gravity and capillary forces. (English summary) (*see* **93g:76002**)
Harabetian, Eduard A subcell resolution method for viscous systems of conservation laws. (English summary) **93i:76068**
Hazins, V. M. (*with* Svetsov, V. V.) A conservative stable smoothness-enhancing free-Lagrangian method. (English summary) **93k:76086**
He, Jiwen *see* **Atamian, C.; et al., 93c:76066**
Herrera, Ismael Localized adjoint methods: a new discretization methodology. (English summary) **93e:76058**

Hoffmann, Karl-Heinz[1] (*with* Knabner, Peter; Seifert, W.) Adaptive methods for parameter identification in ground water hydrology. **93a:76076**
Holly, Konstanty *see* **Bożek, Bogusław; et al., 93a:76074**
Huang, Hui *see* **Guo, Ben Yu; et al., 93d:76048**
Hui, W. H. A new direction in steady supersonic/hypersonic flow computation. (*see* **93b:00022**)
Ivanov, M. Ya. *see* **Byval'tsev, P. M., 93h:76054**
Jackson, Eric *see* **She, Zhen Su; et al., (93d:65005)**
Jacquotte, Olivier-Pierre (*with* Coussement, Grégory) Structured mesh adaption: space accuracy and interpolation methods. (English summary) **93h:76056**
Jauberteau, François *see* **Dubois, Thierry; et al., (93e:76002)**
Jeng, Yih Nen (*with* Chen, Jiann Lin) Truncation error analysis of the finite volume method for a model steady convective equation. **93c:76067**
Jiang, Jin Liang Use the equations of total pressure and velocity to solve the viscous incompressible flow in the channel. (English summary)
Kalashnikov, V. V. (*with* Kostornoĭ, S. D.) A numerical method for solving a problem on the flow of an ideal fluid around arbitrarily distributed bodies. (Russian) **93d:76049**
Kallinderis, J. G. (*with* Baron, Judson R.) The finite volume approach for the Navier-Stokes equations. **93h:76057**
Kang, I. S. (*with* Leal, L. G.) Orthogonal grid generation in a 2D domain via the boundary integral technique. (English summary) **93f:76076**
Karageorghis, A. (*with* Sivaloganathan, S.) A Chebyshev spectral collocation method for the computation of buoyancy-induced flows. (English summary) **93k:76087**
Kashiwa, Bryan (*with* Lee, Wen Ho) Comparisons between the cell-centered and staggered mesh Lagrangian hydrodynamics. (English summary) (*see* **93g:76001**)
Katscher, U. *see* **Schneider, V.; et al., 93k:76091**
Knabner, Peter *see* **Hoffmann, Karl-Heinz[1]; et al., 93a:76076**
Koomullil, G. P. (*with* Warsi, Z. U. A.) Numerical mapping of arbitrary domains using spectral methods. (English summary) **93g:76093**
Kostornoĭ, S. D. *see* **Kalashnikov, V. V., 93d:76049**
Ku, Hwar-Ching A submerged body moving in a stratified medium via domain decomposition technique. (English summary) (*see* **93g:65009**)
Laminie, Jacques (*with* Pascal, Frédéric; Temam, Roger) Nonlinear Galerkin method with finite element approximation. (*see* **93e:76002**)
Leal, L. G. *see* **Kang, I. S., 93f:76076**
Leben, Robert *see* **Freymuth, Peter; et al., (93f:76078)**
Lee, S.-M. *see* **Sheu, T. W. H.; et al.**
Lee, Wen Ho *see* **Kashiwa, Bryan, (93g:76001)**
Legras, Bernard (*with* Dritschel, David G.) A comparison of the contour surgery and pseudo-spectral methods. (English summary) **93i:76069**
Lele, Sanjiva K. *see* **Poinsot, T. J., 93d:76050**
Le Tallec, Patrick *see* **Bourgat, Jean-François; et al., (93g:65009)**
Lifanov, I. K. (*with* Poltavskiĭ, L. N.) Generalized Fourier operators and their application to the justification of some numerical methods in aerodynamics. (Russian. Russian summary) **93k:76088**
Ma, He Ping (*with* Guo, Ben Yu) Combined finite element and pseudospectral method for three-dimensional vorticity equations. **93f:76077**
— *see also* **Guo, Ben Yu; et al., 93d:76048**
Makarov, V. G. A computational algorithm of the method of contour dynamics with a variable topology of the domains studied. (Russian. Russian summary) **93i:76070**
Malé, J. M. *see* **Guillard, H.; et al., 93e:76057**
Maruhn, J. A. *see* **Schneider, V.; et al., 93k:76091**
Matveev, A. F. (*with* Molyakov, N. M.) On the numerical solution of integral equations of the aerodynamics of permeable surfaces. (Russian) **93c:76068**
Mavriplis, Catherine A posteriori error estimators for adaptive spectral element techniques. (*see* **93b:76002**)
McCormick, Stephen F. Finite volume element and multilevel adaptive methods. (English summary) (*see* **93g:76002**)
Merkle, C. L. *see* **Choi, Y.-H., 93k:76083**
Merriman, Barry Particle approximation. **93e:76059**
Mesirov, Jill P. *see* **Sethian, James A.; et al., 93d:76051**
Molyakov, N. M. *see* **Matveev, A. F., 93c:76068**
Mulder, Wim A. (*with* Osher, Stanley; Sethian, James A.) Computing interface motion in compressible gas dynamics. **93a:76077**
— A high-resolution Euler solver based on multigrid, semi-coarsening, and defect correction. **93b:76067**
Munz, C.-D. *see* **Schneider, V.; et al., 93k:76091**
Nygaard, O. *see* **Hansen, R.; et al., (93g:76002)**
Olajossy, Andrzej *see* **Bożek, Bogusław; et al., 93a:76074**
Olmos, F. *see* **Casasús Estelles, Trinidad; et al., (93j:00009)**
Orszag, Steven A. *see* **She, Zhen Su; et al., (93d:65005)**
Osher, Stanley *see* **Mulder, Wim A.; et al., 93a:76077**
Pal'tsev, B. V. Rapidly converging iterative methods with splitting of the boundary conditions for a Stokes-type multidimensional system. Periodic "flows" between parallel walls. (Russian) **93k:76089**
Paniconi, C. *see* **Aldama, A. A., (93g:76002)**
Pascal, Frédéric *see* **Laminie, Jacques; et al., (93e:76002)**
Périaux, Jacques *see* **Atamian, C.; et al., 93c:76066** *and* **Bristeau, Marie Odile; et al., 93f:76074**
Petrovich, V. Yu. An estimate for the quality of computational algorithms in the calculation of a stationary boundary layer by the integral relation method. (Russian) **93a:76078**
Peyret, Roger *see* **Guillard, H.; et al., 93e:76057** *and* **Fröhlich, J., 93f:76075**
Phillips, Colin R. *see* **Busigin, Anthony, 93b:76065**
Phillips, Timothy N. (*with* Roberts, Gareth W.) The treatment of spurious pressure modes in spectral incompressible flow calculations. (English summary) **93k:76090**
Poinsot, T. J. (*with* Lele, Sanjiva K.) Boundary conditions for direct simulations of compressible viscous flows. **93d:76050**
Poltavskiĭ, L. N. *see* **Lifanov, I. K., 93k:76088**
Pullin, D. I. Contour dynamics methods. **93e:76060**
Qi, Anmin Numerical study of wave propagation on vortex filaments. (English summary) **93g:76094**
Qiu, Youchim *see* **Bourgat, Jean-François; et al., (93g:65009)**
Quarteroni, Alfio Numerical methods in fluid-dynamics. (Italian) **93g:76095**
Reed, Helen L. *see* **Shen, Cherng-Yeu; et al., 93k:76092**
Rischke, D. H. *see* **Schneider, V.; et al., 93k:76091**
Risebro, Nils Henrik (*with* Tveito, Aslak) A front tracking method for conservation laws in one dimension. **93c:76069**
Roberts, Gareth W. *see* **Phillips, Timothy N., 93k:76090**
Roe, Philip L. (*with* Deconinck, H.; Struijs, R. J.) Recent progress in multidimensional upwinding. (*see* **93e:76002**)
Rogé, G. *see* **Bristeau, Marie Odile; et al., 93f:76074**
Russo, Giovanni Deterministic vortex methods for the incompressible Navier-Stokes equations. (English summary) (*see* **93g:76001**)
Saunders, Robert *see* **Clarke, N.; et al., (93b:76002)**
Schneider, V. (*with* Katscher, U.; Rischke, D. H.; Waldhauser, B.; Maruhn, J. A.; Munz, C.-D.) New algorithms for ultra-relativistic numerical hydrodynamics. (English summary) **93k:76091**
Schneidesch, C. R. (*with* Deville, M. O.) Chebyshev collocation method and multi-domain decomposition for Navier-Stokes equations in complex curved geometries. (English summary)
Seifert, W. *see* **Hoffmann, Karl-Heinz[1]; et al., 93a:76076**
Sethian, James A. A brief overview of vortex methods. (*see* **93f:76078**)
— A gallery of fluid motion using vortex methods. (*see* **93f:76078**)
— (*with* Brunet, Jean-Philippe; Greenberg, Adam; Mesirov, Jill P.) Two-dimensional, viscous, incompressible flow in complex geometries on a massively parallel processor. **93d:76051**
— *see also* **Mulder, Wim A.; et al., 93a:76077** *and* **Vortex methods and vortex motion, 93f:76078**
Shang, J. S. Numerical simulation of hypersonic flows. (English summary) (*see* **93d:76001**)
Shaw, G. J. (*with* Crumpton, P. I.) An assessment of the finite termination property of the defect correction method. (English summary) **93h:76058**
Shcherbak, V. G. *see* **Glazkov, Yu. V., 93h:76055**
She, Zhen Su (*with* Jackson, Eric; Orszag, Steven A.) Vortex structure and dynamics in turbulence. (English summary) (*see* **93d:65005**)
Shen, Cherng-Yeu (*with* Reed, Helen L.; Foley, Thomas A.) Shepard's interpolation for solution-adaptive methods. (English summary) **93k:76092**
Sheu, T. W. H. (*with* Lee, S.-M.; Yang, K. O.; Chiou, B. J. Y.) A nonoscillating solution technique for skew upwind and QUICK-family schemes. (English summary)
Shu, Chi-Wang *see* **Cai, Wei, 93i:76064**
Sivaloganathan, S. *see* **Karageorghis, A., 93k:76087**
Smith, Robert E. *see* **Eiseman, Peter R.; et al., (93e:76050)**
Smolarkiewicz, Piotr K. (*with* Grell, Georg A.) A class of monotone interpolation schemes. **93e:76061**
Sod, Gary A. A numerical model of a thermal boundary layer. **93d:76052**
Solov'eva, E. V. An investigation of the stability of the macroscopic particle method. (Russian) **93j:76047**
Strigberger, J. (*with* Baruzzi, G.; Habashi, W. G.; Fortin, Michel) Some special purpose preconditioners for conjugate gradient-like methods applied to CFD. (English summary) **93k:76093**
Struijs, R. J. (*with* Deconinck, H.) Multidimensional upwind schemes for the Euler equations using fluctuation distribution on a grid consisting of triangles. (*see* **93b:76002**)
— *see also* **Roe, Philip L.; et al., (93e:76002)**
Sulsky, D. *see* **Burgess, D.; et al., 93i:76063**
Svetsov, V. V. *see* **Hazins, V. M., 93k:76086**
Temam, Roger *see* **Dubois, Thierry; et al., (93e:76002)** *and* **Laminie, Jacques; et al., (93e:76002)**
Tidriri, Driss *see* **Bourgat, Jean-François; et al., (93g:65009)**
Toro, E. F. Riemann problems and the WAF method for solving the two-dimensional shallow water equations. **93a:76079**
Torres, R. *see* **Casasús Estelles, Trinidad; et al., (93j:00009)**
Tveito, Aslak *see* **Risebro, Nils Henrik, 93c:76069**
Waldhauser, B. *see* **Schneider, V.; et al., 93k:76091**
Warsi, Z. U. A. *see* **Koomullil, G. P., 93g:76093**
Xie, C.-H. (*with* Zou, Z.) An Eulerian-Lagrangian localized adjoint method for the Richards equation. (*see* **93g:76002**)
Yang, Dan Ping Approximation and its optimal error estimate of displacement of two-phase incompressible flow by mixed finite element and a modified method of characteristics.
Yang, Jinn Chuang (*with* Chiu, Kuang Ping) Use of characteristics methods with cubic interpolation for unsteady-flow computation. (English summary) **93k:76094**
Yang, K. O. *see* **Sheu, T. W. H.; et al.**
Yavneh, I. *see* **Brandt, Achi, 93d:76046**
Zabrodin, A. V. *see* **Zhukov, V. T.; et al., 93c:76070**
Zhu, Jian-Ping[2] (*with* Chen, Yung Ming) Parameter estimation for multiphase reservoir models on hypercubes.
Zhukov, V. T. (*with* Zabrodin, A. V.; Feodoritova, O. B.) A scheme for solving nonstationary two-dimensional equations of gas dynamics with heat conduction on moving curvilinear grids. (Russian) **93c:76070**
Zou, Z. *see* **Xie, C.-H., (93g:76002)**

Items listed otherwise than by author

Vortex methods and vortex motion ★ Vortex methods and vortex motion. **93f:76078**

Items with secondary classifications in 76M25

Ali, A. H. A. (*with* Gardner, G. A.; Gardner, L. R. T.) A collocation solution for Burgers' equation using cubic *B*-spline finite elements. (English summary) **93j:65156**
Alujević, A. *see* **Skerget, P.; et al., (93i:76003)**
Alziary de Roquefort, T. *see* **Farcy, A., (93d:65005)**
Andreassen, Øyvind *see* **Wasberg, Carl Erik, (93d:65005)**

Anfinogenov, A. Yu. (*with* Lifanov, I. I.) On numerical solution of integral equations of planar and spatial diffraction problems. (English summary) **93i:78001**

Anturkar, N. R. (*with* Papanastasiou, T. C.; Wilkes, J. O.) Compound matrix method for eigenvalue problems in multiple connected domains. (English summary)

Arbogast, Todd (*with* Chilakapati, A.; Wheeler, Mary Fanett) A characteristic-mixed method for contaminant transport and miscible displacement. (English summary) (*see* **93g:76002**)

Ashyralyev, Ch. A variational method for solving a modified mixed boundary value problem for analytic functions. (Russian. Russian summary) **93f:76079**

Aubry, Nadine (*with* Lian, Wen Yu; Titi, Edriss S.) Preserving symmetries in the proper orthogonal decomposition. (English summary) **93m:65149**

Barenghi, Carlo F. A spectral method for time modulated Taylor-Couette flow. (*see* **93d:65005**)

Baysal, Oktay (*with* Yen, Guan-Wei) Kinematic domain decomposition for boundary-motion-induced flow simulations. (English summary) (*see* **93g:65009**)

Bell, John B. (*with* Marcus, Daniel L.) Vorticity intensification and transition to turbulence in the three-dimensional Euler equations. **93c:76048**

Berbente, C. (*with* Tătăranu, C.) A polynomial method for the calculation of the laminar incompressible boundary layer. **93d:76016**

Bermejo, Rodolfo Analysis of an algorithm for the Galerkin-characteristic method. **93e:65132**

Bernardi, Christine (*with* Coppoletta, Giuseppe; Girault, Vivette; Maday, Yvon) Spectral methods for the Stokes problem in stream-function formulation. (English summary) (*see* **93d:65005**)

— (*with* Girault, Vivette; Maday, Yvon) Mixed spectral element approximation of the Navier-Stokes equations in the stream-function and vorticity formulation. (English and French summaries) **93i:65113**

Berthold, Dietmar (*with* Hoppe, W.; Silbermann, Bernd) The numerical solution of the generalized airfoil equation. **93m:65181**

Bespalov, A. N. (*with* Kuznetsov, Yurii Alekseevich; Pironneau, Olivier; Vallet, Marie-Gabrielle) Fictitious domains with separable preconditioners versus unstructured adapted meshes. (English summary) **93h:65147**

Beux, François (*with* Dervieux, Alain) Exact-gradient shape optimization of a 2-D Euler flow. (English summary) **93j:76048**

Boisson, H. C. *see* **Spiteri, P., 93m:65126**

Bontoux, P. *see* **Chaouche, A.; et al., (93d:65005)**

(Boon, Jean-Pierre) *see* **Workshop: Lattice Gas Automata, 93d:82002**

Boris, J. P. *see* **Oran, E. S., 93j:80008**

Bottcher, C. (*with* Strayer, M. R.) Spline methods for conservation equations. (English summary) **93m:65147**

Boulton-Stone, J. M. A comparison of boundary integral methods for studying the motion of a two-dimensional bubble in an infinite fluid. (English summary) **93k:76007**

Brackbill, J. U. (*with* Kothe, D. B.; Zemach, C.) A continuum method for modeling surface tension. **93c:76008**

Bratvedt, Frode (*with* Bratvedt, Kyrre; Buchholz, Christian F.; et al.) Front tracking for petroleum reservoirs. (English summary) **93h:76071**

Bratvedt, Kyrre *see* **Bratvedt, Frode; et al., 93h:76071**

Bressan, Nicoletta (*with* Pavoni, Donatella) Truncation versus mapping in the spectral approximation to the Korteweg-de Vries equation. (English summary) (*see* **93d:65005**)

Breuer, H. P. (*with* Petruccione, Francesco) A stochastic formulation of Burgers' equation. (English summary) **93j:76028**

Buchholz, Christian F. *see* **Bratvedt, Frode; et al., 93h:76071**

Cai, Xiao-Chuan Additive Schwarz algorithms for parabolic convection-diffusion equations. **93a:65127**

Calzada Canalejo, M. C. *see* **Cruz Soto, J. L.; et al.**

(Canuto, Claudio) *see* **Spectral and high order methods for partial differential equations, 93d:65005**

Cao, Wei Ming (*with* Guo, Ben Yu) A pseudospectral method for solving Navier-Stokes equations. **93c:65119**

— (*with* Guo, Ben Yu) A Fourier-Chebyshev spectral method for three-dimensional vorticity equations with unilateral periodic boundary conditions. (English summary) **93j:65157**

— *see also* **Guo, Ben Yu, 93g:76079** *and* **93j:65159**

Carlenzoli, Claudio (*with* Quarteroni, Alfio; Valli, Alberto) Spectral domain decomposition methods for compressible Navier-Stokes equations. (English summary) **93h:65123**

Chalabi, Abdallah Stable upwind schemes for hyperbolic conservation laws with source terms. **93c:65108**

Chaouche, A. (*with* Randriamampianina, A.; Bontoux, P.) A collocation method based on the influence matrix technique for Navier-Stokes problems in annular domains. (English summary) (*see* **93d:65005**)

Chen, Tsu-Fen Semidiscrete least squares methods for linear convection-diffusion problem. (English summary) **93h:65121**

Chen, Yung Ming *see* **Zhu, Jian-Ping^2, 93b:65192**

Cheng, C. Z. *see* **Sigmar, D. J.; et al., 93d:76078**

Chern, I-Liang (*with* Foster, Ian) Parallel implementation of a control volume method for solving PDEs on the sphere. (English summary) (*see* **93g:65178**)

Chilakapati, A. *see* **Arbogast, Todd; et al., (93g:76002)**

Chin, P. (*with* D'Azevedo, E. F.; Forsyth, P. A.; Tang, Wei Pai) Preconditioned conjugate gradient methods for the incompressible Navier-Stokes equations.

Colton, David (*with* Monk, Peter) The numerical solution of an inverse scattering problem for acoustic waves. (English summary) **93j:76053**

— (*with* Monk, Peter) A comparison of two methods for solving the inverse scattering problem for acoustic waves in an inhomogeneous medium. (English summary) **93j:76054**

Cooper, K. D. Domain-imbedding alternating direction method for linear elliptic equations on irregular regions using collocation. (English summary) **93j:65192**

Coppoletta, Giuseppe *see* **Bernardi, Christine; et al., (93d:65005)**

Coquel, F. (*with* Rogier, François; Schneider, Jacques) A deterministic method for solving the homogeneous Boltzmann equation. (French. English and French summaries) **93k:76099**

(Crowley, W. P.) *see* **Advances in the free-Lagrange method, 93g:76001**

Cruz Soto, J. L. (*with* Calzada Canalejo, M. C.; Marín Beltrán, M.; Fernández Cara, Enrique) A parallel algorithm for solving the incompressible Navier-Stokes problem. (English summary)

Dahlburg, R. B. (*with* Picone, J. M.) Pseudospectral simulation of compressible magneto-hydrodynamic turbulence. (English summary) (*see* **93d:65005**)

Dahleh, Marie Dillon Fast numerical method for the solution of the quasigeostrophic vorticity equation. (English summary)

D'Azevedo, E. F. (*with* Forsyth, P. A.; Tang, Wei Pai) Towards a cost-effective ILU preconditioner with high level fill. (English summary) **93e:65051**

— (*with* Forsyth, P. A.; Tang, Wei Pai) Ordering methods for preconditioned conjugate gradient methods applied to unstructured grid problems. **93b:65054**

— *see also* **Chin, P.; et al.**

Dean, E. J. (*with* Dinh, Q. V.; Glowinski, Roland; He, Jiwen; Pan, T. W.; Périaux, Jacques) Least squares/domain imbedding methods for Neumann problems: applications to fluid dynamics. (English summary) **93h:65152**

Dervieux, Alain *see* **Beux, François, 93j:76048**

Deville, M. O. Chebyshev collocation solutions of flow problems. (English summary) (*see* **93d:65005**)

De Vuyst, Florian Un nouveau schéma numérique pour la résolution des équations d'Euler compressibles. (English summary) [A new numerical scheme for solving the compressible Euler equations] **93d:65090**

Dinh, Q. V. (*with* Glowinski, Roland; He, Jiwen; Kwock, V.; Pan, T. W.; Périaux, Jacques) Lagrange multiplier approach to fictitious domain methods: application to fluid dynamics and electromagnetics. (English summary) **93h:65136**

— *see also* **Dean, E. J.; et al., 93h:65152**

Don, Wai-Sun (*with* Gottlieb, David) Spectral simulations of an unsteady compressible flow past a circular cylinder. (English summary) (*see* **93d:65005**)

Dowker, J. S. (*with* Wolski, A.) Finite model of two-dimensional ideal hydrodynamics. (English summary) **93i:76019**

Dragoş, Lazăr (*with* Popescu, Marin) Certain quadrature formulae of interest in aerodynamics. (English summary) **93h:65037**

Drennan, W. M. (*with* Hui, W. H.; Tenti, G.) Accurate calculations of Stokes water waves of large amplitude. (French summary) **93b:76010**

Dritschel, David G. Vortex properties of two-dimensional turbulence. (English summary) **93k:76067**

Dutto, Laura C. The effect of ordering on preconditioned GMRES algorithm, for solving the compressible Navier-Stokes equations. (English summary) **93h:76048**

E, Weinan Homogenization of scalar conservation laws with oscillatory forcing terms. **93d:35096**

Elizarov, A. M. (*with* Il'inskiĭ, N. B.; Potashev, A. V.) Inverse boundary value problems of aerohydrodynamics as a theoretical basis for the design of wing profiles in a subsonic flow. (Russian. Russian summary) **93i:76049**

Ewing, Richard E. Operator splitting and Eulerian-Lagrangian localized adjoint methods for multiphase flow. **93b:76082**

Fairweather, Graeme *see* **Robinson, Mark P., (93j:76002)**

Farcy, A. (*with* Alziary de Roquefort, T.) Pseudospectral multi-domain method for incompressible viscous flow computation. (English summary) (*see* **93d:65005**)

Fauci, Lisa J. Computational modeling of the swimming of biflagellated algal cells. (English summary) (*see* **93j:76003**)

Fazio, Riccardo The Blasius problem formulated as a free boundary value problem. (English summary) **93f:76030**

Fernández Cara, Enrique *see* **Cruz Soto, J. L.; et al.**

Fischer, Paul F. Analysis and application of a parallel spectral element method for the solution of the Navier-Stokes equations. (English summary) (*see* **93d:65005**)

Flynn, Michael J. *see* **Lee, Fung F.; et al., (93g:65178)**

Fogelson, Aaron L. Particle-method solution of two-dimensional convection-diffusion equations. **93b:76081**

Forsyth, P. A. *see* **D'Azevedo, E. F.; et al., 93b:65054; 93e:65051** *and* **Chin, P.; et al.**

Foster, Ian (*with* Gropp, William D.; Stevens, Rick L.) Parallel scalability of the spectral transform method. (English summary) (*see* **93g:65178**)

— *see also* **Chern, I-Liang, (93g:65178)**

(Fritts, M. J.) *see* **Advances in the free-Lagrange method, 93g:76001**

Fröhlich, J. (*with* Peyret, Roger) Calculations of non-Boussinesq convection by a pseudospectral method. (English summary) (*see* **93d:65005**)

Frolova, A. A. Computation of radiative gas flows in axisymmetric nozzles of a given shape. (Russian) **93b:76071**

de Frutos, Javier (*with* Ortega, Tomás; Sanz-Serna, J. M.) A Hamiltonian, explicit algorithm with spectral accuracy for the "good" Boussinesq system. (English summary) (*see* **93d:65005**)

Fryazinov, I. V. *see* **Weinelt, Wilfried; et al., 93k:76031**

Garbey, Marc Domain decomposition to solve layers and singular perturbation problems. (English summary) **93h:65120**

García-Archilla, B. (*with* Mackenzie, J. A.) Supraconvergence analysis for a cell-vertex scheme for the convection-diffusion equation. (English summary) **93k:65074**

Gardner, G. A. *see* **Ali, A. H. A.; et al., 93j:65156**

Gardner, L. R. T. *see* **Ali, A. H. A.; et al., 93j:65156**

Gastaldi, F. (*with* Quarteroni, Alfio; Sacchi Landriani, Giovanni) Coupling of two-dimensional hyperbolic and elliptic equations. (English summary) (*see* **93d:65005**)

Gauthier, Serge A semi-implicit collocation method: application to two-dimensional compressible convection. (English summary) (*see* **93d:65005**)

Ghoniem, Ahmed F. Numerical simulation of combustion in reacting shear flow. **93j:80001**

Giovangigli, V. *see* **Smooke, M. D., 93c:65158**

Girault, Vivette *see* **Bernardi, Christine; et al., 93i:65113** *and* **(93d:65005)**

Givi, Peyman *see* **McMurtry, Patrick A., (93e:76050)**

Glazkov, Yu. V. (*with* Shcherbak, V. G.) Solution of parabolized Navier-Stokes equations by the method of iteration with respect to the pressure gradient. (Russian. Russian summary)

Glowinski, Roland *see* **Dinh, Q. V.; et al., 93h:65136** *and* **Dean, E. J.; et al., 93h:65152**

Goncharov, A. L. *see* **Weinelt, Wilfried; et al., 93k:76031**

Gottlieb, David *see* **Don, Wai-Sun, (93d:65005)**

Grigorovich, V. G. (*with* Kravtsov, V. V.) The problem of the radiation of acoustic waves from a surface through a nonhomogeneous layer. (Russian. Russian summary) **93i:76080**
Gropengiesser, F. *see* **Neunzert, H.; et al., 93b:82066**
Gropp, William D. *see* **Foster, Ian; et al., (93g:65178)**
Grundmann, R. Introduction to three-dimensional boundary layers. (English summary) **93f:76031**
Guarnaccia, J. F. (*with* Pinder, G. F.) A collocation based parallel algorithm to solve two phase flow and transport problems in porous media. (English summary) (*see* **93g:65178**)
Guo, Ben Yu (*with* Xiong, Yue Shan) A spectral-difference method for solving the three-dimensional vorticity equation. I. (Chinese summary) **93b:65149**
— (*with* Xiong, Yue Shan) A spectral-difference method for solving the three-dimensional vorticity equation. II. (Chinese summary) **93b:65150**
— (*with* Cao, Wei Ming) Spectral-finite element method for compressible fluid flow. (Chinese. English and Chinese summaries) **93j:65159**
— (*with* Cao, Wei Ming) A combined spectral-finite element method for solving two-dimensional unsteady Navier-Stokes equations. **93g:76079**
— *see also* **Cao, Wei Ming, 93c:65119**; **Huang, Wei^2, 93h:65143**; **Cao, Wei Ming, 93j:65157** *and* **Ma, He Ping, 93m:65144**
Gusev, V. I. *see* **Kessel', A. R., 93f:76094**
Hamdan, M. H. Computational aspects of flow through curved domains: the effect of no-slip. (English summary) **93k:76109**
Hartwig, Karl-Heinz *see* **Weinelt, Wilfried; et al., 93k:76031**
He, Jiwen *see* **Dinh, Q. V.; et al., 93h:65136** *and* **Dean, E. J.; et al., 93h:65152**
Heinrichs, Wilhelm Splitting techniques for the pseudospectral approximation of the unsteady Stokes equations. (English summary) **93i:65097**
Henderson, Ron (*with* Karniadakis, George Em.) Hybrid spectral element methods for flows over rough walls. (English summary) (*see* **93g:65009**)
Herrera, Ismael Localized adjoint method: topics for further research and some contributions. (English summary) (*see* **93g:76002**)
Hirsh, Richard S. *see* **Ku, Hwar-Ching; et al., (93d:65005)**
Ho, Lee-Wing (*with* Patera, Anthony T.) A Legendre spectral element method for simulation of unsteady incompressible viscous free-surface flows. (English summary) (*see* **93d:65005**)
Hoppe, W. *see* **Berthold, Dietmar; et al., 93m:65181**
Hou, Thomas Y. (*with* Lowengrub, J.; Shelley, M. J.) The convergence of an exact desingularization for vortex methods. (English summary) **93k:65075**
van der Houwen, P. J. (*with* Sommeijer, B. P.) Fractional Runge-Kutta methods with application to convection-diffusion equations. (English summary) **93h:65118**
Hsu, C. A. *see* **Yang, J. Y.; et al., 93h:65127**
Hsu, C. T. *see* **Sigmar, D. J.; et al., 93d:76078**
Huang, Ming You *see* **Zheng, Quan^1, 93c:65128**
Huang, Wei^2 (*with* Guo, Ben Yu) The spectral-difference method for Navier-Stokes equations. (English summary) **93h:65143**
Hui, W. H. *see* **Drennan, W. M.; et al., 93b:76010** *and* **Yang, J. Y.; et al., 93h:65127**
Ierley, Glenn (*with* Spencer, Brian; Worthing, Rodney) Spectral methods in time for a class of parabolic partial differential equations. (English summary) **93e:65121**
Il'inskii, N. B. *see* **Elizarov, A. M.; et al., 93i:76049**
Isaev, S. A. The method of fictitious domains for a nonstationary model of the motion of a baroclinic ocean. (Russian) **93c:65150**
Islamov, R. K. *see* **Karimberdieva, S.**
Ivansson, Sven (*with* Karasalo, Ilkka) A high-order adaptive integration method for wave propagation in range-independent fluid-solid media. (English summary) **93g:73113**
Jauberteau, François (*with* Rosier, C.; Temam, Roger) A nonlinear Galerkin method for the Navier-Stokes equations. (English summary) (*see* **93d:65005**)
Jolly, M. S. Bifurcation computations on an approximate inertial manifold for the 2D Navier-Stokes equations. (English summary) **93m:65143**
Jones, Don A. (*with* Titi, Edriss S.) Determining finite volume elements for the 2D Navier-Stokes equations. (English summary) **93j:35133**
Karasalo, Ilkka *see* **Ivansson, Sven, 93g:73113**
Karimberdieva, S. (*with* Islamov, R. K.) A numerical algorithm for solving a transport and diffusion equation. (Russian. Russian summary)
Karniadakis, George Em. Spectral element–Fourier methods for incompressible turbulent flows. (English summary) (*see* **93d:65005**)
— *see also* **Henderson, Ron, (93g:65009)**
Kaucher, Edgar Area-preserving mappings, their application for parallel and partially validated computations of Navier-Stokes-problems. (English summary) **93g:65134**
Kessel', A. R. (*with* Gusev, V. I.) The kinetics of a percolation lattice as a model of the filtration of an oil stratum. (Russian) **93f:76094**
Khisamutdinov, A. I. (*with* Kobeleva, N. F.) "Nonsymmetric" interactions in Monte Carlo methods with continuous time and the approximation of the Boltzmann equation. (Russian. English and Russian summaries) **93g:82093**
Kim, Hyun S. (*with* Prosperetti, Andrea) Numerical simulation of the motion of rigid spheres in potential flow. (English summary) **93h:76074**
Kingdon, R. D. (*with* Schofield, P.; White, L.) A lattice Boltzmann model for the simulation of fluid flow. **93d:76054**
Knoester, H. (*with* van der Zanden, J.) On the stability of multi-layered fluids. I. Analysis. (English summary) **93g:76052**
Kobeleva, N. F. *see* **Khisamutdinov, A. I., 93g:82093**
Kokovikhina, O. V. Application of Galerkin's method to a problem on the propagation of acoustic vibrations. (Russian) **93c:76072**
Kolkka, Robert W. *see* **Malkus, David S.; et al., (93e:76050)**
Kothe, D. B. *see* **Brackbill, J. U.; et al., 93c:76008**
Krasny, Robert Computing vortex sheet motion. **93c:76012**
Kravtsov, V. V. *see* **Grigorovich, V. G., 93i:76080**
Krõner, Dietmar About splitting and nonsplitting schemes for conservation laws in 2-D. (*see* **93b:76002**)
Ku, Hwar-Ching (*with* Taylor, Thomas D.; Hirsh, Richard S.) Pseudospectral matrix element methods for flow in complex geometry. (English summary) (*see* **93d:65005**)
Kutysh, I. I. Application of the Fourier method to the solution of Euler and Navier-Stokes equations. (Russian) (*see* **93j:00004**)
Kuznetsov, Yurii Alekseevich *see* **Bespalov, A. N.; et al., 93h:65147**
Kvachko, V. Yu. Construction of grids for solving three-dimensional parabolic Navier-Stokes equations. (Russian) (*see* **93f:00017**)
Kwock, V. *see* **Dinh, Q. V.; et al., 93h:65136**
Kwok, Yue-Kuen Analysis of computer-extended perturbation series. (English summary) **93h:35018**
Lampart, P. (*with* Wierciński, Z.) Application of the singular integral equations theory to the aerodynamic problems on example of the 2-dimensional flow past thin profile system. (English summary) **93d:76035**
Landweber, Louis Properties of the Neumann kernel and interior irrotational flow for a nearly closed surface. **93c:76003**
Lee, Ding *see* **Saint Mary, Donald F.; et al., (93j:76001)**
Lee, Fung F. (*with* Flynn, Michael J.; Morf, Martin) Design of compact high performance processing elements for the FCHC lattice gas models. (English summary) (*see* **93g:65178**)
Le Quere, P. (*with* Pécheux, J.) A three-dimensional pseudo-spectral algorithm for the computation of convection in a rotating annulus. (English summary) (*see* **93d:65005**)
Lesaint, P. (*with* Pousin, J.) Error estimates for a nonlinear degenerate parabolic problem. **93a:35094**
Lian, Wen Yu *see* **Aubry, Nadine; et al., 93m:65149**
Liang, Dong A viscosity splitting numerical simulation method for two-phase miscible displacement problem. (*see* **93d:65004**)
Lie, Ivar Heterogeneous domain decomposition for acoustic bottom interaction problems. (English summary) **93i:76083**
Lifanov, I. I. *see* **Anfinogenov, A. Yu., 93i:78001**
Lindsay, K. A. The application of compound matrices to convection problems in multi-layered continua. **93h:65051**
Liou, Jianntyng *see* **Pironneau, Olivier; et al., 93j:65150**
Lowengrub, J. *see* **Hou, Thomas Y.; et al., 93k:65075**
Lu, Tong Chao A characteristic-collocation method for convection-diffusion problems. (Chinese. English summary) **93c:65145**
Lubich, Ch. (*with* Ostermann, Alexander) Runge-Kutta methods for parabolic equations and convolution quadrature. **93d:65082**
Ma, He Ping (*with* Guo, Ben Yu) Combined finite element and pseudospectral method for the three-dimensional Navier-Stokes equations. (English summary) **93m:65144**
Mackenzie, J. A. (*with* Morton, K. W.) Finite volume solutions of convection-diffusion test problems. **93d:76065**
— *see also* **García-Archilla, B., 93k:65074**
Maday, Yvon (*with* Meiron, D. I.; Patera, Anthony T.; Rønquist, Einar M.) Analysis of iterative methods for the steady and unsteady Stokes problem: application to spectral element discretizations. (English summary) **93k:65099**
— *see also* **Bernardi, Christine; et al., 93i:65113** *and* **(93d:65005)**
Majda, Andrew J. Mathematical fluid dynamics: the interaction of nonlinear analysis and modern applied mathematics. **93k:76003**
Malkus, David S. (*with* Tsai, Yi-Cheng; Kolkka, Robert W.) New transient algorithms for non-Newtonian flows. (*see* **93e:76050**)
Marcus, Daniel L. *see* **Bell, John B., 93c:76048**
Marín Beltrán, M. *see* **Cruz Soto, J. L.; et al.**
Mauceri Del Prete, Vincenza Convergence of vortex methods with pointwise evaluation. (Italian summary) **93g:65112**
McMurtry, Patrick A. (*with* Givi, Peyman) Direct numerical simulations of a reacting turbulent mixing layer by a pseudospectral-spectral element method. (*see* **93e:76050**)
Meiron, D. I. *see* **Shelley, M. J., 93c:76018**; **93i:76023** *and* **Maday, Yvon; et al., 93k:65099**
Miloh, Touvia (*with* Prestin, M.; Shtilman, L.; Tulin, M. P.) A note on the numerical and N-soliton solutions of the Benjamin-Ono evolution equation. (English summary) **93k:76016**
Monk, Peter *see* **Colton, David, 93j:76053** *and* **93j:76054**
Morf, Martin *see* **Lee, Fung F.; et al., (93g:65178)**
Morton, K. W. (*with* Süli, Endre) Finite volume methods and their analysis. **93e:65145**
— Upwinded test functions for finite element and finite volume methods. **93f:65086**
— *see also* **Mackenzie, J. A., 93d:76065**
Myagchilov, S. V. (*with* Tyrtyshnikov, E. E.) A fast matrix-vector multiplier in discrete vortex method. (English summary)
Nataf, Frédéric Paraxial approximations of the steady advection-diffusion equation. Padé approximants for operators. **93e:76065**
— (*with* Rogier, François) Factorization of the advection-diffusion operator and domain decomposition method. (English summary) (*see* **93m:65006**)
Neunzert, H. (*with* Gropengiesser, F.; Struckmeier, J.) Computational methods for the Boltzmann equation. **93b:82066**
Neuvazhaev, V. E. (*with* Parshukov, I. È.) Investigation of Richtmyer-Meshkov instability by the vortex method. (Russian. Russian summary) **93j:76035**
Newman, J. N. The approximation of free-surface Green functions. (*see* **93b:76003**)
Nicolaides, R. A. Analysis and convergence of the MAC scheme. I. The linear problem. (English summary) **93j:65143**
Oran, E. S. (*with* Boris, J. P.) Numerical simulation of reacting flows. **93j:80008**
Orszag, Steven A. *see* **Shelley, M. J.; et al., 93i:76023**
Ortega, Tomás *see* **de Frutos, Javier; et al., (93d:65005)**
Ostermann, Alexander *see* **Lubich, Ch., 93d:65082**
Ovchinnikov, E. È. Multi-level projection method for solving the eigenvalue problem for the convection-diffusion equation. **93c:65135**
Pan, T. W. *see* **Dinh, Q. V.; et al., 93h:65136** *and* **Dean, E. J.; et al., 93h:65152**
Pantelis, G. Grid adaptive strategies for the convection-dispersion equation. (*see* **93g:76002**)
Papanastasiou, T. C. *see* **Anturkar, N. R.; et al.**
Parshukov, I. È. *see* **Neuvazhaev, V. E., 93j:76035**
Pasquarelli, Franco *see* **Quarteroni, Alfio; et al., 93h:65155**
Patera, Anthony T. *see* **Maday, Yvon; et al., 93k:65099** *and* **Ho, Lee-Wing, (93d:65005)**
Pavoni, Donatella *see* **Bressan, Nicoletta, (93d:65005)**
Pécheux, J. *see* **Le Quere, P., (93d:65005)**
Périaux, Jacques *see* **Dinh, Q. V.; et al., 93h:65136** *and* **Dean, E. J.; et al., 93h:65152**
Petruccione, Francesco *see* **Breuer, H. P., 93j:76028**

Peyret, Roger The Chebyshev multidomain approach to stiff problems in fluid mechanics. (English summary) (*see* **93d:65005**)
— *see also* **Fröhlich, J.**, (**93d:65005**)
Phillips, Timothy N. Spectral domain decomposition techniques for viscous incompressible flows. (English summary) (*see* **93d:65005**)
— Pseudospectral domain decomposition techniques for the Navier-Stokes equations. (English summary) (*see* **93g:65009**)
Pickering, W. M. *see* **Sozou, C.**, **93m:76025**
Picone, J. M. *see* **Dahlburg, R. B.**, (**93d:65005**)
de Pillis, John A parallel iteration method and the convection-diffusion equation. **93a:65042**
Pinder, G. F. *see* **Guarnaccia, J. F.**, (**93g:65178**)
Pironneau, Olivier (*with* Liou, Jianntyng; Tezduyar, T. E.) Characteristic-Galerkin and Galerkin/least-squares space-time formulations for the advection-diffusion equations with time-dependent domains. (English summary) **93j:65150**
— *see also* **Bespalov, A. N.; et al.**, **93h:65147**
Popescu, Marin *see* **Dragoş, Lazăr**, **93h:65037**
Potashev, A. V. *see* **Elizarov, A. M.; et al.**, **93i:76049**
Pousin, J. *see* **Lesaint, P.**, **93a:35094**
Prestin, M. *see* **Miloh, Touvia; et al.**, **93k:76016**
Priimak, V. G. A family of pseudospectral algorithms for integration of Navier-Stokes equations in a cylindrical coordinate system. (Russian. Russian summary) **93j:65161**
Prosperetti, Andrea *see* **Kim, Hyun S.**, **93h:76074**
Qin, Ning *see* **Xu, Xue Rong; et al.**, **93d:65040**
Quarteroni, Alfio (*with* Pasquarelli, Franco; Valli, Alberto) Heterogeneous domain decomposition: principles, algorithms, applications. (English summary) **93h:65155**
— *see also* **Carlenzoli, Claudio; et al.**, **93h:65123**; **Gastaldi, F.; et al.**, (**93d:65005**) *and* **Spectral and high order methods for partial differential equations**, **93d:65005**
Randriamampianina, A. *see* **Chaouche, A.; et al.**, (**93d:65005**)
Rek, Z. *see* **Škerget, P.; et al.**, (**93i:76003**)
Resasco, Diana C. Application of domain decomposition techniques to the solution of acoustic propagation problems. (English summary) (*see* **93j:76001**)
— *see also* **Saint Mary, Donald F.; et al.**, (**93j:76001**)
Richards, Bryan E. *see* **Xu, Xue Rong; et al.**, **93d:65040**
Robinson, Mark P. (*with* Fairweather, Graeme) An orthogonal spline collocation method for the numerical solution of underwater acoustic wave propagation problems. (English summary) (*see* **93j:76002**)
Rogier, François *see* **Coquel, F.; et al.**, **93k:76099** *and* **Nataf, Frédéric**, (**93m:65006**)
Rønquist, Einar M. *see* **Maday, Yvon; et al.**, **93k:65099**
Rosier, C. *see* **Jauberteau, François; et al.**, (**93d:65005**)
Rusten, Torgeir (*with* Winther, Ragnar) Mixed finite element methods and domain decomposition. (English summary) (*see* **93g:76002**)
Sacchi Landriani, Giovanni *see* **Gastaldi, F.; et al.**, (**93d:65005**)
Saint Mary, Donald F. (*with* Lee, Ding; Resasco, Diana C.) A hybrid marching technique for the solution of an elliptic model in underwater acoustics. (English summary) (*see* **93j:76001**)
Sakovich, V. S. Generation of computational grids by means of implicit functions. (Russian. Russian summary) **93g:65065**
Sanz-Serna, J. M. *see* **de Frutos, Javier; et al.**, (**93d:65005**)
Schäfer, Michael Numerical solution of the time-dependent axisymmetric Boussinesq equations on processor arrays. (English summary)
Schneider, Jacques *see* **Coquel, F.; et al.**, **93k:76099**
Schofield, P. *see* **Kingdon, R. D.; et al.**, **93d:76054**
Shcherbak, V. G. *see* **Glazkov, Yu. V.**
Shelley, M. J. (*with* Meiron, D. I.) Vortex reconnection and smoothness of the Euler equations. **93c:76018**
— A study of singularity formation in vortex-sheet motion by a spectrally accurate vortex method. (English summary) **93g:76035**
— (*with* Meiron, D. I.; Orszag, Steven A.) Dynamical aspects of vortex reconnection of perturbed anti-parallel vortex tubes. (English summary) **93i:76023**
— *see also* **Hou, Thomas Y.; et al.**, **93k:65075**
Shen, Jie Numerical simulation of the regularized driven cavity flows at high Reynolds numbers. (English summary) (*see* **93d:65005**)
— On error estimates of some higher order projection and penalty-projection methods for Navier-Stokes equations. **93a:35122**
Shipilin, A. V. (*with* Shlënskiĭ, V. N.) An iterative method for the numerical solution of equations of a semiconductor plasma. (Russian. Russian summary) **93i:82088**
Shlënskiĭ, V. N. *see* **Shipilin, A. V.**, **93i:82088**
Shtilman, L. *see* **Miloh, Touvia; et al.**, **93k:76016**
Sigmar, D. J. (*with* Hsu, C. T.; White, Roscoe Beryl; Cheng, C. Z.) Alpha-particle losses from toroidicity-induced Alfvén eigenmodes. II. Monte Carlo simulations and anomalous alpha-loss processes. **93d:76078**
Silbermann, Bernd *see* **Berthold, Dietmar; et al.**, **93m:65181**
Škerget, P. (*with* Alujević, A.; Žagar, I.; Rek, Z.) Computational fluid dynamics by the boundary-domain integral method. (*see* **93i:76003**)
Smooke, M. D. (*with* Giovangigli, V.) Numerical modeling of axisymmetric laminar diffusion flames. **93c:65158**
Sommeijer, B. P. *see* **van der Houwen, P. J.**, **93h:65118**
Sonar, Th. On the design of an upwind scheme for compressible flow on general triangulations. (English summary) **93k:65073**
Sonke, L. Analysis of domain decomposition for nonsymmetric problems: application to the Navier-Stokes equations. **93a:65174**
Sozou, C. (*with* Pickering, W. M.) Development of the Stokes flow field associated with a line vortex perpendicular to a plane wall. (English summary) **93m:76025**
Spencer, Brian *see* **Ierley, Glenn; et al.**, **93e:65121**
Spiteri, P. (*with* Boisson, H. C.) Subdomain predictor-corrector algorithms for solving the incompressible Navier-Stokes equation. (English summary) **93m:65126**
Stevens, Rick L. *see* **Foster, Ian; et al.**, (**93g:65178**)
Strayer, M. R. *see* **Bottcher, C.**, **93m:65147**
Struckmeier, J. *see* **Neunzert, H.; et al.**, **93b:82066**
Süli, Endre *see* **Morton, K. W.**, **93e:65145**
Szymkiewicz, R. Solution of the advection-diffusion equation using the spline function and finite elements. (English summary)
Tang, Wei Pai *see* **D'Azevedo, E. F.; et al.**, **93b:65054**; **93e:65051** *and* **Chin, P.; et al.**
Tarzia, Domingo A. Numerical analysis of a Stokes equation. (Spanish. English and Spanish summaries) **93m:76063**
Tătăranu, C. *see* **Berbente, C.**, **93d:76016**
Taylor, Thomas D. *see* **Ku, Hwar-Ching; et al.**, (**93d:65005**)
Temam, Roger *see* **Jauberteau, François; et al.**, (**93d:65005**)
Tenti, G. *see* **Drennan, W. M.; et al.**, **93b:76010**
Tezduyar, T. E. *see* **Pironneau, Olivier; et al.**, **93j:65150**
Titi, Edriss S. *see* **Jones, Don A.**, **93j:35133** *and* **Aubry, Nadine; et al.**, **93m:65149**
Toumi, I. A weak formulation of Roe's approximate Riemann solver. (English summary) **93h:65126**
(Trease, H. E.) *see* **Advances in the free-Lagrange method**, **93g:76001**
Tsai, Yi-Cheng *see* **Malkus, David S.; et al.**, (**93e:76050**)
Tulin, M. P. *see* **Miloh, Touvia; et al.**, **93k:76016**
Tyrtyshnikov, E. E. *see* **Myagchilov, S. V.**
Vallet, Marie-Gabrielle *see* **Bespalov, A. N.; et al.**, **93h:65147**
Valli, Alberto *see* **Carlenzoli, Claudio; et al.**, **93h:65123** *and* **Quarteroni, Alfio; et al.**, **93h:65155**
(Verheggen, T. M. M.) *see* **Numerical methods for the simulation of multi-phase and complex flow**
Voronina, V. A. A stochastic algorithm for solving an initial-boundary value problem for the Boltzmann equation. (Russian) **93f:76085**
Wasberg, Carl Erik (*with* Andreassen, Øyvind) Pseudospectral methods with open boundary conditions for the study of atmospheric wave phenomena. (English summary) (*see* **93d:65005**)
Weinelt, Wilfried (*with* Goncharov, A. L.; Fryazinov, I. V.; Hartwig, Karl-Heinz) Numerical methods for solving the problem of injection of plastic into thin forms. (Russian. Russian summary) **93k:76031**
Wendroff, Burton An analysis of front tracking for chromatography. (English summary) **93m:65175**
Wheeler, Mary Fanett *see* **Arbogast, Todd; et al.**, (**93g:76002**)
White, L. *see* **Kingdon, R. D.; et al.**, **93d:76054**
White, Roscoe Beryl *see* **Sigmar, D. J.; et al.**, **93d:76078**
Wierciński, Z. *see* **Lampart, P.**, **93d:76035**
Wilkes, J. O. *see* **Anturkar, N. R.; et al.**
Winther, Ragnar *see* **Rusten, Torgeir**, (**93g:76002**)
Wolski, A. *see* **Dowker, J. S.**, **93i:76019**
Worthing, Rodney *see* **Ierley, Glenn; et al.**, **93e:65121**
Wu, Hua Mo (*with* Yang, Shu Li) MmB—a new class of accurate high resolution schemes for conservation laws in two dimensions. (*see* **93b:76002**)
Xiang, Xin Min *see* **Zhang, Fa Yong**, **93b:65183**
Xiong, Yue Shan *see* **Guo, Ben Yu**, **93b:65149** *and* **93b:65150**
Xu, Xue Rong (*with* Qin, Ning; Richards, Bryan E.) α-GMRES: a new parallelizable iterative solver for large sparse nonsymmetric linear systems arising from CFD. (English summary) **93d:65040**
Yang, Dan Ping Coupled finite element and characteristics methods for displacement problems of two-phase flow in porous media, and error estimates for them. (Chinese. English and Chinese summaries) **93j:65189**
Yang, J. Y. (*with* Hsu, C. A.; Hui, W. H.) A generalized Lagrangian method for solving the steady shallow water equations. (English summary) **93h:65127**
Yang, Shu Li *see* **Wu, Hua Mo**, (**93b:76002**)
Ye, Xing De A spectral τ approximation for the two-dimensional Stokes problem. (Chinese. English and Chinese summaries) **93j:65193**
Yen, Guan-Wei *see* **Baysal, Oktay**, (**93g:65009**)
Yuan, Yi Rang Finite element-characteristic method and analysis for a compressible miscible displacement problem in porous media. (English summary) **93g:76082**
Žagar, I. *see* **Škerget, P.; et al.**, (**93i:76003**)
van der Zanden, J. *see* **Knoester, H.**, **93g:76052**
Zang, Thomas A. Spectral method for simulations of transition and turbulence. (English summary) (*see* **93d:65005**)
Zemach, C. *see* **Brackbill, J. U.; et al.**, **93c:76008**
Zhang, Fa Yong (*with* Xiang, Xin Min) Legendre and Chebyshev pseudospectral method for BBM equation. **93b:65183**
Zheng, Quan[1] (*with* Huang, Ming You) A simplified viscosity splitting method for solving the initial boundary value problems of Navier-Stokes equation. **93c:65128**
Zhu, Jian-Ping[2] (*with* Chen, Yung Ming) Multilevel grid method for history matching multidimensional multiphase reservoir models. **93b:65192**

Items listed otherwise than by author

Advances in the free-Lagrange method ★ Advances in the free-Lagrange method. **93g:76001**
Amsterdam ★ Numerical methods for the simulation of multi-phase and complex flow.
Como ★ Spectral and high order methods for partial differential equations. **93d:65005**
Conference:
Free-Lagrange ★ Advances in the free-Lagrange method. **93g:76001**
Spectral and High Order Methods for Partial Differnetial Equations ★ Spectral and high order methods for partial differential equations. **93d:65005**
Lecture Notes in Physics ★ Advances in the free-Lagrange method. **93g:76001**
— ★ Numerical methods for the simulation of multi-phase and complex flow.
Moran, WY ★ Advances in the free-Lagrange method. **93g:76001**
NATO Advanced Research Workshop:
Lattice Gas Automata, Theory, Implementation, Simulations ★ Advanced Research Workshop on Lattice Gas Automata. **93d:82002**
Nice ★ Advanced Research Workshop on Lattice Gas Automata. **93d:82002**
Numerical methods for the simulation of multi-phase and complex flow ★ Numerical methods for the simulation of multi-phase and complex flow.
Spectral and high order methods for partial differential equations ★ Spectral and high order methods for partial differential equations. **93d:65005**

Workshop:

Lattice Gas Automata ★ Advanced Research Workshop on Lattice Gas Automata. **93d:82002**

Numerical Methods for the Simulation of Multi-Phase and Complex Flow ★ Numerical methods for the simulation of multi-phase and complex flow.

76M30 Variational methods

Alduncin, G. Primal and mixed upwind finite element approximations of control advection-diffusion problems. (English summary) **93m:76062**

Ashyralyev, Ch. A variational method for solving a modified mixed boundary value problem for analytic functions. (Russian. Russian summary) **93f:76079**

Beux, François (*with* Dervieux, Alain) Exact-gradient shape optimization of a 2-D Euler flow. (English summary) **93j:76048**

Dervieux, Alain *see* **Beux, François, 93j:76048**

Tarzia, Domingo A. Numerical analysis of a Stokes equation. (Spanish. English and Spanish summaries) **93m:76063**

Items with secondary classifications in 76M30

Al-Hawaj, A. Y. (*with* Essawy, A. H.) The optimum shape of an hydrofoil with no cavitation. (English summary) **93m:76004**

Aul'chenko, S. M. A variational method for constructing subsonic wing profiles. (Russian) **93i:76048**

Bai, Dong Hua A free boundary problem governed by nonlinear degenerate equations of parabolic type. (English summary) **93g:35145**

Barozzi, E. (*with* Emmer, M.; Gonzalez, E. H. A.) Lagrange multipliers and variational methods for equilibrium problems of fluids. **93j:49044**

Bethuel, Fabrice (*with* Brézis, Haïm; Coleman, Bernard D.; Hélein, Frédéric) Bifurcation analysis of minimizing harmonic maps describing the equilibrium of nematic phases between cylinders. **93h:49059**

Bielak, Jacobo *see* **Zeng, Xiaogang; et al., 93d:76041**

Bishaev, A. M. (*with* Rykov, V. A.) Variational principles for the linear Boltzmann equation. (Russian. Russian summary) **93j:49046**

Boldyrev, Yu. Ya. Periodic variational problem associated with the linear Reynolds equation. (Russian. Russian summary) **93j:76026**

Brézis, Haïm *see* **Bethuel, Fabrice; et al., 93h:49059**

Chernyi, N. I. *see* **Lyashko, I. I., 93h:76072**

Coleman, Bernard D. *see* **Bethuel, Fabrice; et al., 93h:49059**

Demengel, F. (*with* Hadiji, Rejeb) Relaxed energies for functionals on $W^{1,1}(B^2, S^1)$. **93h:58038**

Descloux, J. Stability of the solutions of the bidimensional magnetic shaping problem in absence of surface tension. **93g:76111**

Drozdov, V. V. *see* **Galkin, S. A.; et al., 93c:76084**

Emmer, M. *see* **Barozzi, E.; et al., 93j:49044**

Essawy, A. H. *see* **Al-Hawaj, A. Y., 93m:76004**

Eydeland, Alexander *see* **Turkington, Bruce; et al., 93m:76075**

Fierros Palacios, Ángel Balance equations for a viscous fluid based on a Hamilton-type variational principle. (Spanish. English and Spanish summaries) **93h:76004a**

— Errata: "Balance equations for a viscous fluid based on a Hamilton-type variational principle". (Spanish) **93h:76004b**

— Obtaining the differential field equations for potential flow via a Hamilton variational principle. (Spanish. English and Spanish summaries) **93j:76007**

Fryazinov, I. V. *see* **Weinelt, Wilfried; et al., 93k:76031**

Gagneux, Gérard (*with* Madaune-Tort, Monique) Sur la question de l'unicité pour des inéquations des milieux poreux. (English summary) [On uniqueness for the inequalities governing processes in porous media] **93g:76105**

Galkin, S. A. (*with* Drozdov, V. V.; Martynov, A. A.) A variational approach to constructing of approximate models for MHD equilibrium and stability. **93c:76084**

Giaquinta, M. (*with* Modica, G.; Souček, Jiří) Cartesian currents and liquid crystals: dipoles, singular lines and singular points. (English summary) **93h:49062**

Girault, Vivette (*with* Giroire, J.; Sequeira, A.) A stream-function–vorticity variational formulation for the exterior Stokes problem in weighted Sobolev spaces. **93d:35113**

Giroire, J. *see* **Girault, Vivette; et al., 93d:35113**

Golubkin, V. N. (*with* Negoda, V. V.) On raising the aerodynamic quality of wings of small span for hypersonic velocities. (Russian. Russian summary) **93g:76075**

Goncharov, A. L. *see* **Weinelt, Wilfried; et al., 93k:76031**

Gonzalez, E. H. A. *see* **Barozzi, E.; et al., 93j:49044**

Hadiji, Rejeb *see* **Demengel, F., 93h:58038**

Han, Shi Fang A variational method for research on an unsteady tube flow of upper-convected Maxwell fluid.

Hartwig, Karl-Heinz *see* **Weinelt, Wilfried; et al., 93k:76031**

Hélein, Frédéric *see* **Bethuel, Fabrice; et al., 93h:49059**

Herrera, Ismael Localized adjoint methods: a new discretization methodology. (English summary) **93e:76058**

Jin, Fu Sheng Variational principles for hydrodynamic impact problems. (Chinese. English and Chinese summaries)

Kaloni, P. N. *see* **Qin, Yu, 93a:35121**

Kuznetsov, N. G. *see* **Vasil'ev, A. N., (93d:35001)**

Lifschitz, Alexander E. *see* **Turkington, Bruce; et al., 93m:76075**

Linardatos, D. Determination of two-dimensional magnetostatic equilibria and analogous Euler flows. (English summary) **93i:76100**

Lyashko, I. I. (*with* Chernyi, N. I.) A numerical method for solving problems of nonstationary filtration. (Russian. English and Russian summaries) **93h:76072**

MacCamy, Richard C. *see* **Zeng, Xiaogang; et al., 93d:76041**

Madaune-Tort, Monique *see* **Gagneux, Gérard, 93g:76105**

Marra, Rossana Hydrodynamical stochastic formalism and representation formulas. **93a:60090**

Martynov, A. A. *see* **Galkin, S. A.; et al., 93c:76084**

Mazurov, P. A. A variational approach in the theories of filtration consolidation and two-phase filtration. (Russian) **93c:73005**

Mizel, Victor J. (*with* Roccato, Diego; Virga, Epifanio G.) A variational problem for nematic liquid crystals with variable degree of orientation. **93g:58033**

Modica, G. *see* **Giaquinta, M.; et al., 93h:49062**

Nečas, Jindřich (*with* Novotný, Antonín; Šilhavý, Miroslav) Global solution to the compressible isothermal multipolar fluid. **93e:35089**

Negoda, V. V. *see* **Golubkin, V. N., 93g:76075**

Novick-Cohen, Amy On a minimization problem arising in wetting. **93d:49005**

Novotný, Antonín *see* **Nečas, Jindřich; et al., 93e:35089**

Pogu, Marc (*with* Tournemine, G.) Contribution à la résolution fonctionnelle d'écoulements transsoniques. [Contribution to the functional solution of transonic flows] **93g:76074**

Qin, Yu (*with* Kaloni, P. N.) Steady convection in a porous medium based upon the Brinkman model. **93a:35121**

Radder, A. C. An explicit Hamiltonian formulation of surface waves in water of finite depth. **93a:76013**

Reddy, J. N. ★ Applied functional analysis and variational methods in engineering. **93b:00002**

Roccato, Diego (*with* Virga, Epifanio G.) Drops of nematic liquid crystal floating on a fluid. **93f:76006**

— *see also* **Mizel, Victor J.; et al., 93g:58033**

Ronquist, Einar M. A domain decomposition method for elliptic boundary value problems: application to unsteady incompressible fluid flow. (English summary) (*see* **93g:65009**)

Rykov, V. A. *see* **Bishaev, A. M., 93j:49046**

Sequeira, A. *see* **Girault, Vivette; et al., 93d:35113**

Shinkarenko, G. A. *see* **Zubov, V. M.**

Šilhavý, Miroslav *see* **Nečas, Jindřich; et al., 93e:35089**

Souček, Jiří *see* **Giaquinta, M.; et al., 93h:49062**

Spruck, Joel *see* **Turkington, Bruce; et al., 93m:76075**

Sritharan, S. S. Pontryagin maximum principle and dynamic programming for viscous hydrodynamics. **93g:76039**

Steinbach, Jörg (*with* Weinelt, Wilfried) Mathematical modelling of the injection moulding process. **93g:76050**

Stojanovic, Srdjan Computations for variational free boundary problem modeling injection of fluid from a slot into a stream. **93c:76082**

Svyat-skov, V. A. Incorrect extremals in a problem on an axisymmetric body in a hypersonic gas flow. (Russian. Russian summary) **93e:76048**

Tahraoui, R. Contrôle optimal dans les équations elliptiques. (English summary) [Optimal control in elliptic equations] **93d:49006**

Tournemine, G. *see* **Pogu, Marc, 93g:76074**

Turkington, Bruce (*with* Lifschitz, Alexander E.; Eydeland, Alexander; Spruck, Joel) Multiconstrained variational problems in magnetohydrodynamics: equilibrium and slow evolution. (English summary) **93m:76075**

Vasil'ev, A. N. (*with* Kuznetsov, N. G.) Some extremal problems that arise in acoustics. (Russian) (*see* **93d:35001**)

Virga, Epifanio G. *see* **Roccato, Diego, 93f:76006** *and* **Mizel, Victor J.; et al., 93g:58033**

Vuk, Elena An existence and uniqueness theorem for a viscous fluid with memory. (Italian. English summary) **93b:76005**

Weinelt, Wilfried (*with* Goncharov, A. L.; Fryazinov, I. V.; Hartwig, Karl-Heinz) Numerical methods for solving the problem of injection of plastic into thin forms. (Russian. Russian summary) **93k:76031**

— *see also* **Steinbach, Jörg, 93g:76050**

Zeng, Xiaogang (*with* Bielak, Jacobo; MacCamy, Richard C.) Unified symmetric finite element and boundary integral variational coupling methods for linear fluid-structure interaction. (English summary) **93d:76041**

Zubov, V. M. (*with* Shinkarenko, G. A.) Application of the penalty method for the solution of stationary problems of hydrodynamics with mixed boundary conditions. (Ukrainian)

76M35 Stochastic analysis

L'vov, V. A. A probabilisitic problem that arises in describing the motion of solid particles in a fluid. (Russian) **93i:76071**

Items with secondary classifications in 76M35

Aref, Hassan Stochastic particle motion in laminar flows. (English summary) **93k:76062**

Avellaneda, Marco (*with* Majda, Andrew J.) Mathematical models with exact renormalization for turbulent transport. II. Fractal interfaces, non-Gaussian statistics and the sweeping effect. **93g:76066**

Bernard, Pierre Quelques méthodes particulaires stochastiques. [Some stochastic particle methods] (*see* **93k:65002**)

Black, D. W. *see* **Rothmayer, A. P., 93i:76047**

Bonomi, Ernesto *see* **Brieger, Leesa, 93j:82069**

Börgers, Christoph (*with* Greengard, Claude; Thomann, Enrique) The diffusion limit of free molecular flow in thin plane channels. **93g:76101**

Breuer, H. P. (*with* Petruccione, Francesco) A stochastic formulation of Burgers' equation. (English summary) **93j:76028**

Brieger, Leesa (*with* Bonomi, Ernesto) A stochastic lattice gas for Burgers' equation: a practical study. (English summary) **93j:82069**

Brzeźniak, Zdzisław (*with* Capiński, Marek; Flandoli, Franco) Stochastic Navier-Stokes equations with multiplicative noise. (English summary) **93m:35140**

Capiński, Marek (*with* Szafirski, Bolesław) Hopf equation for diffusion in random velocity field. (English summary) **93g:35071**

— (*with* Cutland, Nigel J.) Stochastic Navier-Stokes equations. **93b:35108**

— (*with* Cutland, Nigel J.) Navier-Stokes equations with multiplicative noise. (English summary) **93j:35130**

— *see also* **Brzeźniak, Zdzisław; et al., 93m:35140**

Chorin, Alexandre Joel Equilibrium statistics of a vortex filament with applications. **93j:76041**

Christov, Christo Ivanov (*with* Nartov, V. P.) ★ Точечные случайные функции и крупномасштабная турбулентность. (Russian. Russian summary) [Pointwise random functions and large-scale turbulence] **93m:76046**

Clercx, H. J. H. (*with* Schram, P. P. J. M.) Brownian particles in shear flow and harmonic potentials: a study of long-time tails. (English summary) **93e:82042**
Cutland, Nigel J. *see* **Capiński, Marek, 93b:35108** *and* **93j:35130**
Flandoli, Franco *see* **Brzeźniak, Zdzisław; et al., 93m:35140**
Fursikov, A. V. On the problem of closure of a chain of moment equations in the case of large Reynolds numbers. (Russian) **93f:76024**
— The moment theory for Navier-Stokes equations with a random right-hand side. (Russian. Russian summary) **93m:35142**
Ghosh, S. C. (*with* Mazumdar, Himadri Pai) Study of a homogeneous turbulent flow possessing helicity by a correlation method. **93e:76038**
Glimm, James *see* **Zhang, Qiang, 93g:76068**
Gotoh, Toshiyuki (*with* Kraichnan, Robert H.) Statistics of decaying Burgers turbulence. (English summary) **93k:76060**
Greengard, Claude *see* **Börgers, Christoph; et al., 93g:76101**
Griniv, O. O. A central limit theorem for the Burgers equation. (Russian. English summary) **93f:35202**
Haba, Zbigniew Ergodicity and invariant measures of some randomly perturbed classical fields. **93c:58112**
Helland, K. (*with* Lii, Keh-Shin; Rosenblatt, Murray) Monte Carlo and turbulence. **93a:65006**
Icha, Andrzej Solution of a turbulent heat conductivity equation in the Oseen's approximation. **93e:76044**
Khisamutdinov, A. I. Algorithms with "different time coordinates" of Monte Carlo methods for a nonlinear "smoothed" Boltzmann equation. (Russian) **93b:82078**
Kotelenez, Peter (*with* Mann, J. Adin, Jr.) Random vortex models and stochastic partial differential equations. (English summary) **93g:35112**
Kraichnan, Robert H. *see* **Gotoh, Toshiyuki, 93k:76060**
Landahl, M. T. (*with* Mollo-Christensen, E.) ★ Turbulence and random processes in fluid mechanics. **93m:76047**
Lii, Keh-Shin *see* **Helland, K.; et al., 93a:65006**
Lindstrøm, Tom (*with* Øksendal, Bernt; Ubøe, Jan) Stochastic modelling of fluid flow in porous media. (*see* **93a:93005**)
Majda, Andrew J. *see* **Avellaneda, Marco, 93g:76066**
Mann, J. Adin, Jr. *see* **Kotelenez, Peter, 93g:35112**
Marra, Rossana Hydrodynamical stochastic formalism and representation formulas. **93a:60090**
Mazumdar, Himadri Pai *see* **Ghosh, S. C., 93e:76038**
McNamara, Sean (*with* Young, W. R.) Kinetics of a one-dimensional granular medium in the quasielastic limit. (English summary) **93i:76006**
Meneveau, Charles *see* **O'Neil, John, 93i:76045**
Mollo-Christensen, E. *see* **Landahl, M. T., 93m:76047**
Monin, A. S. Jointly orthogonal expansions of multicomponent random functions. (Russian)
Nachbin, A. (*with* Papanicolaou, G. C.) Water waves in shallow channels of rapidly varying depth. (English summary) **93f:76015**
Nartov, V. P. *see* **Christov, Christo Ivanov, 93m:76046**
Øksendal, Bernt *see* **Lindstrøm, Tom; et al.,** (**93a:93005**)
O'Neil, John (*with* Meneveau, Charles) Spatial correlations in turbulence: predictions from the multifractal formalism and comparison with experiments. (English summary) **93i:76045**
Papanicolaou, G. C. *see* **Nachbin, A., 93f:76015**
Peckham, Scott (*with* Waymire, Edward C.) On a symmetry of turbulence. **93c:76053**
Petruccione, Francesco *see* **Breuer, H. P., 93j:76028**
Pinsky, Mark A. ★ Lectures on random evolution. **93b:60160**
Poulisse, Hennie N. J. Effective absolute permeability in the presence of sub-grid heterogeneities: an analytical approach. **93c:76079**
Pulliam, Thomas H. (*with* Vastano, John A.) Transition to chaos in an open unforced 2D flow. (English summary) **93m:76051**
Robert, Raoul (*with* Sommeria, J.) Statistical equilibrium states for two-dimensional flows. **93d:76034**
— A maximum-entropy principle for two-dimensional perfect fluid dynamics. **93b:76049**
Rosenblatt, Murray *see* **Helland, K.; et al., 93a:65006**
Rothmayer, A. P. (*with* Black, D. W.) On the temporal evolution of finite ensembles. (English summary) **93i:76047**
Ryrie, Susan C. Mixing by chaotic advection in a class of spatially periodic flows. **93b:76050**
Schram, P. P. J. M. *see* **Clercx, H. J. H., 93e:82042**
Smith, Leslie M. *see* **Yakhot, Victor, 93c:76054**
Sommeria, J. *see* **Robert, Raoul, 93d:76034**
Szafirski, Bolesław *see* **Capiński, Marek, 93g:35071**
(Talay, Denis) *see* **Bernard, Pierre,** (**93k:65002**)
Thomann, Enrique *see* **Börgers, Christoph; et al., 93g:76101**
Tsinober, A. How solenoidal can be the Lamb vector in turbulent flow? Consequences and implications. **93a:76060**
(Tubaro, L.) *see* **Bernard, Pierre,** (**93k:65002**)
Ubøe, Jan *see* **Lindstrøm, Tom; et al.,** (**93a:93005**)
Vastano, John A. *see* **Pulliam, Thomas H., 93m:76051**
Voronina, V. A. A stochastic algorithm for solving an initial-boundary value problem for the Boltzmann equation. (Russian) **93f:76085**
— A stochastic method for solving an initial-boundary value problem for the Boltzmann equation. (Russian) **93i:76078**
Wagner, Wolfgang[1] A convergence proof for Bird's direct simulation Monte Carlo method for the Boltzmann equation. **93f:82053**
Waymire, Edward C. *see* **Peckham, Scott, 93c:76053**
Yakhot, Victor (*with* Smith, Leslie M.) The renormalization group, the ϵ-expansion and derivation of turbulence models. **93c:76054**
Yokoi, Nobumitsu (*with* Yoshizawa, Akira) Statistical analysis of the effects of helicity in inhomogeneous turbulence. (English summary) **93k:76069**
Yoshizawa, Akira *see* **Yokoi, Nobumitsu, 93k:76069**
Young, W. R. *see* **McNamara, Sean, 93i:76006**
Zhang, Qiang (*with* Glimm, James) Inertial range scaling of laminar shear flow as a model of turbulent transport. **93g:76068**

76M99 None of the above, but in this section

Achard, J.-L. *see* **Canot, E., 93d:76053**
Alexopoulos, A. H. *see* **Klibi, A.; et al.**
Bogomolov, S. V. The particle method for the Burgers equation. (Russian. English summary) **93b:76068**
Canot, E. (*with* Achard, J.-L.) An overview of boundary integral formulations for potential flows in fluid-fluid systems. **93d:76053**
Cercignani, Carlo *see* **Stefanov, S. K.**
Debnath, Lokenath The Hilbert transform and its applications to fluid dynamics. **93h:76059**
Holm, Darryl D. (*with* Kimura, Yoshifumi) Zero-helicity Lagrangian kinematics of three-dimensional advection. (English summary) **93k:76095**
Johansson, B. Christer V. Boundary conditions for open boundaries for the incompressible Navier-Stokes equation. (English summary) **93m:76064**
Keefe, Laurence R. Two nonlinear control schemes contrasted on a hydrodynamiclike model. (English summary) **93k:76096**
Kimura, Yoshifumi *see* **Holm, Darryl D., 93k:76095**
Kingdon, R. D. (*with* Schofield, P.; White, L.) A lattice Boltzmann model for the simulation of fluid flow. **93d:76054**
Klibi, A. (*with* Alexopoulos, A. H.; Wiest, J. M.) Singularity cancellation in boundary integral equations for axisymmetric Stokes flow.
Ladygin, V. S. A high-speed algorithm for spline calculation. (Russian) **93b:76069**
Murai, Takafumi The role of the Hilbert transform in 2-dimensional aerodynamics. **93g:76096**
Nasilowski, Ralf A cellular-automaton fluid model with simple rules in arbitrarily many dimensions. **93a:76080**
Peskin, Charles S. *see* **Tu, Cheng, 93g:76097**
Schofield, P. *see* **Kingdon, R. D.; et al., 93d:76054**
Shishkov, S. Yu. The method of ξ-compensators in hydrodynamics. (Russian. English and Russian summaries) **93m:76065**
Stefanov, S. K. (*with* Cercignani, Carlo) Monte Carlo simulation of Bénard's instability in a rarefied gas. (English summary)
Tu, Cheng (*with* Peskin, Charles S.) Stability and instability in the computation of flows with moving immersed boundaries: a comparison of three methods. (English summary) **93g:76097**
White, L. *see* **Kingdon, R. D.; et al., 93d:76054**
Wiest, J. M. *see* **Klibi, A.; et al.**

Items with secondary classifications in 76M99

Ahmed, N. U. Optimal control of hydrodynamic flow with possible application to artificial heart. **93e:49053**
Aleksidze, M. A. ★ Фундаментальные функции в приближенных решеннях граничных задач. (Russian) [Fundamental functions in approximate solutions of boundary value problems] **93c:65155**
Andrianov, I. V. Application of Padé-approximants in perturbation methods. (English and Russian summaries) **93j:73061**
Aref, Hassan Stochastic particle motion in laminar flows. (English summary) **93k:76062**
Armbruster, Dieter (*with* Heiland, Randy; Kostelich, Eric J.; Nicolaenko, Basil) Phase-space analysis of bursting behavior in Kolmogorov flow. (English summary) **93i:76046**
Avellaneda, Marco (*with* Majda, Andrew J.) Approximate and exact renormalization theories for a model for turbulent transport. **93g:76067**
Avkhadiev, F. G. Conditions for the univalence of the solution in problems of constructing wing profiles. (Russian) **93g:76015**
Bena, D. Influence of small local deformations on an airfoil profile. (Romanian. Romanian summary)
Berkooz, Gal *see* **Holmes, Philip J.; et al., 93c:76046**
Beyer, R. P. (*with* LeVeque, Randall J.) Analysis of a one-dimensional model for the immersed boundary method. **93a:65123**
Caglioti, E. (*with* Lions, Pierre-Louis; Marchioro, Carlo; Pulvirenti, Mario) A special class of stationary flows for two-dimensional Euler equations: a statistical mechanics description. **93i:82060**
Cardoş, Vladimir General integral method in the study of supersonic flows past slender bodies. (English summary) **93m:76053**
Chandna, O. P. (*with* Nguyen, P. V.) Steady plane orthogonal MHD flows. (English, German and Russian summaries) **93k:76122**
Chaté, Hugues (*with* Manneville, Paul) Transition to turbulence via spatiotemporal intermittency: modeling and critical properties. **93f:76055**
Chebotarëv, A. Yu. Optimal control problems for plane flows of a viscous incompressible fluid. (Russian. Russian summary) **93f:76023**
Christov, Christo Ivanov (*with* Nartov, V. P.) ★ Точечные случайные функции и крупномасштабная турбулентность. (Russian. Russian summary) [Pointwise random functions and large-scale turbulence] **93m:76046**
Cioranescu, Doïna (*with* Saint Jean Paulin, J.) Particules déformables en suspension dans un fluide visqueux. (English summary) [Suspensions of deformable particles in a viscous fluid] **93b:76029**
Coggeshall, S. V. (*with* Meyer-ter-Vehn, J.) Group-invariant solutions and optimal systems for multidimensional hydrodynamics. (English summary) **93h:58169**
Cousteix, J. Calculation methods of three-dimensional boundary layers. (English summary) **93f:76028**
Croisille, Jean-Pierre (*with* Delorme, Philippe) Kinetic symmetrizations and pressure laws for the Euler equations. (English and French summaries) **93g:76098**
Delorme, Philippe *see* **Croisille, Jean-Pierre, 93g:76098**
Douglas, Jim, Jr. Three models for waterflooding in a naturally fractured petroleum reservoir. (*see* **93b:65007**)
Euvrard, Daniel (*with* Lenoir, Marc André) About nonhomogeneous free-surface conditions in hydrodynamics and underwater acoustics. **93a:76007**

Fasano, Antonio (*with* Primicerio, Mario; Rosso, F.) On quasi-steady axisymmetric flows of Bingham type with stress-induced degradation. (English and German summaries) **93j:76009**

Fattorini, H. O. (*with* Sritharan, S. S.) Existence of optimal controls for viscous flow problems. (English summary) **93h:49014**

de Frutos, Javier (*with* Sanz-Serna, J. M.) An easily implementable fourth-order method for the time integration of wave problems. (English summary) **93h:65117**

Gunzburger, Max D. (*with* Hou, LiSheng; Svobodny, Thomas P.) A numerical method for drag minimization via the suction and injection of mass through the boundary. (English summary) (*see* **93c:93006**)

Gupta, Sumnesh Computing aspects of molecular dynamics simulation.

Gustafson, Karl E. (*with* Halasi, K.) The flow semigroup approximation problem. **93m:47073**

Halasi, K. *see* **Gustafson, Karl E., 93m:47073**

Harari, Isaac (*with* Hughes, Thomas J. R.) Analysis of continuous formulations underlying the computation of time-harmonic acoustics in exterior domains. (English summary) **93h:76068**

Hebeker, F.-K. An integral equation of the first kind for a free boundary value problem of the stationary Stokes' equations. (English summary) **93g:35147**

Heiland, Randy *see* **Armbruster, Dieter; et al., 93i:76046**

Higdon, Robert L. Absorbing boundary conditions for acoustic and elastic waves in stratified media. **93c:73035**

Holmes, Philip J. (*with* Berkooz, Gal; Lumley, John L.) Turbulence, dynamical systems and the unreasonable effectiveness of empirical eigenfunctions. **93c:76046**

Hou, LiSheng *see* **Gunzburger, Max D.; et al., (93c:93006)**

Hughes, Thomas J. R. *see* **Harari, Isaac, 93h:76068**

Ichiyanagi, Masakazu Field-theoretic approach to hydrodynamics. I. The Clebsch transformation of the hydrodynamic equation. **93a:76002a**

— Field-theoretic approach to hydrodynamics. II. The superfluid hydrodynamics. **93a:76002b**

James, Douglas Implicit nullspace iterative methods for constrained least squares problems. **93b:65055**

Jeans, R. (*with* Mathews, I. C.) A comparison of numerical collocation and variational procedures to the hypersingular acoustic integral operator. (English summary) **93m:76066**

Kahlig, P. Note on self-similarity and dimensional analysis. **93b:76080**

Kamenetskii, D. S. (*with* Tsynkov, S. V.) On the construction of images of simply connected domains realized by solutions of a system of Beltrami equations. (Russian. English summary) **93d:35036**

Kochina, N. N. On the motion of a viscous fluid in a pipe of finite length. (Russian. Russian summary) **93g:76046**

Kostelich, Eric J. *see* **Armbruster, Dieter; et al., 93i:76046**

Lenoir, Marc André *see* **Euvrard, Daniel, 93a:76007**

LeVeque, Randall J. *see* **Beyer, R. P., 93a:65123**

Lichtenberg, Allan J. Arnol'd diffusion in a torus with time-varying fields. (English summary) **93g:76116**

Lions, Pierre-Louis *see* **Caglioti, E.; et al., 93i:82060**

Luat, Le Kim *see* **Tràn Gia Lịch, 93m:76012**

Lumley, John L. *see* **Holmes, Philip J.; et al., 93c:76046**

Majda, Andrew J. *see* **Avellaneda, Marco, 93g:76067**

Manneville, Paul *see* **Chaté, Hugues, 93f:76055**

Marchioro, Carlo *see* **Caglioti, E.; et al., 93i:82060**

Mathews, I. C. *see* **Jeans, R., 93m:76066**

McIver, P. (*with* Rawlins, A. D.) Two-dimensional wave-scattering problems involving parallel-walled ducts. (English summary) **93m:76009**

Meyer-ter-Vehn, J. *see* **Coggeshall, S. V., 93h:58169**

Nabben, Reinhard On a class of matrices which arise in the numerical solution of Euler equations. (English summary) **93k:65037**

Nartov, V. P. *see* **Christov, Christo Ivanov, 93m:76046**

Nguyen, P. V. *see* **Chandna, O. P., 93k:76122**

Nicolaenko, Basil *see* **Armbruster, Dieter; et al., 93i:76046**

Olla, Piero Renormalization-group analysis of two-dimensional incompressible turbulence. **93d:76033**

Pozrikidis, C. ★ Boundary integral and singularity methods for linearized viscous flow. **93a:76027**

Primicerio, Mario *see* **Fasano, Antonio; et al., 93j:76009**

Pulvirenti, Mario *see* **Caglioti, E.; et al., 93i:82060**

Rawlins, A. D. *see* **McIver, P., 93m:76009**

Riedel, K. S. Quasilinear driven transport in a sheared flow field. **93e:76040**

Risebro, Nils Henrik A front-tracking alternative to the random choice method. **93e:35071**

Rosso, F. *see* **Fasano, Antonio; et al., 93j:76009**

Saint Jean Paulin, J. *see* **Cioranescu, Doïna, 93b:76029**

Sanz-Serna, J. M. *see* **de Frutos, Javier, 93h:65117**

Shaw, J. A. (*with* Weatherill, N. P.) Automatic topology generation for multiblock grids. (English summary)

Sritharan, S. S. *see* **Fattorini, H. O., 93h:49014**

Svobodny, Thomas P. *see* **Gunzburger, Max D.; et al., (93c:93006)**

Tràn Gia Lịch (*with* Luat, Le Kim) Boundary conditions for the two-dimensional Saint-Venant equation system. **93m:76012**

Tsynkov, S. V. *see* **Kamenetskii, D. S., 93d:35036**

Vavasis, Stephen A. Preconditioning for boundary integral equations. **93b:65062**

Weatherill, N. P. *see* **Shaw, J. A.**

Wegert, E. (*with* von Wolfersdorf, Lothar) Plane potential flow past a cylinder with porous surface. (English summary) **93j:76021**

Weiss, Jeffrey B. Transport and mixing in traveling waves. (English summary) **93k:76027**

Willeboordse, Frederick H. Time-delayed map as a model for open fluid flow. (English summary) **93g:76051**

von Wolfersdorf, Lothar *see* **Wegert, E., 93j:76021**

Zeitlin, V. Yu. Vorticity and waves: geometry of phase-space and the problem of normal variables. **93c:76015**

76Nxx Compressible fluids and gas dynamics, general

Items with secondary classifications in 76Nxx

(Dervieux, Alain) *see* **Numerical simulation of compressible Euler flows, 93b:76056**

(van Leer, Bram) *see* **Numerical simulation of compressible Euler flows, 93b:76056**

(Périaux, Jacques) *see* **Numerical simulation of compressible Euler flows, 93b:76056**

(Rizzi, Arthur) *see* **Numerical simulation of compressible Euler flows, 93b:76056**

Zeytounian, Radyadour Kh. ★ Les modèles asymptotiques de la mécanique des fluides. II. (French) [Asymptotic models of fluid mechanics. II] **93i:76002**

Items listed otherwise than by author

Lecture Notes in Physics *see* **Zeytounian, Radyadour Kh., 93i:76002**

Numerical simulation of compressible Euler flows ★ Numerical simulation of compressible Euler flows. **93b:76056**

Rocquencourt ★ Numerical simulation of compressible Euler flows. **93b:76056**

Workshop:

Numerical Simulation of Compressible Euler Flows ★ Numerical simulation of compressible Euler flows. **93b:76056**

76N10 Compressible fluids, general [see also 35Q30]

Anderson, J. D. (*with* Degrez, G.; Dick, Erik; Grundmann, R.) ★ Computational fluid dynamics. **93a:76081**

Badanin, A. V. (*with* Belinskiĭ, B. P.; Il'inskiĭ, K. N.; Uzdin, V. M.) Supersymmetry and acoustic problems. (Russian. English and Russian summaries) **93f:76080**

Belinskii, B. P. *see* **Badanin, A. V.; et al., 93f:76080**

Boldrini, José Luiz Stationary spatially periodic compressible flows at high Mach number. **93b:76070**

Chen, Gui Qiang Global solutions to the compressible Navier-Stokes equations for a reacting mixture. **93h:76060**

Chen, Xinfu Collision of two jets of compressible fluid. (*see* **93k:00036**)

Croisille, Jean-Pierre (*with* Delorme, Philippe) Kinetic symmetrizations and pressure laws for the Euler equations. (English and French summaries) **93g:76098**

Degrez, G. *see* **Anderson, J. D.; et al., 93a:76081**

Delorme, Philippe *see* **Croisille, Jean-Pierre, 93g:76098**

Dick, Erik *see* **Anderson, J. D.; et al., 93a:76081**

Eberle, Albrecht (*with* Rizzi, Arthur; Hirschel, Ernst Heinrich) ★ Numerical solutions of the Euler equations for steady flow problems. **93f:76081**

Garadzhaev, A. (*with* Orazov, M. B.) Spectral theory of a problem on normal oscillations of an ideal compressible fluid in a rotating elastic vessel. (Russian) **93f:76082**

Giovine, Pasquale (*with* Oliveri, Francesco) Wave features related to a model of compressible immiscible mixtures of two perfect fluids. (English summary) **93i:76072**

Glazkov, Yu. V. (*with* Shcherbak, V. G.) Solution of parabolized Navier-Stokes equations by the method of iteration with respect to the pressure gradient. (Russian. Russian summary)

Grundmann, R. *see* **Anderson, J. D.; et al., 93a:76081**

Hirschel, Ernst Heinrich *see* **Eberle, Albrecht; et al., 93f:76081**

Il'inskii, K. N. *see* **Badanin, A. V.; et al., 93f:76080**

Korobkin, A. A. Acoustic approximation in the problem of the immersion of a blunt contour in an ideal fluid. (Russian) **93j:76049**

Lupu, Mircea Generalization and study of the Zhukovskiĭ-Roshko-Eppler model in the case of axially symmetric jets using the theory of (P, Q)-analytic functions. (Romanian) **93d:76055**

Matsumura, Akitaka (*with* Nishihara, Kenji) Global stability of the rarefaction wave of a one-dimensional model system for compressible viscous gas. **93d:76056**

— Large-time behavior of the spherically symmetric solutions of an isothermal model of compressible viscous gas. (English summary) **93i:76073**

Mikhailov, A. P. (*with* Stepanova, V. V.) Nonlocalized blow-up solutions of the piston problem. (Russian. English and Russian summaries) **93g:76099**

Nishihara, Kenji *see* **Matsumura, Akitaka, 93d:76056**

Oliveri, Francesco *see* **Giovine, Pasquale, 93i:76072**

Orazov, M. B. *see* **Garadzhaev, A., 93f:76082**

Padula, Mariarosaria Stability properties of regular flows of heat-conducting compressible fluids. **93h:76061**

Rizzi, Arthur *see* **Eberle, Albrecht; et al., 93f:76081**

Serre, Denis Transitions de phase et oscillations de grande amplitude. (English summary) [Phase transitions and large-amplitude oscillations] **93a:76082**

Shcherbak, V. G. *see* **Glazkov, Yu. V.**

Stepanova, V. V. *see* **Mikhailov, A. P., 93g:76099**

Uzdin, V. M. *see* **Badanin, A. V.; et al., 93f:76080**

Wendroff, Burton Composite flows. (English summary) **93j:76050**

(Wendt, John F.) *see* **Anderson, J. D.; et al., 93a:76081**

Items with secondary classifications in 76N10

Alinhac, Serge Une solution approchée en grand temps des équations d'Euler compressibles axisymétriques en dimension deux. [A large-time approximate solution for two-dimensional axisymmetric compressible Euler equations] **93f:35175**

Bardos, Claude (*with* Ukai, Seiji) The classical incompressible Navier-Stokes limit of the Boltzmann equation. **93a:76023**

Bayly, Bruce (*with* Levermore, C. David; Passot, T.) Density variations in weakly compressible flows. **93a:76049**

Beirão da Veiga, H. Attracting properties for one-dimensional flows of a general barotropic viscous fluid. Periodic flows. (English summary) **93e:35084**

Benda, Josef Solution of an ideal compressible fluid flow in a plane cascade by the finite element method. (*see* **93b:65007**)

Bourgat, Jean-François (*with* Le Tallec, Patrick; Tidriri, Driss; Qiu, Youchim) Numerical coupling of nonconservative or kinetic models with the conservative compressible Navier-Stokes equations. (English summary) (*see* **93g:65009**)

Bristeau, Marie Odile (*with* Glowinski, Roland; Dutto, Laura C.; Périaux, Jacques; Rogé, G.) On recent numerical simulations of compressible Navier-Stokes flows. (English

summary) **93f:76074**

Cao, Wei Ming *see* **Guo, Ben Yu, 93j:65159**

Carlenzoli, Claudio (*with* Quarteroni, Alfio; Valli, Alberto) Spectral domain decomposition methods for compressible Navier-Stokes equations. (English summary) **93h:65123**

Chalot, Frédéric L. (*with* Franca, Leopoldo P.; Harari, Isaac; et al.) Calculation of two-dimensional compressible Euler flows with a new Petrov-Galerkin finite element method. (*see* **93b:76056**)

Cheng, Ai Jie A finite element method for displacement problems involving compressible miscible fluids. (Chinese. English and Chinese summaries) **93h:76047**

Conca, C. (*with* Planchard, J.; Vanninathan, M.) Resonance frequencies of a cavity containing a compressible viscous fluid. (English summary) **93m:73030**

Dahlburg, R. B. (*with* Picone, J. M.) Pseudospectral simulation of compressible magneto-hydrodynamic turbulence. (English summary) (*see* **93d:65005**)

Dean, E. J. (*with* Dinh, Q. V.; Glowinski, Roland; He, Jiwen; Pan, T. W.; Périaux, Jacques) Least squares/domain imbedding methods for Neumann problems: applications to fluid dynamics. (English summary) **93h:65152**

Demkowicz, Leszek *see* **Edwards, Michael G.; et al., 93m:65142**

De Vuyst, Florian Un nouveau schéma numérique pour la résolution des équations d'Euler compressibles. (English summary) [A new numerical scheme for solving the compressible Euler equations] **93d:65090**

Dinh, Q. V. *see* **Dean, E. J.; et al., 93h:65152**

Don, Wai-Sun (*with* Gottlieb, David) Spectral simulations of an unsteady compressible flow past a circular cylinder. (English summary) (*see* **93d:65005**)

Druzhinin, O. A. (*with* Khomenko, G. A.; Moiseev, S. S.) Turbulent forcing and large-scale instability of compressible flows. (English summary) (*see* **93g:76004**)

Dutto, Laura C. The effect of ordering on preconditioned GMRES algorithm, for solving the compressible Navier-Stokes equations. (English summary) **93h:76048**

— *see also* **Bristeau, Marie Odile; et al., 93f:76074**

E, Weinan Propagation of oscillations in the solutions of 1-D compressible fluid equations. **93a:35120**

Edwards, Michael G. (*with* Oden, J. Tinsley; Demkowicz, Leszek) An *h-r*-adaptive approximate Riemann solver for the Euler equations in two dimensions. (English summary) **93m:65142**

Franca, Leopoldo P. *see* **Chalot, Frédéric L.; et al., (93b:76056)**

Fröhlich, J. (*with* Peyret, Roger) Direct spectral methods for the low Mach number equations. (English summary) **93f:76075**

Gauthier, Serge A semi-implicit collocation method: application to two-dimensional compressible convection. (English summary) (*see* **93d:65005**)

Glaister, P. Cylindrically symmetric flows in a Lagrangian frame. (English summary) **93k:76085**

Glowinski, Roland (*with* Pironneau, Olivier) Finite element methods for Navier-Stokes equations. **93c:76059**

— *see also* **Bristeau, Marie Odile; et al., 93f:76074** *and* **Dean, E. J.; et al., 93h:65152**

Glushko, A. V. (*with* Rybakov, S. O.) The Dirichlet problem in a half-space for a system of equations of motion of a viscous compressible rotating fluid. (Russian. Russian summary) (*see* **93d:35002**)

— (*with* Rybakov, S. O.) A localization theorem for a problem on the dynamics of a rotating viscous compressible fluid. (Russian) **93d:35114**

— (*with* Rybakov, S. O.) Asymptotic behavior with respect to time of the solution of an initial-boundary value problem in a half-space for equations of the dynamics of a rotating viscous compressible fluid. (Russian. Russian summary) **93i:35022**

Gottlieb, David *see* **Don, Wai-Sun, (93d:65005)**

Guillard, H. (*with* Malé, J. M.; Peyret, Roger) Adaptive spectral methods with application to mixing layer computations. (English summary) **93e:76057**

Guo, Ben Yu (*with* Cao, Wei Ming) Spectral-finite element method for compressible fluid flow. (Chinese. English and Chinese summaries) **93j:65159**

Harari, Isaac *see* **Chalot, Frédéric L.; et al., (93b:76056)**

Hassan, O. (*with* Morgan, Kenneth; Peraire, J.) Finite-element solution scheme for compressible viscous flow. (*see* **93e:76050**)

He, Jiwen *see* **Dean, E. J.; et al., 93h:65152**

Hoff, David Global well-posedness of the Cauchy problem for the Navier-Stokes equations of nonisentropic flow with discontinuous initial data. **93f:35178**

Jeng, Yih Nen (*with* Payne, Uon Jien) The application of the locally implicit method to upwind TVD schemes. (English summary) **93m:76059**

Keyfitz, Barbara Lee Change of type in simple models for two-phase flow. **93d:76071**

Khomenko, G. A. *see* **Druzhinin, O. A.; et al., (93g:76004)**

Klein, Rupert *see* **Ting, L., 93a:76025**

Kokovikhina, O. V. Application of Galerkin's method to a problem on the propagation of acoustic vibrations. (Russian) **93c:76072**

Lachowicz, Mirosław Stochastic systems modelling the hydrodynamic equations. (*see* **93a:82002**)

Lebovitz, Norman (*with* Lifschitz, Alexander E.) Short wavelength instabilities of rotating, compressible fluid masses. (English summary) **93g:76055**

Lele, Sanjiva K. *see* **Poinsot, T. J., 93d:76050**

Le Tallec, Patrick *see* **Bourgat, Jean-François; et al., (93g:65009)**

Levermore, C. David *see* **Bayly, Bruce; et al., 93a:76049**

Levitin, M. R. Vibrations of a viscous compressible fluid in bounded and unbounded domains. (*see* **93h:00019**)

— On the spectrum of a generalized Cosserat problem. (English and French summaries) **93i:35099**

— *see also* **Vasil'ev, D. G.; et al., 93k:73067**

Lidskii, V. B. *see* **Vasil'ev, D. G.; et al., 93k:73067**

Lifschitz, Alexander E. *see* **Lebovitz, Norman, 93g:76055**

Lin, Zheng Guo Singular limits of the initial-boundary value problem for compressible fluids. (Chinese) **93f:35180**

Lovicar, Vladimír (*with* Straškraba, Ivan) Remark on cavitation solutions of stationary compressible Navier-Stokes equations in one dimension. **93d:35120**

Makino, Tetu (*with* Mizohata, Kiyoshi; Ukai, Seiji) The global weak solutions of compressible Euler equation with spherical symmetry. (English summary) **93k:35205**

Malé, J. M. *see* **Guillard, H.; et al., 93e:76057**

Maslennikova, V. N. (*with* Petunin, I. M.) Uniform stabilization as $t \to \infty$ of the solution of the Cauchy problem for a system of acoustic vibrations in a compressible medium. (Russian. Russian summary) **93j:76055**

Matthaeus, W. H. *see* **Zank, G. P., 93k:76127**

Mayer, Ernst W. (*with* Powell, Kenneth G.) Similarity solutions for viscous vortex cores. **93b:76026**

Mizohata, Kiyoshi *see* **Makino, Tetu; et al., 93k:35205**

Moiseev, S. S. *see* **Druzhinin, O. A.; et al., (93g:76004)**

Morgan, Kenneth *see* **Hassan, O.; et al., (93e:76050)**

Mulder, Wim A. A high-resolution Euler solver based on multigrid, semi-coarsening, and defect correction. **93b:76067**

Nasilowski, Ralf A cellular-automaton fluid model with simple rules in arbitrarily many dimensions. **93a:76080**

Nečas, Jindřich (*with* Novotný, Antonín; Šilhavý, Miroslav) Global solution to the compressible isothermal multipolar fluid. **93e:35089**

Novotný, Antonín (*with* Padula, Mariarosaria) On the stability of the rest state of compressible multipolar fluids. (English summary) **93k:76056**

— *see also* **Nečas, Jindřich; et al., 93e:35089**

Oden, J. Tinsley *see* **Edwards, Michael G.; et al., 93m:65142**

Padula, Mariarosaria *see* **Novotný, Antonín, 93k:76056**

Pan, T. W. *see* **Dean, E. J.; et al., 93h:65152**

Passot, T. *see* **Bayly, Bruce; et al., 93a:76049**

Payne, Uon Jien *see* **Jeng, Yih Nen, 93m:76059**

Peng, Yue Jun Solutions faibles globales pour l'équation d'Euler d'un fluide compressible avec de grandes données initiales. (English summary) [Global weak solutions for the Euler equation of a compressible fluid with large initial data] **93e:35083**

Peraire, J. *see* **Hassan, O.; et al., (93e:76050)**

Périaux, Jacques *see* **Bristeau, Marie Odile; et al., 93f:76074** *and* **Dean, E. J.; et al., 93h:65152**

Petunin, I. M. *see* **Maslennikova, V. N., 93j:76055**

Peyret, Roger *see* **Guillard, H.; et al., 93e:76057** *and* **Fröhlich, J., 93f:76075**

Picone, J. M. *see* **Dahlburg, R. B., (93d:65005)**

Pironneau, Olivier *see* **Glowinski, Roland, 93c:76059**

Planchard, J. *see* **Conca, C.; et al., 93m:73030**

Poinsot, T. J. (*with* Lele, Sanjiva K.) Boundary conditions for direct simulations of compressible viscous flows. **93d:76050**

Powell, Kenneth G. *see* **Mayer, Ernst W., 93b:76026**

Qiu, Youchim *see* **Bourgat, Jean-François; et al., (93g:65009)**

Quarteroni, Alfio *see* **Carlenzoli, Claudio; et al., 93h:65123**

Rogé, G. *see* **Bristeau, Marie Odile; et al., 93f:76074**

Rybakov, S. O. *see* **Glushko, A. V., 93d:35114; 93i:35022** *and* **(93d:35002)**

Sarkar, Sutanu *see* **Shivamoggi, Bhimsen K., (93j:76004)**

Schochet, Steven Glimm's scheme for systems with almost-planar interactions. **93a:35106**

Secchi, Paolo On nonviscous compressible fluids in a time-dependent domain. (English and French summaries) **93m:35137**

Shivamoggi, Bhimsen K. Spectral laws for the compressible isotropic turbulence. (English summary) (*see* **93j:76004**)

— (*with* Sarkar, Sutanu) Nonlinear wave interactions in compressible turbulence. (English summary) (*see* **93j:76004**)

Shukhman, I. G. Nonlinear evolution of spiral density waves generated by the instability of the shear layer in a rotating compressible fluid. **93b:76039**

Šilhavý, Miroslav *see* **Nečas, Jindřich; et al., 93e:35089**

Solonnikov, V. A. Solvability of an initial-boundary value problem for equations of motion of a viscous compressible barotropic fluid in the spaces $W_2^{l+2,\,l/2+1}(Q_T)$. (Russian. English and Russian summaries) **93h:35160**

Sonar, Th. On the design of an upwind scheme for compressible flow on general triangulations. (English summary) **93k:65073**

Straškraba, Ivan *see* **Lovicar, Vladimír, 93d:35120**

Tew, R. H. Nonspecular reflection phenomena at a fluid-solid boundary. **93c:73079**

Tidriri, Driss *see* **Bourgat, Jean-François; et al., (93g:65009)**

Ting, L. (*with* Klein, Rupert) ★ Viscous vortical flows. **93a:76025**

Ukai, Seiji *see* **Bardos, Claude, 93a:76023** *and* **Makino, Tetu; et al., 93k:35205**

Valli, Alberto *see* **Carlenzoli, Claudio; et al., 93h:65123**

Vanninathan, M. *see* **Conca, C.; et al., 93m:73030**

Vasil'ev, D. G. (*with* Levitin, M. R.; Lidskii, V. B.) Forced oscillations of a shell immersed in a viscous compressible fluid. (Russian) **93k:73067**

Zajączkowski, Wojciech M. On local motion of a compressible barotropic viscous fluid bounded by a free surface. (English summary) **93m:35157**

Zank, G. P. (*with* Matthaeus, W. H.) Nearly incompressible fluids. II. Magnetohydrodynamics, turbulence, and waves. (English summary) **93k:76127**

Zarnowski, Roger E. Existence, uniqueness, and computation of solutions for mixed problems in compressible fluid flow. (English summary) **93i:35108**

76N15 Gas dynamics, general

Ahluwalia, D. S. *see* **Sachdev, P. L.; et al., 93i:76075**

Cao, Wei Ming *see* **Guo, Ben Yu, 93b:76072**

Chen, Shu Xing Interaction of shock and sound wave for system of gas dynamics. (*see* **93b:00022**)

Coggeshall, S. V. Analytic solutions of hydrodynamics equations. (English summary) **93k:76097**

Cox, Edward A. (*with* Mortell, Michael P.) The evolution of nonlinear resonant oscillations in closed tubes: solution of the standard mapping. **93a:76083**

Donato, A. A perturbation method for a point explosion model with small dissipations. (Italian summary) **93c:76071**

Dzhgamadze, N. O. (*with* Popov, A. V.) Convergence of a difference scheme for two-dimensional equations of gas dynamics. (Russian) **93i:76074**

Fedorov, Alexandre V. The structure of a combined discontinuity in gas suspensions in the presence of chaotic pressure of particles. (Russian)

Frolova, A. A. Computation of radiative gas flows in axisymmetric nozzles of a given shape. (Russian) **93b:76071**

Glaister, P. Similarity solutions for multi-component flows. (English summary) **93f:76083**

Guo, Ben Yu (*with* Cao, Wei Ming) Spectral-finite element method for compressible fluid flows. (French summary) **93b:76072**

Gupta, Neelam *see* **Sachdev, P. L.; et al., 93i:76075**

Kovács, A. Über ein modifiziertes Dirichlet Problem das in der Gashydrodynamik Verwendung findet. (Romanian summary) [On a modified Dirichlet problem used in gas hydrodynamics]

Kucher, N. A. The weak approximation method for multidimensional equations of gas dynamics. (Russian. Russian summary) **93d:76057**

Li, Da Qian (*with* Zhao, Yan Chun) Global shock solutions to a class of piston problems for the system of one-dimensional isentropic flow. **93a:76084**

Martynova, E. A. Gas flow between cylinders. (Russian)

Maslov, V. P. Incorrectness and regularization of equations of hydrodynamics and magnetohydrodynamics without dissipation and turbulence. **93e:76062**

Mortell, Michael P. *see* **Cox, Edward A., 93a:76083**

Oliveri, Francesco On the equations of ideal-gas dynamics with a separable equation of state: Lie group analysis and substitution principles. (English summary) **93h:76062**

Omel'yanov, G. A. Interaction of waves of different scales in gas dynamics. (Russian) **93k:76098**

Pandey, B. D. *see* **Sharma, Rishi Ram; et al.**

Popov, A. V. *see* **Dzhgamadze, N. O., 93i:76074**

Sabitov, K. B. (*with* Tikhomirov, V. V.) On the construction of eigenvalues and eigenfunctions of a gas dynamics problem of Frankl'. (Russian. English summary) **93a:76085**

Sachdev, P. L. (*with* Gupta, Neelam; Ahluwalia, D. S.) Global solutions describing the collapse of a spherical or cylindrical cavity. (English summary) **93i:76075**

Sharma, Rishi Ram (*with* Sharma, V. D.; Pandey, B. D.; Shukla, Pushpa) Approximate and numerical solutions of a gaseous flow with shocks. (English summary)

Sharma, V. D. *see* **Sharma, Rishi Ram; et al.**

Shukla, Pushpa *see* **Sharma, Rishi Ram; et al.**

Sidorov, A. F. Shockless compression of a barotropic gas. (Russian) **93b:76073**

Syzdykova, Z. N. Well-posedness of a model for the transportation of a gas in frozen ground. (Russian) (*see* **93d:35001**)

Tikhomirov, V. V. *see* **Sabitov, K. B., 93a:76085**

Vorob'ev, A. N. An algorithm for computing slow flows in channels. (Russian. Russian summary) **93i:76076**

Yuan, Yi Wu The asymptotic solution of the unsteady planar parallel gas flow for the case that the adiabatic index number γ is big. (Chinese. English and Chinese summaries) **93j:76051**

Zhao, Yan Chun *see* **Li, Da Qian, 93a:76084**

Zuev, A. I. An implicit method for solving equations of radiative gas dynamics. (Russian) **93h:76063**

Items with secondary classifications in 76N15

Abdurazakov, A. (*with* Mukhidinov, N.) Numerical investigation of a nonlinear boundary value problem of multilayer filtration of a gas. (Russian. Russian summary)

Amerov, T. K. *see* **Fushchich, V. I.; et al., 93g:35008**

Amosov, A. A. (*with* Zlotnik, A. A.) Solvability "in the large" of a system of equations for the one-dimensional motion of an inhomogeneous viscous heat-conducting gas. (Russian. Russian summary) **93h:35163**

Arrigo, D. J. Group properties of a Monge-Ampère type equation. (English summary) **93j:35012**

Audounet, J. (*with* Moreux, V.) Petrov-Galerkin type finite element approximations of K-diagonalizable hyperbolic systems: applications to multidimensional Euler equations. (French. English and French summaries) **93j:65145**

Bessonova, N. Yu. (*with* Radvogin, Yu. B.) A marching method for computing three-dimensional steady flows in problems of supersonic flow. (Russian) **93b:76052**

Beux, François (*with* Dervieux, Alain) Exact-gradient shape optimization of a 2-D Euler flow. (English summary) **93j:76048**

Bezrukov, A. A. Application of quasimonotone difference schemes of the second order of approximation in the modeling of discontinuous gas dynamic flows. (Russian. Russian summary)

Bogomolov, S. V. The particle method for the Burgers equation. (Russian. English summary) **93b:76068**

Boldyrev, Yu. Ya. Periodic variational problem associated with the linear Reynolds equation. (Russian. Russian summary) **93j:76026**

Bonazzola, S. (*with* Pérault, M.; Puget, J. L.; Heyvaerts, J.; Falgarone, E.; Panis, J. F.) Jeans collapse of turbulent gas clouds: tentative theory. (English summary) **93i:85005**

Bonnet, Alexis Ondes progressives planes pour un modèle de flammes en chimie complexe. (English and French summaries) [Planar travelling waves in combustion with complex chemical networks] **93j:80004**

— Travelling waves for planar flames with complex chemistry reaction network. **93g:80011**

Borghi, R. Turbulent combustion modelling: an overview of current methods related to the structure of nonpremixed flames. **93i:80003**

Brauner, C.-M. (*with* Buckmaster, John; Dold, J. W.; Schmidt-Lainé, Cl.) On an evolution equation arising in detonation theory. **93k:80011**

Bray, K. N. C. (*with* Libby, Paul A.) Premixed turbulent combustion. **93i:80004**

Brutyan, M. A. (*with* Krapivskiĭ, P. L.) Analytical determination of critical Reynolds numbers for periodic viscous gas flows. (English summary) **93j:76030**

— (*with* Krapivskiĭ, P. L.) Unidirectional flows of viscoelastic fluids and their gasdynamic counterparts. (English summary) **93e:76005**

Buckmaster, John *see* **Brauner, C.-M.; et al., 93k:80011**

Cai, Wei (*with* Shu, Chi-Wang) Uniform high-order spectral methods for one- and two-dimensional Euler equations. (English summary) **93i:76064**

Chauvat, Philippe (*with* Gatignol, Renée) Euler and Navier-Stokes description for a class of discrete models of gases with different moduli. (English summary) **93m:82037**

Chen, Shu Xing (*with* Wang, Ya Guang) The Cauchy problem for gas dynamic systems in multi-dimensional space with weakly singular data. (English summary) **93j:35108**

Chévrier, P. (*with* Galley, H.) A van Leer finite volume scheme for the Euler equations on unstructured meshes. (English and French summaries) **93k:76080**

Chung, T. J. *see* **Kim, Y. M., (93e:76050)**

Clavin, P. Turbulent flame propagation. **93j:80005**

Coggeshall, S. V. (*with* Meyer-ter-Vehn, J.) Group-invariant solutions and optimal systems for multidimensional hydrodynamics. (English summary) **93h:58169**

Cramer, M. S. (*with* Tarkenton, G. M.) Transonic flows of Bethe-Zel'dovich-Thompson fluids. (English summary) **93e:76046**

— (*with* Sen, R.) A general scheme for the derivation of evolution equations describing mixed nonlinearity. **93f:35149**

Dervieux, Alain *see* **Beux, François, 93j:76048**

Ditkin, V. V. On a hydrodynamic load on a vibrating wall of a cylindrical shell. (Russian) **93k:73065**

Dold, J. W. Emergence of a detonation within a reacting medium. **93h:80003**

— *see also* **Brauner, C.-M.; et al., 93k:80011**

Doronin, G. G. Well-posedness of the Cauchy problem for Kligel-Nickerson equations with viscosity in the gas phase. (Russian. Russian summary) **93m:35176**

Drobot, Adam *see* **Lottati, Itzhak; et al., (93g:76001)**

Dutoya, D. (*with* Errera, M. P.) A formal decomposition of the Jacobian matrix of the Euler equations. Application to upwind numerical schemes. (French. English and French summaries) **93f:76070**

Eden, A. (*with* Milani, Albert J.; Nicolaenko, Basil) Local exponential attractors for models of phase change for compressible gas dynamics. (English summary) **93j:35139**

Edigarov, A. S. Numerical computation of the turbulent flow of a cold heavy gas in the atmosphere. (Russian) **93a:76070**

Eidelman, Shmuel *see* **Lottati, Itzhak; et al., (93g:76001)**

Embid, Pedro (*with* Hunter, John K.; Majda, Andrew J.) Simplified asymptotic equations for the transition to detonation in reactive granular materials. (English summary) **93f:35139**

Errera, M. P. *see* **Dutoya, D., 93f:76070**

Faĭzullina, N. T. Well-posedness of a boundary value problem of electrogasdynamics for a model of a viscous heat-conducting gas. (Russian. Russian summary) **93d:76075**

Falgarone, E. *see* **Bonazzola, S.; et al., 93i:85005**

Feodoritova, O. B. *see* **Zhukov, V. T.; et al., 93c:76070**

Frankel, M. L. (*with* Sivashinsky, Gregory I.) Surface evolution equations modelling intrinsic dynamics of premixed flames. **93j:80006**

Fushchich, V. I. (*with* Serov, N. I.; Repeta, V. K.) Non-Lie symmetry and exact solutions of one-dimensional equations of gas dynamics. (Russian. English summary) **93d:35166**

— (*with* Serov, N. I.; Amerov, T. K.) Conditional invariance and exact solutions of gas dynamics equations. (Russian summary) **93g:35008**

Galley, H. *see* **Chévrier, P., 93k:76080**

Gatignol, Renée *see* **Chauvat, Philippe, 93m:82037**

Giovangigli, V. *see* **Smooke, M. D., 93c:65158**

Glaister, P. An efficient Riemann solver for unsteady flows with nonideal gases. **93e:76053**

— Second order accurate upwind difference schemes for scalar conservation laws with source terms. (English summary) **93m:65117**

Greenberg, J. M. The shock generation problem for a discrete gas with short-range repulsive forces. **93g:76076**

Grigor'ev, B. S. Application of the method of conjugate equations to nonstationary problems of gas lubrication. (Russian) **93a:76028**

Guha, A. Jump conditions across normal shock waves in pure vapour-droplet flows. (English summary) **93f:76063**

Gumerov, N. A. Quasimonochromatic weakly nonlinear waves in a bubble medium with small dissipation. (Russian) **93d:76070**

Hänel, D. Computational methods for viscous hypersonic flows. (English summary) **93i:76067**

Harabetian, Eduard A subcell resolution method for viscous systems of conservation laws. (English summary) **93i:76068**

Heyvaerts, J. *see* **Bonazzola, S.; et al., 93i:85005**

Hunter, John K. *see* **Embid, Pedro; et al., 93f:35139**

Isaacson, Eli L. (*with* Temple, Blake) Nonlinear resonance in systems of conservation laws. (English summary) **93f:35140**

Ivanov, M. Ya. (*with* Krupa, V. G.) Calculation of the three-dimensional interaction between a shock wave and a boundary layer on a cylinder. (Russian) **93d:76037**

Karni, Smadar Viscous shock profiles and primitive formulations. (English summary) **93j:65163**

Keĭf'man, N. È. Stabilization of flows of a barotropic gas with viscosity that depends on density. (Russian. Russian summary) **93d:35117**

Khakimzyanov, G. S. *see* **Shokin, Yu. I., (93b:76002)**

Khrishchenyuk, V. A. Solvability of the Cauchy problem for equations of a relaxing and reacting medium. (Russian. English and Russian summaries) **93f:35184**

Kida, Shigeo (*with* Orszag, Steven A.) Energy and spectral dynamics in decaying compressible turbulence. **93c:76051**

Kim, Y. M. (*with* Chung, T. J.) Analysis of turbulent reacting flows in combustion. (*see* **93e:76050**)

Kiseleva, E. A. *see* **Maslov, V. P., 93k:76112**

Klokov, Yu. A. (*with* Mikhaĭlov, A. P.) Singular boundary value problems in localization theory. (Russian. Russian summary) **93g:34032**

Krapivskiĭ, P. L. *see* **Brutyan, M. A., 93e:76005** *and* **93j:76030**

Kröner, Dietmar About splitting and nonsplitting schemes for conservation laws in 2-D. (*see* **93b:76002**)

Krupa, V. G. *see* **Ivanov, M. Ya., 93d:76037**

Kuz'min, A. G. ★ Nonclassical equations of mixed type and their applications in gas dynamics. **93h:35137**

Lacey, A. A. (*with* Vázquez, Juan Luis) Interaction of gas fronts. (English summary) **93i:76051**

Lar'kin, N. A. ★ Гладкие решения уравнений трансзвуковой газодинамики. (Russian) [Smooth solutions of equations of transonic gas dynamics] **93d:35169**

Lerat, A. (*with* Sidès, J.) Implicit transonic calculations without artificial viscosity or upwinding. (*see* **93b:76056**)

Levin, M. P. (*with* Sidorov, L. V.) ★ Расчет сверхзвуковых течений в пирамидальных

сопла. (Russian) [Computation of supersonic flows in pyramidal nozzles] **93a:76061**

Libby, Paul A. *see* **Bray, K. N. C., 93i:80004**

Liou, Meng Sing *see* **Loh, Ching-Yuen, 93g:76087**

Loh, Ching-Yuen (*with* Liou, Meng Sing) Lagrangian solution of supersonic real gas flows. (English summary) **93g:76087**

Lottati, Itzhak (*with* Eidelman, Shmuel; Drobot, Adam) Solution of Euler's equations on adaptive grids using a fast unstructured grid second order Godunov solver (FUGGS). (English summary) (*see* **93g:76001**)

Lupu, Mircea Obtaining and studying Beltrami type equations for axially symmetric jets in magnetogasdynamics (MGD). **93e:76068**

— Generalization and study of the Zhukovskiĭ-Roshko-Eppler model in the case of axially symmetric jets using the theory of (P, Q)-analytic functions. (Romanian) **93d:76055**

Majda, Andrew J. (*with* Roytburd, V.) Low-frequency multidimensional instabilities for reacting shock waves. **93f:76064**

— *see also* **Embid, Pedro; et al., 93f:35139**

Makino, Tetu Blowing up solutions of the Euler-Poisson equation for the evolution of gaseous stars. (English summary) **93i:85004**

Maslov, V. P. (*with* Kiseleva, E. A.) Asymptotics of convective gas flow through a heat-releasing multiscale porous medium. (Russian) **93k:76112**

Matušů-Nečasová, Šárka Global solution of viscous compressible barotropic multipolar gas in a finite channel with nonzero input and output. (Czech summary) **93a:35125**

Meyer-ter-Vehn, J. *see* **Coggeshall, S. V., 93h:58169**

Mikhaĭlov, A. P. (*with* Stepanova, V. V.) Nonlocalized blow-up solutions of the piston problem. (Russian. English and Russian summaries) **93g:76099**

— *see also* **Klokov, Yu. A., 93g:34032**

Milani, Albert J. *see* **Eden, A.; et al., 93j:35139**

Mishchenko, E. V. Well-posedness of a mixed problem for a linear system of equations of relativistic gas dynamics. (Russian) **93a:35149**

Moreux, V. *see* **Audounet, J., 93j:65145**

Mukhidinov, N. *see* **Abdurazakov, A.**

Mulder, Wim A. (*with* Osher, Stanley; Sethian, James A.) Computing interface motion in compressible gas dynamics. **93a:76077**

Muracchini, Augusto Shock waves formation in gravitational gases. (*see* **93g:00030**)

— (*with* Ruggeri, Tommaso; Seccia, L.) Dispersion relation in the high frequency limit and nonlinear wave stability for hyperbolic dissipative systems. **93f:80009**

Nekhamkina, O. A. (*with* Strelets, M. Kh.) Numerical modeling of detonation waves by means of an efficient TVD-scheme. (Russian. Russian summary) **93m:80001**

Neustupa, Jiří The global weak solvability to the equations of motion of viscous gas with an artificial viscosity acting at large values of density. (*see* **93f:34004**)

Nicolaenko, Basil *see* **Eden, A.; et al., 93j:35139**

Nishihara, Kenji Asymptotic behavior toward the rarefaction wave of the solutions of the Burgers equation with nonlinear degenerate viscosity. (English summary) **93i:35023**

Onishi, Yoshimoto Kinetic theory based nonlinear treatment for motions of a binary gas mixture involving slightly strong evaporation and condensation processes—a system of macroscopic equations, the boundary conditions and the Knudsen-layer corrections. (English summary) **93j:76052**

(Onofri, M.) *see* **Fluid dynamical aspects of combustion theory, 93f:80001**

Orszag, Steven A. *see* **Kida, Shigeo, 93c:76051**

Osher, Stanley *see* **Mulder, Wim A.; et al., 93a:76077**

Palczewski, Andrzej (*with* Stasiak, W.) Numerical investigation of the one-dimensional shock wave reflection in a perfect gas. (English, Russian and Polish summaries)

Panis, J. F. *see* **Bonazzola, S.; et al., 93i:85005**

Parushnikov, V. I. (*with* Radvogin, Yu. B.) Calculation of the three-dimensional steady weakly supersonic gas flow around the leading edge of a pointed body in an associated shock wave regime. (Russian) **93b:76053**

Pérault, M. *see* **Bonazzola, S.; et al., 93i:85005**

Puckett, E. G. (*with* Saltzman, J. S.) A 3D adaptive mesh refinement algorithm for multimaterial gas dynamics. (English summary) **93i:76062**

Puget, J. L. *see* **Bonazzola, S.; et al., 93i:85005**

Radvogin, Yu. B. Quasimonotone multidimensional second-order difference schemes. (Russian) **93a:65116**

— *see also* **Bessonova, N. Yu., 93b:76052** *and* **Parushnikov, V. I., 93b:76053**

Ramos, J. I. Annular liquid jets: formulation and steady state analysis. (English and German summaries) **93j:76014**

Repeta, V. K. *see* **Fushchich, V. I.; et al., 93d:35166**

Risebro, Nils Henrik (*with* Tveito, Aslak) A front tracking method for conservation laws in one dimension. **93c:76069**

Roytburd, V. *see* **Majda, Andrew J., 93f:76064**

Ruggeri, Tommaso *see* **Muracchini, Augusto; et al., 93f:80009**

Rylov, A. I. Monotonicity properties of certain two-dimensional vortex flows of an incompressible fluid and of subsonic gas flows. (Russian. Russian summary) **93g:76034**

Saltzman, J. S. *see* **Puckett, E. G., 93i:76062**

dos Santos Filho, José Ruidival On propagation of singularities for Fuchsian quasilinear differential operators. **93f:35190**

Schmidt-Lainé, Cl. *see* **Brauner, C.-M.; et al., 93k:80011**

Seccia, L. *see* **Muracchini, Augusto; et al., 93f:80009**

Semënov, A. Yu. (*with* Sharipov, A. K.) ★ Гибридный разностный метод для численного решения задач радиационной газовой динамики. (Russian) [A hybrid difference method for the numerical solution of problems of radiative gas dynamics] **93b:76064**

Sen, R. *see* **Cramer, M. S., 93f:35149**

Serov, N. I. *see* **Fushchich, V. I.; et al., 93d:35166** *and* **93g:35008**

Sethian, James A. *see* **Mulder, Wim A.; et al., 93a:76077**

Shapiro, Richard A. ★ Adaptive finite element solution algorithm for the Euler equations. **93b:76059**

Sharipov, A. K. *see* **Semënov, A. Yu., 93b:76064**

Shokin, Yu. I. (*with* Khakimzyanov, G. S.) Numerical calculation of stationary subsonic gas dynamics problems. (*see* **93b:76002**)

Shu, Chi-Wang *see* **Cai, Wei, 93i:76064**

Shvarts, Dov *see* **Waxman, Eli, 93k:76075**

Sidès, J. *see* **Lerat, A., (93b:76056)**

Sidorov, L. V. *see* **Levin, M. P., 93a:76061**

Sivashinsky, Gregory I. *see* **Frankel, M. L., 93j:80006**

Smooke, M. D. (*with* Giovangigli, V.) Numerical modeling of axisymmetric laminar diffusion flames. **93c:65158**

Stasiak, W. *see* **Palczewski, Andrzej**

Stepanova, V. V. *see* **Mikhaĭlov, A. P., 93g:76099**

Strelets, M. Kh. *see* **Nekhamkina, O. A., 93m:80001**

Tan, De Chun (*with* Zhang, Tong) Riemann problem for the self-similar ZND-model in gas dynamical combustion. **93d:80006**

Tarkenton, G. M. *see* **Cramer, M. S., 93e:76046**

Temple, Blake *see* **Isaacson, Eli L., 93f:35140**

(Tesei, Alberto) *see* **Fluid dynamical aspects of combustion theory, 93f:80001**

Timokha, A. N. Formulation of nonlinear boundary value problems of the three-dimensional motion of a rigid body filled with a fluid subject to the action of an acoustic field. (Russian. Russian summary) **93h:76016**

Tirskiĭ, G. A. Up-to-date gasdynamic models of hypersonic aerodynamics and heat transfer with real gas properties. (*see* **93h:76003**)

Tsertsvadze, G. Z. Convergence of a completely conservative difference scheme for equations of gas dynamics in Euler variables. (Russian. Russian summary) **93h:76052**

Tupchiev, V. A. New classes of quasilinear systems of hyperbolic type that include gas dynamic systems. (Russian) (*see* **93f:34004**)

Tveito, Aslak *see* **Risebro, Nils Henrik, 93c:76069**

Vaĭgant, V. A. Nonhomogeneous boundary value problems for equations of a viscous heat-conducting gas. (Russian. Russian summary) **93d:35171**

Vázquez, Juan Luis *see* **Lacey, A. A., 93i:76051**

Véron, Laurent Conformal asymptotics of the isothermal gas spheres equation. **93e:35031**

Voshchin, S. V. A problem on focusing a weak shock wave in an ellipsoid of revolution. (Russian) (*see* **93f:00017**)

Wang, Ya Guang *see* **Chen, Shu Xing, 93j:35108**

Waxman, Eli (*with* Shvarts, Dov) Second-type self-similar solutions to the strong explosion problem. (English summary) **93k:76075**

Xiao, Ling Hyperbolic systems with dissipation. **93d:35093**

Xin, Zhou Ping The fluid-dynamic limit of the Broadwell equation. **93b:82070**

Zabrodin, A. V. *see* **Zhukov, V. T.; et al., 93c:76070**

Zanette, Damián H. Reducibility of a class of nonlinear kinetic integral equations. (English summary)

Zhang, Tong *see* **Tan, De Chun, 93d:80006**

Zhukov, V. T. (*with* Zabrodin, A. V.; Feodoritova, O. B.) A scheme for solving nonstationary two-dimensional equations of gas dynamics with heat conduction on moving curvilinear grids. (Russian) **93c:76070**

Zlotnik, A. A. Equations of one-dimensional motion of a viscous barotropic gas in the presence of mass force. (Russian. Russian summary) **93k:35222**

— *see also* **Amosov, A. A., 93h:35163**

Items listed otherwise than by author

Fluid dynamical aspects of combustion theory ★ Fluid dynamical aspects of combustion theory. **93f:80001**

76N20 Boundary-layer theory

Gittler, Philipp On similarity solutions occurring in the theory of interactive laminar boundary layers. (English summary) **93g:76100**

Pakdemirli, Mehmet Similarity analysis of compressible boundary layers for arbitrary profiles.

Items with secondary classifications in 76N20

Aupoix, B. *see* **Brazier, J. Ph.; et al., (93d:76001)**

Bertolotti, F. P. (*with* Herbert, Th.; Spalart, P. R.) Linear and nonlinear stability of the Blasius boundary layer. (English summary) **93g:76061**

Blackaby, Nicholas D. The inviscid instability of a nonlinear Görtler vortex state in a large Mach number boundary layer flow. (English summary) **93k:76046**

— (*with* Cowley, Stephen J.; Hall, Philip[2]) On the instability of hypersonic flow past a flat plate. (English summary) **93m:76042**

Bowles, R. I. *see* **Walton, A. G.; et al., 93k:76051**

Brazier, J. Ph. (*with* Aupoix, B.; Cousteix, J.) Second-order effects in hypersonic laminar boundary layers. (English summary) (*see* **93d:76001**)

Choudhari, Meelan (*with* Hall, Philip[2]) On the nonlinear evolution of large wavelength Görtler vortices. (English summary) **93k:76047**

Cousteix, J. Calculation methods of three-dimensional boundary layers. (English summary) **93f:76028**

— *see also* **Brazier, J. Ph.; et al., (93d:76001)**

Cowley, Stephen J. *see* **Blackaby, Nicholas D.; et al., 93m:76042**

Doorly, D. J. (*with* Smith, F. T.) Initial value problems for spot disturbances in incompressible or compressible boundary layers. **93a:76031**

Fedorov, Alexandre V. (*with* Khokhlov, A. P.) Sensitivity of a supersonic boundary layer to acoustic disturbances. (Russian. Russian summary) **93k:76071**

Fu, Yibin (*with* Hall, Philip[2]) Nonlinear development and secondary instability of large-amplitude Görtler vortices in hypersonic boundary layers. (English summary) **93i:76050**

— (*with* Hall, Philip[2]) Effects of Görtler vortices, wall cooling and gas dissociation on the Rayleigh instability in a hypersonic boundary layer. (English summary) **93m:76043**

Grubin, S. E. (*with* Trigub, V. N.) The asymptotic theory of hypersonic boundary-layer stability. (English summary) **93m:76054**

— (*with* Trigub, V. N.) The long-wave limit in the asymptotic theory of hypersonic boundary-layer stability. (English summary) **93m:76055**

Grundmann, R. Introduction to three-dimensional boundary layers. (English summary) **93f:76031**

Hall, Philip[2] *see* **Fu, Yibin, 93i:76050; Choudhari, Meelan, 93k:76047; Blackaby, Nicholas D.; et al., 93m:76042** *and* **Fu, Yibin, 93m:76043**

Herbert, Th. *see* **Bertolotti, F. P.; et al., 93g:76061**

(Hussaini, M. Y.) *see* **Instability, transition, and turbulence, 93j:76004**

Khokhlov, A. P. *see* **Fedorov, Alexandre V., 93k:76071**
(Kumar, Ajay²) *see* **Instability, transition, and turbulence, 93j:76004**
Kumaran, V. *see* **Merkin, J. H., 93c:76074**
Lar'kin, N. A. ★ Гладкие решения уравнений трансзвуковой газодинамики. (Russian) [Smooth solutions of equations of transonic gas dynamics] **93d:35169**
Merkin, J. H. (*with* Kumaran, V.) A note on the free convection boundary layer on a vertical surface with prescribed heat flux at small Prandtl number. **93c:76074**
Schetz, Joseph A. ★ Boundary layer analysis. **93k:76002**
Smith, F. T. *see* **Doorly, D. J., 93a:76031** *and* **Walton, A. G.; et al., 93k:76051**
Spalart, P. R. *see* **Bertolotti, F. P.; et al., 93g:76061**
(Streett, C. L.) *see* **Instability, transition, and turbulence, 93j:76004**
Trigub, V. N. *see* **Grubin, S. E., 93m:76054** *and* **93m:76055**
Walton, A. G. (*with* Bowles, R. I.; Smith, F. T.) Vortex-wave interaction in a strong adverse pressure gradient. (English summary) **93k:76051**

Items listed otherwise than by author

Hampton, VA ★ Instability, transition, and turbulence. **93j:76004**
Instability, transition, and turbulence ★ Instability, transition, and turbulence. **93j:76004**
Workshop:
Instability, Transition, and Turbulence ★ Instability, transition, and turbulence. **93j:76004**

76N99 None of the above, but in this section

Carnahan, R. *see* **Young, G. W.; et al., 93h:76064**
Frolova, A. A. On the effect of heat supply on the gas dynamic parameters of a gas flow in Laval nozzles. (Russian) **93b:76074**
Hariharan, S. I. *see* **Young, G. W.; et al., 93h:76064**
Young, G. W. (*with* Hariharan, S. I.; Carnahan, R.) Flow effects in a vertical CVD reactor. (English summary) **93h:76064**

Items with secondary classifications in 76N99

(Allegra, Giuseppe) *see* **de Gennes, Pierre-Gilles, 93i:82084**
Belleni-Morante, Aldo (*with* Totaro, Silvia) A mathematical model for transport and absorption of particles of a poison gas. (English summary) **93i:82065**
Boris, J. P. *see* **Oran, E. S., 93j:80008**
Feng, Zaichun (*with* Leal, L. G.) On energy transfer in resonant bubble oscillations. (English summary)
Fleck, B. *see* **Schmitz, F., 93d:85002**
de Gennes, Pierre-Gilles ★ Introduction to polymer dynamics. **93i:82084**
Ghoniem, Ahmed F. Numerical simulation of combustion in reacting shear flow. **93j:80001**
Hariharan, S. I. (*with* Ping, Yu; Scott, J. R.) Time domain numerical calculations of unsteady vortical flows about a flat plate airfoil. **93d:76043**
Kytömaa, H. K. (*with* Schmid, Peter J.) On the collision of rigid spheres in a weakly compressible fluid. (English summary) **93h:76006**
Leal, L. G. *see* **Feng, Zaichun**
Mackenzie, J. A. (*with* Morton, K. W.) Finite volume solutions of convection-diffusion test problems. **93d:76065**
Morton, K. W. *see* **Mackenzie, J. A., 93d:76065**
Oran, E. S. (*with* Boris, J. P.) Numerical simulation of reacting flows. **93j:80008**
Ping, Yu *see* **Hariharan, S. I.; et al., 93d:76043**
Schmid, Peter J. *see* **Kytömaa, H. K., 93h:76006**
Schmitz, F. (*with* Fleck, B.) On the reflection of linear hydrodynamic waves at continuous temperature steps in stellar atmospheres. (English summary) **93d:85002**
Scott, J. R. *see* **Hariharan, S. I.; et al., 93d:76043**
Totaro, Silvia *see* **Belleni-Morante, Aldo, 93i:82065**

76P05 Rarefied gas flows, Boltzmann equation [see also 82B40, 82C40, 82D05]

Bõrgers, Christoph (*with* Greengard, Claude; Thomann, Enrique) The diffusion limit of free molecular flow in thin plane channels. **93g:76101**
Coquel, F. (*with* Rogier, François; Schneider, Jacques) A deterministic method for solving the homogeneous Boltzmann equation. (French. English and French summaries) **93k:76099**
Dolgosheina, E. B. (*with* Latyshev, A. V.; Yushkanov, A. A.) Exact solutions of model BGK Boltzmann equation in temperature jump and weak evaporation problems. (Russian. Russian summary) **93h:76065**
Greengard, Claude *see* **Bõrgers, Christoph; et al., 93g:76101**
Lachowicz, Mirosław On the Cauchy problem for the Enskog equation with external field. (Italian. English summary) **93b:76075**
Latyshev, A. V. *see* **Dolgosheina, E. B.; et al., 93h:76065**
Monaco, Roberto (*with* Preziosi, Luigi) ★ Fluid dynamic applications of the discrete Boltzmann equation. **93f:76084**
Oggioni, S. *see* **Spiga, Giampiero, 93b:76076**
Ohwada, Taku Structure of normal shock waves: direct numerical analysis of the Boltzmann equation for hard-sphere molecules. (English summary) **93i:76077**
Onishi, Yoshimoto Kinetic theory based nonlinear treatment for motions of a binary gas mixture involving slightly strong evaporation and condensation processes—a system of macroscopic equations, the boundary conditions and the Knudsen-layer corrections. (English summary) **93j:76052**
Piechór, Kazimierz The Couette flow by a four-velocity model of the Uehling-Uhlenbeck equation. (English summary) (*see* **93f:82001**)
Preziosi, Luigi *see* **Monaco, Roberto, 93f:76084**
Rogier, François *see* **Coquel, F.; et al., 93k:76099**
Schneider, Jacques *see* **Coquel, F.; et al., 93k:76099**
Spiga, Giampiero (*with* Oggioni, S.) On shock wave solutions in extended discrete kinetic theory. **93b:76076**
Thomann, Enrique *see* **Bõrgers, Christoph; et al., 93g:76101**
Voronina, V. A. A stochastic algorithm for solving an initial-boundary value problem for the Boltzmann equation. (Russian) **93f:76085**
— A stochastic method for solving an initial-boundary value problem for the Boltzmann equation. (Russian) **93i:76078**
Yamazaki, Mitsuru Existence globale pour les modèles discrets de l'équation de Boltzmann dans un tube mince infini en dimension 1 d'espace. [Global existence for discrete models of the Boltzmann equation in an infinite thin tube in one space dimension] **93d:76058**
Yatsenko, Ye. V. The method of two time scales for the solution of the Cauchy problem for the Boltzmann equation. **93f:76086**
Yushkanov, A. A. *see* **Dolgosheina, E. B.; et al., 93h:76065**

Items with secondary classifications in 76P05

Arkeryd, Leif On stability and long term behaviour for rarefied gases. (English summary) (*see* **93g:00030**)
Arlotti, Luisa (*with* Frosali, Giovanni) Runaway particles for a Boltzmann-like transport equation. **93g:82078**
Babovsky, Hans (*with* Padula, Mariarosaria) A new contribution to nonlinear stability of a discrete velocity model. **93b:82060**
Bardos, Claude (*with* Ukai, Seiji) The classical incompressible Navier-Stokes limit of the Boltzmann equation. **93a:76023**
Bellomo, N. (*with* Longo, E.) Shock wave profiles in one dimension by the discrete Boltzmann equation with multiple collisions. (English summary) (*see* **93g:00030**)
— (*with* Toscani, G.) On the Cauchy problem for the discrete Boltzmann equation with multiple collisions: existence, uniqueness and stability. (English summary) **93j:35173**
— *see also* **Bonzani, I., 93e:82037**
Bishaev, A. M. (*with* Rykov, V. A.) Variational principles for the linear Boltzmann equation. (Russian. Russian summary) **93j:49046**
Bogdanov, A. V. (*with* Shapiro, D. A.) On the Kramers problem in the kinetic theory of a molecular gas. (Russian) **93e:82036**
Bogolyubov, N. N., Jr. (*with* Prikarpat·skiĭ, A. K.; Samoĭlenko, V. Gr.) The Hamiltonian structure of hydrodynamical equations of Benney type and associated Boltzmann-Vlasov equations on the axis. (Russian) **93c:58081**
Bonzani, I. (*with* Bellomo, N.) Mathematical aspects of nonlinear shock waves propagation by the discrete Boltzmann equation. **93e:82037**
Cabannes, Henri On the initial value problem in discrete kinetic theory. (English summary) **93m:82036a**
— Global solution of the discrete Boltzmann equation with multiple collisions. (English summary) **93g:82081**
— Solution of a discrete Boltzmann equation with triple collisions, for partially negative initial data. (English summary) **93m:82036b**
Carlen, Eric A. (*with* Carvalho, Maria Conceicaõ V.) Strict entropy production bounds and stability of the rate of convergence to equilibrium for the Boltzmann equation. **93h:82049**
Carvalho, Maria Conceicaõ V. *see* **Carlen, Eric A., 93h:82049**
Cercignani, Carlo Boundary value problems in discrete kinetic theory. (Italian) **93e:82038**
— The trend to equilibrium in discrete and continuous kinetic theory: a comparison. (English summary) **93j:82057**
— Measure solutions of the steady Boltzmann equation in a slab. (English summary) **93j:82058**
— *see also* **Stefanov, S. K.**
Chauvat, Philippe (*with* Gatignol, Renée) Macroscopic variables in discrete kinetic theory. (English summary) **93j:82059**
— (*with* Gatignol, Renée) Euler and Navier-Stokes description for a class of discrete models of gases with different moduli. (English summary) **93m:82037**
Chvála, František On the linear Boltzmann kinetic equation involving external forces. **93c:82047**
— Corrigenda: "On the linear Boltzmann kinetic equation involving external forces" [Acta Tech. ČSAV **36** (1991), no. 2, 231–253; MR 93b:82047]. **93c:82048**
— Spatially homogeneous linear Boltzmann equation with external forces in Lebesgue spaces involving exponential weights. (English summary) **93i:82061**
Cornille, Henri Exact periodic solutions for a class of multispeed discrete Boltzmann models. (English summary) (*see* **93e:00025**)
— (1 + 1)-dimensional hierarchies of multispeed discrete Boltzmann model equations. **93a:82046**
Degond, Pierre (*with* Lucquin-Desreux, B.) The Fokker-Planck asymptotics of the Boltzmann collision operator in the Coulomb case. **93g:82083**
Delaurens, F. (*with* Mustieles Moreno, Francisco-José) A deterministic particle method for solving kinetic transport equations: the semiconductor Boltzmann equation case. **93k:65008**
Desvillettes, L. On asymptotics of the Boltzmann equation when the collisions become grazing. **93h:82051**
Dudyński, Marek (*with* Ekiel-Jeżewska, Maria L.) Global existence proof for relativistic Boltzmann equation. **93b:82064**
Ekiel-Jeżewska, Maria L. (*with* Turski, L. A.) Relativistic hydrodynamics. **93e:76070**
— *see also* **Dudyński, Marek, 93b:82064**
Èndер, A. Ya. *see* **Kolyshkin, I. N.; et al.**
Èndер, I. A. *see* **Kolyshkin, I. N.; et al.**
Ferland, René Fluctuations pour des équations de Boltzmann scalaires. [Fluctuations for scalar Boltzmann equations] **93d:82066**
Frosali, Giovanni (*with* van der Mee, Cornelis) Mathematical study of the runaway process in particle swarms. **93b:82053**
— *see also* **Arlotti, Luisa, 93g:82078**
Gabetta, Ester (*with* Monaco, Roberto) The discrete Boltzmann equation for gases with bi-molecular chemical reactions. (English summary) **93k:82052**
Gatignol, Renée *see* **Chauvat, Philippe, 93j:82059** *and* **93m:82037**
Golse, François (*with* Poupaud, Frédéric) Limite fluide des équations de Boltzmann des semi-conducteurs pour une statistique de Fermi-Dirac. (French summary) [Fluid limit of Boltzmann semiconductor equations for a Fermi-Dirac statistic] **93m:82038**
— Knudsen layers from a computational viewpoint. **93e:82043**
— Incompressible hydrodynamics as a limit of the Boltzmann equation. (English summary) **93m:82039**

Greenberg, J. M. Exponential decay theorems for the four velocity Broadwell equations. (English summary) **93m:82041**
Grigor'ev, Yu. N. (*with* Meleshko, S. V.) Group theoretical analysis of kinetic Boltzmann equation and its models. (English, Russian and Polish summaries) **93f:35017**
Gropengiesser, F. *see* **Neunzert, H.; et al., 93b:82066**
Hamdache, K. Initial-boundary value problems for the Boltzmann equation: global existence of weak solutions. (English summary) **93g:35132**
Kawashima, Shuichi Asymptotic behavior of solutions to the discrete Boltzmann equation. **93k:82053**
— Exponential stability of stationary solutions to the discrete Boltzmann equation in a bounded domain. **93g:82084**
Khisamutdinov, A. I. An approximate method for the statistical modeling of the Boltzmann equation using the weak dependence of the subparts. (Russian. Russian summary) (*see* **93e:00018**)
— Algorithms with "different time coordinates" of Monte Carlo methods for a nonlinear "smoothed" Boltzmann equation. (Russian) **93b:82078**
— (*with* Kobeleva, N. F.) "Nonsymmetric" interactions in Monte Carlo methods with continuous time and the approximation of the Boltzmann equation. (Russian. English and Russian summaries) **93g:82093**
— *see also* **Kobeleva, N. F., (93e:00018)**
Kingdon, R. D. (*with* Schofield, P.; White, L.) A lattice Boltzmann model for the simulation of fluid flow. **93d:76054**
— (*with* Schofield, P.) A reaction-flow lattice Boltzmann model. **93d:82074**
Kobeleva, N. F. (*with* Khisamutdinov, A. I.) On the property of "molecular chaos" for spatially inhomogeneous rarefied gases. (Russian. Russian summary) (*see* **93e:00018**)
— *see also* **Khisamutdinov, A. I., 93g:82093**
Kolyshkin, I. N. (*with* Ènder, A. Ya.; Ènder, I. A.) Anisotropic solutions of the Boltzmann equation. (Russian. Russian summary)
Lachowicz, Mirosław On the asymptotic behaviour of solutions of nonlinear kinetic equations. **93e:35113**
Latyshev, A. V. Analytic solution of the ellipsoidal-statistical model Boltzmann equation. (Russian. Russian summary) **93k:82054**
Lions, Pierre-Louis On kinetic equations. **93c:82051**
Longo, E. *see* **Bellomo, N., (93g:00030)**
Lucquin-Desreux, B. *see* **Degond, Pierre, 93g:82083**
Marra, Rossana Hydrodynamical behavior of a test particle of the Boltzmann gas. (English summary) (*see* **93g:81002**)
Martin, Yves-Loïc (*with* Rogier, François; Schneider, Jacques) Une méthode déterministe pour la résolution de l'équation de Boltzmann inhomogène. (English summary) [A deterministic method for solving the nonhomogeneous Boltzmann equation] **93b:65198**
van der Mee, Cornelis *see* **Frosali, Giovanni, 93b:82053**
Meleshko, S. V. *see* **Grigor'ev, Yu. N., 93f:35017**
Monaco, Roberto *see* **Gabetta, Ester, 93k:82052**
Mustieles Moreno, Francisco-José *see* **Delaurens, F., 93k:65008**
Neunzert, H. (*with* Gropengiesser, F.; Struckmeier, J.) Computational methods for the Boltzmann equation. **93b:82066**
Nurlybaev, N. A. Discrete velocity method in the theory of kinetic equations. (English summary) **93j:82061**
Padula, Mariarosaria Nonlinear stability results for a discrete velocity model of a gas in a slab. (*see* **93g:00030**)
— *see also* **Babovsky, Hans, 93b:82060**
Palczewski, Andrzej (*with* Wennberg, Bernt) The Boltzmann equation with a source term—global solution for weakly inhomogeneous data. **93c:82053**
— Stationary Boltzmann's equation with Maxwell's boundary conditions in a bounded domain. (English summary) **93i:35114**
Pettersson, Rolf On the linear Boltzmann equation with sources, external forces, boundary conditions and infinite range collisions. **93a:82049**
Pinsky, Mark A. ★ Lectures on random evolution. **93b:60160**
Platkowski, Tadeusz On a boundary value problem for the Carleman model of the Boltzmann equation. (English summary) (*see* **93f:82001**)
— Exact solutions of boundary value problems for two-velocity models of the Boltzmann equation. (English, Russian and Polish summaries) **93j:82062**
— (*with* Spiga, Giampiero) Exact solutions of stationary problems in discrete extended kinetic theory. **93b:82027**
— *see also* **Spiga, Giampiero, 93f:82044**
Popyrin, S. L. Some stochastic models of a moderately dense gas. (Russian. English summary) **93b:82063**
Poupaud, Frédéric Runaway phenomena and fluid approximation under high fields in semiconductor kinetic theory. (English, German and Russian summaries) **93h:82074**
— *see also* **Golse, François, 93m:82038**
Preziosi, Luigi Thermal creep problems by the discrete Boltzmann equation. **93g:82085**
Prikarpat·skii, A. K. *see* **Bogolyubov, N. N., Jr.; et al., 93c:58081**
Rogier, François *see* **Martin, Yves-Loïc; et al., 93b:65198**
Rykov, V. A. *see* **Bishaev, A. M., 93j:49046**
Sakabekov, A. Justification of a variational principle for a system of Boltzmann moment equations in the first approximation. (Russian. Kazakh summary) **93h:82058**
— An initial value problem for a system of Boltzmann moment equations. (Russian. English and Kazakh summaries) **93i:82062**
— The moment method for the linearized Boltzmann equation. (Russian) **93a:35150**
— Weak convergence of solutions of a system of Boltzmann moment equations. (Russian) **93e:82040**
Samoilenko, V. Gr. *see* **Bogolyubov, N. N., Jr.; et al., 93c:58081**
Schaler, M. *see* **Schürrer, F., 93c:82054**
Schneider, Jacques *see* **Martin, Yves-Loïc; et al., 93b:65198**
Schochet, Steven (*with* Tadmor, Eitan) The regularized Chapman-Enskog expansion for scalar conservation laws. (English summary) **93f:35191**
Schofield, P. *see* **Kingdon, R. D.; et al., 93d:76054** *and* **93d:82074**
Schürrer, F. (*with* Schaler, M.) Exact solutions of the Boltzmann equation in the VHP model with removal interaction. **93c:82054**
Shapiro, D. A. *see* **Bogdanov, A. V., 93e:82036**
Spiga, Giampiero (*with* Platkowski, Tadeusz) Exact solutions of stationary problems in discrete extended kinetic theory. II. (Italian summary) **93f:82044**
— *see also* **Platkowski, Tadeusz, 93b:82027**
Standish, Russell K. On the spectrum of the linear Boltzmann operator. **93d:82070**
Stefanov, S. K. (*with* Cercignani, Carlo) Monte Carlo simulation of Bénard's instability in a rarefied gas. (English summary)
Struckmeier, J. *see* **Neunzert, H.; et al., 93b:82066**
Tadmor, Eitan *see* **Schochet, Steven, 93f:35191**
Toscani, G. Lyapunov functionals for a Maxwell gas. (English summary) **93h:82059**
— New a priori estimates for the spatially homogeneous Boltzmann equation. **93f:82046**
— Convergence towards equilibrium for a gas of Maxwellian pseudomolecules. **93f:82047**
— *see also* **Bellomo, N., 93j:35173**
Turski, L. A. *see* **Ekiel-Jeżewska, Maria L., 93e:76070**
Ukai, Seiji *see* **Bardos, Claude, 93a:76023**
Wagner, Wolfgang[1] A convergence proof for Bird's direct simulation Monte Carlo method for the Boltzmann equation. **93f:82053**
Wennberg, Bernt On an entropy dissipation inequality for the Boltzmann equation. (English and French summaries) **93j:82063**
— *see also* **Palczewski, Andrzej, 93c:82053**
White, L. *see* **Kingdon, R. D.; et al., 93d:76054**
Wiesen, Bernd On a phenomenological generalized Boltzmann equation. **93c:82056**
Xin, Zhou Ping The fluid-dynamic limit of the Broadwell equation. **93b:82070**
Yamazaki, Mitsuru Étude de l'équation de Boltzmann pour les modèles discrets dans un tube mince infini. [Study of the Boltzmann equation for discrete models in an infinite thin tube] **93j:82064**

76Q05 Hydrodynamic sound, acoustics

Alawneh, A. D. *see* **Shawagfeh, Nabil**
Bishop, Garner C. (*with* Smith, Judy) Scattering from a nondifferentiable periodic surface roughness: Neumann boundary conditions. (English summary) (*see* **93j:76001**)
(Brebbia, C. A.) *see* **Boundary element methods in acoustics**
Brekhovskikh, L. M. (*with* Lysanov, Yu. P.) ★ Fundamentals of ocean acoustics. **93a:76086**
Burov, V. A. (*with* Sergeev, S. N.) Current methods in perturbation theory for calculating hydro-acoustic fields. (Russian. Russian summary)
Chapman, C. J. The asymptotic theory of rapidly rotating sound fields. (English summary) **93e:76063**
(Ciskowski, R. D.) *see* **Boundary element methods in acoustics**
Colton, David (*with* Monk, Peter) The numerical solution of an inverse scattering problem for acoustic waves. (English summary) **93j:76053**
— (*with* Monk, Peter) A comparison of two methods for solving the inverse scattering problem for acoustic waves in an inhomogeneous medium. (English summary) **93j:76054**
Crighton, D. G. (*with* Lee-Bapty, I. P.) Spherical nonlinear wave propagation in a dissipative stratified atmosphere. **93i:76079**
Danilov, V. Ya. On control problems in a plane-layered medium. (Russian. Russian summary)
Di, Xiao (*with* Gilbert, Kenneth E.) An exact Laplace transform formulation for a point source above a ground surface. (English summary) **93k:76100**
Elias, Georges (*with* Malbéqui, Patrice) Scattering by an open sphere: exact solution and comparison with a boundary integral method. (English summary) **93k:76101**
Emets, V. F. Characterization of a closed impedance obstacle from the scattered acoustic field. (Russian. Russian summary)
Evans, D. V. Trapped acoustic modes. (English summary) **93g:76102**
— *see also* **Linton, C. M., 93i:76084**
Evans, Richard B. The existence of generalized eigenfunctions and multiple eigenvalues in underwater acoustics. (English summary) **93h:76066**
Fairweather, Graeme *see* **Robinson, Mark P., (93j:76002)**
Farassat, F. (*with* Myers, M. K.) Aeroacoustics of high speed rotating blades: the mathematical aspect. (English summary) (*see* **93j:76002**)
Feng, Zaichun (*with* Leal, L. G.) On energy transfer in resonant bubble oscillations. (English summary)
Ffowcs Williams, J. E. Computing the sources of sound. (English summary) (*see* **93j:76001**)
Fishman, Louis Exact and operator rational approximate solutions of the Helmholtz, Weyl composition equation in underwater acoustics—the quadratic profile. **93e:76064**
Gilbert, Kenneth E. *see* **Di, Xiao, 93k:76100**
Godin, O. A. Reciprocity relations for acoustic fields in a three-dimensionally nonhomogeneous moving fluid. (Russian) **93f:76087**
Gorman, Arthur D. *see* **Rask, Badih J., 93a:76089**
Grigor'eva, N. S. ★ Асимптотические методы в задачах о распространении звука в неоднородной движущейся среде. (Russian) [Asymptotic methods in problems on the propagation of sound in an inhomogeneous moving medium] **93a:76087**
Grigorovich, V. G. (*with* Kravtsov, V. V.) The problem of the radiation of acoustic waves from a surface through a nonhomogeneous layer. (Russian. Russian summary) **93i:76080**
Hackl, Klaus A normal mode expansion for a unified ocean-bottom system. (English summary) (*see* **93j:76002**)
Harari, Isaac (*with* Hughes, Thomas J. R.) A cost comparison of boundary element and finite element methods for problems of time-harmonic acoustics. (English summary) **93h:76067**
— (*with* Hughes, Thomas J. R.) Analysis of continuous formulations underlying the computation of time-harmonic acoustics in exterior domains. (English summary) **93h:76068**
de Hoop, Adrianus T. *see* **de Hoop, Maarten V., 93i:76081** *and* **Verweij, Martin D., (93j:76001)**
de Hoop, Maarten V. (*with* de Hoop, Adrianus T.) Interface reflection of spherical acoustic waves in the first- and second-order rational parabolic approximations and their artifacts. (English summary) **93i:76081**
Hughes, Thomas J. R. *see* **Harari, Isaac, 93h:76067** *and* **93h:76068**

Jeans, R. (*with* Mathews, I. C.) A comparison of numerical collocation and variational procedures to the hypersingular acoustic integral operator. (English summary) **93m:76066**
Jones, D. S. An improved surface radiation condition. **93a:76088**
Kath, W. L. (*with* Minzoni, Antonmaría; Kriegsmann, Gregory A.; Reiss, E. L.) Energy leakage and reflection in slowly varying waveguides. (English summary) **93i:76082**
Kokovikhina, O. V. Application of Galerkin's method to a problem on the propagation of acoustic vibrations. (Russian) **93c:76072**
Kravtsov, V. V. *see* **Grigorovich, V. G., 93i:76080**
Kriegsmann, Gregory A. Asymptotic/numerical hybrid methods: an example from acoustic scattering theory. (English summary) (*see* **93j:00009**)
— *see also* **Kath, W. L.; et al., 93i:76082**
Kuznetsov, N. G. *see* **Vasil'ev, A. N., (93d:35001)**
Leal, L. G. *see* **Feng, Zaichun**
Lee, Ding *see* **Saint Mary, Donald F.; et al., (93j:76001)**
Lee-Bapty, I. P. *see* **Crighton, D. G., 93i:76079**
Legrand, Olivier (*with* Sornette, Didier) Quantum chaos and Sabine's law of reverberation in ergodic rooms. (English summary) **93g:76103**
Lie, Ivar Heterogeneous domain decomposition for acoustic bottom interaction problems. (English summary) **93i:76083**
Linton, C. M. (*with* Evans, D. V.) Integral equations for a class of problems concerning obstacles in waveguides. (English summary) **93i:76084**
Liu, Yijun (*with* Rizzo, F. J.) A weakly singular form of the hypersingular boundary integral equation applied to 3-D acoustic wave problems. **93b:76077**
Lysanov, Yu. P. *see* **Brekhovskikh, L. M., 93a:76086**
Malbéqui, Patrice *see* **Elias, Georges, 93k:76101**
Maslennikova, V. N. (*with* Petunin, I. M.) Uniform stabilization as $t \to \infty$ of the solution of the Cauchy problem for a system of acoustic vibrations in a compressible medium. (Russian. Russian summary) **93j:76055**
Mathews, I. C. *see* **Jeans, R., 93m:76066**
Minzoni, Antonmaría *see* **Kath, W. L.; et al., 93i:76082**
Monk, Peter *see* **Colton, David, 93j:76053** *and* **93j:76054**
Myers, M. K. *see* **Farassat, F., (93j:76002)**
Ockendon, J. R. *see* **Tew, R. H., 93d:76062**
Petunin, I. M. *see* **Maslennikova, V. N., 93j:76055**
Poruchikov, V. B. (*with* Prismakova, T. M.) Diffraction of an acoustic wave by a prolate spheroid. (Russian. Russian summary) **93j:76056**
Powell, Alan Soviet aeroacoustics—a short review. **93d:76059**
Prismakova, T. M. *see* **Poruchikov, V. B., 93j:76056**
Rask, Badih J. (*with* Gorman, Arthur D.) On caustics associated with horizontal rays and vertical modes. **93a:76089**
Reiss, E. L. *see* **Kath, W. L.; et al., 93i:76082**
Resasco, Diana C. Application of domain decomposition techniques to the solution of acoustic propagation problems. (English summary) (*see* **93j:76001**)
— *see also* **Saint Mary, Donald F.; et al., (93j:76001)**
Rizzo, F. J. *see* **Liu, Yijun, 93b:76077**
Roach, Gary F. Acoustic scattering by penetrable bodies. (Russian summary) **93d:76060**
Robins, Alvin J. Exact solutions of the Helmholtz equation for plane wave propagation in a medium with variable density and sound speed. (English summary) **93k:76102**
Robinson, Mark P. (*with* Fairweather, Graeme) An orthogonal spline collocation method for the numerical solution of underwater acoustic wave propagation problems. (English summary) (*see* **93j:76002**)
Rynne, Bryan P. (*with* Sleeman, B. D.) The interior transmission problem and inverse scattering from inhomogeneous media. **93f:76088**
Saint Mary, Donald F. (*with* Lee, Ding; Resasco, Diana C.) A hybrid marching technique for the solution of an elliptic model in underwater acoustics. (English summary) (*see* **93j:76001**)
Sergeev, S. N. *see* **Burov, V. A.**
Shawagfeh, Nabil (*with* Alawneh, A. D.) The low-frequency acoustic scattering by a soft ellipsoid. (English and Arabic summaries)
Skelton, E. A. Errata: "Acoustic scattering by a rigid barrier between two fluid-loaded parallel elastic plates" [Proc. Roy. Soc. London Ser. A **435** (1991), no. 1893, 217–232; MR 92h:76073].
Sleeman, B. D. *see* **Rynne, Bryan P., 93f:76088**
Smith, Judy *see* **Bishop, Garner C., (93j:76001)**
Sornette, Didier *see* **Legrand, Olivier, 93g:76103**
Sparrow, Victor W. Time domain computations in nonlinear acoustics without one-way assumptions. (English summary) (*see* **93j:76001**)
Tew, R. H. Diffraction of sound by a surface inhomogeneity at a fluid-solid interface. **93d:76061**
— (*with* Ockendon, J. R.) Multiple scales expansions near critical rays. **93d:76062**
Teymur, M. Assessment of the surface radiation condition by reference to acoustic scattering by a hard sphere. **93a:76090**
Ursell, Fritz Trapped modes in a circular cylindrical acoustic waveguide. **93b:76078**
Vasil'ev, A. N. (*with* Kuznetsov, N. G.) Some extremal problems that arise in acoustics. (Russian) (*see* **93d:35001**)
Verweij, Martin D. Transient acoustic wave modeling: higher-order Wentzel-Kramers-Brillouin-Jeffreys asymptotics and symbolic manipulation. (English summary) **93h:76069**
— (*with* de Hoop, Adrianus T.) Analysis of time-domain acoustic wave fields in arbitrarily continuously layered configurations based on the modified Cagniard method. (English summary) (*see* **93j:76001**)
Wu, Sean F. Nonuniqueness of solutions to extended Kirchhoff integral formulations. (English summary) **93k:76103**

Items listed otherwise than by author

Boundary element methods in acoustics ★ Boundary element methods in acoustics.

Items with secondary classifications in 76Q05

Abrahams, I. D. (*with* Engineer, J. C.) A secularity condition for systems of linear partial differential equations. **93a:73058**
Alekseev, G. V. (*with* Komarov, E. G.) A nonselfadjoint singular spectral problem for the Helmholtz operator with discontinuous coefficients. (Russian) **93c:35023**
Alessandrini, B. (*with* Raganelli, V.) The propagation of acoustic and elastic waves in an heterogeneous discrete medium. (English summary) **93e:73014**
Amini, S. *see* **Chen, Ke, 93i:65115**
Andronov, I. V. Application of point models of cracks in boundary value contact problems of acoustics. (Russian) **93g:73043**
Anfinogenov, A. Yu. (*with* Lifanov, I. I.) On numerical solution of integral equations of planar and spatial diffraction problems. (English summary) **93i:78001**
Apostolopoulos, Theodore (*with* Dassios, George) A parallel algorithm for solving the inverse scattering moment problem. (English summary)
Arnaudov, Ya. N. (*with* Dassios, George; Georgiev, Vladimir) High-frequency asymptotics in inverse scattering by ellipsoids. (English summary) **93j:35181**
Asch, M. (*with* Kohler, Werner E.; Papanicolaou, G. C.; Postel, M.; White, Benjamin S.) Frequency content of randomly scattered signals. **93f:73041**
Badanin, A. V. (*with* Belinskii, B. P.; Il'inskii, K. N.; Uzdin, V. M.) Supersymmetry and acoustic problems. (Russian. English and Russian summaries) **93f:76080**
Bamberger, A. (*with* Ha-Duong, Tuong) Diffraction d'une onde acoustique par une paroi absorbante: nouvelles équations intégrales. (English summary) [Diffraction of an acoustic wave by an absorbing wall: new integral equations] **93h:35142**
Belinskii, B. P. *see* **Badanin, A. V.; et al., 93f:76080**
Benkaddour, A. (*with* Sanchez-Hubert, J.) Spectral study of a coupled compact-noncompact problem. (English and French summaries) **93i:35036**
Bielak, Jacobo *see* **Zeng, Xiaogang; et al., 93d:76041**
Blokhin, A. M. (*with* Tsimerman, V. R.) Investigation of some differential-difference models for a system of acoustic equations. (Russian. Russian summary) (*see* **93b:00021**)
Bottcher, C. *see* **Werby, Michael F.; et al., (93b:65002)**
Bristeau, Marie Odile (*with* Erhel, Jocelyne; Glowinski, Roland; Périaux, Jacques) A time dependent approach to the solution of the Helmholtz equation at high wave numbers. (English summary) (*see* **93k:65003**)
Broadhead, M. K. *see* **Werby, Michael F.; et al., (93b:65002)**
Brouwer, H. H. On the use of the method of matched asymptotic expansions in propeller aerodynamics and acoustics. (English summary) **93f:76061**
Charalambopoulos, Antonios (*with* Dassios, George) Inverse scattering via low-frequency moments. (English summary) **93j:35051**
Chaskelis, H. H. *see* **Delsanto, P. P.; et al.**
Chen, Ke (*with* Amini, S.) Numerical analysis of boundary integral solution of the Helmholtz equation in domains with nonsmooth boundaries. (English summary) **93i:65115**
Chen, Shu Xing Interaction of shock and sound wave for system of gas dynamics. (*see* **93b:00022**)
Cheney, Margaret *see* **Somersalo, Erkki, 93a:35099**
Cohen, Gary (*with* Joly, Patrick) Fourth order schemes for the heterogeneous acoustics equation. (*see* **93d:65005**)
Colton, David (*with* Kress, Rainer) ★ Inverse acoustic and electromagnetic scattering theory. **93j:35124**
Cox, Edward A. *see* **Kluwick, A., 93i:76096**
Crouch, J. D. Nonlocalized receptivity of boundary layers. (English summary) **93h:76021**
Dassios, George *see* **Charalambopoulos, Antonios, 93j:35051; Arnaudov, Ya. N.; et al., 93j:35181** *and* **Apostolopoulos, Theodore**
De Bièvre, Stephan (*with* Pravica, D. W.) Spectral analysis for optical fibres and stratified fluids. II. Absence of eigenvalues. **93c:35114**
Delsanto, P. P. (*with* Whitcombe, T.; Chaskelis, H. H.; Mignogna, R. B.) Connection Machine simulation of ultrasonic wave propagation in materials. I. The one-dimensional case.
Demkowicz, Leszek (*with* Karafiat, A.; Oden, J. Tinsley) Solution of elastic scattering problems in linear acoustics using *h-p* boundary element method. (English summary) **93j:73028**
Engineer, J. C. *see* **Abrahams, I. D., 93a:73058**
Erëmin, Yu. A. (*with* Sveshnikov, A. G.) Pattern recognition and synthesis problems in diffraction theory. (Russian. Russian summary) **93j:35052**
Erhel, Jocelyne *see* **Bristeau, Marie Odile; et al., (93k:65003)**
Euvrard, Daniel (*with* Lenoir, Marc André) About nonhomogeneous free-surface conditions in hydrodynamics and underwater acoustics. **93a:76007**
Fujikawa, T. A method of discretization in the boundary element method for analysis of a sound field having adjacent elements. (*see* **93b:65008**)
Gadyl'shin, R. R. The method of matched asymptotic expansions in a problem on the acoustic Helmholtz resonator. (Russian. Russian summary) **93h:35048**
Georgiev, Vladimir *see* **Arnaudov, Ya. N.; et al., 93j:35181**
Gilbert, Robert Pertsch (*with* Xu, Yong Zhi) Generalized Herglotz functions and inverse scattering problems in a finite depth ocean. (English summary) **93k:86002**
— (*with* Xu, Yong Zhi) Acoustic waves and far-field patterns in two-dimensional oceans with porous-elastic seabeds. **93k:86003**
Gladkii, A. V. *see* **Sergienko, I. V.; et al., 93g:65132**
Glowinski, Roland *see* **Bristeau, Marie Odile; et al., (93k:65003)**
Ha-Duong, Tuong *see* **Bamberger, A., 93h:35142**
Hanyga, Andrzej (*with* Seredyńska, Małgorzata) Diffraction of pulses in the vicinity of simple caustics and caustic cusps. **93f:86002**
Harari, Isaac (*with* Hughes, Thomas J. R.) Galerkin/least-squares finite element methods for the reduced wave equation with nonreflecting boundary conditions in unbounded domains. (English summary) **93c:76060**
Hazard, C. *see* **Lenoir, Marc André; et al., 93c:35120**
Higdon, Robert L. Absorbing boundary conditions for acoustic and elastic waves in stratified media. **93c:73035**
Hughes, Thomas J. R. *see* **Harari, Isaac, 93c:76060**
Il'inskii, K. N. *see* **Badanin, A. V.; et al., 93f:76080**
Ivansson, Sven (*with* Karasalo, Ilkka) A high-order adaptive integration method for wave propagation in range-independent fluid-solid media. (English summary) **93g:73113**
Jia, Z. H. *see* **Wu, T. W., (93b:65002)**
Joly, Patrick *see* **Cohen, Gary, (93d:65005)**

Karafiat, A. *see* **Demkowicz, Leszek; et al., 93j:73028**
Karasalo, Ilkka *see* **Ivansson, Sven, 93g:73113**
Kędzierawski, Andrzej W. The determination of the surface impedance of an obstacle. (English summary) **93m:35181**
Kel'bert, M. Ya. (*with* Sazonov, I. A.) ★ Распространение импульсов в жидкостях. (Russian. English and Russian summaries) [Pulse propagation in fluids] **93m:76028**
Kirsch, Andreas The domain derivative and two applications in inverse scattering theory. (English summary) **93m:35182**
Kluwick, A. (*with* Cox, Edward A.) Propagation of weakly nonlinear waves in stratified media having mixed nonlinearity. (English summary) **93i:76096**
Kohler, Werner E. *see* **Asch, M.; et al., 93f:73041**
Komarov, E. G. *see* **Alekseev, G. V., 93c:35023**
Koterov, V. N. (*with* Krasnovskii, A. G.) A spectral-difference method for computing acoustic perturbations induced by a local heat source in a moving medium. (Russian) **93d:65089**
Krasnovskii, A. G. *see* **Koterov, V. N., 93d:65089**
Kress, Rainer (*with* Zinn, Axel) Three-dimensional reconstructions in inverse obstacle scattering. **93g:78021**
— (*with* Zinn, Axel) On the numerical solution of the three-dimensional inverse obstacle scattering problem. (English summary) **93f:65052**
— *see also* **Colton, David, 93j:35124**
Kshevetskii, S. P. Invariants of acoustic and internal gravity waves in a nonisothermic atmosphere. (Russian. Russian summary) **93k:76026**
(Lakhtakia, Akhlesh) *see* **Field representations and introduction to scattering, 93j:78018**
Landa, P. S. (*with* Rozenblyum, M. G.) On the synchronization of chaotic self-oscillating systems. (Russian)
(Lau, Richard L.) *see* **Computational acoustics, 93j:76001**
(Lee, Ding) *see* **Computational acoustics, 93j:76001** *and* **93j:76002**
Lenoir, Marc André (*with* Vullierme-Ledard, M.; Hazard, C.) Variational formulations for the determination of resonant states in scattering problems. **93c:35120**
— *see also* **Euvrard, Daniel, 93a:76007**
Li, Gongqin A boundary integral method for an interface problem in acoustic propagation. (English summary) **93m:65162**
Li, W. L. (*with* Wu, T. W.; Seybert, A. F.) Boundary element analysis of acoustic radiation and scattering in half space using a generalized Green's function. (English summary) (*see* **93b:65002**)
Lifanov, I. I. *see* **Anfinogenov, A. Yu., 93i:78001**
Lighthill, Michael James Acoustic streaming in the ear itself. **93d:76081**
— Acoustic streaming in the ear itself. (English summary) **93k:76131**
Lobitz, D. W. *see* **Segalman, D. J., (93b:65002)**
Lukovskii, I. A. (*with* Timokha, A. N.) A class of boundary value problems in the theory of surface waves. (Russian. Ukrainian summary) **93e:76012**
MacCamy, Richard C. *see* **Zeng, Xiaogang; et al., 93d:76041**
Mignogna, R. B. *see* **Delsanto, P. P.; et al.**
Misici, L. (*with* Zirilli, Francesco) Three-dimensional time harmonic acoustic and electromagnetic inverse scattering in the resonance region. (English summary) **93m:65171**
Molotkov, L. A. A two-phase effective model of a medium that contains cracks of finite length. (Russian. English and Russian summaries) **93g:73038**
Moskal'kov, M. N. (*with* Utebaev, D.) Comparison of the dispersion properties of certain difference schemes for a two-dimensional acoustic system. (Russian)
Naugol'nykh, K. A. (*with* Ostrovskii, L. A.) ★ Нелинейные волновые процессы в акустике. (Russian) [Nonlinear wave processes in acoustics] **93a:73030**
Nwoke, Christian A perturbation of the discrete spectrum for certain second order partial differential equations. Application to acoustic wave scattering by an elliptic cylindrical obstacle. **93d:35011**
Oden, J. Tinsley *see* **Demkowicz, Leszek; et al., 93j:73028**
Onishi, K. Identification of the shape of an obstacle by inverse acoustic scattering. (*see* **93b:65008**)
Ostrovskii, L. A. *see* **Naugol'nykh, K. A., 93a:73030**
Papanicolaou, G. C. *see* **Asch, M.; et al., 93f:73041**
Périaux, Jacques *see* **Bristeau, Marie Odile; et al., (93k:65003)**
Postel, M. *see* **Asch, M.; et al., 93f:73041**
Pravica, D. W. *see* **De Bièvre, Stephan, 93c:35114**
Rabinovich, V. S. Scattering theory for the acoustic operator in an inhomogeneous half-space. (Russian) **93d:35124**
Raganelli, V. *see* **Alessandrini, B., 93e:73014**
Rajan, Subramaniam D. Determination of geoacoustic parameters of the ocean bottom—data requirements. (English summary) **93g:86003**
(Robinson, Allan R.) *see* **Computational acoustics, 93j:76001** *and* **93j:76002**
Rorres, Chris *see* **Wimp, Jet; et al., 93f:73040**
Rozenblyum, M. G. *see* **Landa, P. S.**
Rukavishnikov, V. A. *see* **Vlasenko, V. D., (93d:00029)**
Sanchez-Hubert, J. *see* **Benkaddour, A., 93i:35036**
Sazonov, I. A. *see* **Kel'bert, M. Ya., 93m:76028**
Segalman, D. J. (*with* Lobitz, D. W.) SuperCHIEF: a modified CHIEF method. (English summary) (*see* **93b:65002**)
Seredyńska, Małgorzata *see* **Hanyga, Andrzej, 93f:86002**
Sergienko, I. V. (*with* Gladkii, A. V.; Skopetskii, V. V.) Stability of difference schemes for linear-fractional approximations of the Helmholtz equation. (Russian. English and Russian summaries) **93g:65132**
Seybert, A. F. *see* **Li, W. L.; et al., (93b:65002)**
Sheen, Dongwoo Finite element methods for an acoustic well-logging problem associated with a porous medium saturated by a two-phase immiscible fluid. (English summary)
Skopetskii, V. V. *see* **Sergienko, I. V.; et al., 93g:65132**
Somersalo, Erkki (*with* Cheney, Margaret) Estimates for wave propagation in inhomogeneous acoustic media. **93a:35099**
Sorokin, S. V. The asymptotic analysis of a two-level system of boundary integral equations for structural-acoustic coupling problems. (English summary) (*see* **93b:65002**)
Spivack, Mark Direct solution of the inverse problem for rough surface scattering at grazing incidence. **93c:35124**
Stovas, A. M. Born approximation in problems of migration and inversion for the acoustic equation. (Russian. Russian summary) **93g:65160**
Strayer, M. R. *see* **Werby, Michael F.; et al., (93b:65002)**
Sumbatyan, M. A. (*with* Troyan, È. A.) Reconstruction of the shape of a convex defect from a scattered wave field in the ray approximation. (Russian. Russian summary) **93g:73052**
Sveshnikov, A. G. *see* **Erëmin, Yu. A., 93j:35052**
Tenenbaum, Roberto A. (*with* Zindeluk, Moysés) An exact solution for the one-dimensional elastic wave equation in layered media. (English summary) **93i:73020**
Tew, R. H. Nonspecular reflection phenomena at a fluid-solid boundary. **93c:73079**
Timokha, A. N. *see* **Lukovskii, I. A., 93e:76012**
Troyan, È. A. *see* **Sumbatyan, M. A., 93g:73052**
Tsimerman, V. R. *see* **Blokhin, A. M., (93b:00021)**
Utebaev, D. *see* **Moskal'kov, M. N.**
Uzdin, V. M. *see* **Badanin, A. V.; et al., 93f:76080**
(Varadan, V. K.) *see* **Field representations and introduction to scattering, 93j:78018**
(Varadan, V. V.) *see* **Field representations and introduction to scattering, 93j:78018**
Varlamov, V. V. Energy estimates for an integro-differential equation that describes acoustic waves in a medium with "memory". (Russian. Russian summary) **93h:45005**
(Vichnevetsky, Robert) *see* **Computational acoustics, 93j:76002**
Vlasenko, V. D. (*with* Rukavishnikov, V. A.) A numerical method for solving a problem on transient processes in polarized piezotransformers in a two-dimensional approximation in the radiation regime. (Russian. Russian summary) (*see* **93d:00029**)
Vullierme-Ledard, M. *see* **Lenoir, Marc André; et al., 93c:35120**
Wayland, Richard F., Jr. *see* **Wimp, Jet; et al., 93f:73040**
Werby, Michael F. (*with* Broadhead, M. K.; Strayer, M. R.; Bottcher, C.) Solution of the Helmholtz-Poincaré wave equation using the coupled boundary integral equations and optimal surface eigenfunctions. (English summary) (*see* **93b:65002**)
Whitcombe, T. *see* **Delsanto, P. P.; et al.**
White, Benjamin S. *see* **Asch, M.; et al., 93f:73041**
Wimp, Jet (*with* Rorres, Chris; Wayland, Richard F., Jr.) Acoustic impulse responses for nonuniform media. (English summary) **93f:73040**
Wu, T. W. (*with* Jia, Z. H.) A choice of practical approaches to overcome the nonuniqueness problem of the BEM in acoustic radiation and scattering. (English summary) (*see* **93b:65002**)
— *see also* **Li, W. L.; et al., (93b:65002)**
Xu, Yong Zhi *see* **Gilbert, Robert Pertsch, 93k:86002** *and* **93k:86003**
Yan, Yi A fast boundary integral equation method for the 2-D Helmholtz equation. (English summary) **93m:65164**
Zeng, Xiaogang (*with* Bielak, Jacobo; MacCamy, Richard C.) Unified symmetric finite element and boundary integral variational coupling methods for linear fluid-structure interaction. (English summary) **93d:76041**
Zindeluk, Moysés *see* **Tenenbaum, Roberto A., 93i:73020**
Zinn, Axel *see* **Kress, Rainer, 93f:65052** *and* **93g:78021**
Zirilli, Francesco *see* **Misici, L., 93m:65171**

Items listed otherwise than by author

Cambridge, MA ★ Computational acoustics. Vol. 1. **93j:76001**
— ★ Computational acoustics. Vol. 2. **93j:76002**
Computational acoustics ★ Computational acoustics. Vol. 1. **93j:76001**
— ★ Computational acoustics. Vol. 2. **93j:76002**
Field representations and introduction to scattering ★ Field representations and introduction to scattering. **93j:78018**
IMACS Symposium:
Computational Acoustics ★ Computational acoustics. Vol. 1. **93j:76001**
— ★ Computational acoustics. Vol. 2. **93j:76002**

76Rxx Diffusion and convection

Allaire, Grégoire Homogénéisation et convergence à deux échelles. Application à un problème de convection diffusion. (English summary) [Homogeneization and two-scale convergence. Application to an advection-diffusion problem] **93d:76063**
Amirat, Youcef (*with* Hamdache, K.; Ziani, A.) Some results on homogenization of convection-diffusion equations. **93d:76064**
Hamdache, K. *see* **Amirat, Youcef; et al., 93d:76064**
Isichenko, M. B. (*with* Kalda, J.) Statistical topography. II. Two-dimensional transport of a passive scalar. **93a:76091**
Kalda, J. *see* **Isichenko, M. B., 93a:76091**
Pascal, H. On a nonlinear convection-diffusion equation. (English summary) **93k:76104**
Ziani, A. *see* **Amirat, Youcef; et al., 93d:76064**

Items with secondary classifications in 76Rxx

(Acrivos, Andreas) *see* **Symposium: Fluid Mechanics of Stirring and Mixing, 93j:76006**
Bank, Randolph E. (*with* Benbourenane, Mohamed) The hierarchical basis multigrid method for convection-diffusion equations. **93d:65106**
— (*with* Santos, Rafael F.) Analysis of some moving space-time finite element methods. (English summary) **93m:65141**
Benbourenane, Mohamed *see* **Bank, Randolph E., 93d:65106**
Brebbia, C. A. *see* **Partridge, P. W., (93g:76002)**
Cai, Xiao-Chuan Additive Schwarz algorithms for parabolic convection-diffusion equations. **93a:65127**
Carnahan, R. *see* **Young, G. W.; et al., 93h:76064**
Casasús Estelles, Trinidad (*with* Olmos, F.; Checa, E.; Chinesta, F.; Torres, R.) Qualitative and numerical study of the convection-diffusion equation and approximation of the solution on a polynomial-exponential basis. (Spanish. Spanish summary) (*see* **93j:00009**)
Checa, E. *see* **Casasús Estelles, Trinidad; et al., (93j:00009)**
Chen, Guo Qian (*with* Yang, Zhi Feng) The compact second-order upwind finite difference schemes for the convection-diffusion equations. (English summary)
— (*with* Gao, Zhi; Yang, Zhi Feng) A perturbational h^4 exponential finite difference scheme for the convective diffusion equation. (English summary) **93g:76084**

— (*with* Yang, Zhi Feng) A perturbational fourth-order upwind finite difference scheme for the convection-diffusion equation. (English summary)
Chen, Tsu-Fen Semidiscrete least squares methods for linear convection-diffusion problem. (English summary) **93h:65121**
Chinesta, F. *see* **Casasús Estelles, Trinidad; et al.,** (**93j:00009**)
Choo, Joshua Y. (*with* Schultz, David H.) Stable high order methods for differential equations with small coefficients for the second order terms. (English summary) **93j:65209**
Eriksson, Kenneth (*with* Johnson, Claes) Adaptive streamline diffusion finite element methods for stationary convection-diffusion problems. **93d:65095**
Falk, Richard S. (*with* Richter, Gerard R.) Local error estimates for a finite element method for hyperbolic and convection-diffusion equations. **93e:65137**
Ferrell, Robert C. *see* **Richardson, John L.; et al., 93g:76088**
Gao, Zhi *see* **Chen, Guo Qian; et al., 93g:76084**
García-Archilla, B. (*with* Mackenzie, J. A.) Supraconvergence analysis for a cell-vertex scheme for the convection-diffusion equation. (English summary) **93k:65074**
Hansbo, Peter The characteristic streamline diffusion method for convection-diffusion problems. **93a:76066**
Hariharan, S. I. *see* **Young, G. W.; et al., 93h:76064**
van der Houwen, P. J. (*with* Sommeijer, B. P.) Fractional Runge-Kutta methods with application to convection-diffusion equations. (English summary) **93h:65118**
Hua, Xue Jiao *see* **Li, Rong Hua,** (**93b:65006**)
Johnson, Claes The characteristic streamline diffusion finite element method. (English and Portuguese summaries) **93f:76068**
— *see also* **Eriksson, Kenneth, 93d:65095**
Kolyshkin, A. A. (*with* Vaillancourt, Rémi) Exact solutions for unsteady convection-diffusion problems. (English and French summaries) **93f:35086**
Li, Rong Hua (*with* Hua, Xue Jiao) Generalized upwind difference methods for convection-dominated diffusion problems. (*see* **93b:65006**)
Liu, Ke-shun *see* **Sun, Che,** (**93b:65006**)
Long, Lyle N. *see* **Richardson, John L.; et al., 93g:76088**
Lu, Tong Chao A characteristic-collocation method for convection-diffusion problems. (Chinese. English summary) **93c:65145**
Mackenzie, J. A. *see* **García-Archilla, B., 93k:65074**
Mauri, Roberto Dispersion, convection, and reaction in porous media. (English summary) **93k:76113**
Olmos, F. *see* **Casasús Estelles, Trinidad; et al.,** (**93j:00009**)
Ortiz, P. A Taylor-Galerkin implicit-explicit generalisation for convective diffusion equations. (English summary) (*see* **93g:76002**)
Ovchinnikov, E. È. Multi-level projection method for solving the eigenvalue problem for the convection-diffusion equation. **93c:65135**
Pantelis, G. Grid adaptive strategies for the convection-dispersion equation. (*see* **93g:76002**)
Partridge, P. W. (*with* Brebbia, C. A.) The dual reciprocity boundary element method for the diffusion convection equation. (English summary) (*see* **93g:76002**)
de Pillis, John A parallel iteration method and the convection-diffusion equation. **93a:65042**
Richardson, John L. (*with* Ferrell, Robert C.; Long, Lyle N.) Unconditionally stable explicit algorithms for nonlinear fluid dynamics problems. (English summary) **93g:76088**
Richter, Gerard R. *see* **Falk, Richard S., 93e:65137**
Rionero, Salvatore (*with* Straughan, Brian) Nonlinear convection problems involving internal heat generation and variable gravity effects. (English summary) (*see* **93g:00030**)
Rizza, A. Numerical analysis of a self-adaptive formulation for the viscous/inviscid coupling. **93b:76058**
Santos, Rafael F. *see* **Bank, Randolph E., 93m:65141**
Schetz, Joseph A. ★ Boundary layer analysis. **93k:76002**
Schultz, David H. *see* **Choo, Joshua Y., 93j:65209**
Sommeijer, B. P. *see* **van der Houwen, P. J., 93h:65118**
Straughan, Brian ★ The energy method, stability, and nonlinear convection. **93e:76027**
— *see also* **Rionero, Salvatore,** (**93g:00030**)
Sun, Che (*with* Liu, Ke-shun) The characteristic-finite element analysis for nonlinear convection-diffusion problems. (*see* **93b:65006**)
Torres, R. *see* **Casasús Estelles, Trinidad; et al.,** (**93j:00009**)
Vaillancourt, Rémi *see* **Kolyshkin, A. A., 93f:35086**
Xin, Xue Existence of planar flame fronts in convective-diffusive periodic media. (English summary) **93m:35110**
Yang, Dao Qi A characteristic mixed method with dynamic finite-element space for convection-dominated diffusion problems. (English summary) **93k:65079**
Yang, Zhi Feng *see* **Chen, Guo Qian; et al., 93g:76084**
Young, G. W. (*with* Hariharan, S. I.; Carnahan, R.) Flow effects in a vertical CVD reactor. (English summary) **93h:76064**

Items listed otherwise than by author

La Jolla, CA ★ Symposium on Fluid Mechanics of Stirring and Mixing. **93j:76006**
Symposium:
Fluid Mechanics of Stirring and Mixing ★ Symposium on Fluid Mechanics of Stirring and Mixing. **93j:76006**

76R05 Forced convection

Cessi, Paola (*with* Young, W. R.) Multiple equilibria in two-dimensional thermohaline circulation. (English summary) **93f:76089**
Jeon, Chang Ho *see* **Song, Jong Chul, 93c:76073**
Roberts, A. J. Planform evolution in convection—an embedded centre manifold. (English summary) **93g:76104**
Song, Jong Chul (*with* Jeon, Chang Ho) On the sufficient condition for the linearized approximation of the Bénard convection problem. **93c:76073**
Young, W. R. *see* **Cessi, Paola, 93f:76089**

Items with secondary classifications in 76R05

Banerjee, Mihir B. (*with* Gupta, J. R.; Prakash, Jyoti) Upper limits to the complex growth rates in thermohaline instability. **93d:76023**
Daniels, P. G. (*with* Weinstein, Marcel Mordechai) On finite-amplitude patterns of convection near a lateral boundary. (English summary) **93d:76024**
Devdariani, M. T. *see* **Goncharov, A. L.; et al., 93b:76024**
Dijkstra, Henk A. On the structure of cellular solutions in Rayleigh-Bénard-Marangoni flows in small-aspect-ratio containers. (English summary) **93g:76056**
Fryazinov, I. V. *see* **Goncharov, A. L.; et al., 93b:76024**
Golbabai, A. Nonparallel plane Rayleigh-Bénard convection in cylindrical geometry. (English summary) **93j:76032**
Goncharov, A. L. (*with* Devdariani, M. T.; Prostomolotov, A. I.; Fryazinov, I. V.) Approximation and a numerical method for the solution of three-dimensional Navier-Stokes equations on orthogonal grids. (Russian. English summary) **93b:76024**
Gupta, J. R. *see* **Banerjee, Mihir B.; et al., 93d:76023**
Hishida, Toshiaki (*with* Yamada, Yoshio) Global solutions for the heat convection equations in an exterior domain. **93f:35177**
Jiang, Bo-Nan Nonoscillatory and nondiffusive solution of convection problems by the iteratively reweighted least-squares finite element method. (English summary) **93k:76077**
Kaloni, P. N. *see* **Qin, Yu, 93a:35121**
Karagodov, V. P. Unique solvability in the large of three-dimensional problems on the convection of a viscous incompressible fluid. (Russian) **93c:35130**
Kopachevskiĭ, N. D. (*with* Pivovarchik, V. N.) On a sufficient condition for the instability of convective motions of a fluid in an open vessel. (Russian. Russian summary) **93k:76044**
Krishnamurthy, Ramesh A linear stability analysis of a mixed convection plume from a line source: higher order effects. (French summary) **93d:76026**
Lindsay, K. A. (*with* Straughan, Brian) Penetrative convection in a micropolar fluid. (English summary) **93g:76007**
Nataf, Frédéric Paraxial approximations of the steady advection-diffusion equation. Padé approximants for operators. **93k:35078**
Ngô Huy Can (*with* Tran Thu Ha) The convective motion of an incompressible viscous fluid contained in an elastic cylindrical shell. **93k:76039**
Pivovarchik, V. N. *see* **Kopachevskiĭ, N. D., 93k:76044**
Prakash, Jyoti *see* **Banerjee, Mihir B.; et al., 93d:76023**
Prostomolotov, A. I. *see* **Goncharov, A. L.; et al., 93b:76024**
Qin, Yu (*with* Kaloni, P. N.) Steady convection in a porous medium based upon the Brinkman model. **93a:35121**
Riahi, D. N. Nonlinear dispersive waves in convective flows. (*see* **93f:00015**)
— Weakly nonlinear oscillatory convection in a rotating fluid. (English summary) **93c:76026**
Schatzman, Michelle Retrieving information from oscillating approximations to the advection equation. (French summary) **93g:65111**
Straughan, Brian *see* **Lindsay, K. A., 93g:76007**
Tran Thu Ha *see* **Ngô Huy Can, 93k:76039**
Wang, Xue Feng[1] The Stefan problem with nonlinear convection. (English summary) **93j:35197**
Weinstein, Marcel Mordechai *see* **Daniels, P. G., 93d:76024**
Yamada, Yoshio *see* **Hishida, Toshiaki, 93f:35177**

76R10 Free convection

Ben Amar, Martine Plumes in Hele-Shaw cells. (English summary) **93i:76085**
Ecke, Robert E. *see* **Zhong, Fang, 93a:76093**
Goncharova, O. N. Solvability of a nonstationary problem for equations of free convection with temperature-dependent viscosity. (Russian. Russian summary) **93k:76105**
Kumaran, V. *see* **Merkin, J. H., 93c:76074**
Merkin, J. H. (*with* Kumaran, V.) A note on the free convection boundary layer on a vertical surface with prescribed heat flux at small Prandtl number. **93c:76074**
Yudovich, V. I. An infinite-dimensional model of free convection. (Russian) **93a:76092**
Zhong, Fang (*with* Ecke, Robert E.) Pattern dynamics and heat transport in rotating Rayleigh-Bénard convection. **93a:76093**

Items with secondary classifications in 76R10

Abd-el-Malek, M. B. *see* **Boutros, Y. Z.; et al., 93a:76030**
Badran, N. A. *see* **Boutros, Y. Z.; et al., 93a:76030**
Banks, W. H. H. (*with* Zaturska, M. B.) Buoyancy-driven flow between parallel plane vertical walls. **93a:76039**
Boutros, Y. Z. (*with* Abd-el-Malek, M. B.; Badran, N. A.) Group-theoretic approach for solving time-independent free-convective boundary layer flow on a nonisothermal vertical flat plate. (Russian and Polish summaries) **93a:76030**
Busse, F. H. (*with* Clever, R. M.) Three-dimensional convection in an inclined layer heated from below. **93a:76042**
Cao, Yan Zhao (*with* Huang, Ming You) On finite element approximation for the bifurcation solution of free convection problem. (*see* **93b:65006**)
Clever, R. M. *see* **Busse, F. H., 93a:76042**
Daniels, P. G. A singularity in thermal boundary-layer flow on a horizontal surface. (English summary) **93f:76029**
Huang, Ming You *see* **Cao, Yan Zhao,** (**93b:65006**)
Kagei, Yoshiyuki On weak solutions of nonstationary Boussinesq equations. (English summary) **93m:35153**
Krishnamurthy, Ramesh A linear stability analysis of a mixed convection plume from a line source: higher order effects. (French summary) **93d:76026**
McKay, G. (*with* Straughan, Brian) Nonlinear energy stability and convection near the density maximum. (English summary) **93h:76030**
Morimoto, Hiroko On the existence and uniqueness of the stationary solution to the equations of natural convection. **93c:35132**
Néel, Marie-Christine Natural convection in a horizontal porous layer of infinite extent: inhomogeneous heating. (English summary) **93h:76073**
Netreba, S. N. Three-dimensional structures of convective flows in stratified rotating media. (Russian. Russian summary) **93k:76023**

Pinsky, Ross The interplay of nonlinear reaction and convection in dead core behavior for reaction-diffusion equations. **93k:35143**
Riahi, D. N. Preferred pattern of convection in a porous layer with a spatially nonuniform boundary temperature. (English summary) **93i:76038**
Rodrigues, José-Francisco A nonlinear parabolic system arising in thermomechanics and in thermomagnetism. (English summary) **93f:35122**
Rucklidge, A. M. Chaos in models of double convection. **93g:76059**
Sadhal, S. S. Solutions to a class of transport problems with radially dominant convection. (English summary) **93m:76031**
Straughan, Brian *see* **McKay, G., 93h:76030**
Zaturska, M. B. *see* **Banks, W. H. H., 93a:76039**

76R50 Diffusion [see also 60J60]

Camera-Roda, G. (*with* Doghieri, F.; Ruggeri, Tommaso; Sarti, G. C.) Thermodynamically consistent rate-type constitutive equations for the diffusive mass flux. **93b:76079**
Dagan, Gedeon Dispersion of a passive solute in nonergodic transport by steady velocity fields in heterogeneous formations. **93a:76094**
Diez, Javier Alberto (*with* Gratton, Julio; Minotti, Fernando) Self-similar solutions of the second kind of nonlinear diffusion-type equations. (English summary) **93f:76090**
Doghieri, F. *see* **Camera-Roda, G.; et al., 93b:76079**
Entov, V. M. *see* **Ginzburg, I. S.; et al., 93c:76075**
Ginzburg, I. S. (*with* Entov, V. M.; Teodorovich, È. V.) The renormalization group method in a problem of convective diffusion with irreversible sorption. (Russian) **93c:76075**
Gratton, Julio *see* **Diez, Javier Alberto; et al., 93f:76090**
Islamov, R. K. *see* **Karimberdieva, S.**
Kahlig, P. Note on self-similarity and dimensional analysis. **93b:76080**
Karimberdieva, S. (*with* Islamov, R. K.) A numerical algorithm for solving a transport and diffusion equation. (Russian. Russian summary)
Koch, Donald L. Hydrodynamic diffusion in dilute sedimenting suspensions at moderate Reynolds numbers. (English summary) **93m:76067**
Maslov, V. P. Overheating effects in filtration media. (Russian) **93k:76106**
Minotti, Fernando *see* **Diez, Javier Alberto; et al., 93f:76090**
Morro, Angelo (*with* Straughan, Brian) Equations for reacting viscous fluids near chemical equilibrium. **93a:76095**
Nataf, Frédéric Paraxial approximations of the steady advection-diffusion equation. Padé approximants for operators. **93e:76065**
Nicolau, Alexandru Sur l'écoulement d'un fluide isotherme et non homogène. (French summary) [On the flow of a nonhomogeneous isothermal fluid] **93h:76070**
Ruggeri, Tommaso *see* **Camera-Roda, G.; et al., 93b:76079**
Sarti, G. C. *see* **Camera-Roda, G.; et al., 93b:76079**
Smith, Ronald Buoyancy effects in vertical shear dispersion. (English summary) **93f:76091**
Straughan, Brian *see* **Morro, Angelo, 93a:76095**
Teodorovich, È. V. *see* **Ginzburg, I. S.; et al., 93c:76075**

Items with secondary classifications in 76R50

Abergel, F. (*with* Hilhorst, Danielle; Issard-Roch, F.) On a Stefan problem with surface tension in the neighborhood of a stationary solution. **93k:35274**
Airapetyan, Yu. N. Approximate solution of the nonlinear diffusion problem taking into account the finite rate of propagation of the front of a concentration wave. (Russian. English and Armenian summaries) **93d:80002**
Arbogast, Todd (*with* Chilakapati, A.; Wheeler, Mary Fanett) A characteristic-mixed method for contaminant transport and miscible displacement. (English summary) (*see* **93g:76002**)
Avellaneda, Marco (*with* Majda, Andrew J.) An integral representation and bounds on the effective diffusivity in passive advection by laminar and turbulent flows. **93e:76043**
— (*with* Majda, Andrew J.) Mathematical models with exact renormalization for turbulent transport. II. Fractal interfaces, non-Gaussian statistics and the sweeping effect. **93g:76066**
— (*with* Majda, Andrew J.) Superdiffusion in nearly stratified flows. (English summary) **93j:82068**
— (*with* Majda, Andrew J.) Approximate and exact renormalization theories for a model for turbulent transport. **93g:76067**
Beckers, J. M. Analytical linear numerical stability conditions for an anisotropic three-dimensional advection-diffusion equation. **93a:65133**
Bedrikovetskii, P. G. (*with* Istomin, G. D.) Derivation of averaged equations of filtration-diffusive mass transport in two-layered porous strata. (Russian) (*see* **93m:00033**)
Bensoussan, Alain (*with* Kozlov, S. M.) Diffusion effective dans un flux périodique. (English and French summaries) [Effective diffusion in a periodic flow] **93i:35109**
Bermejo, Rodolfo Analysis of an algorithm for the Galerkin-characteristic method. **93e:65132**
Bertsch, Michiel (*with* Esteban, J. R.; Zhang, Hong Fei) On the asymptotic behaviour of the solutions of a degenerate equation in hydrology. **93i:35070**
Chernikov, Aleksandr Antonovich (*with* Neishtadt, A. I.; Rogal'skii, A. V.; Yakhnin, V. Z.) Adiabatic chaotic advection in nonstationary 2D flows. (English summary) **93h:76041**
Chilakapati, A. *see* **Arbogast, Todd; et al., (93g:76002)**
Crisanti, A. (*with* Falcioni, M.; Provenzale, A.; Vulpiani, A.) Motion of passively advected impurities in two-dimensional flows: chaos, structures and diffusion. (English summary) **93h:76042**
— (*with* Falcioni, M.; Vulpiani, A.; Paladin, Giovanni) Lagrangian chaos: transport, mixing and diffusion in fluids. **93d:76029**
Dzhaikbaev, A. M. (*with* Isaev, S. A.) Parabolic approximation of a diffusion model of an inhomogeneous fluid. (Russian. Russian summary) **93k:76038**
Esteban, J. R. *see* **Bertsch, Michiel; et al., 93i:35070**
Evans, W. A. B. *see* **Powles, J. G.; et al., 93f:76096**
Falcioni, M. *see* **Crisanti, A.; et al., 93d:76029** *and* **93h:76042**
Feinberg, Martin (*with* Terman, David) Traveling composition waves on isothermal catalyst surfaces. **93a:35082**
Glasko, V. B. (*with* Stepanova, I. È.) On uniqueness in one of the coefficient problems connected with technological processes. (Russian) **93e:35118**
Hilhorst, Danielle *see* **Abergel, F.; et al., 93k:35274**
Isaev, S. A. *see* **Dzhaikbaev, A. M., 93k:76038**
Issard-Roch, F. *see* **Abergel, F.; et al., 93k:35274**
Istomin, G. D. *see* **Bedrikovetskii, P. G., (93m:00033)**
Kerr, Oliver S. Two-dimensional instabilities of steady double-diffusive interleaving. (English summary) **93f:76044**
King, John Robert Surface-concentration-dependent nonlinear diffusion. **93b:35067**
Kozlov, S. M. *see* **Bensoussan, Alain, 93i:35109**
Liu, Tai-Ping *see* **Xiao, Ling, 93e:35072**
Lukaszewicz, Grzegorz On diffusion in viscous fluids mixed boundary conditions. **93k:35216**
— On diffusion in viscous fluids. Existence and uniqueness of solutions. (English summary) **93j:35141**
Majda, Andrew J. *see* **Avellaneda, Marco, 93e:76043; 93g:76066; 93g:76067** *and* **93j:82068**
Mallett, M. J. D. *see* **Powles, J. G.; et al., 93f:76096**
McLeod, J. Bryce *see* **Vázquez, Juan Luis; et al., (93k:00036)**
Morozova, M. V. A mathematical model of diffusion into granules of sorbent. (Russian) **93e:82045**
Nefëdov, N. N. Contrast structures in equations of "reaction-advection-diffusion" type. (Russian. English summary) **93c:34057**
Neishtadt, A. I. *see* **Chernikov, Aleksandr Antonovich; et al., 93h:76041**
Paladin, Giovanni *see* **Crisanti, A.; et al., 93d:76029**
Peletier, L. A. *see* **Vázquez, Juan Luis; et al., (93k:00036)**
Powles, J. G. (*with* Mallett, M. J. D.; Rickayzen, G.; Evans, W. A. B.) Exact analytic solutions for diffusion impeded by an infinite array of partially permeable barriers. (English summary) **93f:76096**
Provenzale, A. *see* **Crisanti, A.; et al., 93h:76042**
Rickayzen, G. *see* **Powles, J. G.; et al., 93f:76096**
Rogal'skii, A. V. *see* **Chernikov, Aleksandr Antonovich; et al., 93h:76041**
Rose, L. R. Francis Diffusion with trapping and fast diffusion paths. (*see* **93j:35005**)
Showalter, R. E. Diffusion in a fissured medium with micro-structure. (*see* **93k:00036**)
Sophocleous, Christodoulos On symmetries of radially symmetric nonlinear diffusion equations. (English summary) **93i:35012**
Stepanova, I. È. *see* **Glasko, V. B., 93e:35118**
Szymkiewicz, R. Solution of the advection-diffusion equation using the spline function and finite elements. (English summary)
Terman, David Wave propagation in two chemical systems. **93c:35075**
— *see also* **Feinberg, Martin, 93a:35082**
Vázquez, Juan Luis (*with* McLeod, J. Bryce; Peletier, L. A.) Solutions of a nonlinear ODE appearing in the theory of diffusion with absorption. (*see* **93k:00036**)
Vulpiani, A. *see* **Crisanti, A.; et al., 93d:76029** *and* **93h:76042**
Wheeler, Mary Fanett *see* **Arbogast, Todd; et al., (93g:76002)**
Wooding, R. A. Deposition from a curved shallow flow treated as a moving boundary of constant form. (*see* **93j:35005**)
Xiao, Ling Hyperbolic systems with dissipation. **93d:35093**
— (*with* Liu, Tai-Ping) Convergence to nonlinear diffusion waves for solutions of a system of hyperbolic conservation laws with damping. **93e:35072**
Xie, C.-H. (*with* Zou, Z.) An Eulerian-Lagrangian localized adjoint method for the Richards equation. (*see* **93g:76002**)
Yakhnin, V. Z. *see* **Chernikov, Aleksandr Antonovich; et al., 93h:76041**
Zhang, Hong Fei *see* **Bertsch, Michiel; et al., 93i:35070**
Zhang, Qiang Length scales, multi-fractals and non-Fickian diffusion. (English summary) (*see* **93g:76003**)
Zou, Z. *see* **Xie, C.-H., (93g:76002)**

76R99 None of the above, but in this section

Fogelson, Aaron L. Particle-method solution of two-dimensional convection-diffusion equations. **93b:76081**
Mackenzie, J. A. (*with* Morton, K. W.) Finite volume solutions of convection-diffusion test problems. **93d:76065**
Morton, K. W. *see* **Mackenzie, J. A., 93d:76065**
Newell, Alan C. *see* **Passot, T., 93i:76086**
Passot, T. (*with* Newell, Alan C.) The phase-diffusion equation and its regularization for natural convective patterns. (English summary) **93i:76086**
Rubinstein, L. (*with* Rubinstein, Lev) On dynamic theory of osmosis. (*see* **93k:00035**)
Rubinstein, Lev *see* **Rubinstein, L., (93k:00035)**

Items with secondary classifications in 76R99

Alduncin, G. Primal and mixed upwind finite element approximations of control advection-diffusion problems. (English summary) **93m:76062**
Antonsen, Thomas M., Jr. *see* **Varosi, Frank; et al., 93k:76065**
Beigie, Darin (*with* Leonard, Anthony; Wiggins, Stephen) A global study of enhanced stretching and diffusion in chaotic tangles. (English summary) **93k:76063**
Ben Amar, Martine Plumes in Hele-Shaw cells. (English summary) **93i:76085**
Bogolyubov, N. N., Jr. (*with* Prikarpat-skii, A. K.; Samoilenko, V. Gr.) The Hamiltonian structure of hydrodynamical equations of Benney type and associated Boltzmann-Vlasov equations on the axis. (Russian) **93c:58081**
Chen, Jiann Lin *see* **Jeng, Yih Nen, 93c:76067**
Dombre, Thierry (*with* Pumir, Alain; Siggia, Eric D.) On the interface dynamics for convection in porous media. (English summary) **93i:76089**
Ecke, Robert E. Quasiperiodicity, mode-locking, and universal scaling in Rayleigh-Bénard convection. (English summary) **93k:76043**
Fowler, A. C. Toward a description of convection with temperature-and-pressure-dependent viscosity. (English summary) **93m:86009**
Fröhlich, J. (*with* Peyret, Roger) Calculations of non-Boussinesq convection by a pseudospectral method. (English summary) (*see* **93d:65005**)
Gauthier, Serge A semi-implicit collocation method: application to two-dimensional compressible convection. (English summary) (*see* **93d:65005**)

Hishida, Toshiaki Existence and regularizing properties of solutions for the nonstationary convection problem. **93d:35079**

Hu, Howard H. (*with* Joseph, Daniel D.) Miscible displacement in a Hele-Shaw cell. (English summary) **93c:76025**

Impey, M. D. (*with* Riley, D. S.; Wheeler, A. A.) Bifurcation analysis of cellular interfaces in unidirectional solidification of a dilute binary mixture. (English summary) **93j:35032**

Jeng, Yih Nen (*with* Chen, Jiann Lin) Truncation error analysis of the finite volume method for a model steady convective equation. **93c:76067**

Joseph, Daniel D. *see* **Hu, Howard H., 93c:76025**

Kiseleva, E. A. *see* **Maslov, V. P., 93k:76112**

Knobloch, Edgar (*with* Proctor, M. R. E.; Weiss, N. O.) Heteroclinic bifurcations in a simple model of double-diffusive convection. **93c:76034**

Kostenko, V. G. An inverse problem for a simplified system of heat and moisture transfer equations. (Russian. Russian summary) **93h:35212**

Leonard, Anthony *see* **Beigie, Darin; et al., 93k:76063**

Le Quere, P. (*with* Pécheux, J.) A three-dimensional pseudo-spectral algorithm for the computation of convection in a rotating annulus. (English summary) (*see* **93d:65005**)

Lindsay, K. A. The application of compound matrices to convection problems in multi-layered continua. **93h:65051**

Liou, Jianntyng *see* **Pironneau, Olivier; et al., 93j:65150**

Lohéac, J.-P. (*with* Nataf, Frédéric; Schatzman, Michelle) Parabolic approximations of the convection-diffusion equation. **93h:65129**

Lube, G. An asymptotically fitted finite element method for convection dominated convection-diffusion-reaction problems. (German and Russian summaries) **93b:65143**

Malvagi, F. *see* **Sammartino, Marco; et al., 93b:82075**

Maslov, V. P. (*with* Kiseleva, E. A.) Asymptotics of convective gas flow through a heat-releasing multiscale porous medium. (Russian) **93k:76112**

Miari, Massimo Extended Lorenz system: a qualitative analysis. **93c:58194**

Morton, K. W. Upwinded test functions for finite element and finite volume methods. **93f:65086**

Nataf, Frédéric *see* **Lohéac, J.-P.; et al., 93h:65129**

Ott, Edward *see* **Varosi, Frank; et al., 93k:76065**

Ottino, J. M. Unity and diversity in mixing: stretching, diffusion, breakup, and aggregation in chaotic flows. (English summary) **93k:76064**

Pécheux, J. *see* **Le Quere, P., (93d:65005)**

Peyret, Roger *see* **Fröhlich, J., (93d:65005)**

Pironneau, Olivier (*with* Liou, Jianntyng; Tezduyar, T. E.) Characteristic-Galerkin and Galerkin/least-squares space-time formulations for the advection-diffusion equations with time-dependent domains. (English summary) **93j:65150**

Pomraning, Gerald C. *see* **Sammartino, Marco; et al., 93b:82075**

Prikarpat·skii, A. K. *see* **Bogolyubov, N. N., Jr.; et al., 93c:58081**

Proctor, M. R. E. *see* **Knobloch, Edgar; et al., 93c:76034**

Pumir, Alain *see* **Dombre, Thierry; et al., 93i:76089**

Riley, D. S. *see* **Impey, M. D.; et al., 93j:35032**

Roe, Philip L. (*with* Sidilkover, David) Optimum positive linear schemes for advection in two and three dimensions. (English summary) **93j:65137**

Sachdev, P. L. *see* **Vanaja, V., 93h:35184**

Sammartino, Marco (*with* Malvagi, F.; Pomraning, Gerald C.) Diffusive limits for particle transport in stochastic mixtures. **93b:82075**

Samoilenko, V. Gr. *see* **Bogolyubov, N. N., Jr.; et al., 93c:58081**

Schatzman, Michelle *see* **Lohéac, J.-P.; et al., 93h:65129**

Sidilkover, David *see* **Roe, Philip L., 93j:65137**

Siggia, Eric D. *see* **Dombre, Thierry; et al., 93i:76089**

Tezduyar, T. E. *see* **Pironneau, Olivier; et al., 93j:65150**

Vanaja, V. (*with* Sachdev, P. L.) Asymptotic solutions of a generalized Burgers equation. (English summary) **93h:35184**

Varosi, Frank (*with* Antonsen, Thomas M., Jr.; Ott, Edward) The spectrum of fractal dimensions of passively convected scalar gradients in chaotic fluid flows. (English summary) **93k:76065**

Weiss, N. O. *see* **Knobloch, Edgar; et al., 93c:76034**

Wheeler, A. A. *see* **Impey, M. D.; et al., 93j:35032**

Wiggins, Stephen *see* **Beigie, Darin; et al., 93k:76063**

76S05 Flows in porous media; filtration; seepage

Aanonsen, S. I. Application of fractional-flow theory to 3-phase, 1-dimensional surfactant flooding. (*see* **93b:76086**)

Abasov, M. T. *see* **Rasulov, M. A.; et al., 93a:76104**

Abdurazakov, A. (*with* Mukhidinov, N.) Numerical investigation of a nonlinear boundary value problem of multilayer filtration of a gas. (Russian. Russian summary)

Achdou, Yves (*with* Avellaneda, Marco) Influence of pore roughness and pore-size dispersion in estimating the permeability of a porous medium from electrical measurements. (English summary) **93m:76068**

Aldis, G. K. *see* **Barry, S. I., 93k:76108**

Allaire, Grégoire Continuity of the Darcy's law in the low-volume fraction limit. **93a:76096**

Antontsev, S. N. Localization of solutions of a problem of mass transport in a porous medium. (Russian) **93j:76057**

Arbogast, Todd The existence of weak solutions to single porosity and simple dual-porosity models of two-phase incompressible flow. **93k:76107**

Avellaneda, Marco *see* **Achdou, Yves, 93m:76068** *and* **Lafarge, Denis, 93k:76111**

Azizov, Kh. F. Boundary regimes with peaking and localization in nonlinear non-Newtonian flow through porous media. (Russian) **93f:76092**

Baikov, V. A. (*with* Gazizov, R. K.; Khasanov, M. M.) Formation of stationary structures in anisotropic filtration of a fluid with negative viscosity. (Russian) (*see* **93m:00033**)

Barron, R. M. (*with* Hamdan, M. H.) On the Darcy-Lapwood-Brinkman-Saffman dusty fluid flow models through porous media. II. Applications to flow into a two-dimensional sink. (English summary) **93k:76110b**

— *see also* **Hamdan, M. H., 93b:76083** *and* **93k:76110a**

Barry, S. I. (*with* Aldis, G. K.) Radial flow through deformable porous shells. (English summary) **93k:76108**

Bayada, Guy (*with* Chambat, Michèle) Conditions aux limites à l'interface d'un milieu poreux et d'un écoulement libre de faible épaisseur. (English and French summaries) [On boundary conditions at the interface between a thin film flow and a porous medium] **93f:76093**

Bedrikovetskii, P. G. (*with* Istomin, G. D.) Derivation of averaged equations of filtration-diffusive mass transport in two-layered porous strata. (Russian) (*see* **93m:00033**)

Bertin, Henri *see* **Quintard, Michel; et al., (93b:76086)**

Bodvarsson, Gudmundur S. *see* **Zimmerman, Robert W., (93b:86001)**

Bourgeat, A. (*with* El Amri, Hassan; Tapiéro, R.) Existence d'une taille critique pour une fissure dans un milieu poreux. (English summary) [Existence of a critical ratio for a fissure in a porous medium] **93c:76076**

Bratvedt, Frode (*with* Bratvedt, Kyrre; Buchholz, Christian F.; et al.) Front tracking for petroleum reservoirs. (English summary) **93h:76071**

Bratvedt, Kyrre *see* **Bratvedt, Frode; et al., 93h:76071**

Buchholz, Christian F. *see* **Bratvedt, Frode; et al., 93h:76071**

Carabineanu, Adrian A free boundary problem in porous media. (English summary) **93i:76087**

Chambat, Michèle *see* **Bayada, Guy, 93f:76093**

Chernyi, N. I. *see* **Lyashko, I. I., 93h:76072**

Chow, Chen Yu ★ System identification for a double porosity medium system. (English. English summary) **93i:76088**

Dale, Magnar Averaging of relative permeability in composite cores. (*see* **93b:76086**)

Danilov, V. G. (*with* Rashkovskii, O. B.) Asymptotic solution of an equation of the polytropic filtration of a gas in a nonhomogeneous medium. I. (Russian. English summary) **93a:76097**

— (*with* Rashkovskii, O. B.) Asymptotic solution of an equation of the polytropic filtration of a gas in a nonhomogeneous porous medium. II. (Russian. English summary) **93a:76098**

Dinariev, O. Yu. Some singularities of the curve of pressure reconstruction in the case of relaxation filtration of a fluid. (Russian) **93a:76099**

Dombre, Thierry (*with* Pumir, Alain; Siggia, Eric D.) On the interface dynamics for convection in porous media. (English summary) **93i:76089**

Douglas, Jim, Jr. Three models for waterflooding in a naturally fractured petroleum reservoir. (*see* **93b:65007**)

— (*with* Hensley, J. L.; Wei, Y.; et al.) A derivation for Darcy's law for miscible fluids and a revised model for miscible displacement in porous media. (English summary) (*see* **93g:76003**)

van Duijn, C. J. (*with* Peletier, L. A.) A boundary-layer problem in fresh-salt groundwater flow. **93c:76077**

El Amri, Hassan *see* **Bourgeat, A.; et al., 93c:76076**

Evans, W. A. B. *see* **Powles, J. G.; et al., 93f:76096**

Ewing, Richard E. Operator splitting and Eulerian-Lagrangian localized adjoint methods for multiphase flow. **93b:76082**

Fabrie, Pierre (*with* Langlais, Michel) Mathematical analysis of miscible displacement in porous medium. (English summary) **93m:76069**

Gagneux, Gérard (*with* Madaune-Tort, Monique) Sur la question de l'unicité pour des inéquations des milieux poreux. (English summary) [On uniqueness for the inequalities governing processes in porous media] **93g:76105**

Gazizov, R. K. *see* **Baikov, V. A.; et al., (93m:00033)**

Glimm, James (*with* Lindquist, W. Brent) Scaling laws for macrodispersion. (English summary) (*see* **93g:76003**)

Golubeva, O. V. (*with* Sapiyanov, T. N.) Distortion of two-dimensional flows by a permeable circumference. (Russian) **93j:76058**

Gusev, V. I. *see* **Kessel', A. R., 93f:76094**

Hamdan, M. H. Computational aspects of flow through curved domains: the effect of no-slip. (English summary) **93k:76109**

— (*with* Barron, R. M.) Applications of von Mises coordinates in porous media flow. **93b:76083**

— (*with* Barron, R. M.) On the Darcy-Lapwood-Brinkman-Saffman dusty fluid flow models through porous media. I. Models development. (English summary) **93k:76110a**

— *see also* **Barron, R. M., 93k:76110b**

Hensley, J. L. *see* **Douglas, Jim, Jr.; et al., (93g:76003)**

Istomin, G. D. *see* **Bedrikovetskii, P. G., (93m:00033)**

Kalaydjian, F. (*with* Marle, Charles-Michel) Microscopic flow and generalized Darcy's equations. (*see* **93b:76086**)

Kawarada, Hideo (*with* Koshigoe, Hideyuki; Sasamoto, Akira) The behavior of free surface appearing in the flow through the porous media. **93b:76084**

Kayumov, Sh. Construction of multiparametric two-dimensional mathematical models in the theory of the filtration of viscoplastic fluids. (Russian. Russian summary)

— Construction of an analogue of the Dupuy formula for some problems of nonlinear filtration. (Russian. Russian summary)

Kessel', A. R. (*with* Gusev, V. I.) The kinetics of a percolation lattice as a model of the filtration of an oil stratum. (Russian) **93f:76094**

Kharrazova, I. R. *see* **Vidyakin, V. V.**

Khasanov, M. M. *see* **Baikov, V. A.; et al., (93m:00033)**

Kholodovskii, S. E. On the solution of problems of two-dimensional linear filtration in layered soils. (Russian) **93b:76085**

(King, Peter Robert) *see* **Mathematics of oil recovery, 93b:76086**

Kiseleva, E. A. *see* **Maslov, V. P., 93k:76112**

Koshigoe, Hideyuki *see* **Kawarada, Hideo; et al., 93b:76084**

Lafarge, Denis Comments on: "Rigorous link between fluid permeability, electrical conductivity, and relaxation times for transport in porous media" [Phys. Fluids A **3** (1991), no. 11, 2529–2540; MR 92j:76090] by M. Avellaneda and S. Torquato. (English summary) **93k:76111**

Langlais, Michel *see* **Fabrie, Pierre, 93m:76069**

Levin, Orit *see* **Neuman, S. P.; et al., (93g:76003)**

Lévy, Thérèse *see* **Wodié, Jean-Christophe**

Liang, Jin On the problem of piston-like displacements in porous media. (*see* **93k:00036**)

Lindquist, W. Brent *see* **Glimm, James**, (93g:76003)
Lindstrøm, Tom (*with* Øksendal, Bernt; Ubøe, Jan) Stochastic modelling of fluid flow in porous media. (*see* **93a:93005**)
Lyashko, I. I. (*with* Chernyi, N. I.) A numerical method for solving problems of nonstationary filtration. (Russian. English and Russian summaries) **93h:76072**
Madaune-Tort, Monique *see* **Gagneux, Gérard**, 93g:76105
Maesumi, Mohsen Symmetry breaking and the interaction of hyperbolic waves. **93a:76100**
Mallett, M. J. D. *see* **Powles, J. G.; et al.**, 93f:76096
Mal'shakov, A. V. Equations of hydrodynamics for porous media with a void structure possessing fractal geometry. (English summary) **93f:76095**
Mamunya, L. A. A nonlinear problem of the filtration of a gas with a variable coefficient of gas permeability. (Ukrainian. Russian and Ukrainian summaries) **93d:76066**
Marle, Charles-Michel *see* **Kalaydjian, F.**, (93b:76086)
Maslov, V. P. (*with* Kiseleva, E. A.) Asymptotics of convective gas flow through a heat-releasing multiscale porous medium. (Russian) **93k:76112**
Mauri, Roberto Dispersion, convection, and reaction in porous media. (English summary) **93k:76113**
Mei, Chiang C. Dispersion of heat in periodic porous media by homogenization method. **93e:76066**
Migórski, Stanisław (*with* Schaefer, Robert) The existence aspects of Dupuit and Boussinesq filtration models using finite element method. (*see* **93e:76002**)
Miksis, Michael J. Bounds for mobility of foams flowing through porous media. **93a:76101**
Mitlin, V. S. On the description of the transition from a nonequilibrium to a local equilibrium model of multicomponent filtration. (Russian. Russian summary) **93j:76059**
Mls, Jiří A contribution to mechanics of two-phase systems. **93d:76067**
Mohamed, Fouad A. A hyperbolic free boundary problem arising in the theory of liquid infiltration into soils. (English summary) (*see* **93k:00036**)
Mukhidinov, N. *see* **Abdurazakov, A.**
Néel, Marie-Christine Natural convection in a horizontal porous layer of infinite extent: inhomogeneous heating. (English summary) **93h:76073**
Neuman, S. P. (*with* Orr, S.; Levin, Orit; Paleologos, E.) Theory and high-resolution finite element analysis of 2-D and 3-D effective permeabilities in strongly heterogeneous porous media. (English summary) (*see* **93g:76003**)
Øksendal, Bernt *see* **Lindstrøm, Tom; et al.**, (93a:93005)
Orr, S. *see* **Neuman, S. P.; et al.**, (93g:76003)
Paleologos, E. *see* **Neuman, S. P.; et al.**, (93g:76003)
Paşa, Gelu I. (*with* Poliševski, Dan) Instability of interfaces in oil recovery. **93a:76102**
Pascal, H. Similarity solutions to some two-phase flows through porous media. (English summary) **93c:76078**
— *see also* **Pascal, J. P.**, **93k:76114**
Pascal, J. P. Similarity solutions for axisymmetric plane radial power law fluid flows through a porous medium. **93a:76103**
— (*with* Pascal, H.) Similarity solutions to some gravity flows of non-Newtonian fluids through a porous medium. (English summary) **93k:76114**
Pavone, D. Equations for two-phase flow in porous media derived from space averaging. (*see* **93b:76086**)
Peletier, L. A. (*with* Zhao, Jun Ning) Large time behaviour of solutions of the porous media equation with absorption: the fast diffusion case. **93d:76068**
— *see also* **van Duijn, C. J.**, **93c:76077**
Peralta-Fabi, R. (*with* Plaschko, P.) Bifurcation of solutions to the controlled Burgers equation. (English summary) **93i:76090**
Plaschko, P. *see* **Peralta-Fabi, R.**, **93i:76090**
Poliševski, Dan Further remarks on the appearance of Darcean convection. **93k:76115**
— *see also* **Paşa, Gelu I.**, **93a:76102**
Poulisse, Hennie N. J. Effective absolute permeability in the presence of sub-grid heterogeneities: an analytical approach. **93c:76079**
Powles, J. G. (*with* Mallett, M. J. D.; Rickayzen, G.; Evans, W. A. B.) Exact analytic solutions for diffusion impeded by an infinite array of partially permeable barriers. (English summary) **93f:76096**
Pumir, Alain *see* **Dombre, Thierry; et al.**, **93i:76089**
Quintard, Michel (*with* Bertin, Henri; Whitaker, Stephen) Two-phase flow in heterogeneous porous media: large-scale capillary pressure and permeability determination. (*see* **93b:76086**)
Ragimova, T. A. *see* **Rasulov, M. A.; et al.**, **93a:76104**
Rashkovskii, O. B. *see* **Danilov, V. G.**, **93a:76097** *and* **93a:76098**
Rasulov, M. A. (*with* Ragimova, T. A.; Abasov, M. T.) On the identification of the saturation jump in oil displacement by water in a two-dimensional domain. (Russian) **93a:76104**
Rickayzen, G. *see* **Powles, J. G.; et al.**, **93f:76096**
Safargulova, S. I. (*with* Smirnov, N. N.) The rate of propagation of small perturbations in porous media. (Russian) **93d:76069**
Sapiyanov, T. N. *see* **Golubeva, O. V.**, **93j:76058**
Sasamoto, Akira *see* **Kawarada, Hideo; et al.**, **93b:76084**
Schaefer, Robert *see* **Migórski, Stanisław**, (93e:76002)
Showalter, R. E. Diffusion in a fissured medium with micro-structure. (*see* **93k:00036**)
Siggia, Eric D. *see* **Dombre, Thierry; et al.**, **93i:76089**
Smirnov, N. N. *see* **Safargulova, S. I.**, **93d:76069**
Spiegelman, Marc Flow in deformable porous media. I. Simple analysis. (English summary)
— Flow in deformable porous media. II. Numerical analysis—the relationship between shock waves and solitary waves. (English summary)
Tapiéro, R. *see* **Bourgeat, A.; et al.**, **93c:76076**
(Torquato, S.) *see* **Lafarge, Denis**, **93k:76111**
Ubøe, Jan *see* **Lindstrøm, Tom; et al.**, (93a:93005)
Ungureanu-David, Elena An inverse problem in the hydrodynamics of nonhomogeneous porous media. (Romanian) **93c:76080**
Urmancheev, S. F. The influence of interphase interaction in the problem of a discontinuity decay in a gas-saturated porous medium. (Russian) (*see* **93m:00033**)
Vidyakin, V. V. (*with* Kharrazova, I. R.) On the solution of stationary problems of the filtration of a viscoplastic fluid with a variable initial gradient. (Russian. Russian summary)
Wei, Y. *see* **Douglas, Jim, Jr.; et al.**, **(93g:76003)**
Weir, G. J. Linearised evaporation about a shallow half-plane pond. (English summary) **93k:76116**
Whitaker, Stephen *see* **Quintard, Michel; et al.**, **(93b:76086)**
Williams, W. O. On flow of a viscous fluid through a porous medium. **93j:76060**
Wodié, Jean-Christophe (*with* Lévy, Thérèse) Flow in a stratified porous medium with thin layers of large permeability.
Yortsos, Y. C. *see* **Zeybek, M.**, **93g:76106**
Zeybek, M. (*with* Yortsos, Y. C.) Parallel flow in Hele-Shaw cells. (English summary) **93g:76106**
Zhang, Qiang Length scales, multi-fractals and non-Fickian diffusion. (English summary) (*see* **93g:76003**)
Zhao, Jun Ning *see* **Peletier, L. A.**, **93d:76068**
Zimmerman, Robert W. (*with* Bodvarsson, Gudmundur S.) Integral method solutions to flow problems in unsaturated porous media. (English summary) (*see* **93b:86001**)

Items listed otherwise than by author

Cambridge ★ The mathematics of oil recovery. **93b:76086**
Conference:
Mathematics of Oil Recovery ★ The mathematics of oil recovery. **93b:76086**
Mathematics of oil recovery ★ The mathematics of oil recovery. **93b:76086**

Items with secondary classifications in 76S05

Abousleiman, Y. (*with* Cheng, A. H.-D.; Roegiers, J. C.) Boundary element method for viscoporoelasticity with rock mechanics applications. (English summary) (*see* **93b:65002**)
Aganović, I. Homogenization of free boundary oscillations of an inviscid fluid in a porous reservoir. (English and French summaries) **93j:35027**
Akhatov, I. Sh. Application of group analysis for the approximate solution of boundary value problems in filtration theory. (Russian) (*see* **93m:00033**)
Aldama, A. A. (*with* Paniconi, C.) An analysis of the convergence of Picard iterations for implicit approximations of Richard's equation. (English summary) (*see* **93g:76002**)
— *see also* **Beckie, R.; et al.**, (93g:76002)
Aldis, G. K. *see* **Barry, S. I.; et al.**, **93c:76089**
Allaire, Grégoire Homogenization of the unsteady Stokes equations in porous media. **93m:35022**
Amaranath, T. *see* **Padmavathi, B. S.**, **93m:76022**
Andreucci, Daniele (*with* DiBenedetto, E.) Weak solutions of the type of nonstationary filtration. **93g:35062**
Arbogast, Todd A simplified dual-porosity model for two-phase flow. (English summary) (*see* **93g:76003**)
Banks, W. H. H. (*with* Zaturska, M. B.) On flow through a porous annular pipe. **93c:76029**
Barry, S. I. (*with* Parker, K. H.; Aldis, G. K.) Fluid flow over a thin deformable porous layer. **93c:76089**
Beckie, R. (*with* Wood, E. F.; Aldama, A. A.) A multigrid acceleration for domain decomposition mixed finite element simulation of groundwater flow. (English summary) (*see* **93g:76002**)
Begehr, Heinrich Moving boundary problems of Hele Shaw type. **93g:35146**
Bernis, Francisco (*with* Hulshof, Josephus; Vázquez, Juan Luis) A very singular solution for the dual porous medium equation and the asymptotic behaviour of general solutions. **93k:35122**
Berryman, James G. Waves in partially saturated porous media. (English summary) **93f:73033**
Binning, P. *see* **Celia, M. A.**, (**93g:76003**)
Blunt, Martin (*with* Rubin, Barry) Implicit flux limiting schemes for petroleum reservoir simulation. (English summary) **93e:76051**
Bobisud, L. E. Steady-state turbulent flow with reaction. **93a:34026**
Brebbia, C. A. *see* **ElHarrouni, K.; et al.**, (**93b:65002**)
Cannon, John R. (*with* DuChateau, Paul; Moaveni, Saeed) An unknown ingredient inverse problem reduced to a functional-differential equation. (English summary) **93i:80002**
Cao, Zhen Chao A local solution to the Cauchy problem for a porous medium equation. (Chinese. English summary) **93d:35064**
Carrillo, José (*with* Gilardi, Gianni) La vitesse de propagation dans le problème de la digue. (English and French summaries) [Rate of propagation in the dam problem] **93g:35063**
Celia, M. A. (*with* Binning, P.) Multiphase models of unsaturated flow: approaches to the governing equations and numerical methods. (English summary) (*see* **93g:76003**)
Chen, Yung Ming *see* **Zhu, Jian-Ping^2**, **93b:65192** *and* **(93g:65178)**
Chen, Zhang Xing A quasi-projection analysis for elastic wave propagation in fluid-saturated porous media. (English summary) **93g:65121**
Cheng, A. H.-D. *see* **Abousleiman, Y.; et al.**, (**93b:65002**)
Cheng, Ai Jie A finite element method for displacement problems involving compressible miscible fluids. (Chinese. English and Chinese summaries) **93h:76047**
Chernyaev, A. P. Anisotropic spaces of generalized functions in problems of mechanics for a generalized axisymmetric equation. (Russian) (*see* **93m:00036**)
Dagan, Gedeon Dispersion of a passive solute in nonergodic transport by steady velocity fields in heterogeneous formations. **93a:76094**
Dahl, Olav (*with* Johansen, Thormod; Tveito, Aslak; Winther, Ragnar) Multicomponent chromatography in a two phase environment. **93c:35098**
Dahlberg, Björn E. J. (*with* Kenig, Carlos E.) Weak solutions of the porous medium equation. **93g:35018**
— (*with* Kenig, Carlos E.) Weak solutions of the porous medium equation in a cylinder. **93g:35019**
Dal Passo, Roberta (*with* Ughi, Maura) Existence and regularity of solutions of a generalized porous media equation in noncylindrical domains shrinking in time to a point. (*see* **93k:00036**)
D'Azevedo, E. F. (*with* Forsyth, P. A.; Tang, Wei Pai) Ordering methods for preconditioned conjugate gradient methods applied to unstructured grid problems. **93b:65054**
Deineka, V. S. *see* **Sergienko, I. V.; et al.**, **93g:65159**
Díaz Díaz, Jesús Ildefonso (*with* Shmarëv, S. I.) The one-dimensional porous medium equation with a strong convection: study via Lagrangian coordinates. (*see* **93j:00009**)

DiBenedetto, E. *see* **Andreucci, Daniele, 93g:35062**

Douglas, Jim, Jr. (*with* Paes-Leme, P. J.) Finite difference methods for a model for immiscible displacement in naturally fractured petroleum reservoirs. (English and Portuguese summaries) **93i:65084**

DuChateau, Paul *see* **Cannon, John R.; et al., 93i:80002**

ElHarrouni, K. (*with* Ouazar, D.; Wrobel, L. C.; Brebbia, C. A.) Dual reciprocity boundary element method for heterogeneous porous media. (English summary) (*see* **93b:65002**)

Entov, V. M. *see* **Ginzburg, I. S.; et al., 93c:76075**

Ersland, Brit Gunn (*with* Teigland, Rune) Comparison of two cell-centered multigrid schemes for problems with discontinuous coefficients. (English summary)

Ewing, Richard E. Finite-element methods for multiphase and multicomponent flows. (*see* **93e:76050**)

Forsyth, P. A. *see* **D'Azevedo, E. F.; et al., 93b:65054**

Friedman, Avner (*with* Knabner, Peter) A transport model with micro- and macro-structure. **93g:35114**

Fushchich, V. I. (*with* Serov, N. I.; Vorob'eva, A. Z.) Conditional symmetry and exact solutions of equations of nonstationary filtration. (Russian summary) **93c:35017**

Gilardi, Gianni The support of the solution in the dam problem. (*see* **93k:00036**)

— *see also* **Carrillo, José, 93g:35063**

Gimse, Tore (*with* Risebro, Nils Henrik) Solution of the Cauchy problem for a conservation law with a discontinuous flux function. **93e:35070**

Ginzburg, I. S. (*with* Entov, V. M.; Teodorovich, È. V.) The renormalization group method in a problem of convective diffusion with irreversible sorption. (Russian) **93c:76075**

Glimm, James *see* **Zhang, Qiang, 93g:76068**

Goncerzewicz, Jan Properties of solutions to the initial-boundary value problem for a porous media-type equation. **93e:35056**

Gordeev, Yu. N. A nonstationary problem on a plane hydraulic extension fissure of a fluid-saturated stratum. (Russian) **93a:73068**

— A disk-shaped crack from hydraulic fracture in a poroelastic medium. (Russian. Russian summary) **93g:73098**

Guarnaccia, J. F. (*with* Pinder, G. F.) A collocation based parallel algorithm to solve two phase flow and transport problems in porous media. (English summary) (*see* **93g:65178**)

Gustafsson, Björn (*with* Sakai, Makoto) Some geometric properties of solutions of a Hele-Shaw flow moving boundary problem. (*see* **93k:00036**)

Hoffmann, Karl-Heinz[1] (*with* Knabner, Peter; Seifert, W.) Adaptive methods for parameter identification in ground water hydrology. **93a:76076**

Holden, Lars On the strict hyperbolicity of the Buckley-Leverett equations for three-phase flow. **93e:76067**

Howison, Sam D. Codimension-two free boundary problems. (English summary) (*see* **93k:00035**)

Hulshof, Josephus *see* **Bernis, Francisco; et al., 93k:35122**

Isaacson, Eli L. (*with* Temple, Blake) Nonlinear resonance in systems of conservation laws. (English summary) **93f:35140**

Janno, Jaan On determining extremal piezometric heads in one-dimensional model of groundwater flow. (English, Russian and Estonian summaries) **93k:34033**

Johansen, Thormod *see* **Dahl, Olav; et al., 93c:35098**

Kaloni, P. N. *see* **Qin, Yu, 93a:35121** *and* **93m:76024**

Kamin, Shoshana (*with* Peletier, L. A.; Vázquez, Juan Luis) On the Barenblatt equation of elastoplastic filtration. **93b:35117**

— (*with* Vázquez, Juan Luis) The propagation of turbulent bursts. (English summary) **93m:35094**

Kenig, Carlos E. *see* **Dahlberg, Björn E. J., 93g:35018** *and* **93g:35019**

(Khlebnikov, V. I.) *see* **Polubarinova-Kochina, P. Ya., 93a:01067**

Knabner, Peter *see* **Hoffmann, Karl-Heinz[1]; et al., 93a:76076** *and* **Friedman, Avner, 93g:35114**

Kushnir, V. I. Investigation of the solvability of a generalizing equation of the filtration of a nonhomogeneous fluid. (Russian) **93b:35119**

Li, Zheng Yuan (*with* Peletier, L. A.) A comparison principle for the porous media equation with absorption. **93a:35088**

Liang, Dong A characteristics mixed finite element method of numerical simulation for 2-phase immiscible flow. **93d:76040**

— A viscosity splitting numerical simulation method for two-phase miscible displacement problem. (*see* **93d:65004**)

Liu, Tai-Ping *see* **Xiao, Ling, 93e:35072**

Machta, Jonathan The computational complexity of pattern formation. (English summary) **93m:82044**

Marcati, Pierangelo (*with* Milani, Albert J.) Fluid flow in macromolecular systems and related perturbation problems. (English and French summaries) **93h:35167**

Martinez, M. J. A boundary integral method for steady unsaturated flow in nonhomogeneous media. (English summary) (*see* **93b:65002**)

Maslov, V. P. Overheating effects in filtration media. (Russian) **93k:76106**

Matysiak, Stanisław J. On the homogenized model of periodic stratified fluid-saturated porous solids. **93a:73004**

Mazurov, P. A. A variational approach in the theories of filtration consolidation and two-phase filtration. (Russian) **93c:73005**

Meredith, D. (*with* Rasmussen, Henning) Rational approximation schemes for unstable Hele-Shaw flows. (English summary)

Milani, Albert J. *see* **Marcati, Pierangelo, 93h:35167**

Mkrtychyan, P. Z. Uniqueness of the solution of the second initial-boundary value problem for an equation of non-Newtonian polytropic filtration. (Russian. English and Russian summaries) **93i:35075**

Moaveni, Saeed *see* **Cannon, John R.; et al., 93i:80002**

Nikolaevskiĭ, V. N. ★ Mechanics of porous and fractured media. **93a:73013**

Ohara, Yasuhiro L^∞-estimates of solutions of some nonlinear degenerate parabolic equations. **93d:35084**

Ouazar, D. *see* **ElHarrouni, K.; et al., (93b:65002)**

Pachpatte, B. G. On a certain boundary value problem for third order partial differential equation in one space variable. **93d:35024**

Padmavathi, B. S. (*with* Amaranath, T.) A solution for the problem of Stokes flow past a porous sphere. (English summary) **93m:76022**

Paes-Leme, P. J. *see* **Douglas, Jim, Jr., 93i:65084**

Paniconi, C. *see* **Aldama, A. A., (93g:76002)**

Parker, K. H. *see* **Barry, S. I.; et al., 93c:76089**

Pascal, H. Similarity solutions to some unsteady flows of non-Newtonian fluids of power law behavior. (English summary) **93f:76003**

— On a nonlinear convection-diffusion equation. (English summary) **93k:76104**

Peletier, L. A. *see* **Li, Zheng Yuan, 93a:35088** *and* **Kamin, Shoshana; et al., 93b:35117**

Pinder, G. F. *see* **Guarnaccia, J. F., (93g:65178)**

Polubarinova-Kochina, P. Ya. ★ Избранные труды. Гидродинамика и теория фильтрации. (Russian) [Selected works. Hydrodynamics and filtration theory] **93a:01067**

Puzhaĭ, A. M. *see* **Sergienko, I. V.; et al., 93g:65159**

Qi, Yuan-Wei The existence and asymptotic behaviour of similarity solutions to a quasilinear parabolic equation. **93d:35068**

Qin, Yu (*with* Kaloni, P. N.) Steady convection in a porous medium based upon the Brinkman model. **93a:35121**

— (*with* Kaloni, P. N.) Creeping flow past a porous spherical shell. (English and German summaries) **93m:76024**

Ramaswamy, B. *see* **Srinivas, C.; et al., (93g:76002)**

Rasmussen, Henning *see* **Meredith, D.**

Rees, D. A. S. A numerical investigation of the nonlinear wave stability of vertical thermal boundary layer flow in a porous medium. (English summary)

Riahi, D. N. Preferred pattern of convection in a porous layer with a spatially nonuniform boundary temperature. (English summary) **93i:76038**

Richardson, Lorna Porous penetrative convection with a salt field and internal heat source. (English summary) **93m:76036**

Risebro, Nils Henrik *see* **Gimse, Tore, 93e:35070**

Roegiers, J. C. *see* **Abousleiman, Y.; et al., (93b:65002)**

Rubin, Barry *see* **Blunt, Martin, 93e:76051**

Rusten, Torgeir (*with* Winther, Ragnar) Substructure preconditioners for elliptic saddle point problems. **93d:65108**

Sachdev, P. L. *see* **Vanaja, V., 93h:35184**

Sakai, Makoto *see* **Gustafsson, Björn, (93k:00036)**

Seifert, W. *see* **Hoffmann, Karl-Heinz[1]; et al., 93a:76076**

Sergienko, I. V. (*with* Deineka, V. S.; Skopetskiĭ, V. V.; Puzhaĭ, A. M.) Modeling and investigation of physical processes in structures with thin inhomogeneous inclusions. (Russian. English and Russian summaries) **93g:65159**

Serov, N. I. *see* **Fushchich, V. I.; et al., 93c:35017**

Shmarĕv, S. I. *see* **Díaz Díaz, Jesús Ildefonso, (93j:00009)**

Shukla, K. N. ★ Diffusion processes during drying of solids. **93b:80007**

Skopetskiĭ, V. V. *see* **Sergienko, I. V.; et al., 93g:65159**

Srinivas, C. (*with* Ramaswamy, B.; Wheeler, Mary Fanett) Mixed finite element methods for flow through unsaturated porous media. (English summary) (*see* **93g:76002**)

Syzdykova, Z. N. Well-posedness of a model for the transportation of a gas in frozen ground. (Russian) (*see* **93d:35001**)

Talenti, Giorgio (*with* Tonani, F.) Detecting subsurface gas sources. (*see* **93f:35007**)

Tang, Wei Pai *see* **D'Azevedo, E. F.; et al., 93b:65054**

Teigland, Rune *see* **Ersland, Brit Gunn**

Temple, Blake *see* **Isaacson, Eli L., 93f:35140**

Teodorovich, È. V. *see* **Ginzburg, I. S.; et al., 93c:76075**

Tonani, F. *see* **Talenti, Giorgio, (93f:35007)**

Tveito, Aslak (*with* Winther, Ragnar) Existence, uniqueness, and continuous dependence for a system of hyperbolic conservation laws modeling polymer flooding. **93a:35107**

— *see also* **Dahl, Olav; et al., 93c:35098**

Ughi, Maura ★ On the porous media equation with either source or absorption. **93k:35150**

— *see also* **Dal Passo, Roberta, (93k:00036)**

Vainikko, Eero (*with* Vainikko, Gennadi) Some numerical schemes for the identification of the filtration coefficient. (Russian summary) **93c:65132**

Vainikko, Gennadi *see* **Vainikko, Eero, 93c:65132**

Vanaja, V. (*with* Sachdev, P. L.) Asymptotic solutions of a generalized Burgers equation. (English summary) **93h:35184**

Vázquez, Juan Luis *see* **Kamin, Shoshana; et al., 93b:35117**; **Bernis, Francisco; et al., 93k:35122** *and* **Kamin, Shoshana, 93m:35094**

Vorob'eva, A. Z. *see* **Fushchich, V. I.; et al., 93c:35017**

Wang, Wen Qia *see* **Yuan, Yi Rang; et al., 93h:65132**

Wheeler, Mary Fanett *see* **Srinivas, C.; et al., (93g:76002)**

Winther, Ragnar *see* **Tveito, Aslak, 93a:35107**; **Dahl, Olav; et al., 93c:35098** *and* **Rusten, Torgeir, 93d:65108**

Wood, E. F. *see* **Beckie, R.; et al., (93g:76002)**

Wooding, R. A. Deposition from a curved shallow flow treated as a moving boundary of constant form. (*see* **93j:35005**)

Wrobel, L. C. *see* **ElHarrouni, K.; et al., (93b:65002)**

Wu, Lang-Fang A new result for the porous medium equation derived from the Ricci flow. **93f:58245**

Xiang, Xin Min *see* **Zhang, Fa Yong, 93b:65183**

Xiao, Ling Hyperbolic systems with dissipation. **93d:35093**

— (*with* Liu, Tai-Ping) Convergence to nonlinear diffusion waves for solutions of a system of hyperbolic conservation laws with damping. **93e:35072**

Yang, Dan Ping Approximation and its optimal error estimate of displacement of two-phase incompressible flow by mixed finite element and a modified method of characteristics.

— *see also* **Yuan, Yi Rang; et al., 93h:65132**

Yang, Jin Shun (*with* Zhao, Jun Ning) Time behaviour of solution of the porous medium equation with absorption. (Chinese summary) **93b:35070**

Yin, Hong Ming A singular-degenerate free boundary problem arising from the moisture evaporation in a partially saturated porous medium. (English summary) **93g:35150**

Yuan, Yi Rang Finite element-characteristic method and analysis for a compressible miscible displacement problem in porous media. (English summary) **93g:76082**

— (*with* Wang, Wen Qia; Yang, Dan Ping) Difference methods for a system of partial differential equations arising in the numerical simulation of petroleum origin and accumulation in basin evolution and a numerical analysis. (Chinese. English and Chinese summaries) **93h:65132**

Zaturska, M. B. *see* **Banks, W. H. H., 93c:76029**
Zhang, Fa Yong (*with* Xiang, Xin Min) Legendre and Chebyshev pseudospectral method for BBM equation. **93b:65183**
Zhang, Qiang (*with* Glimm, James) Inertial range scaling of laminar shear flow as a model of turbulent transport. **93g:76068**
Zhao, Jun Ning *see* **Yang, Jin Shun, 93b:35070**
Zhu, Jian-Ping[2] (*with* Chen, Yung Ming) On the application of supercomputers for history matching multiphase oil reservoir models. (English summary) (*see* **93g:65178**)
— (*with* Chen, Yung Ming) Multilevel grid method for history matching multidimensional multiphase reservoir models. **93b:65192**

Items listed otherwise than by author

Bibliography:
Polubarinova-Kochina, P. Ya. *see* **Polubarinova-Kochina, P. Ya., 93a:01067**
Biography:
Polubarinova-Kochina, P. Ya *see* **Polubarinova-Kochina, P. Ya., 93a:01067**

76T05 Two-phase and multiphase flows

Arbogast, Todd A simplified dual-porosity model for two-phase flow. (English summary) (*see* **93g:76003**)
Binning, P. *see* **Celia, M. A., (93g:76003**)
Celia, M. A. (*with* Binning, P.) Multiphase models of unsaturated flow: approaches to the governing equations and numerical methods. (English summary) (*see* **93g:76003**)
Gavrilyuk, S. L. Existence, uniqueness, and Lax stability of traveling waves in a polydisperse bubbly medium with dissipation. **93c:76081**
— Propagation of a signal in a polydispersive bubbly fluid with continuous distribution of bubbles by size. (Russian) **93k:76117**
Göz, M. F. On the origin of wave patterns in fluidized beds. (English summary) **93g:76107**
Gumerov, N. A. Quasimonochromatic weakly nonlinear waves in a bubble medium with small dissipation. (Russian) **93d:76070**
Holden, Lars On the strict hyperbolicity of the Buckley-Leverett equations for three-phase flow. **93e:76067**
Keyfitz, Barbara Lee Change of type in simple models for two-phase flow. **93d:76071**
Kim, Hyun S. (*with* Prosperetti, Andrea) Numerical simulation of the motion of rigid spheres in potential flow. (English summary) **93h:76074**
Kril', S. I. First integrals of the equations of suspension dynamics. (Russian. Russian summary) **93i:76091**
Loper, D. E. A nonequilibrium theory of a slurry. (English summary) **93g:76108**
McCarthy, Matthew F. Pulse propagation in particulate suspensions. (English summary) **93k:76118**
Prosperetti, Andrea *see* **Kim, Hyun S., 93h:76074**
Smith, Ronald (*with* Walton, Ian) A Burgers concentration dispersion equation. **93a:76105**
Stojanovic, Srdjan Computations for variational free boundary problem modeling injection of fluid from a slot into a stream. **93c:76082**
Trangenstein, John A. Analysis of a model and sequential numerical method for thermal reservoir simulation. (*see* **93b:76086**)
Walton, Ian *see* **Smith, Ronald, 93a:76105**

Items with secondary classifications in 76T05

Aanonsen, S. I. Application of fractional-flow theory to 3-phase, 1-dimensional surfactant flooding. (*see* **93b:76086**)
Achard, J.-L. *see* **Canot, E., 93d:76053**
Arbogast, Todd The existence of weak solutions to single porosity and simple dual-porosity models of two-phase incompressible flow. **93k:76107**
Auriault, J.-L. (*with* He, S.) Liquid phase sintering: rearrangement and densification. (English summary) **93k:73010**
Baer, M. *see* **Embid, Pedro, 93h:80004**
Barron, R. M. (*with* Hamdan, M. H.) On the Darcy-Lapwood-Brinkman-Saffman dusty fluid flow models through porous media. II. Applications to flow into a two-dimensional sink. (English summary) **93k:76110b**
— *see also* **Hamdan, M. H., 93k:76110a**
Bertin, Henri *see* **Quintard, Michel; et al., (93b:76086**)
Bratvedt, Frode (*with* Bratvedt, Kyrre; Buchholz, Christian F.; et al.) Front tracking for petroleum reservoirs. (English summary) **93h:76071**
Bratvedt, Kyrre *see* **Bratvedt, Frode; et al., 93h:76071**
Buchholz, Christian F. *see* **Bratvedt, Frode; et al., 93h:76071**
Canot, E. (*with* Achard, J.-L.) An overview of boundary integral formulations for potential flows in fluid-fluid systems. **93d:76053**
Chen, Yung Ming *see* **Zhu, Jian-Ping[2]**
Dahl, Olav (*with* Johansen, Thormod; Tveito, Aslak; Winther, Ragnar) Multicomponent chromatography in a two phase environment. **93c:35098**
Dobran, Flavio ★ Theory of structured multiphase mixtures. **93g:73024**
— Modeling of structured multiphase mixtures. (English summary) **93g:73017**
Doronin, G. G. Well-posedness of the Cauchy problem for Kligel-Nickerson equations with viscosity in the gas phase. (Russian. Russian summary) **93m:35176**
Embid, Pedro (*with* Baer, M.) Mathematical analysis of a two-phase continuum mixture theory. (English summary) **93h:80004**
— (*with* Hunter, John K.; Majda, Andrew J.) Simplified asymptotic equations for the transition to detonation in reactive granular materials. (English summary) **93f:35139**
Espedal, M. S. *see* **Hansen, R.; et al., (93g:76002**)
Ewing, Richard E. Operator splitting and Eulerian-Lagrangian localized adjoint methods for multiphase flow. **93b:76082**
— Finite-element methods for multiphase and multicomponent flows. (*see* **93e:76050**)
Fabrie, Pierre (*with* Langlais, Michel) Mathematical analysis of miscible displacement in porous medium. (English summary) **93m:76069**
Fedorov, Alexandre V. (*with* Fedorova, N. N.) The structure, propagation and reflection of shock waves in a mixture of solid bodies (hydrodynamic approximation). (Russian) **93m:76056**
— *see also* **Varlamov, E. V., 93d:73032**
Fedorova, N. N. *see* **Fedorov, Alexandre V., 93m:76056**
Fleury, Françoise Sédimentation d'une suspension de gouttelettes visqueuses sphériques. (French summary) [Sedimentation of a suspension of spherical viscous droplets] **93g:76045**
Freed, Nathan (*with* Ofer, Dror; Shvarts, Dov; Orszag, Steven A.) Two-phase flow analysis of self-similar turbulent mixing by Rayleigh-Taylor instability. (English summary)
Garguichevich, Graciela G. (*with* Tarzia, Domingo A.) The steady-state two-phase Stefan problem with an internal energy and some related problems. **93e:80003**
Gimse, Tore (*with* Risebro, Nils Henrik) Solution of the Cauchy problem for a conservation law with a discontinuous flux function. **93e:35070**
— Conservation laws with discontinuous flux functions. (English summary) **93j:35111**
Giovine, Pasquale (*with* Oliveri, Francesco) Wave features related to a model of compressible immiscible mixtures of two perfect fluids. (English summary) **93i:76072**
Glaister, P. Similarity solutions for multi-component flows. (English summary) **93f:76083**
Guarnaccia, J. F. (*with* Pinder, G. F.) A collocation based parallel algorithm to solve two phase flow and transport problems in porous media. (English summary) (*see* **93g:65178**)
Guha, A. Jump conditions across normal shock waves in pure vapour-droplet flows. (English summary) **93f:76063**
Hamdan, M. H. (*with* Barron, R. M.) On the Darcy-Lapwood-Brinkman-Saffman dusty fluid flow models through porous media. I. Models development. (English summary) **93k:76110a**
— *see also* **Barron, R. M., 93k:76110b**
Hansen, R. (*with* Espedal, M. S.; Nygaard, O.) An operator splitting technique for two-phase immiscible flow dominated by gravity and capillary forces. (English summary) (*see* **93g:76002**)
He, S. *see* **Auriault, J.-L., 93k:73010**
Hunter, John K. *see* **Embid, Pedro; et al., 93f:35139**
Ilic, M. A class of moving boundary problems arising in drying processes. (English summary) **93h:35219**
Isaacson, Eli L. (*with* Temple, Blake) Nonlinear resonance in systems of conservation laws. (English summary) **93f:35140**
Iskakov, K. M. (*with* Shatalov, Yu. S.; Shayakberov, V. F.) An equation of heat and mass transfer of two-phase media in rotating channels. (Russian. Russian summary) (*see* **93k:00022**)
Johansen, Thormod *see* **Dahl, Olav; et al., 93c:35098**
(King, Peter Robert) *see* **Mathematics of oil recovery, 93b:76086**
Koch, Donald L. Hydrodynamic diffusion in dilute sedimenting suspensions at moderate Reynolds numbers. (English summary) **93m:76067**
Kytömaa, H. K. (*with* Schmid, Peter J.) On the collision of rigid spheres in a weakly compressible fluid. (English summary) **93h:76006**
Landman, K. A. (*with* White, L. R.) Moving boundary problems in solid/liquid separation. **93k:35279**
Langlais, Michel *see* **Fabrie, Pierre, 93m:76069**
Liang, Dong A characteristics mixed finite element method of numerical simulation for 2-phase immiscible flow. **93d:76040**
L'vov, V. A. A probabilisitic problem that arises in describing the motion of solid particles in a fluid. (Russian) **93i:76071**
Maesumi, Mohsen Symmetry breaking and the interaction of hyperbolic waves. **93a:76100**
Majda, Andrew J. *see* **Embid, Pedro; et al., 93f:35139**
Mason, D. P. *see* **Nakayama, M., 93f:86006**
Mls, Jiří A contribution to mechanics of two-phase systems. **93d:76067**
Nakayama, M. (*with* Mason, D. P.) Rarefactive solitary waves in two-phase fluid flow of compacting media. **93f:86006**
Nicolau, Alexandru Sur l'écoulement d'un fluide isotherme et non homogène. (French summary) [On the flow of a nonhomogeneous isothermal fluid] **93h:76070**
Nygaard, O. *see* **Hansen, R.; et al., (93g:76002**)
Ofer, Dror *see* **Freed, Nathan; et al.**
Oliveri, Francesco *see* **Giovine, Pasquale, 93i:76072**
Orszag, Steven A. *see* **Freed, Nathan; et al.**
Pascal, H. Similarity solutions to some two-phase flows through porous media. (English summary) **93c:76078**
Pavone, D. Equations for two-phase flow in porous media derived from space averaging. (*see* **93b:76086**)
Pinder, G. F. *see* **Guarnaccia, J. F., (93g:65178**)
Quintard, Michel (*with* Bertin, Henri; Whitaker, Stephen) Two-phase flow in heterogeneous porous media: large-scale capillary pressure and permeability determination. (*see* **93b:76086**)
Risebro, Nils Henrik *see* **Gimse, Tore, 93e:35070**
Rubinstein, L. (*with* Rubinstein, Lev) On dynamic theory of osmosis. (*see* **93k:00035**)
Rubinstein, Lev *see* **Rubinstein, L., (93k:00035**)
Sadhal, S. S. Solutions to a class of transport problems with radially dominant convection. (English summary) **93m:76031**
Safargulova, S. I. (*with* Smirnov, N. N.) The rate of propagation of small perturbations in porous media. (Russian) **93d:76069**
Schmid, Peter J. *see* **Kytömaa, H. K., 93h:76006**
Shatalov, Yu. S. *see* **Iskakov, K. M.; et al., (93k:00022**)
Shayakberov, V. F. *see* **Iskakov, K. M.; et al., (93k:00022**)
Shvarts, Dov *see* **Freed, Nathan; et al.**
Smirnov, N. N. *see* **Safargulova, S. I., 93d:76069**
Starovoitov, V. N. Solvability of a problem on the motion of a fluid with an interphase boundary. (Russian. Russian summary) **93f:35248**
Tarzia, Domingo A. *see* **Garguichevich, Graciela G., 93e:80003**
Temple, Blake *see* **Isaacson, Eli L., 93f:35140**
Tveito, Aslak *see* **Dahl, Olav; et al., 93c:35098**
Urmancheev, S. F. The influence of interphase interaction in the problem of a discontinuity decay in a gas-saturated porous medium. (Russian) (*see* **93m:00033**)
Varlamov, E. V. (*with* Fedorov, Alexandre V.) A traveling wave in a nonisothermic mixture of two solids. (Russian) **93d:73032**
(Verheggen, T. M. M.) *see* **Numerical methods for the simulation of multi-phase and complex**

flow

Wendroff, Burton Composite flows. (English summary) **93j:76050**

— An analysis of front tracking for chromatography. (English summary) **93m:65175**

Whitaker, Stephen *see* **Quintard, Michel; et al., (93b:76086)**

White, L. R. *see* **Landman, K. A., 93k:35279**

Winther, Ragnar *see* **Dahl, Olav; et al., 93c:35098**

Yuan, Yi Rang Finite element-characteristic method and analysis for a compressible miscible displacement problem in porous media. (English summary) **93g:76082**

Zapryanov, Zapryan Fluid dynamics of rigid or fluid particles in shear flows. (Bulgarian. English and Russian summaries) **93m:76033**

Zhu, Jian-Ping[2] (*with* Chen, Yung Ming) Parameter estimation for multiphase reservoir models on hypercubes.

Items listed otherwise than by author

Amsterdam ★ Numerical methods for the simulation of multi-phase and complex flow.

Cambridge ★ The mathematics of oil recovery. **93b:76086**

Conference:

Mathematics of Oil Recovery ★ The mathematics of oil recovery. **93b:76086**

Lecture Notes in Physics ★ Numerical methods for the simulation of multi-phase and complex flow.

Mathematics of oil recovery ★ The mathematics of oil recovery. **93b:76086**

Numerical methods for the simulation of multi-phase and complex flow ★ Numerical methods for the simulation of multi-phase and complex flow.

Workshop:

Numerical Methods for the Simulation of Multi-Phase and Complex Flow ★ Numerical methods for the simulation of multi-phase and complex flow.

76U05 Rotating fluids

Bauer, Helmut F. (*with* Kammerer, Lothar) Natural frequencies and axial response of a spinning liquid layer in a micro-gravity field. (English and German summaries) **93m:76070**

Bazdenkov, S. V. The effect of bottom friction on the cyclone-anticyclone asymmetry in rotating shallow-water flows with small deformation radius. (English summary) **93h:76075**

Camassa, Roberto (*with* Holm, Darryl D.) Dispersive barotropic equations for stratified mesoscale ocean dynamics. (English summary) **93j:76061**

Chern, I-Liang (*with* Colin, Thierry; Kaper, Hans G.) Classical solutions of the nondivergent barotropic equations on the sphere. (English summary) **93g:76109**

Colin, Thierry *see* **Chern, I-Liang; et al., 93g:76109**

Dritschel, David G. *see* **Nycander, J.; et al., 93k:76120**

Fraguela Collar, Andrés Some spectral questions in the problem of small oscillations of a rotating fluid. (Russian. Russian summary) **93j:76062**

Grimshaw, R. H. J. (*with* Yi, Zeng Xin) Resonant generation of finite-amplitude waves by flow past topography on a β-plane. (English summary) **93m:76071**

van Heijst, G. J. F. *see* **Hopfinger, E. J., 93k:76119**

Holm, Darryl D. *see* **Camassa, Roberto, 93j:76061**

Hopfinger, E. J. (*with* van Heijst, G. J. F.) Vortices in rotating fluids. **93k:76119**

Kammerer, Lothar *see* **Bauer, Helmut F., 93m:76070**

Kaper, Hans G. *see* **Chern, I-Liang; et al., 93g:76109**

Komarenko, A. N. Equations of the perturbed motion of a body, with a cavity partially filled with a fluid, that rotates about an axis. (Russian. Russian summary) **93i:76092**

Kravtsov, O. V. Lagrangian invariants in the equilibrium conditions of an ideal rotating fluid. **93f:76097**

Limarchenko, O. S. Unsteady rotation of a viscous fluid with a free surface in a cylindrical tank. (Russian. Russian summary) **93h:76076**

Maas, Leo R. M. Nonlinear and free-surface effects on the spin-down of barotropic axisymmetric vortices. (English summary) **93i:76093**

Nycander, J. (*with* Dritschel, David G.; Sutyrin, G. G.) The dynamics of long frontal waves in the shallow-water equations. (English summary) **93k:76120**

Saltanov, N. V. (*with* Shestopal, P. A.) Potential representations of solutions of the equations of the dynamics of nonideal rotating fluids. (Russian. Russian summary) **93i:76094**

Shestopal, P. A. *see* **Saltanov, N. V., 93i:76094**

Sutyrin, G. G. *see* **Nycander, J.; et al., 93k:76120**

Yi, Zeng Xin *see* **Grimshaw, R. H. J., 93m:76071**

Zeytounian, Radyadour Kh. Fluid dynamics limits of meteorological equations. (English and Russian summaries) **93m:76072**

Zhang, Keke On equatorially trapped boundary inertial waves. (English summary) **93k:76121**

Items with secondary classifications in 76U05

Barozzi, E. (*with* Emmer, M.; Gonzalez, E. H. A.) Lagrange multipliers and variational methods for equilibrium problems of fluids. **93j:49044**

Bauer, Helmut F. Natural damped frequencies and axial response of a rotating finite viscous liquid column. **93e:76036**

Bell, M. J. *see* **Read, P. L.; et al., 93c:76047**

Cessi, Paola (*with* Young, W. R.) Multiple equilibria in two-dimensional thermohaline circulation. (English summary) **93f:76089**

Churilov, S. M. (*with* Shukhman, I. G.) Weakly nonlinear theory of the alternation of modes in a circular shear flow. (English summary) **93g:76060**

Debnath, Lokenath The Hilbert transform and its applications to fluid dynamics. **93h:76059**

Ecke, Robert E. *see* **Zhong, Fang, 93a:76093**

Emmer, M. *see* **Barozzi, E.; et al., 93j:49044**

Evtimov, Stiliyan N. Nonlinear inertial-gravitational waves in equatorial regions. (Bulgarian. English and Russian summaries)

Filatov, A. N. *see* **Gorelov, A. S., 93f:35182**

Fogelson, Aaron L. Particle-method solution of two-dimensional convection-diffusion equations. **93b:76081**

Garadzhaev, A. (*with* Orazov, M. B.) Spectral theory of a problem on normal oscillations of an ideal compressible fluid in a rotating elastic vessel. (Russian) **93f:76082**

(Ghil, M.) *see* **Ripa, P., 93c:76036**

Gledzer, E. B. (*with* Ponomarev, V. M.) Instability of bounded flows with elliptical streamlines. (English summary) **93e:76024**

Glushko, A. V. (*with* Rybakov, S. O.) The Dirichlet problem in a half-space for a system of equations of motion of a viscous compressible rotating fluid. (Russian. Russian summary) (*see* **93d:35002**)

— (*with* Rybakov, S. O.) A localization theorem for a problem on the dynamics of a rotating viscous compressible fluid. (Russian) **93d:35114**

Goldstein, H. F. (*with* Knobloch, Edgar; Mercader, I.; Net, M.) Convection in a rotating cylinder. I. Linear theory for moderate Prandtl numbers. (English summary)

Gonzalez, E. H. A. *see* **Barozzi, E.; et al., 93j:49044**

Gorelov, A. S. (*with* Filatov, A. N.) Inertial manifolds for equations of barotropic atmosphere. **93f:35182**

Guckenheimer, John (*with* Mahalov, Alex) Resonant triad interactions in symmetric systems. **93b:76028**

Huang, Si Xun A discussion on the existence of nonlinear solitary waves in low latitude areas. (Chinese. Chinese summary) **93k:35215**

Il'in, A. A. Some dimensionless numbers and the associated inequalities describing the asymptotic behaviour of the solutions to the barotropic vorticity equation. **93f:35183**

Johnson, D. W. *see* **Read, P. L.; et al., 93c:76047**

Keller, Joseph B. *see* **Knessl, Charles, 93h:76033**

Kharik, V. M. Generation of internal waves in a rotating, stratified fluid: some symmetry properties. (English summary) **93j:76064**

Knessl, Charles (*with* Keller, Joseph B.) Stability of rotating shear flows in shallow water. (English summary) **93h:76033**

Knobloch, Edgar *see* **Goldstein, H. F.; et al.**

Kozlov, V. F. Construction of the stationary states of vortex patches by the method of perturbations. (Russian) **93a:76021**

Lebovitz, Norman (*with* Lifschitz, Alexander E.) Short wavelength instabilities of rotating, compressible fluid masses. (English summary) **93g:76055**

Lifschitz, Alexander E. *see* **Lebovitz, Norman, 93g:76055**

Lindblom, Lee On the symmetries of equilibrium stellar models. (English summary) **93h:85002**

Lions, Jacques-Louis (*with* Temam, Roger; Wang, Shou Hong) New formulations of the primitive equations of atmosphere and applications. **93e:35088**

Liou, Jianntyng *see* **Pironneau, Olivier; et al., 93j:65150**

Mahalov, Alex *see* **Guckenheimer, John, 93b:76028**

Maslennikova, V. N. (*with* Petunin, I. M.) Uniform stabilization as $t \to \infty$ of the solution of the Cauchy problem for a system of acoustic vibrations in a compressible medium. (Russian. Russian summary) **93j:76055**

Mercader, I. *see* **Goldstein, H. F.; et al.**

Mu, Mu Global smooth solutions of two-dimensional Euler equations. **93k:35219**

— (*with* Wang, Xi Yong) Nonlinear stability criteria for the motion of three-dimensional quasigeostrophic flow on a β-plane. **93f:76045**

Mulone, G. On the stability of a rotating fluid with Prandtl numbers less than 1. (Italian summary) **93h:76031**

Net, M. *see* **Goldstein, H. F.; et al.**

Netreba, S. N. Three-dimensional structures of convective flows in stratified rotating media. (Russian. Russian summary) **93k:76023**

Nycander, J. Existence criteria and velocity of stationary vortices in plasmas and in shallow water on a rotating planet. (*see* **93b:00013**)

O'Brien, Enda Optimal growth rates in the quasigeostrophic initial value problem. (English summary) **93e:76030**

Orazov, M. B. *see* **Garadzhaev, A., 93f:76082**

Orenga, Pierre Construction d'une base spéciale pour la résolution de quelques problèmes d'océanographie physique en dimension deux. (English summary) [Construction of a special basis for the solution of some two-dimensional problems in physical oceanography] **93d:86003**

Parada, Raúl Felipe On a work of S. L. Sobolev concerning the stability of mechanical systems. (Spanish. English and Spanish summaries) **93j:76031**

Pascal, H. Similarity solutions to some unsteady flows of non-Newtonian fluids of power law behavior. (English summary) **93f:76003**

Petunin, I. M. *see* **Maslennikova, V. N., 93j:76055**

Pironneau, Olivier (*with* Liou, Jianntyng; Tezduyar, T. E.) Characteristic-Galerkin and Galerkin/least-squares space-time formulations for the advection-diffusion equations with time-dependent domains. (English summary) **93j:65150**

Ponomarev, V. M. *see* **Gledzer, E. B., 93e:76024**

Pullin, D. I. Contour dynamics methods. **93e:76060**

Read, P. L. (*with* Bell, M. J.; Johnson, D. W.; Small, R. M.) Quasi-periodic and chaotic flow regimes in a thermally driven, rotating fluid annulus. **93c:76047**

Riahi, D. N. Weakly nonlinear oscillatory convection in a rotating fluid. (English summary) **93e:76026**

Ripa, P. Instability of a solid-body rotating vortex in a two-layer model. (English summary) **93k:76057**

— Comments on a paper by H. Sakuma and M. Ghil: "Stability of stationary barotropic modons by Lyapunov's direct method" [J. Fluid Mech. **211** (1990), 393–416; MR 91b:76063]. **93c:76036**

Roberts, Paul H. (*with* Soward, A. M.) Dynamo theory. **93c:76086**

Rodríguez Ricard, Mariano A nonlinear model of atmospheric currents. (Spanish. English and Spanish summaries) **93h:86003**

Rybakov, S. O. *see* **Glushko, A. V., 93d:35114** *and* **(93d:35002)**

(Sakuma, H.) *see* **Ripa, P., 93c:76036**

Sheina, E. A. Numerical investigation of the stability of drift waves. (Russian) **93e:86001**

— *see also* **Smirnov, A. P., (93f:00006)**

Shukhman, I. G. Nonlinear evolution of spiral density waves generated by the instability of the shear layer in a rotating compressible fluid. **93b:76039**

— *see also* **Churilov, S. M., 93g:76060**

Small, R. M. *see* **Read, P. L.; et al., 93c:76047**

Smirnov, A. P. (*with* Sheina, E. A.) Local and global solutions of shallow water equations. (Russian. Russian summary) (*see* **93f:00006**)
Soward, A. M. *see* **Roberts, Paul H., 93c:76086**
Strobel, Darrell F. *see* **Zhu, Xun, 93h:76034**
Temam, Roger *see* **Lions, Jacques-Louis; et al., 93e:35088**
Tezduyar, T. E. *see* **Pironneau, Olivier; et al., 93j:65150**
Toro, E. F. Riemann problems and the WAF method for solving the two-dimensional shallow water equations. **93a:76079**
Troitskaya, S. D. The spectrum of a problem of S. L. Sobolev. (Russian) **93m:35155**
Villaggio, Piero The equilibrium shapes of earth masses. (English summary) **93g:73100**
Wang, Shou Hong *see* **Lions, Jacques-Louis; et al., 93e:35088**
Wang, Xi Yong *see* **Mu, Mu, 93f:76045**
Wilson, S. K. The effect of a uniform axial magnetic field on the capillary instability of a rigidly rotating fluid column. (English summary) **93h:76036**
Yang, Hui Jun Wave packets, bifurcations, and chaos. (English summary) **93m:35026**
Young, W. R. *see* **Cessi, Paola, 93f:76089**
Zeitlin, V. Yu. Vorticity and waves: geometry of phase-space and the problem of normal variables. **93c:76015**
Zhang, Keke Spiralling columnar convection in rapidly rotating spherical fluid shells. **93a:76044**
Zhevandrov, P. N. Edge waves on a gently sloping beach: uniform asymptotics. **93a:76016**
Zhong, Fang (*with* Ecke, Robert E.) Pattern dynamics and heat transport in rotating Rayleigh-Bénard convection. **93a:76093**
Zhu, Xun (*with* Strobel, Darrell F.) Nonlinear saturation of baroclinic instability in two-layer models. (English summary) **93h:76034**

76V05 Stratified and reacting fluids

Allakhverdiev, Kh. B. (*with* Pletner, Yu. D.; Sveshnikov, A. G.) On the oscillations of a vertical column of a stratified fluid with a free surface. (Russian. Russian summary) **93j:76063**
Baikusheva, Kristina Al. On the theory of acoustic-gravitational waves in a stratified ocean. (Russian. English and Russian summaries)
Cox, Edward A. *see* **Kluwick, A., 93i:76096**
Dobrokhotov, S. Yu. (*with* Shafarevich, A. I.) Short-wave asymptotics in a linearized system of equations of hydrodynamics with rapidly oscillating coefficients. (Russian) (*see* **93m:35033**)
Gorodtsov, V. A. Collapse of asymmetric perturbations in a stratified fluid. (Russian) **93b:76087**
— A ball in an ideal uniformly stratified medium. (Russian. Russian summary) **93i:76095**
— High-velocity asymptotics of the drag of bodies in a waveguide layer of inhomogeneous fluids. (Russian. Russian summary) **93g:76110**
Grekova, T. V. Characteristic properties of equations in the theory of long waves in a stratified fluid. (Russian. Russian summary) **93d:76072**
Grimshaw, R. H. J. Wave interactions in stratified fluids. **93a:76106**
Kharik, V. M. Generation of internal waves in a rotating, stratified fluid: some symmetry properties. (English summary) **93j:76064**
Kluwick, A. (*with* Cox, Edward A.) Propagation of weakly nonlinear waves in stratified media having mixed nonlinearity. (English summary) **93i:76096**
Korobkin, A. A. Motion of a body in anisotropic fluid. (English, Russian and Polish summaries) **93f:76098**
— Propagation of internal waves in an exponentially stratified fluid over a shelf. (Russian) **93i:76097**
Pletner, Yu. D. *see* **Allakhverdiev, Kh. B.; et al., 93j:76063**
Shafarevich, A. I. *see* **Dobrokhotov, S. Yu., (93m:35033)**
Sveshnikov, A. G. *see* **Allakhverdiev, Kh. B.; et al., 93j:76063**
Turner, Robert E. L. *see* **Vanden-Broeck, Jean-Marc, 93f:76099**
Tverskoi, M. B. Stratified fluid flow around point obstacles. (Russian. Russian summary) **93j:76065**
Vanden-Broeck, Jean-Marc (*with* Turner, Robert E. L.) Long periodic internal waves. (English summary) **93f:76099**
Yakovlev, G. N. Problems related to the flow of a layer of stratified fluid over an uneven bottom. (Russian) (*see* **93m:00036**)

Items with secondary classifications in 76V05

Akylas, T. R. (*with* Grimshaw, R. H. J.) Solitary internal waves with oscillatory tails. (English summary) **93k:76025**
Avellaneda, Marco (*with* Majda, Andrew J.) Superdiffusion in nearly stratified flows. (English summary) **93j:82068**
Benney, D. J. *see* **Zhou, Yi Fan, 93b:76033**
Bona, Jerry L. (*with* Ponce, Gustavo; Saut, Jean-Claude; Tom, Michael M.) A model system for strong interaction between internal solitary waves. **93e:35086**
Camassa, Roberto (*with* Holm, Darryl D.) Dispersive barotropic equations for stratified mesoscale ocean dynamics. (English summary) **93j:76061**
Chalot, Frédéric L. (*with* Hughes, Thomas J. R.) Analysis of hypersonic flows in thermo-chemical equilibrium by application of the Galerkin/least-squares formulation. (*see* **93b:00026**)
Cox, Stephen M. (*with* Leibovich, Sidney; Moroz, Irene M.; Tandon, Amit) Nonlinear dynamics in Langmuir circulations with O(2) symmetry. (English summary) **93h:76032**
— (*with* Leibovich, Sidney; Moroz, Irene M.; Tandon, Amit) Hopf bifurcations in Langmuir circulations. (English summary) **93k:76045**
Crighton, D. G. (*with* Lee-Bapty, I. P.) Spherical nonlinear wave propagation in a dissipative stratified atmosphere. **93i:76079**
De Bièvre, Stephan (*with* Pravica, D. W.) Spectral analysis for optical fibres and stratified fluids. II. Absence of eigenvalues. **93c:35114**
Debnath, Lokenath The Hilbert transform and its applications to fluid dynamics. **93h:76059**
Demidenko, G. V. The Cauchy problem for a hyperbolic system of the dynamics of a stratified fluid. (Russian. Russian summary) (*see* **93d:35002**)
Dixon, A. E. The stability and evolution of interfacial waves. (English summary) **93i:76041**
Fabrikant, A. L. Resonant vortex-wave interaction. (English summary) (*see* **93g:76004**)
Giniatullin, A. I. *see* **Maslennikova, V. N., 93c:76026**
Gledzer, E. B. (*with* Ponomarev, V. M.) Instability of bounded flows with elliptical streamlines. (English summary) **93e:76024**
Glushko, A. V. (*with* Rybakov, S. O.) Asymptotic behavior with respect to time of the solution of an initial-boundary value problem in a half-space for equations of the dynamics of a rotating viscous compressible fluid. (Russian. Russian summary) **93i:35022**
— The asymptotic behavior as $t \to \infty$ of the solution of the problem of the collapse of an intrusion spot in a viscous stratified fluid. (Russian. Russian summary) **93k:35042**
Goncharov, A. M. (*with* Kud'yavin, V. S.) Generation of nonlinear internal waves under mixed region collapse in a stratified fluid. (Russian. Russian summary) (*see* **93m:00019**)
Grimshaw, R. H. J. *see* **Akylas, T. R., 93k:76025**
Hackl, Klaus A normal mode expansion for a unified ocean-bottom system. (English summary) (*see* **93j:76002**)
van Heijst, G. J. F. *see* **Hopfinger, E. J., 93k:76119**
Hills, R. N. (*with* Roberts, Paul H.) On the motion of a fluid that is incompressible in a generalized sense and its relationship to the Boussinesq approximation. **93a:76001**
Holm, Darryl D. *see* **Camassa, Roberto, 93j:76061**
Hopfinger, E. J. (*with* van Heijst, G. J. F.) Vortices in rotating fluids. **93k:76119**
Hughes, Thomas J. R. *see* **Chalot, Frédéric L., (93b:00026)**
Joseph, Daniel D. (*with* Liao, T. Y. J.; Saut, Jean-Claude) Kelvin-Helmholtz mechanism for side branching in the displacement of light with heavy fluid under gravity. **93c:76032**
Kel'bert, M. Ya. (*with* Sazonov, I. A.) ★ Распространение импульсов в жидкостях. (Russian. English and Russian summaries) [Pulse propagation in fluids] **93m:76028**
Ku, Hwar-Ching A submerged body moving in a stratified medium via domain decomposition technique. (English summary) (*see* **93g:65009**)
Kud'yavin, V. S. *see* **Goncharov, A. M., (93m:00019)**
Lamb, Kevin G. (*with* Pierrehumbert, Raymond T.) Steady-state nonlinear internal gravity-wave critical layers satisfying an upper radiation condition. **93b:76021**
Lee-Bapty, I. P. *see* **Crighton, D. G., 93i:76079**
Leibovich, Sidney *see* **Cox, Stephen M.; et al., 93h:76032** *and* **93k:76045**
Liao, T. Y. J. *see* **Joseph, Daniel D.; et al., 93c:76032**
Majda, Andrew J. *see* **Avellaneda, Marco, 93j:82068**
Maslennikova, V. N. (*with* Giniatullin, A. I.) On the intrusion problem in a viscous stratified fluid for three space variables. (Russian) **93c:76026**
Miloh, Touvia On the plane-wave interfacial soliton in a two-layer fluid model of finite depth. **93b:76015**
Mindlin, I. M. A new method in nonlinear problems of waves in a heavy stratified liquid excited by a vertically moving body. (Russian) **93b:76022**
Moroz, Irene M. *see* **Cox, Stephen M.; et al., 93h:76032** *and* **93k:76045**
Netreba, S. N. Three-dimensional structures of convective flows in stratified rotating media. (Russian. Russian summary) **93k:76023**
Pierrehumbert, Raymond T. *see* **Lamb, Kevin G., 93b:76021**
Ponce, Gustavo *see* **Bona, Jerry L.; et al., 93e:35086**
Ponomarev, V. M. *see* **Gledzer, E. B., 93e:76024**
Pravica, D. W. *see* **De Bièvre, Stephan, 93c:35114**
Riedel, K. S. Quasilinear driven transport in a sheared flow field. **93e:76040**
Roberts, Paul H. *see* **Hills, R. N., 93a:76001**
Robins, Alvin J. Exact solutions of the Helmholtz equation for plane wave propagation in a medium with variable density and sound speed. (English summary) **93k:76102**
Rybakov, S. O. *see* **Glushko, A. V., 93i:35022**
Saut, Jean-Claude *see* **Joseph, Daniel D.; et al., 93c:76032** *and* **Bona, Jerry L.; et al., 93e:35086**
Sazonov, I. A. *see* **Kel'bert, M. Ya., 93m:76028**
Shapiro, Alan A hydrodynamical model of shear flow over semi-infinite barriers with application to density currents. (English summary)
Shen, Mei Chang (*with* Sun, S. M.) Generalized solitary waves in a stratified fluid. (*see* **93i:00016**)
Sun, S. M. *see* **Shen, Mei Chang, (93i:00016)**
Tandon, Amit *see* **Cox, Stephen M.; et al., 93h:76032** *and* **93k:76045**
Tom, Michael M. *see* **Bona, Jerry L.; et al., 93e:35086**
Velarde, Manuel G. *see* **Weidman, P. D., 93f:35209**
Weidman, P. D. (*with* Velarde, Manuel G.) Internal solitary waves. **93f:35209**
Zhang, Keke On equatorially trapped boundary inertial waves. (English summary) **93k:76121**
Zhou, Yi Fan (*with* Benney, D. J.) Instability of three-dimensional waves in two-layered flows. **93b:76033**
Zhu, Yong Head-on collision between two mKdV solitary waves in a two-layer fluid system. (Chinese. English and Chinese summaries) **93g:76026**
— Nonlinear interfacial capillary-gravity waves in shear flow. **93d:76011**

76W05 Magnetohydrodynamics and electrohydrodynamics

Alicki, Robert Dirac equations for MHD waves: Hamiltonian spectra and supersymmetry. (English summary) **93i:76098**
Andersson, H. I. MHD flow of a viscoelastic fluid past a stretching surface. (English summary)
Banerjee, Mihir B. (*with* Bhowmik, S. K.) Salvaging the Thompson-Chandrasekhar criterion: a tribute to S. Chandrasekhar. **93d:76073**
Bayly, Bruce *see* **Gilbert, Andrew D., 93f:76101**
Bernardin, D. *see* **Séro-Guillaume, O. E.; et al., 93h:76080**
Bhowmik, S. K. *see* **Banerjee, Mihir B., 93d:76073**
Blank, Albert A. (*with* Kress, Michael E.) Connections between adiabatic and low-resistivity magnetohydrodynamics. (English summary) **93f:76100**
Blokhin, A. M. (*with* Druzhinin, I. Yu.) On the stability of a fast magnetohydrodynamic shock wave for a weak magnetic field. (Russian) **93j:76066**

Blum, Jacques (*with* Saramito, B.) Equilibrium, transport, and stability of a plasma in a tokamak. (*see* **93e:76050**)
Bourgeois, J. (*with* Chevalier, P.-A.; Picasso, M.; Rappaz, J.; Touzani, R.) Magnetohydrodynamic problem in the aluminum industry. (*see* **93e:76050**)
Brancher, J.-P. *see* **Séro-Guillaume, O. E.; et al., 93h:76080**
Britov, N. A. (*with* Prokhorov, I. G.) Investigation of the qualitative properties of three-component two-dimensional flows of a liquid metal in a magnetic field on the Navier-Stokes-Maxwell model. (Russian) **93c:76083**
Chandna, O. P. (*with* Labropulu, F.) Riabouchinsky flows in magnetohydrodynamics. **93i:76099**
— (*with* Nguyen, P. V.) Steady plane orthogonal MHD flows. (English, German and Russian summaries) **93k:76122**
— *see also* **Nguyen, P. V., 93i:76101**
Chevalier, P.-A. *see* **Bourgeois, J.; et al., (93e:76050)**
Descloux, J. Stability of the solutions of the bidimensional magnetic shaping problem in absence of surface tension. **93g:76111**
Drozdov, V. V. *see* **Galkin, S. A.; et al., 93c:76084**
Druzhinin, I. Yu. Formulation of problems on the stability of shock waves in magnetohydrodynamics. (Russian. Russian summary) **93d:76074**
— Formulations of problems on the stability of discontinuities in magnetohydrodynamics. (Russian) **93j:76067**
— *see also* **Blokhin, A. M., 93j:76066**
Eydeland, Alexander *see* **Turkington, Bruce; et al., 93m:76075**
Faizullina, N. T. Well-posedness of a boundary value problem of electrogasdynamics for a model of a viscous heat-conducting gas. (Russian. Russian summary) **93d:76075**
Ferriz-Mas, A. (*with* Moreno-Insertis, F.) Shock wave propagation in a magnetic flux tube. (English summary) **93h:76077**
Filippova, O. L. Stability of plane MHD shock waves in an ideal gas. (Russian) **93d:76076**
Galkin, S. A. (*with* Drozdov, V. V.; Martynov, A. A.) A variational approach to constructing of approximate models for MHD equilibrium and stability. **93c:76084**
Gebhardt, Ute (*with* Kiessling, Michael K.-H.) The structure of ideal magnetohydrodynamics with incompressible steady flow. **93a:76107**
Gilbert, Andrew D. (*with* Bayly, Bruce) Magnetic field intermittency and fast dynamo action in random helical flows. (English summary) **93f:76101**
Habbal, S. R. *see* **Hu, You Qiu, 93k:76123**
Hamabata, Hiromitsu Nonlinear hydromagnetic waves in a thermally stratified cylindrical fluid. I. Exact translationally and axially symmetric solutions. (English summary) **93g:76112**
Hesaaraki, Mahmud The structure of MFD shock waves in a model of two fluids. (English summary) **93m:76073**
Hu, You Qiu (*with* Habbal, S. R.) Interaction between perpendicular magnetohydrodynamic shocks. (English summary) **93k:76123**
Kaloni, P. N. Some remarks on the boundary conditions for magnetic fluids. (English summary) **93g:76113**
Karpman, V. I. (*with* Kaufman, R. N.; Shagalov, A. G.) Self-focusing of whistler waves. (English summary) **93f:76102**
Kaufman, R. N. *see* **Karpman, V. I.; et al., 93f:76102**
Kiessling, Michael K.-H. *see* **Gebhardt, Ute, 93a:76107**
Klapper, I. A study of fast dynamo action in chaotic helical cells. **93c:76085**
Kolesnichenko, V. I. *see* **Kolpakov, N. Yu., 93g:76114**
Kolpakov, N. Yu. (*with* Kolesnichenko, V. I.) The influence of a meridional electrovortical flow on the azimuthal rotation of a liquid. (Russian. Russian summary) **93g:76114**
Korsunskii, S. V. *see* **Selezov, I. T., (93b:00012)**
Kozorez, V. V. (*with* Krashanitsa, Yu. A.; Rashkovan, V. M.) ★ Законы сохранения и граничные задачи управления в магнитном поле. (Russian. Russian summary) [Conservation laws and boundary control problems in a magnetic field] **93m:76074**
Krashanitsa, Yu. A. *see* **Kozorez, V. V.; et al., 93m:76074**
Kress, Michael E. *see* **Blank, Albert A., 93f:76100**
Labropulu, F. *see* **Chandna, O. P., 93i:76099**
Lifschitz, Alexander E. *see* **Turkington, Bruce; et al., 93m:76075**
Linardatos, D. Determination of two-dimensional magnetostatic equilibria and analogous Euler flows. (English summary) **93i:76100**
Lo Surdo, C. Uniqueness theorems in ideal magnetofluid dynamics. **93a:76108**
Lupu, Mircea Obtaining and studying Beltrami type equations for axially symmetric jets in magnetogasdynamics (MGD). **93e:76068**
Martynov, A. A. *see* **Galkin, S. A.; et al., 93c:76084**
Martynov, O. M. A one-dimensional problem of MHD equilibrium. (Russian) (*see* **93m:00035**)
Matthaeus, W. H. *see* **Zank, G. P., 93k:76127**
Maugin, Gérard A. Thermomechanical equations of magnetic fluids. (English summary) **93h:76078**
Moreno-Insertis, F. *see* **Ferriz-Mas, A., 93h:76077**
Nefedov, V. V. (*with* Popov, A. M.) Investigation of the solution of nonlinear three-dimensional equations of magnetohydrodynamics by the method of projection onto an unstable manifold. (Russian. Russian summary) (*see* **93f:00006**)
Nguyen, P. V. (*with* Chandna, O. P.) Hamel's problem for steady plane orthogonal MHD flows. (English summary) **93i:76101**
— *see also* **Chandna, O. P., 93k:76122**
Núñez Jiménez, Manuel (*with* Rojo García, Jesús) A WKB analysis of the Alfvén spectrum of the linearized magnetohydrodynamics equations. (English summary) **93k:76124**
Omel'yanov, G. A. Generation of high-frequency waves in weakly nonlinear media with small dispersion. Equations of magnetohydrodynamics. (Russian) (*see* **93m:35033**)
Patudin, V. M. (*with* Sagalakov, A. M.; Yudintsev, A. Yu.) Three-dimensional secondary plane-parallel magnetohydrodynamic flow regimes in a longitudinal magnetic field. (Russian) **93h:76079**
Picasso, M. *see* **Bourgeois, J.; et al., (93e:76050)**
Popov, A. M. *see* **Nefedov, V. V., (93f:00006)**
Prokhorov, I. G. *see* **Britov, N. A., 93c:76083**
Rappaz, J. (*with* Touzani, R.) On a two-dimensional magnetohydrodynamic problem. I. Modelling and analysis. (French summary) **93e:76069**
— *see also* **Bourgeois, J.; et al., (93e:76050)**
Rashkovan, V. M. *see* **Kozorez, V. V.; et al., 93m:76074**
Roberts, Paul H. (*with* Soward, A. M.) Dynamo theory. **93c:76086**
Rojo García, Jesús *see* **Núñez Jiménez, Manuel, 93k:76124**
Rucklidge, A. M. Chaos in a low-order model of magnetoconvection. (English summary) **93k:76125**
Ruzmaikin, A. A. *see* **Sokolov, D. D.; et al., 93h:76081**
Sagalakov, A. M. *see* **Patudin, V. M.; et al., 93h:76079**
Saramito, B. *see* **Blum, Jacques, (93e:76050)**
Selezov, I. T. (*with* Korsunskii, S. V.) Nonlinear evolution equations and solitons in the theory of magnetohydrodynamic surface waves. (*see* **93b:00012**)
Séro-Guillaume, O. E. (*with* Zouaoui, D.; Bernardin, D.; Brancher, J.-P.) The shape of a magnetic liquid drop. (English summary) **93h:76080**
Shagalov, A. G. *see* **Karpman, V. I.; et al., 93f:76102**
Shivamoggi, Bhimsen K. Ideal and resistive magnetohydrodynamic modes. (English summary) **93j:76068**
Shukurov, A. M. *see* **Sokolov, D. D.; et al., 93h:76081**
Sokolov, D. D. (*with* Shukurov, A. M.; Ruzmaikin, A. A.) Magnetic structures, intermittency and highly supercritical dynamos. (English summary) **93h:76081**
Soward, A. M. *see* **Roberts, Paul H., 93c:76086**
Spruck, Joel *see* **Turkington, Bruce; et al., 93m:76075**
Ströhmer, Gerhard About an initial-boundary value problem from magnetohydrodynamics. **93k:76126**
Strumía, Alberto Wave propagation in relativistic extended thermodynamics of a charged fluid. (English summary) **93g:76115**
Touzani, R. *see* **Rappaz, J., 93e:76069** *and* **Bourgeois, J.; et al., (93e:76050)**
Tsebers, A. O. Effects of deterministic chaos on the forced oscillations of a magnetic liquid drop. (Russian)
Turkington, Bruce (*with* Lifschitz, Alexander E.; Eydeland, Alexander; Spruck, Joel) Multiconstrained variational problems in magnetohydrodynamics: equilibrium and slow evolution. (English summary) **93m:76075**
Wahlberg, Christer Nonlinear kink mode dynamics in circular and noncircular pinches. **93c:76087**
Yudintsev, A. Yu. *see* **Patudin, V. M.; et al., 93h:76079**
Zank, G. P. (*with* Matthaeus, W. H.) Nearly incompressible fluids. II. Magnetohydrodynamics, turbulence, and waves. (English summary) **93k:76127**
Zouaoui, D. *see* **Séro-Guillaume, O. E.; et al., 93h:76080**
Zubarev, A. Yu. Spinodal decay in magnetic fluids. (Russian) **93a:76109**

Items with secondary classifications in 76W05

Antimirov, Yu. M. Effective representation of an inverse linear differential operator by a complex integral and its applications. (Russian. English, Italian and Russian summaries) **93h:35037**
Barts, B. I. (*with* Moiseev, S. S.) The wave-turbulent dynamo. (Russian) (*see* **92d:00031**)
Bartuzel, Grzegorz Regularity of generalized solutions of nonsmooth adjoint problem to a parabolic problem. **93m:35042**
Bayly, Bruce Complexity in fluids. (English summary) **93m:76045**
Berger, Mitchell A. Energy-crossing number relations for braided magnetic fields. (English summary) **93i:85003**
Blokhin, A. M. (*with* Krymskikh, D. A.) Symmetrization of equations of magnetohydrodynamics with anisotropic pressure. (Russian. Russian summary) (*see* **93d:35002**)
Brancher, J.-P. *see* **Séro-Guillaume, O. E., 93b:76006**
Bray, Marcel Polytropes en magnetohydrodynamique. (English summary) [Polytropes in magnetohydrodynamics] **93d:85004**
Brizard, Alain J. (*with* Cook, Daniel R.; Kaufman, Allan N.) Wave-action conservation for pseudo-Hermitian fields. (English summary) **93m:82046**
Budnik, A. M. (*with* Polevikov, V. K.) Modeling of a free surface of annular magnetofluid seals by means of the boundary element method. (Russian. Russian summary) **93i:76057**
Camargo, S. J. (*with* Tasso, H.) Renormalization group in magnetohydrodynamic turbulence. **93b:76047**
Chen, Xiao Liang (*with* Morrison, P. J.) Nonlinear interactions of tearing modes in the presence of shear flow. **93c:76038**
Čiegis, Raimondas (*with* Čiupaila, Regimantas J.) The conditional minimization method for the numerical solution of a nonstationary problem with free boundaries. (Russian. English and Lithuanian summaries) **93b:65089**
Čiupaila, Regimantas J. *see* **Čiegis, Raimondas, 93b:65089**
Cook, Daniel R. *see* **Brizard, Alain J.; et al., 93m:82046**
Dahlburg, R. B. (*with* Picone, J. M.) Pseudospectral simulation of compressible magnetohydrodynamic turbulence. (English summary) (*see* **93d:65005**)
Devdariani, M. T. *see* **Goncharov, A. L.; et al., 93b:76024**
Egorushkin, S. A. (*with* Kulikovskii, A. G.) Stability of solutions of some boundary value problems for hyperbolic equations. (Russian) **93g:35089**
Elhefnawy, Abdel Raouf F. The Rayleigh-Taylor instability in magnetic fluids and nonlinear interfacial waves. (English and French summaries) **93h:76035**
— Nonlinear Rayleigh-Taylor instability in magnetic fluids between two parallel plates. (English summary) **93e:76031**
— Nonlinear electrohydrodynamic Kelvin-Helmholtz instability under the influence of an oblique electric field. **93b:76036**
Feireisl, Eduard A priori estimates for the stationary equations of electrohydrodynamics. (Italian summary) **93k:35211**
Fryazinov, I. V. *see* **Goncharov, A. L.; et al., 93b:76024**
Galanti, B. (*with* Sulem, Pierre-Louis) Large-scale instabilities and inverse cascades in ordinary and MHD flows at low Reynolds numbers. (English summary) (*see* **93d:00036**)
Geörg, Stefan Typical numerical problems arising with the treatment of ill conditioned partial differential equations by the example of the MHD-equations. (English summary) (*see* **93i:65006**)
Glassey, Robert Approximate solutions to the Zakharov equations via finite differences. **93a:76071**
Goncharov, A. L. (*with* Devdariani, M. T.; Prostomolotov, A. I.; Fryazinov, I. V.) Approximation and a numerical method for the solution of three-dimensional Navier-Stokes

equations on orthogonal grids. (Russian. English summary) **93b:76024**

Hamilton, R. L. (*with* Kennel, C. F.; Mjølhus, E.) Stability and bifurcation of quasiparallel Alfvén solitons. (English summary) **93j:35149**

— (*with* Kennel, C. F.; Mjølhus, E.) Formation of quasiparallel Alfvén solitons. (English summary) **93j:35150**

Kalinina, A. V. *see* **Rabinovich, B. I.; et al., 93m:85006**

Kaufman, Allan N. *see* **Brizard, Alain J.; et al., 93m:82046**

Kennel, C. F. *see* **Hamilton, R. L.; et al., 93j:35149** *and* **93j:35150**

Kravtsov, O. V. Lagrangian invariants in the equilibrium conditions of an ideal rotating fluid. **93f:76097**

Krokhin, O. N. (*with* Tsybenko, S. P.) The structure of plane nonlinear waves in conservative systems of plasma electrodynamics and hydrodynamics. (Russian. Russian summary) **93k:76128**

Krymskikh, D. A. *see* **Blokhin, A. M., (93d:35002)**

Kulikovskii, A. G. *see* **Egorushkin, S. A., 93g:35089**

Leach, P. G. L. (*with* Maharaj, S. D.) A first integral for a class of time-dependent anharmonic oscillators with multiple anharmonicities. **93d:34066**

Lebedev, V. G. *see* **Rabinovich, B. I.; et al., 93m:85006**

Loktionova, N. Yu. (*with* Ryazanov, M. A.) A difference scheme on arbitrary moving grids for equations of magnetohydrodynamics with an azimuthal field. (Russian. Russian summary) (*see* **93f:00006**)

Maharaj, S. D. *see* **Leach, P. G. L., 93d:34066**

Malik, S. K. (*with* Singh, Manohar) An explosive instability in magnetic fluids. (English summary) **93i:76040**

Marsh, Gerald E. Magnetic energy, multiply connected domains, and force-free fields. (English summary) **93g:78008**

Maslov, V. P. Incorrectness and regularization of equations of hydrodynamics and magnetohydrodynamics without dissipation and turbulence. **93e:76062**

— (*with* Omel'yanov, G. A.) On equations of Kadomtsev-Pogutse type for a tokamak and domains of arbitrary symmetry. (Russian) **93k:35217**

Mjølhus, E. *see* **Hamilton, R. L.; et al., 93j:35149** *and* **93j:35150**

Moffatt, H. Keith (*with* Tsinober, A.) Helicity in laminar and turbulent flow. **93b:76018**

Moiseev, S. S. *see* **Barts, B. I., (92d:00031)**

Morrison, P. J. *see* **Chen, Xiao Liang, 93c:76038**

Nakamura, Masa Aki On the magnetic Bénard problem. II. (English summary) **93k:35220**

Omel'yanov, G. A. *see* **Maslov, V. P., 93k:35217**

Paris, R. B. (*with* Wood, Alastair D.) Asymptotic-assisted numerics for spectral perturbation in MHD instability. (English summary) (*see* **93m:65006**)

Picone, J. M. *see* **Dahlburg, R. B., (93d:65005)**

Polevikov, V. K. *see* **Budnik, A. M., 93i:76057**

Prostomolotov, A. I. *see* **Goncharov, A. L.; et al., 93b:76024**

Rabinovich, B. I. (*with* Lebedev, V. G.; Kalinina, A. V.) Magnetohydrodynamics of a rotating magnetized plasma ring. (Russian) **93m:85006**

Restuccia, Liliana (*with* Turrisi, Enrico) On the total energy flux in reacting fluid mixtures in which dielectric and magnetic relaxation phenomena occur. (Italian summary) **93b:80010**

Ryazanov, M. A. *see* **Loktionova, N. Yu., (93f:00006)**

Sagalakov, A. M. (*with* Yudintsev, A. Yu.) Stability of three-dimensional self-oscillations in plane-parallel flows of an electricity-conducting fluid in a longitudinal magnetic field. (Russian)

— (*with* Yudintsev, A. Yu.) Three-dimensional perturbations for magnetohydrodynamic flows in a circular channel. (Russian)

Samokhin, V. N. Existence of a solution of a modification of a system of equations of magnetohydrodynamics. (Russian) **93a:35151**

— Stationary problems of the magnetohydrodynamics of non-Newtonian media. (Russian. Russian summary) **93g:35116**

— A problem with an unknown boundary in the hydrodynamics of electrically conducting media. (Russian)

Séro-Guillaume, O. E. (*with* Brancher, J.-P.) Hamiltonian formulation for shaping problems. **93b:76006**

Singh, Manohar *see* **Malik, S. K., 93i:76040**

Sinitsyn, V. Yu. Some methods for reducing Navier-Stokes equations and equations of magnetohydrodynamics. (Russian. Russian summary) (*see* **93m:00032**)

Straughan, Brian Stability problems in electrohydrodynamics, ferrohydrodynamics and thermoelectric magnetohydrodynamics. **93m:76038**

Sulem, Pierre-Louis *see* **Galanti, B., (93d:00036)**

Tasso, H. *see* **Camargo, S. J., 93b:76047**

Thess, André Instabilities in two-dimensional spatially periodic flows. I. Kolmogorov flow. **93d:76027**

Tsinober, A. *see* **Moffatt, H. Keith, 93b:76018**

Tsybenko, S. P. *see* **Krokhin, O. N., 93k:76128**

Turrisi, Enrico *see* **Restuccia, Liliana, 93b:80010**

Winnewisser, G. *see* **Yue, Zeng Yuan, 93f:76046**

Wood, Alastair D. *see* **Paris, R. B., (93m:65006)**

Yudintsev, A. Yu. *see* **Sagalakov, A. M.**

Yue, Zeng Yuan (*with* Winnewisser, G.) On the temporal and the spatial Kelvin-Helmholtz instability of a hypersonic jet confined by a longitudinal magnetic field. (English summary) **93f:76046**

Zimmermann, Walter On travelling waves in electrohydrodynamic convection in nematics. **93g:76013**

Zinchenko, B. G. Asymptotic properties of the local problem of a disk dynamo. (Russian) **93e:85003**

76X05 Ionized gas flow in electromagnetic fields; plasmic flow

Artykov, G. (*with* Orazov, M. B.) Ion-acoustic waves in a nonmagnetized plasma. (Russian) **93a:76110**

Berk, H. L. (*with* Breizman, B. N.; Ye, Huanchun) Map model for nonlinear alpha particle interaction with toroidal Alfvén waves. (English summary)

Bers, A. *see* **Friedland, Lazar, 93b:76088**

Breizman, B. N. *see* **Berk, H. L.; et al.**

Chechkin, A. V. *see* **Tur, A. V.; et al., 93i:76103**

Cheng, C. Z. *see* **Sigmar, D. J.; et al., 93d:76078**

Choi, D.-I. *see* **Isichenko, M. B.; et al., 93h:76082**

Davidson, Ronald C. *see* **Lund, Steven M.**

Eickermann, Th. *see* **Spatschek, K. H.; et al., 93i:76102**

Friedland, Lazar (*with* Bers, A.) Hermitian description of interacting inhomogeneous electron beams. **93b:76088**

Heo, E. G. *see* **Isichenko, M. B.; et al., 93h:76082**

Horton, Claude Wendell, Jr. *see* **Kono, M., 93b:76089** *and* **Isichenko, M. B.; et al., 93h:76082**

Hsu, C. T. (*with* Sigmar, D. J.) Alpha-particle losses from toroidicity-induced Alfvén eigenmodes. I. Phase-space topology of energetic particle orbits in tokamak plasma. **93d:76077**

— *see also* **Sigmar, D. J.; et al., 93d:76078**

Isichenko, M. B. (*with* Horton, Claude Wendell, Jr.; Kim, D. E.; Heo, E. G.; Choi, D.-I.) Stochastic diffusion and Kolmogorov entropy in regular and random Hamiltonians. (English summary) **93h:76082**

Kim, D. E. *see* **Isichenko, M. B.; et al., 93h:76082**

Kono, M. (*with* Horton, Claude Wendell, Jr.) Point vortex description of drift wave vortices: dynamics and transport. **93b:76089**

Krokhin, O. N. (*with* Tsybenko, S. P.) The structure of plane nonlinear waves in conservative systems of plasma electrodynamics and hydrodynamics. (Russian. Russian summary) **93k:76128**

Latifi, A. Langmuir caviton: a universal soliton-like solution. (English summary) (*see* **93g:00028**)

Lichtenberg, Allan J. Arnol'd diffusion in a torus with time-varying fields. (English summary) **93g:76116**

Lund, Steven M. (*with* Davidson, Ronald C.) A class of coherent vortex structures in rotating nonneutral plasma. (English summary)

Naulin, V. *see* **Spatschek, K. H.; et al., 93i:76102**

Orazov, M. B. *see* **Artykov, G., 93a:76110**

Ozawa, Tohru (*with* Tsutsumi, Yoshio) The nonlinear Schrödinger limit and the initial layer of the Zakharov equations. **93d:76079**

Sigmar, D. J. (*with* Hsu, C. T.; White, Roscoe Beryl; Cheng, C. Z.) Alpha-particle losses from toroidicity-induced Alfvén eigenmodes. II. Monte Carlo simulations and anomalous alpha-loss processes. **93d:76078**

— *see also* **Hsu, C. T., 93d:76077**

Spatschek, K. H. (*with* Zhang, W.; Naulin, V.; Eickermann, Th.) Self-organization of nonlinear waves and vortices in driven and damped systems. (English summary) **93i:76102**

Tsutsumi, Yoshio *see* **Ozawa, Tohru, 93d:76079**

Tsybenko, S. P. *see* **Krokhin, O. N., 93k:76128**

Tur, A. V. (*with* Chechkin, A. V.; Yanovskii, V. V.) Negative viscosity and generation of dissipative solitons and zonal dissipative structures by drift waves. (English summary) **93i:76103**

White, Roscoe Beryl *see* **Sigmar, D. J.; et al., 93d:76078**

Yanovskii, V. V. *see* **Tur, A. V.; et al., 93i:76103**

Ye, Huanchun *see* **Berk, H. L.; et al.**

Zhang, W. *see* **Spatschek, K. H.; et al., 93i:76102**

Items with secondary classifications in 76X05

Aly, Jean-Jacques Some properties of a thermodynamic model for the equilibrium of a current-carrying quasineutral plasma. (English summary) **93k:82066**

Chernenko, I. V. *see* **Chernousenko, V. M.; et al., (93b:00012)**

Chernousenko, V. M. (*with* Kuklin, V. M.; Panchenko, I. P.) Structures in nonequilibrium media. (Russian) **93g:82061**

— (*with* Chernenko, I. V.; Chernyshenko, S. V.) Drift vortices in continuous media. (*see* **93b:00012**)

Chernyshenko, S. V. *see* **Chernousenko, V. M.; et al., (93b:00012)**

Claude, C. (*with* Latifi, A.; Leon, Jérôme Jp.) Nonlinear resonant scattering and plasma instability: an integrable model. **93g:35128**

Dancer, E. N. A note on uniqueness for the plasma problem. **93a:35148**

Deng, Keng Quenching for solutions of a plasma type equation. **93d:35077**

Doss, S. *see* **Hewett, D. W.; et al.**

Dyachenko, S. (*with* Newell, Alan C.; Pushkarev, A.; Zakharov, V. E.) Optical turbulence: weak turbulence, condensates and collapsing filaments in the nonlinear Schrödinger equation. **93c:76050**

Escande, D. F. Large scale structures in kinetic plasma turbulence. (English summary) (*see* **93d:00036**)

Eydeland, Alexander *see* **Turkington, Bruce; et al., 93m:76075**

Fabre, Sylvie Stability analysis of the Euler-Poisson equations. **93e:76052**

Faizullina, N. T. Well-posedness of a boundary value problem of electrogasdynamics for a model of a viscous heat-conducting gas. (Russian. Russian summary) **93d:76075**

Fokas, A. S. *see* **Santini, Paolo Maria, (93b:00012)**

Frosali, Giovanni (*with* van der Mee, Cornelis) Mathematical study of the runaway process in particle swarms. **93b:82053**

Glassey, Robert Approximate solutions to the Zakharov equations via finite differences. **93a:76071**

Hewett, D. W. (*with* Larson, D. J.; Doss, S.) Solution of simultaneous partial differential equations using dynamic ADI: solution of the streamlined Darwin field equations.

Kaper, Hans G. (*with* Kwong, Man Kam) A free boundary problem arising in plasma physics. **93c:34024**

Karlsson, Anders *see* **Kristensson, Gerhard; et al., (93e:00023)**

Karpman, V. I. (*with* Kaufman, R. N.; Shagalov, A. G.) Self-focusing of whistler waves. (English summary) **93f:76102**

Kaufman, R. N. *see* **Karpman, V. I.; et al., 93f:76102**

Kotschenreuther, M. *see* **Morrison, P. J., (93b:00013)**

Kristensson, Gerhard (*with* Karlsson, Anders; Otterheim, Henrik) Transient wave propagation in gyrotropic media. (English summary) (*see* **93e:00023**)
Kruse, Kai-Olaf (*with* Rein, Gerhard) A stability result for the relativistic Vlasov-Maxwell system. (English summary) **93j:82070**
Kuklin, V. M. *see* **Chernousenko, V. M.; et al., 93g:82061**
Kwong, Man Kam *see* **Kaper, Hans G., 93c:34024**
Larson, D. J. *see* **Hewett, D. W.; et al.**
Latifi, A. *see* **Claude, C.; et al., 93g:35128**
Leon, Jérôme Jp. *see* **Claude, C.; et al., 93g:35128**
Lesaint, P. (*with* Pousin, J.) Error estimates for a nonlinear degenerate parabolic problem. **93a:35094**
Lifschitz, Alexander E. *see* **Turkington, Bruce; et al., 93m:76075**
Lions, Pierre-Louis On kinetic equations. **93c:82051**
Malomed, B. A. (*with* Stenflo, Lennart) Modulational instability and soliton solutions of a generalized nonlinear Schrödinger equation. (English summary) **93k:35245**
Markov, S. I. (*with* Musher, S. L.; Stoyanov, P. S.; Turitsyn, S. K.) Numerical modeling of nonlinear toroidal vortices. (*see* **93b:00012**)
Martynov, O. M. A one-dimensional problem of MHD equilibrium. (Russian) (*see* **93m:00035**)
Mathur, Samir D. Onset of linear instability in homogeneous plasmas. (English summary) **93g:82096**
van der Mee, Cornelis *see* **Frosali, Giovanni, 93b:82053**
Meshkov, A. G. Non-Lie symmetries in hydrodynamics. (Russian) (*see* **93d:58002**)
Morrison, P. J. (*with* Kotschenreuther, M.) The free energy principle, negative energy modes, and stability. (*see* **93b:00013**)
— *see also* **Ye, Huanchun, 93b:82079**
Musher, S. L. *see* **Markov, S. I.; et al., (93b:00012)**
Newell, Alan C. *see* **Dyachenko, S.; et al., 93c:76050**
Nycander, J. Existence criteria and velocity of stationary vortices in plasmas and in shallow water on a rotating planet. (*see* **93b:00013**)
Otterheim, Henrik *see* **Kristensson, Gerhard; et al., (93e:00023)**
Panchenko, I. P. *see* **Chernousenko, V. M.; et al., 93g:82061**
Pfaffelmoser, K. Global classical solutions of the Vlasov-Poisson system in three dimensions for general initial data. **93d:35170**
Poupaud, Frédéric Boundary value problems for the stationary Vlasov-Maxwell system. (English summary) **93i:35144**
Pousin, J. *see* **Lesaint, P., 93a:35094**
Pushkarev, A. *see* **Dyachenko, S.; et al., 93c:76050**
Rein, Gerhard Existence of stationary, collisionless plasmas in bounded domains. **93d:82076**
— *see also* **Kruse, Kai-Olaf, 93j:82070**
Santini, Paolo Maria (*with* Fokas, A. S.) An initial-boundary value problem for the Davey-Stewartson 1 equation and coherent structures in multidimensions. (*see* **93b:00012**)
Shagalov, A. G. *see* **Karpman, V. I.; et al., 93f:76102**
Shipilin, A. V. (*with* Shlënskii, V. N.) An iterative method for the numerical solution of equations of a semiconductor plasma. (Russian. Russian summary) **93i:82088**
Shlënskii, V. N. *see* **Shipilin, A. V., 93i:82088**
Shvets, V. F. *see* **Swanson, D. G., 93j:34120**
Sitenko, A. G. (*with* Sosenko, P. P.) Nonlinear electromagnetic fluctuations in plasmas (renormalization concept). (*see* **93b:00013**)
— (*with* Sosenko, P. P.) Renormalized theory of low-frequency hydrodynamic fluctuations in plasmas. (*see* **93b:00013**)
Solov'eva, E. V. An investigation of the stability of the macroscopic particle method. (Russian) **93j:76047**
Sosenko, P. P. *see* **Sitenko, A. G., (93b:00013)** *and* **(93b:00013)**
Spruck, Joel *see* **Turkington, Bruce; et al., 93m:76075**
Stenflo, Lennart *see* **Malomed, B. A., 93k:35245**
Stoyanov, P. S. *see* **Markov, S. I.; et al., (93b:00012)**
Swanson, D. G. (*with* Shvets, V. F.) Transmission and reflection coefficients from the tunneling equation with absorption in the complex z plane. (English summary) **93j:34120**
Turitsyn, S. K. *see* **Markov, S. I.; et al., (93b:00012)**
Turkington, Bruce (*with* Lifschitz, Alexander E.; Eydeland, Alexander; Spruck, Joel) Multiconstrained variational problems in magnetohydrodynamics: equilibrium and slow evolution. (English summary) **93m:76075**
Wilhelmsson, Hans Evolution and self-formation in some nonlinear systems. **93e:35059**
Ye, Huanchun (*with* Morrison, P. J.) Action principles for the Vlasov equation. **93b:82079**
Zakharov, V. E. *see* **Dyachenko, S.; et al., 93c:76050**

76Y05 Quantum hydrodynamics and relativistic hydrodynamics [see also 83C55, 85A30]

Ekiel-Jeżewska, Maria L. (*with* Turski, L. A.) Relativistic hydrodynamics. **93e:76070**
Shugrin, S. M. Equations of dissipative Galilean and Lorentz hydrodynamics. (Russian. Russian summary) **93d:76080**
Strumía, Alberto Lagrangians and relativistic fluids. **93c:76088**
Turski, L. A. *see* **Ekiel-Jeżewska, Maria L., 93e:76070**

Items with secondary classifications in 76Y05

Anile, A. M. (*with* Pennisi, Sebastiano; Sammartino, Marco) Covariant radiation hydrodynamics. (French summary) **93a:85001**
Beig, R. (*with* Simon, Walter) On the spherical symmetry of static perfect fluids in general relativity. **93b:83037**
Carter, Brandon (*with* Khalatnikov, I. M.) Momentum, vorticity, and helicity in covariant superfluid dynamics. (English summary) **93m:83046**
Dinariev, O. Yu. The propagation of a signal in a relativistic fluid with viscosity and heat conduction. (Russian. Russian summary) **93i:83056**
Ichiyanagi, Masakazu Field-theoretic approach to hydrodynamics. I. The Clebsch transformation of the hydrodynamic equation. **93a:76002a**
— Field-theoretic approach to hydrodynamics. II. The superfluid hydrodynamics. **93a:76002b**
Katscher, U. *see* **Schneider, V.; et al., 93k:76091**
Khalatnikov, I. M. *see* **Carter, Brandon, 93m:83046**
Kravtsov, O. V. Lagrangian invariants in the equilibrium conditions of an ideal rotating fluid. **93f:76097**
Krisch, Jean P. *see* **Smalley, Larry L., 93f:83074**
Lindblom, Lee On the symmetries of equilibrium stellar models. (English summary) **93h:85002**
Maruhn, J. A. *see* **Schneider, V.; et al., 93k:76091**
Mishchenko, E. V. Well-posedness of a mixed problem for a linear system of equations of relativistic gas dynamics. (Russian) **93a:35149**
Munz, C.-D. *see* **Schneider, V.; et al., 93k:76091**
Pennisi, Sebastiano *see* **Anile, A. M.; et al., 93a:85001**
Rendall, A. D. The initial value problem for a class of general relativistic fluid bodies. **93b:83038**
Rischke, D. H. *see* **Schneider, V.; et al., 93k:76091**
Sammartino, Marco *see* **Anile, A. M.; et al., 93a:85001**
Schneider, V. (*with* Katscher, U.; Rischke, D. H.; Waldhauser, B.; Maruhn, J. A.; Munz, C.-D.) New algorithms for ultra-relativistic numerical hydrodynamics. (English summary) **93k:76091**
Simon, Walter *see* **Beig, R., 93b:83037**
Smalley, Larry L. (*with* Krisch, Jean P.) Minimal coupling of electromagnetic field in Riemann-Cartan spacetime for perfect fluids. **93f:83074**
Strumía, Alberto Wave propagation in relativistic extended thermodynamics of a charged fluid. (English summary) **93g:76115**
Waldhauser, B. *see* **Schneider, V.; et al., 93k:76091**

76Zxx Biological fluid mechanics [see also 92Cxx]

Items with secondary classifications in 76Zxx

(Cheer, A. Y.) *see* **Fluid dynamics in biology, 93j:76003**
(van Dam, C. P.) *see* **Fluid dynamics in biology, 93j:76003**

Items listed otherwise than by author

Conference:
Fluid Dynamics in Biology ★ Fluid dynamics in biology. **93j:76003**
Contemporary Mathematics ★ Fluid dynamics in biology. **93j:76003**
Fluid dynamics in biology ★ Fluid dynamics in biology. **93j:76003**
Seattle, WA ★ Fluid dynamics in biology. **93j:76003**

76Z05 Physiological flows [see also 92C35]

Aldis, G. K. *see* **Barry, S. I.; et al., 93c:76089**
Barry, S. I. (*with* Parker, K. H.; Aldis, G. K.) Fluid flow over a thin deformable porous layer. **93c:76089**
Berger, Stanley A. Flow in large blood vessels. (English summary) **93k:76129**
Britton, N. F. A new method for mass transport problems with an application to haemofilters. **93a:76111**
Demiray, Hilmi Wave propagation through a viscous fluid contained in a prestressed thin elastic tube. (English summary) **93g:76117**
Dwyer, Harry A. *see* **Yam, Clement G., (93j:76003)**
Fauci, Lisa J. Computational modeling of the swimming of biflagellated algal cells. (English summary) (*see* **93j:76003**)
Halpern, D. (*with* Secomb, T. W.) The squeezing of red blood cells through parallel-sided channels with near-minimal widths. (English summary)
Parker, K. H. *see* **Barry, S. I.; et al., 93c:76089**
Secomb, T. W. *see* **Halpern, D.**
Yam, Clement G. (*with* Dwyer, Harry A.) Unsteady flow in a curved pipe. (*see* **93j:76003**)

Items with secondary classifications in 76Z05

Ahmed, N. U. Optimal control of hydrodynamic flow with possible application to artificial heart. **93e:49053**
Aldis, G. K. *see* **Barry, S. I., 93k:76108**
Barry, S. I. (*with* Aldis, G. K.) Radial flow through deformable porous shells. (English summary) **93k:76108**
Beyer, R. P. (*with* LeVeque, Randall J.) Analysis of a one-dimensional model for the immersed boundary method. **93a:65123**
Demiray, Hilmi Torsional waves in a stressed elastic tube filled with a viscous fluid. **93b:73019**
Dost, S. *see* **Erbay, H. A.; et al., 93f:73080**
Easwaran, C. V. (*with* Kokal, S. L.) A theory for transient discharge in tubes with applications to a new type of viscometer. (English summary) **93h:76024**
Erbay, H. A. (*with* Erbay, S.; Dost, S.) Wave propagation in fluid filled nonlinear viscoelastic tubes. (English summary) **93f:73080**
Erbay, S. *see* **Erbay, H. A.; et al., 93f:73080**
Fogelson, Aaron L. Continuum models of platelet aggregation: formulation and mechanical properties. **93e:92005**
Fusco, D. (*with* Manganaro, N.) Exact solutions to flows in fluid filled elastic tubes. (English summary) **93k:35212**
Kan-on, Yukio (*with* Narukawa, Kimiaki; Teramoto, Yoshiaki) On the equations of bioconvective flow. **93b:35118**
Kokal, S. L. *see* **Easwaran, C. V., 93h:76024**
LeVeque, Randall J. *see* **Beyer, R. P., 93a:65123**
Luchini, P. (*with* Lupo, M.; Pozzi, A.) Unsteady Stokes flow in a distensible pipe. (German and Russian summaries) **93m:76021**
Lupo, M. *see* **Luchini, P.; et al., 93m:76021**
Manganaro, N. *see* **Fusco, D., 93k:35212**

Murase, Masatoshi Mechanical approach toward flagellar motility. (English summary) (*see* **93j:76003**)
Narukawa, Kimiaki *see* **Kan-on, Yukio; et al., 93b:35118**
Peskin, Charles S. Two examples of mathematics and computing in the biological sciences: blood flow in the heart and molecular dynamics. (*see* **93d:01002**)
— (*with* Printz, Beth Feller) Improved volume conservation in the computation of flows with immersed elastic boundaries. (English summary) **93k:76081**
Pozzi, A. *see* **Luchini, P.; et al., 93m:76021**
Printz, Beth Feller *see* **Peskin, Charles S., 93k:76081**
Teramoto, Yoshiaki *see* **Kan-on, Yukio; et al., 93b:35118**

76Z10 Biopropulsion in water and in air

Lighthill, Michael James Biofluiddynamics: a survey. (English summary) **93k:76130**
Rayner, Jeremy M. V. On aerodynamics and the energetics of vertebrate flapping flight. (English summary) (*see* **93j:76003**)

Items with secondary classifications in 76Z10

Lighthill, Michael James Hydrodynamic far fields. **93a:76018**
Miloh, Touvia Hydrodynamic self-propulsion of deformable bodies and oscillating bubbles. **93a:76008**

76Z99 None of the above, but in this section

Lighthill, Michael James Acoustic streaming in the ear itself. **93d:76081**
— Acoustic streaming in the ear itself. (English summary) **93k:76131**
Mayo, Anita A. (*with* Peskin, Charles S.) An implicit numerical method for fluid dynamics problems with immersed elastic boundaries. (English summary) **93k:76132**
McQueen, David M. *see* **Peskin, Charles S., 93k:76133**
Peskin, Charles S. (*with* McQueen, David M.) Computational biofluid dynamics. (English summary) **93k:76133**
— *see also* **Mayo, Anita A., 93k:76132**

Items with secondary classifications in 76Z99

Grotberg, J. B. *see* **Jensen, O. E., 93f:76026**
Jensen, O. E. (*with* Grotberg, J. B.) Insoluble surfactant spreading on a thin viscous film: shock evolution and film rupture. (English summary) **93f:76026**
Peskin, Charles S. *see* **Tu, Cheng, 93g:76097**
Tu, Cheng (*with* Peskin, Charles S.) Stability and instability in the computation of flows with moving immersed boundaries: a comparison of three methods. (English summary) **93g:76097**

78–XX Optics, electromagnetic theory {For quantum optics, see 81V80.}

78–01 Instructional exposition (textbooks, tutorial papers, etc.)

(Bijak, B.) *see* **Petykiewicz, Jan, 93g:78001**
Conrady, A. E. ★ Applied optics and optical design. Part I. **93j:78001a**
— ★ Applied optics and optical design. Part II. **93j:78001b**
(Conrady Kingslake, Hilda G.) *see* **Conrady, A. E., 93j:78001b**
Hopcraft, K. I. (*with* Smith, P. R.) ★ An introduction to electromagnetic inverse scattering. **93j:78002**
(Kingslake, Rudolf) *see* **Conrady, A. E., 93j:78001b**
Kong, Jin Au ★ Electromagnetic wave theory. **93c:78001**
Petykiewicz, Jan ★ Wave optics. **93g:78001**
(Sadowski, M.) *see* **Petykiewicz, Jan, 93g:78001**
Smith, P. R. *see* **Hopcraft, K. I., 93j:78002**

Items listed otherwise than by author

Bibliography:
Conrady, A. E. *see* **Conrady, A. E., 93j:78001b**
Biography:
Conrady, A. E. *see* **Conrady, A. E., 93j:78001b**

Items with secondary classifications in 78–01

Gal'tsov, D. V. (*with* Grats, Yu. V.; Zhukovskii, V. Ch.) ★ Классические поля. (Russian) [Classical fields] **93g:70015**
Grats, Yu. V. *see* **Gal'tsov, D. V.; et al., 93g:70015**
(Lakhtakia, Akhlesh) *see* **Field representations and introduction to scattering, 93j:78018**
Mitter, Heinrich ★ Elektrodynamik. (German) [Electrodynamics] **93d:00002**
Moloney, Jerome V. *see* **Newell, Alan C., 93i:78010**
Newell, Alan C. (*with* Moloney, Jerome V.) ★ Nonlinear optics. **93i:78010**
(Varadan, V. K.) *see* **Field representations and introduction to scattering, 93j:78018**
(Varadan, V. V.) *see* **Field representations and introduction to scattering, 93j:78018**
Zhukovskii, V. Ch. *see* **Gal'tsov, D. V.; et al., 93g:70015**

Items listed otherwise than by author

Field representations and introduction to scattering ★ Field representations and introduction to scattering. **93j:78018**

78–03 Historical (must also be assigned at least one classification number from Section 01)

Yavetz, Ido Oliver Heaviside and the significance of the British electrical debate. (English summary)

Items with secondary classifications in 78–03

(Huygens, Christiaan) *see* **Wolf, Emil, 93d:01023** *and* **de Lang, H., 93d:01024**
de Lang, H. Christiaan Huygens, originator of wave optics. **93d:01024**
(Maxwell, James Clerk) *see* **Morrison, Margaret, 93c:01021**
Morrison, Margaret A study in theory unification: the case of Maxwell's electromagnetic theory. **93c:01021**
(Weber, Wilhelm) *see* **Wiederkehr, Karl Heinrich**
Wiederkehr, Karl Heinrich Wilhelm Weber und die Entwicklung in der Geomagnetik und Elektrodynamik. [Wilhelm Weber and the development in geomagnetics and electrodynamics]
Wolf, Emil The life and work of Christiaan Huygens. **93d:01023**

78–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 78–04

Ducomet, B. (*with* Quang, D. Ha.) Diffusion électromagnétique à basse fréquence par un réseau de cylindres diélectriques: étude numérique. (English and French summaries) [Low-frequency electromagnetic scattering by a grating of dielectric cylinders: numerical study] **93g:78018**
Quang, D. Ha. *see* **Ducomet, B., 93g:78018**

78–05 Experimental papers

Items with secondary classifications in 78–05

Becker, Wilhelm (*with* Fuka, M.; McIver, J. K.; Orszag, M.; Ramirez, Ricardo) Hamiltonian chaos in a laser damage model. (English summary) **93g:58125**
Fuka, M. *see* **Becker, Wilhelm; et al., 93g:58125**
McIver, J. K. *see* **Becker, Wilhelm; et al., 93g:58125**
Orszag, M. *see* **Becker, Wilhelm; et al., 93g:58125**
Ramirez, Ricardo *see* **Becker, Wilhelm; et al., 93g:58125**

78–08 Computational methods

Anfinogenov, A. Yu. (*with* Lifanov, I. I.) On numerical solution of integral equations of planar and spatial diffraction problems. (English summary) **93i:78001**
Ayyaswamy, P. S. *see* **Ramakrishna, K.; et al., 93i:78002**
Balanis, Constantine A. *see* **Tirkas, Panayiotis A.; et al.**
Bartsch, Michael (*with* Dehler, Micha; Dohlus, Martin; et al.) Solution of Maxwell's equations. (English summary) **93j:78003**
van den Berg, P. M. *see* **Kleinman, Ralph E.**
Boyse, William E. (*with* Lynch, Daniel R.; Paulsen, Keith D.; Minerbo, Gerald N.) Nodal-based finite-element modeling of Maxwell's equations. **93c:78002**
Bykov, A. A. (*with* Sveshnikov, A. G.; Trubetskov, M. K.) Application of the incomplete Galerkin method for calculating eigenwaves in open wave guides. (Russian) **93a:78001**
Chen, K. S. (*with* Fung, A. K.) A comparison between a frequency domain method and the standard moment method in surface scattering. (English summary) (*see* **93f:00014**)
Cohen, I. M. *see* **Ramakrishna, K.; et al., 93i:78002**
Dehler, Micha *see* **Bartsch, Michael; et al., 93j:78003**
Dohlus, Martin *see* **Bartsch, Michael; et al., 93j:78003**
Drits, V. V. Numerical methods for investigating the effects of self-action of ultrashort light pulses in resonant media. (Russian. English summary) **93b:78001**
Engheta, Nader (*with* Murphy, William D.; Rokhlin, Vladimir V.; Vassiliou, Marius S.) The fast multipole method (FMM) for electromagnetic scattering problems.
Fung, A. K. *see* **Chen, K. S., (93f:00014)**
Gorbenko, N. I. Convergence of the Stone method for equations of charge transfer in semiconductor devices. (Russian. Russian summary) **93m:78001**
Hurley, D. G. (*with* Siew, P. F.) A first order correction to the theory for the electromagnetic response of a thin conducting sheet. (English summary) (*see* **93i:00020**)
Kleinman, Ralph E. (*with* van den Berg, P. M.) A modified gradient method for two-dimensional problems in tomography. (English summary)
Lifanov, I. I. *see* **Anfinogenov, A. Yu., 93i:78001**
Lynch, Daniel R. *see* **Boyse, William E.; et al., 93c:78002**
Minerbo, Gerald N. *see* **Boyse, William E.; et al., 93c:78002**
Murphy, William D. *see* **Engheta, Nader; et al.**
Paulsen, Keith D. *see* **Boyse, William E.; et al., 93c:78002**
Ramakrishna, K. (*with* Cohen, I. M.; Ayyaswamy, P. S.) Numerical methods for two-dimensional analysis of electrical breakdown in a nonuniform gap. (English summary) **93i:78002**
Renaut, Rosemary A. *see* **Tirkas, Panayiotis A.; et al.**
Rokhlin, Vladimir V. *see* **Engheta, Nader; et al.**
Siew, P. F. *see* **Hurley, D. G., (93i:00020)**
Sveshnikov, A. G. *see* **Bykov, A. A.; et al., 93a:78001**
Tirkas, Panayiotis A. (*with* Balanis, Constantine A.; Renaut, Rosemary A.) Higher order absorbing boundary conditions for the finite-difference time-domain method. (English summary)
Trubetskov, M. K. *see* **Bykov, A. A.; et al., 93a:78001**
Vassiliou, Marius S. *see* **Engheta, Nader; et al.**

Items with secondary classifications in 78–08

Abramova, I. V. (*with* Zakharov, E. V.) A numerical method for solving problems of the diffraction of electromagnetic waves by surfaces of revolution. (Russian. Russian summary) (*see* **93f:00006**)
Achdou, Yves Numerical optimization of a photocell. (English summary) **93j:78014**
Akishin, P. G. ★ Об одном методе решения задачи магнитостатики в дифференциальной постановке. (Russian) [A method for solving a problem in magnetostatics in a differential formulation] **93d:78004**

Antyufeev, V. S. Direct and inverse problems of the radiation transfer in a vegetative cover. **93c:78008**

Atamian, C. (*with* Dinh, G. V.; Glowinski, Roland; He, Jiwen; Périaux, Jacques) On some imbedding methods applied to fluid dynamics and electromagnetics. **93c:76066**

Bossavit, A. Mixed elements and a two-phase free-boundary problem in magnetostatics. (French summary) **93f:78009**

Cole, Julian D. *see* **Pimbley, J. M., 93f:78005**

Dinh, G. V. *see* **Atamian, C.; et al., 93c:76066**

Dinh, Q. V. (*with* Glowinski, Roland; He, Jiwen; Kwock, V.; Pan, T. W.; Périaux, Jacques) Lagrange multiplier approach to fictitious domain methods: application to fluid dynamics and electromagnetics. (English summary) **93h:65136**

Feng, De Guang *see* **Wang, Gao Feng; et al., 93a:78018**

Fukuhara, Nobuhiko (*with* Higaki, Nobuo; Kuriyagawa, Akira) Mode-matching analysis of electromagnetic waves scattered by a rotating dielectric cylinder. (Japanese. English summary) **93f:78012**

Glowinski, Roland *see* **Atamian, C.; et al., 93c:76066** *and* **Dinh, Q. V.; et al., 93h:65136**

He, Jiwen *see* **Atamian, C.; et al., 93c:76066** *and* **Dinh, Q. V.; et al., 93h:65136**

Higaki, Nobuo *see* **Fukuhara, Nobuhiko; et al., 93f:78012**

Hou, Jie Chang (*with* Wang, Gao Feng; Shen, Li) A hybrid equation for an electromagnetic field, the extinction theorem and the boundary element method. (Chinese. English summary)

— *see also* **Wang, Gao Feng; et al., 93a:78018**

Jung, H. K. *see* **Lu, I-Tai; et al., 93k:78013**

Kalinichenko, M. I. (*with* Polyakov, S. V.) Numerical methods for problems of the propagation of diffracting light beams in chemically active gases with thermal diffusion. (Russian. English and Russian summaries) **93g:78020**

Karamzin, Yu. N. (*with* Trofimov, V. A.; Zakharova, I. G.) Difference schemes for optical thermal blooming problems. (English summary) **93f:80002**

Kaschiev, M. S. *see* **Zikatanov, L. T., 93a:65131**

Khoromskaya, V. Kh. (*with* Khoromskii, B. N.) ★ On the computing complexity of iterative substructuring algorithms in nonlinear magnetostatic problems. (English. English and Russian summaries) **93k:65094**

Khoromskii, B. N. *see* **Khoromskaya, V. Kh., 93k:65094**

Kristensson, Gerhard (*with* Krueger, Robert John) Time domain inversion techniques for electromagnetic scattering problems. (English summary) **93g:78022**

Krueger, Robert John *see* **Kristensson, Gerhard, 93g:78022**

Krumpholz, Michael *see* **Russer, Peter**

Kuriyagawa, Akira *see* **Fukuhara, Nobuhiko; et al., 93f:78012**

Kwock, V. *see* **Dinh, Q. V.; et al., 93h:65136**

Laura, Patricio A. A. *see* **Schinzinger, Roland, 93g:00018**

Lu, I-Tai (*with* Jung, H. K.; Tsai, C. M.) Hybrid combinations of global and local operators for solving Helmholtz and Poisson equations. (English summary) **93k:78013**

Miller, John J. H. (*with* Wang, Song; Wu, Chang Hui) A mixed finite element method for the stationary semiconductor continuity equations. (*see* **93b:65007**)

Mocanu, Constantin I. Dirichlet and Neumann boundary value problems for $\operatorname{div}(\eta \operatorname{grad})$ and $\operatorname{curl}(\nu \operatorname{curl})$-div equations. I. **93c:65157**

Monk, Peter Analysis of a finite element method for Maxwell's equations. **93k:65096**

— A comparison of three mixed methods for the time-dependent Maxwell's equations. (English summary) **93j:65184**

Pan, T. W. *see* **Dinh, Q. V.; et al., 93h:65136**

Périaux, Jacques *see* **Atamian, C.; et al., 93c:76066** *and* **Dinh, Q. V.; et al., 93h:65136**

Pimbley, J. M. (*with* Cole, Julian D.) Charge carrier dynamics in alpha particle tracks. **93f:78005**

Polyakov, S. V. *see* **Kalinichenko, M. I., 93g:78020**

Russer, Peter (*with* Krumpholz, Michael) The Hilbert space formulation of the TLM method. (English summary)

Schinzinger, Roland (*with* Laura, Patricio A. A.) ★ Conformal mapping: methods and applications. **93g:00018**

Shen, Li *see* **Hou, Jie Chang; et al.**

Trofimov, V. A. *see* **Karamzin, Yu. N.; et al., 93f:80002**

Tsai, C. M. *see* **Lu, I-Tai; et al., 93k:78013**

Wang, Gao Feng (*with* Hou, Jie Chang; Feng, De Guang) The interaction of EM wave with dielectric bodies: hybrid equation finite element method. **93a:78018**

— *see also* **Hou, Jie Chang; et al.**

Wang, Song *see* **Miller, John J. H.; et al., (93b:65007)**

Wu, Chang Hui *see* **Miller, John J. H.; et al., (93b:65007)**

Zakharov, E. V. *see* **Abramova, I. V., (93f:00006)**

Zakharova, I. G. *see* **Karamzin, Yu. N.; et al., 93f:80002**

Zikatanov, L. T. (*with* Kaschiev, M. S.) ★ Метод конечных элементов для моделирования полупроводниковых приборов. (Russian) [The finite-element method for modeling semiconductor devices] **93a:65131**

78A02 Foundations

Items with secondary classifications in 78A02

Anile, A. M. (*with* Pennisi, Sebastiano) Extended thermodynamics of the Blotekjaer hydrodynamical model for semiconductors. (English summary) **93h:82068**

Hoffmann, T. Extended phenomenological electrodynamics. (Russian and Polish summaries) **93a:78008**

Pennisi, Sebastiano *see* **Anile, A. M., 93h:82068**

Ribarič, Marjan (*with* Šušteršič, Luka) ★ Conservation laws and open questions of classical electrodynamics. **93b:78003**

Šušteršič, Luka *see* **Ribarič, Marjan, 93b:78003**

78A05 Geometric optics

Barkovskii, L. M. *see* **Fo Tkhi Nguet Khang, 93a:78002**

Chastang, Jean-Claude A. *see* **Farouki, Rida T., 93f:78001**

Farouki, Rida T. (*with* Chastang, Jean-Claude A.) Curves and surfaces in geometrical optics. **93f:78001**

Forbes, G. W. *see* **Stone, Bryan D., 93i:78003**

Fo Tkhi Nguet Khang (*with* Barkovskii, L. M.) Geometro-optic reflection and transmission operators for stratified anisotropic media. (Russian. English summary) **93a:78002**

Hovenier, J. W. *see* **van der Mee, Cornelis, 93f:78002**

Kyurkchan, A. G. On the exact value of the radius of convergence of the Wilcox series. (Russian) **93h:78001**

Maesumi, Mohsen Parabolic mirrors, elliptic and hyperbolic lenses. **93h:78002**

van der Mee, Cornelis (*with* Hovenier, J. W.) Structure of matrices transforming Stokes parameters. (English summary) **93f:78002**

Stone, Bryan D. (*with* Forbes, G. W.) Foundations of second-order layout for asymmetric systems. (English summary) **93i:78003**

Wolf, Kurt Bernardo The Euclidean root of Snell's law. I. Geometric polarization optics. **93a:78003**

Items with secondary classifications in 78A05

Arnol'd, V. I. ★ Singularities of caustics and wave fronts. **93b:58019**

Biktashev, V. N. On the geometrical optics for nonlinear waves. (English summary) **93k:35248**

Brooks, Michael J. (*with* Chojnacki, Wojciech; Kozera, Ryszard) Shading without shape. **93b:68091**

Chojnacki, Wojciech *see* **Brooks, Michael J.; et al., 93b:68091**

Cornbleet, S. An electromagnetic theory of rays in a nonuniform medium. **93a:78006**

Dijkhuis, B. *see* **Horn, T. C. M.; et al., 93e:58020**

Dufour, Jean-Paul (*with* Tueno, J. P.) Singularités et photographies de surfaces. (English summary) [Singularities and photographs of surfaces] **93e:58018**

Horn, T. C. M. (*with* Kleyn, A. W.; Dijkhuis, B.) Catastrophes and classical surface scattering. **93e:58020**

Kirpichnikova, N. Ya. Equations of a wave front, rays and a phase function near a nonsingular part of a caustic formed by a field of space-time rays. (Russian. English and Russian summaries) **93k:58022**

Kleyn, A. W. *see* **Horn, T. C. M.; et al., 93e:58020**

Kozera, Ryszard *see* **Brooks, Michael J.; et al., 93b:68091**

Kragl, Hans Cases of structural equality between the scalar wave equations of optics and the quantum-mechanical Schrödinger equation. **93c:35136**

Petkov, Vesselin M. (*with* Stoyanov, Luchezar N.) ★ Geometry of reflecting rays and inverse spectral problems. **93i:58161**

Stoyanov, Luchezar N. *see* **Petkov, Vesselin M., 93i:58161**

Tueno, J. P. *see* **Dufour, Jean-Paul, 93e:58018**

78A10 Physical optics

Arecchi, F. T. Rate processes in nonlinear optical dynamics with many attractors. **93d:78001**

Barakat, Richard Analytic proofs of the Arago-Fresnel laws for the interference of polarized light. (English summary) **93i:78004**

Clocchiatti, A. *see* **Maronna, Ricardo A.; et al., 93f:78003**

Feinstein, C. *see* **Maronna, Ricardo A.; et al., 93f:78003**

Golovina, S. G. On an inverse problem of the synthesis of plane optical elements. (Russian. Russian summary) **93m:78002**

Grether, Marcela (*with* López Moreno, Enrique) Hamiltonian characteristic functions in the design of an aspherical lens. (Spanish. English and Spanish summaries)

Hooshyar, M. A. (*with* Tamil, Lakshman S.) Inverse scattering theory and the design of planar optical waveguides with the same propagation constants for different frequencies. (English summary) **93k:78001**

Khasilev, V. Ya. Envelope solitons with different carrier frequencies in a dispersive nonlinear medium. (Russian) **93g:78002**

López Moreno, Enrique *see* **Grether, Marcela**

Maronna, Ricardo A. (*with* Feinstein, C.; Clocchiatti, A.) Optimal estimation of Stokes' parameters. (English summary) **93f:78003**

Overfelt, P. L. Scalar optical beams with helical symmetry. (English summary) **93g:78003**

Tamil, Lakshman S. *see* **Hooshyar, M. A., 93k:78001**

Tikhonravov, A. V. *see* **Zuev, I. V., 93m:78003**

Wünsche, Alfred Transition from the paraxial approximation to exact solutions of the wave equation and application to Gaussian beams. **93c:78003**

Yariv, Amnon Optics with a new law of reflection—phase conjugate optics. **93c:78004**

Zuev, I. V. (*with* Tikhonravov, A. V.) Uniqueness of the determination of the parameters of a layered medium from the reflection energy coefficient. (Russian. Russian summary) **93m:78003**

Items with secondary classifications in 78A10

Howison, Sam D. (*with* Lawrence, R. J.) Fluorescent transfer of light in dyed materials. (English summary) **93k:92013**

Karasëv, V. P. Oscillator and other groups in optics. (Russian. Russian summary) **93f:81170**

Kowarz, Marek W. (*with* Wolf, Emil) Conservation laws for partially coherent free fields. (English summary) **93j:78020**

Lawrence, R. J. *see* **Howison, Sam D., 93k:92013**

Mukunda, N. *see* **Simon, Rajiah, 93j:78022** *and* **93k:81067**

Nieto-Vesperinas, Manuel ★ Scattering and diffraction in physical optics. **93g:78016**

Simon, Rajiah (*with* Mukunda, N.) Twisted Gaussian Schell-model beams. (English summary) **93j:78022**

— (*with* Mukunda, N.) Bargmann invariant and the geometry of the Güoy effect. (English summary) **93k:81067**

Wolf, Emil *see* **Kowarz, Marek W., 93j:78020**

78A15 Electron optics

Items with secondary classifications in 78A15

Fujita, Shigeji (*with* Godoy, S.) Newtonian equations of motion for a Bloch electron. (Spanish summary) **93g:82105**
Godoy, S. *see* **Fujita, Shigeji, 93g:82105**

78A20 Space charge waves

Bhattacharya, Tilak A note on the space charge problem. **93a:78004**
Cade, R. Electrohydrostatic equilibrium and field solutions under space-charge conditions. (English summary) **93f:78004**
Cole, Julian D. *see* **Pimbley, J. M., 93f:78005**
Jeffries, Clark A new conservation law for classical electrodynamics. (English summary) **93i:78005**
Pimbley, J. M. (*with* Cole, Julian D.) Charge carrier dynamics in alpha particle tracks. **93f:78005**

78A25 Electromagnetic theory, general

Aaberge, T. A Lorentz covariant description of the classical radiation field. (English summary) **93j:78004**
Abboud, Toufic (*with* Nédélec, Jean-Claude) Electromagnetic waves in an inhomogeneous medium. **93a:78005**
Afanas'ev, G. N. (*with* Dubovik, V. M.) Electromagnetic properties of a toroidal solenoid. (English summary) **93g:78004**
Aktas, Y. (*with* Evans, M. W.; Farahi, F.) On the relativistic theory of charge. (English summary)
Barut, Asim Orhan (*with* Bracken, Anthony J.) Particle-like configurations of the electromagnetic field: an extension of de Broglie's ideas. (English summary) **93j:78005**
— *see also* **Blaive, B., 93i:78006**
Baylin, M. *see* **Ragusa, S., 93a:78010**
Besieris, Ioannis M. *see* **Ziolkowski, Richard W.; et al., 93j:78009**
Blaive, B. (*with* Barut, Asim Orhan) On some mathematical problems in the evaluation of fields produced by currents which are generalized functions. **93i:78006**
Boulanger, Ph. (*with* Hayes, Michael A.) Static and propagating exponential solutions of Maxwell's equations for crystals. (English summary) **93g:78005**
Bracken, Anthony J. *see* **Barut, Asim Orhan, 93j:78005**
Brent, Ronald I. (*with* Fishman, Louis) Derivation of extended parabolic theories for vector and electromagnetic wave propagation. (English summary) **93g:78006**
Chegis, I. A. Solution of a problem on the distribution of vortex flows. (Russian. Russian summary) **93m:78004**
Cheng, Jiu Heng (*with* Wu, Lin Xiang) Configurations of singularities of three-dimensional magnetic fields and their stability. (Chinese. English and Chinese summaries) **93k:78002**
Cimatti, Giovanni On two problems of electrical heating of conductors. **93c:78005**
Comay, E. Parity nonconservation in electromagnetic systems. (English summary)
Cornbleet, S. An electromagnetic theory of rays in a nonuniform medium. **93a:78006**
Dorren, H. J. S. (*with* Tip, A.) Maxwell's equations for nonsmooth media; fractal-shaped and pointlike objects. **93a:78007**
Du, M. L. *see* **Xu, L. F., 93j:78008**
Dubovik, V. M. *see* **Afanas'ev, G. N., 93g:78004**
Evans, M. W. *see* **Aktas, Y.; et al.**
Fabrizio, Mauro (*with* Lazzari, Barbara) Stability problems for nonlinear dissipative systems. (English summary) (*see* **93g:00030**)
Farahi, F. *see* **Aktas, Y.; et al.**
Fishman, Louis *see* **Brent, Ronald I., 93g:78006**
Fushchich, V. I. New nonlinear equations for electromagnetic field having velocity different from c. (Russian summary) **93g:78007**
Galanin, M. P. Estimation of the closeness of solutions of a system of Maxwell equations and of its quasistationary approximation. (Russian. English summary) **93b:78002**
— Comparison between solutions of the Maxwell system of equations and its quasi-stationary approximation. (English, Russian and Lithuanian summaries)
Graham, E. B. (*with* Pierrus, J.; Raab, R. E.) Multipole moments and Maxwell's equations. (English summary) **93h:78003**
Hayes, Michael A. *see* **Boulanger, Ph., 93g:78005**
Hillion, Pierre T. M. Nondispersive wave representation of photons. (English summary) **93j:78006**
Hoffmann, T. Extended phenomenological electrodynamics. (Russian and Polish summaries) **93a:78008**
— Surface effects in generalized phenomenological electrodynamics. (Russian and Polish summaries) **93c:78006**
de Hoop, Adrianus T. Reciprocity, causality, and Huygens' principle in electromagnetic wave theory. **93d:78002**
Hou, Jie Chang (*with* Wang, Gao Feng; Shen, Li) A hybrid equation for an electromagnetic field, the extinction theorem and the boundary element method. (Chinese. English summary)
Jancewicz, Bernard Harmonic coordinates and the electromagnetic field. (English summary) **93k:78003**
Jeffries, John R. *see* **Paulik, George F.; et al., 93j:78007**
Kaiser, Gerald Wavelet electrodynamics. (English summary) **93f:78006**
Kotel'nikov, G. A. Inversion of the sign of the speed of light—a new transformation of discrete symmetry in electrodynamics. (Russian. Russian summary) **93m:78005**
Krivskii, I. Yu. *see* **Simulik, V. M., 93h:78004**
Kurbanov, I. O. Solvability of nonlinear boundary value problems of electrodynamics with general constitutive equations. (Russian. Russian summary) **93m:78006**
de La Bourdonnaye, Armel Décomposition de $H_{\mathrm{div}}^{-1/2}(\Gamma)$ et nature de l'opérateur de Steklov-Poincaré du problème extérieur de l'électromagnétisme. (English and French summaries) [Decomposition of $H_{\mathrm{div}}^{-1/2}(\Gamma)$ and nature of the Steklov-Poincaré operator of the exterior problem of electromagnetism] **93k:78004**
Lazzari, Barbara *see* **Fabrizio, Mauro, (93g:00030)**
Lukáč, I. ★ A covariant form of the Maxwell's equations in four-dimensional spaces with an arbitrary signature. **93a:78009**
Maciołek-Niedźwiecki, A. *see* **Przanowski, M., 93k:78005**
Marsh, Gerald E. Magnetic energy, multiply connected domains, and force-free fields. (English summary) **93g:78008**
Mayer, Raymond P. *see* **Paulik, George F.; et al., 93j:78007**
Nédélec, Jean-Claude *see* **Abboud, Toufic, 93a:78005**
Obnosov, Yu. V. Solution of a problem of Markushevich in a class of doubly periodic functions with orthogonal periods. (Russian) **93f:78007**
Paulik, George F. (*with* Jeffries, John R.; Mayer, Raymond P.) An analysis of a perfectly conducting capacitive circuit. **93j:78007**
Pierrus, J. *see* **Graham, E. B.; et al., 93h:78003**
Priimenko, V. I. The problem of determining the electroconductivity of a medium from a system of Maxwell equations. (Russian. Russian summary) (*see* **93e:00018**)
Przanowski, M. (*with* Maciołek-Niedźwiecki, A.) Duality rotation as a Lie-Bäcklund transformation. (English summary) **93k:78005**
Raab, R. E. *see* **Graham, E. B.; et al., 93h:78003**
Ragusa, S. (*with* Baylin, M.) Electromagnetic first-order conservation laws in a medium. **93a:78010**
Ribarič, Marjan (*with* Šušteršič, Luka) ★ Conservation laws and open questions of classical electrodynamics. **93b:78003**
Richter, Egon W. Strukturuntersuchungen kraftfreier Magnetfelder. [Structural investigations of force-free magnetic fields] **93d:78003**
Roberts, Thomas M. Causality theorems. (English summary) **93k:78006**
Rynne, Bryan P. The well-posedness of the integral equations for thin wire antennas. (English summary) **93g:78009**
Schwarz, Siegmund Electromagnetic forces and the energy-momentum tensor in the presence of electric polarization and magnetization. **93f:78008**
Shaarawi, Amr M. *see* **Ziolkowski, Richard W.; et al., 93j:78009**
Shen, Li *see* **Hou, Jie Chang; et al.**
Simulik, V. M. (*with* Krivskii, I. Yu.) Tensors of the third rank for an electromagnetic field and series of conservation quantities. (Russian. English and Ukrainian summaries) **93h:78004**
Šušteršič, Luka *see* **Ribarič, Marjan, 93b:78003**
Tip, A. *see* **Dorren, H. J. S., 93a:78007**
Wang, Gao Feng *see* **Hou, Jie Chang; et al.**
Wilhelm, H. E. Shock waves and Čerenkov radiation in electromagnetic substratum. **93h:78005**
Wu, Lin Xiang *see* **Cheng, Jiu Heng, 93k:78002**
Wu, Ting Zhu Feynman's disk paradox and static electromagnetic angular momentum. (Chinese. English and Chinese summaries)
Xu, L. F. (*with* Du, M. L.) Wave packets in a magnetic field. (English summary) **93j:78008**
Ziolkowski, Richard W. (*with* Besieris, Ioannis M.; Shaarawi, Amr M.) Aperture realizations of exact solutions to homogeneous-wave equations. (English summary) **93j:78009**

Items with secondary classifications in 78A25

Abdizhalilov, M. (*with* Yakhno, V. G.) A multidimensional inverse problem in a ray formulation for a system of Maxwell equations. (Russian. Russian summary) **93j:35180**
Amirat, Youcef (*with* Hamdache, K.; Ziani, A.) Homogenisation of parametrised families of hyperbolic problems. **93f:35021**
Bartsch, Michael (*with* Dehler, Micha; Dohlus, Martin; et al.) Solution of Maxwell's equations. (English summary) **93j:78003**
Barut, Asim Orhan More on the radiation reaction and runaway solutions in classical electrodynamics. (English summary) **93m:81155**
Baylis, W. E. *see* **Wei, Jiansu, 93a:81213**
Bensoussan, Alain Some remarks on the exact controllability of Maxwell's equations. **93d:93014**
Berger, Mitchell A. Energy-crossing number relations for braided magnetic fields. (English summary) **93i:85003**
Blanco, R. On Barut's proposal for eliminating both the preacceleration and the runaway solution of the Lorentz-Dirac equation. (English summary) **93m:81154**
Boyse, William E. (*with* Lynch, Daniel R.; Paulsen, Keith D.; Minerbo, Gerald N.) Nodal-based finite-element modeling of Maxwell's equations. **93c:78002**
Brushlinskii, K. V. (*with* Ryaben'kii, V. S.; Tuzova, N. B.) Transfer of a boundary condition across a vacuum in axisymmetric problems. (Russian. Russian summary) **93k:35249**
Bytner, S. (*with* Gambin, B.) Homogenization of heterogeneous elastic conductor in a magnetic field. (English summary)
Cade, R. Electrohydrostatic equilibrium and field solutions under space-charge conditions. (English summary) **93f:78004**
Cardoso, J. G. Real wave equations for positive-frequency electromagnetic fields and their Green's function solutions. **93e:81043**
Chan, Kwong-Yu *see* **Choi, Yung Sze, 93b:35057**
Chen, Xian Zhen A unified N-dimensional field equation and its application. (Chinese. English summary) **93b:70016**
Choi, Yung Sze (*with* Chan, Kwong-Yu) A parabolic equation with nonlocal boundary conditions arising from electrochemistry. **93b:35057**
Dehler, Micha *see* **Bartsch, Michael; et al., 93j:78003**
Dencker, Nils The propagation of polarization in double refraction. **93e:35108**
Descloux, J. Stability of the solutions of the bidimensional magnetic shaping problem in absence of surface tension. **93g:76111**
Dohlus, Martin *see* **Bartsch, Michael; et al., 93j:78003**
Doss, S. *see* **Hewett, D. W.; et al.**
Dular, P. *see* **Nicolet, A.; et al., (93b:65002)**
Dümcke, R. *see* **Fazelpour, S.; et al., (93b:65002)**
Dynnikov, I. A. A proof of S. P. Novikov's conjecture for the case of small perturbations of rational magnetic fields. (Russian) **93h:58039**
Epstein, Marcelo *see* **Maugin, Gérard A.; et al., 93h:73032**
Fazelpour, S. (*with* Dümcke, R.; Reichl, H.) Solution of two-dimensional electrostatic and eddy current problems based on BEM for modelling of interconnects on multichip modules. (English summary) (*see* **93b:65002**)

Freeman, D. Kent Generalization of the pseudopotential to an interaction with nonzero range. **93b:81057**
Gaida, R. P. (*with* Tretyak, V. I.; Yaremko, Yu. G.) Center of mass variables in the relativistic Lagrangian mechanics of a system of particles. (Ukrainian. English, Russian and Ukrainian summaries) **93d:70032**
Gambin, B. *see* **Bytner, S.**
Genon, A. *see* **Nicolet, A.; et al., (93b:65002)**
Hamdache, K. *see* **Amirat, Youcef; et al., 93f:35021**
Harrington, R. F. Formulation of boundary integral equations by the equivalent source method. (English summary) (*see* **93b:65002**)
Hewett, D. W. (*with* Larson, D. J.; Doss, S.) Solution of simultaneous partial differential equations using dynamic ADI: solution of the streamlined Darwin field equations.
Hopcraft, K. I. (*with* Smith, P. R.) ★ An introduction to electromagnetic inverse scattering. **93j:78002**
Hughes, Richard J. On Feynman's proof of the Maxwell equations. **93d:70034**
Hurley, D. G. (*with* Siew, P. F.) A first order correction to the theory for the electromagnetic response of a thin conducting sheet. (English summary) (*see* **93i:00020**)
It·s, E. N. *see* **Lee, J. S., 93f:73089**
Jeffries, Clark A new conservation law for classical electrodynamics. (English summary) **93i:78005**
Jones, D. S. Huygens' principle and a field relation. **93a:78015**
Kalpakidis, V. K. (*with* Massalas, C. V.) Tiersten's theory of thermoelectroelasticity: an extension. (English summary) **93j:73068**
Katauskis, Pranas On the solvability of a magnetization problem. (Russian. English and Lithuanian summaries) **93e:35110**
Kawamura, R. (*with* Oikawa, Y.) The study of three-dimensional magnetic problem using direct integration on time of the fundamental solution. (English summary) (*see* **93b:65002**)
Kleinert, Hagen The extra gauge symmetry of string deformations in electromagnetism with charges and Dirac monopoles. (English summary)
Kluitenberg, Gerrit Alfred *see* **Restuccia, Liliana, 93a:73011**
Kopisz, M. Principle of conservation of momentum, angular momentum and energy for a deformable continuum in an electromagnetic field. **93i:73043**
Krokhin, O. N. (*with* Tsybenko, S. P.) The structure of plane nonlinear waves in conservative systems of plasma electrodynamics and hydrodynamics. (Russian. Russian summary) **93k:76128**
Kurbanov, I. O. Smoothness of generalized solutions of nonlinear boundary value problems in electromagnetoelasticity with memory. (Russian. Russian summary) **93g:73102**
— Solvability of nonlinear boundary value problems of electromagnetoelasticity with general constitutive equations. (Russian) **93d:73064**
— Electromagnetoelastic waves in a half-space with general defining equations. (Russian. Russian summary)
Larson, D. J. *see* **Hewett, D. W.; et al.**
Laura, Patricio A. A. *see* **Schinzinger, Roland, 93g:00018**
Lebedev, L. E. The invariance algebra of Maxwell's equations in a fixed inertial frame of reference. (Russian. Russian summary) (*see* **93k:00023**)
Lee, J. S. (*with* It·s, E. N.) Green's function and energy integrals for magnetoelastic surface waves in perfectly conducting media. (English summary) **93f:73089**
Legros, W. *see* **Nicolet, A.; et al., (93b:65002)**
Linardatos, D. Determination of two-dimensional magnetostatic equilibria and analogous Euler flows. (English summary) **93i:76100**
Lynch, Daniel R. *see* **Boyse, William E.; et al., 93c:78002**
Marinov, Corneliu A. (*with* Moroşanu, Gheorghe) Consistent models for electrical networks with distributed parameters. **93d:35061**
Massalas, C. V. *see* **Kalpakidis, V. K., 93j:73068**
Maugin, Gérard A. (*with* Epstein, Marcelo; Trimarco, Carmine) Theory of elastic inhomogeneities in electromagnetic materials. (English summary) **93h:73032**
— Thermomechanical equations of magnetic fluids. (English summary) **93h:76078**
Milgrom, Mordehai (*with* Shtrikman, S.) The energy of inclusions in linear media exact shape-independent relations. **93g:73011**
Milton, Graeme W. The field equation recursion method. **93b:73007**
— *see also* **Nesi, Vincenzo, 93a:73070**
Minerbo, Gerald N. *see* **Boyse, William E.; et al., 93c:78002**
Moroşanu, Gheorghe *see* **Marinov, Corneliu A., 93d:35061**
Nesi, Vincenzo (*with* Milton, Graeme W.) Polycrystalline configurations that maximize electrical resistivity. **93a:73070**
Nicolet, A. (*with* Dular, P.; Genon, A.; Legros, W.) Boundary element singularities in 3D magnetostatic problems based on the vector potential. (English summary) (*see* **93b:65002**)
Oikawa, Y. *see* **Kawamura, R., (93b:65002)**
Paulsen, Keith D. *see* **Boyse, William E.; et al., 93c:78002**
Ponte Castañeda, P. A new variational principle and its application to nonlinear heterogeneous systems. (English summary) **93g:73012**
Rawnsley, John Exact symplectic structures and a classical model for the Dirac electron. **93f:58082**
Reichl, H. *see* **Fazelpour, S.; et al., (93b:65002)**
Restuccia, Liliana (*with* Turrisi, Enrico) On the total energy flux in reacting fluid mixtures in which dielectric and magnetic relaxation phenomena occur. (Italian summary) **93b:80010**
— (*with* Kluitenberg, Gerrit Alfred) On the heat dissipation function for dielectric relaxation phenomena in anisotropic media. **93a:73011**
Ryaben'kii, V. S. *see* **Brushlinskii, K. V.; et al., 93k:35249**
Schinzinger, Roland (*with* Laura, Patricio A. A.) ★ Conformal mapping: methods and applications. **93g:00018**
Shaw, Richard Paul (*with* Van Slooten, R.; Van Slooten, P.) Axisymmetric static electromagnetic problems solved by boundary element methods. (English summary) (*see* **93b:65002**)
Shtrikman, S. *see* **Milgrom, Mordehai, 93g:73011**
Siew, P. F. *see* **Hurley, D. G., (93i:00020)**
Smith, P. R. *see* **Hopcraft, K. I., 93j:78002**
Sokołowski, Jan (*with* Zolésio, Jean-Paul) Shape sensitivity analysis of hyperbolic problems. (English summary) (*see* **93c:93006**)
Sun, Zi Qi (*with* Uhlmann, Gunther) An inverse boundary value problem for Maxwell's equations. **93f:35243**
Tasmambetov, Zh. N. On the solution of a special system of partial differential equations used in electrodynamics. (Russian. Russian summary) (*see* **93m:00032**)
Tretyak, V. I. *see* **Gaida, R. P.; et al., 93d:70032**
Trimarco, Carmine *see* **Maugin, Gérard A.; et al., 93h:73032**
Tsybenko, S. P. *see* **Krokhin, O. N., 93k:76128**
Turrisi, Enrico *see* **Restuccia, Liliana, 93b:80010**
Tuzova, N. B. *see* **Brushlinskii, K. V.; et al., 93k:35249**
Uhlmann, Gunther *see* **Sun, Zi Qi, 93f:35243**
Van Slooten, P. *see* **Shaw, Richard Paul; et al., (93b:65002)**
Van Slooten, R. *see* **Shaw, Richard Paul; et al., (93b:65002)**
Wei, Jiansu (*with* Baylis, W. E.) Monopoles without strings: a conflict between the one-photon condition and duality invariance. **93a:81213**
Yakhno, V. G. *see* **Abdizhalilov, M., 93j:35180**
Yaremko, Yu. G. *see* **Gaida, R. P.; et al., 93d:70032**
Ziani, A. *see* **Amirat, Youcef; et al., 93f:35021**
Zolésio, Jean-Paul *see* **Sokołowski, Jan, (93c:93006)**

78A30 Electro- and magnetostatics

Akishin, P. G. ★ Об одном методе решения задачи магнитостатики в дифференциальной постановке. (Russian) [A method for solving a problem in magnetostatics in a differential formulation] **93d:78004**
Barshinger, Richard The electrostatic field about a thin oblate dielectric body of revolution. **93c:78007**
Bossavit, A. Mixed elements and a two-phase free-boundary problem in magnetostatics. (French summary) **93f:78009**
Chen, Yuan Zhi A uniqueness theorem for the electrostatic potential. (Chinese. English summary) **93a:78011**
Dettmann, C. P. (*with* Frankel, Norman E.) Potential theory and analytic properties of a Cantor set. (English summary) **93k:78007**
Engl, Heinz W. (*with* Isakov, Victor) On the identifiability of steel reinforcement bars in concrete from magnetostatic measurements. (English summary) **93g:78010**
Felderhof, B. U. *see* **Hinsen, K., 93g:78011**
Frankel, Norman E. *see* **Dettmann, C. P., 93k:78007**
Hinsen, K. (*with* Felderhof, B. U.) Reduced description of electric multipole potential in Cartesian coordinates. (English summary) **93g:78011**
Isakov, Victor *see* **Engl, Heinz W., 93g:78010**
Kalachëv, L. V. (*with* Obukhov, I. A.) Asymptotic behavior of a solution of the Poisson equation in a model of a three-dimensional semiconductor structure. (Russian. Russian summary) **93h:78006**
Kazantsev, V. P. *see* **Zolotov, O. A., 93m:78007**
Obukhov, I. A. *see* **Kalachëv, L. V., 93h:78006**
Zolotov, O. A. (*with* Kazantsev, V. P.) Variational principles of superconductor magnetostatics. I, II. (Russian. Russian summary) **93m:78007**

Items with secondary classifications in 78A30

Bryan, Kurt (*with* Vogelius, Michael) A uniqueness result concerning the identification of a collection of cracks from finitely many electrostatic boundary measurements. **93f:35238**
Cherkaev, A. V. (*with* Gibiansky, L. V.) The exact coupled bounds for effective tensors of electrical and magnetic properties of two-component two-dimensional composites. (English summary) **93k:73006**
Eskola, L. ★ Geophysical interpretation using integral equations. **93m:86007**
Gibiansky, L. V. *see* **Cherkaev, A. V., 93k:73006**
Kalachëv, L. V. (*with* Obukhov, I. A.) Asymptotic behavior of a solution of the Poisson equation for a semiconductor structure in an external field. (Russian. English summary) **93b:78011**
Negro, Javier (*with* del Olmo, Mariano A.) Bundle realizations and invariant connections in an abelian principal bundle. **93e:53032**
Obukhov, I. A. *see* **Kalachëv, L. V., 93b:78011**
del Olmo, Mariano A. *see* **Negro, Javier, 93e:53032**
Vogelius, Michael *see* **Bryan, Kurt, 93f:35238**
Yamaguchi, Hiroshi[1] Equilibrium vector potentials in $\mathbf{R}^3$.

78A35 Motion of charged particles

Akhiezer, A. I. (*with* Shul'ga, N. F.) Quasiclassical theory of radiation emission from high-energy particles in an external field and the problem of boundary conditions. (Russian) **93g:78012**
Amirkhanov, I. V. (*with* Zhidkov, E. P.; Ignatov, V. V.; Il'ina, A. N.; Il'in, I. V.; Il'in, V. D.) ★ О стохастизации движения заряженных частиц в геомагнитном поле и поле волнового пакета. (Russian. English and Russian summaries) [Stochastization of the motion of charged particles in a geomagnetic field and a wave packet field] **93m:78008**
Beil, R. G. Natural gauges for classical charged particles. **93a:78012**
Blokhin, A. M. (*with* Druzhinin, I. Yu.; Mishchenko, E. V.) Theory and computation of third order aberrations for cathode systems. I. (English summary) **93m:78009**
Botrić, S. (*with* Ljolje, K.) On the self-interaction in classical electrodynamics. **93f:78010**
Druzhinin, I. Yu. *see* **Blokhin, A. M.; et al., 93m:78009**
Fel'd, Ya. N. On the quadratic lemma in electrodynamics. (Russian) **93m:78010**
Grigor'ev, Yu. N. *see* **Virchenko, Yu. P., 93a:78013**
Herdegen, Andrzej Classical electrodynamics of a point particle from action integral. (English summary) **93j:78010**
Ignatov, V. V. *see* **Amirkhanov, I. V.; et al., 93m:78008**
Il'in, I. V. *see* **Amirkhanov, I. V.; et al., 93m:78008**
Il'in, V. D. *see* **Amirkhanov, I. V.; et al., 93m:78008**
Il'ina, A. N. *see* **Amirkhanov, I. V.; et al., 93m:78008**
Klepikov, N. P. (*with* Ternov, I. M.) Distance dependence of radiation energy flux. (English summary) **93j:78011**

Ljolje, K. *see* **Botrić, S., 93f:78010**
Matveev, N. M. (*with* Soĭgin, A. M.) A procedure for constructing the solution of a differential system for the self-consistent dynamics of an electric charge. (Russian) (*see* **93g:34001**)
Mishchenko, E. V. *see* **Blokhin, A. M.; et al., 93m:78009**
Nosov, S. F. The Hamiltonian formalism in the drift theory of the motion of charged particles in a magnetic field. (Russian. English, Russian and Ukrainian summaries) **93j:78012**
Shul'ga, N. F. *see* **Akhiezer, A. I., 93g:78012**
Soĭgin, A. M. *see* **Matveev, N. M., (93g:34001)**
Ternov, I. M. *see* **Klepikov, N. P., 93j:78011**
Virchenko, Yu. P. (*with* Grigor'ev, Yu. N.) Equilibrium distribution of charged particles in the phase space of a cyclic accelerator. **93a:78013**
Zhidkov, E. P. *see* **Amirkhanov, I. V.; et al., 93m:78008**

Items with secondary classifications in 78A35

Aktas, Y. (*with* Evans, M. W.; Farahi, F.) On the relativistic theory of charge. (English summary)
Alexander, Francis J. (*with* Gerlach, Ulrich H.) Coulomb field of an accelerated charge: physical and mathematical aspects. **93a:83022**
Asanov, G. S. Gauge-covariant stationary curves on Finslerian and jet fibrations and gauge extension of Lorentz force. **93c:53011**
Avaldi, L. (*with* Quarteroni, Alfio; Saleri, F.) Finite element simulation of electron optical systems. (English summary) **93g:65140**
Bampi, Franco (*with* Zordan, Clara) Hilbert transforms in wave propagation theory. (Italian summary) **93f:35012**
Casasayas, Josefina (*with* Nunes, Ana) Chaos in a restricted charged four-body problem. (English summary) (*see* **93i:70002**)
Delaurens, F. (*with* Mustieles Moreno, Francisco-José) A deterministic particle method for solving kinetic transport equations: the semiconductor Boltzmann equation case. **93k:65008**
Dixon, J. M. *see* **Nip, M. L. A.; et al., 93h:70011**
Dragt, Alex J. *see* **Healy, Liam M.; et al., 93b:70018**
Dynnikov, I. A. A proof of S. P. Novikov's conjecture for the case of small perturbations of rational magnetic fields. (Russian) **93h:58039**
Evans, M. W. *see* **Aktas, Y.; et al.**
Farahi, F. *see* **Aktas, Y.; et al.**
Gabella, W. E. (*with* Ruth, R. D.; Warnock, R. L.) Iterative determination of invariant tori for a time-periodic Hamiltonian with two degrees of freedom. (English summary) **93g:70004**
Gerlach, Ulrich H. *see* **Alexander, Francis J., 93a:83022**
Gjaja, Ivan M. *see* **Healy, Liam M.; et al., 93b:70018**
Goudas, C. L. (*with* Petsagourakis, E. G.) The three-dipole problem. (English summary) **93k:85002**
Healy, Liam M. (*with* Dragt, Alex J.; Gjaja, Ivan M.) Computation of error effects in nonlinear Hamiltonian systems using Lie algebraic methods. **93b:70018**
Mustieles Moreno, Francisco-José *see* **Delaurens, F., 93k:65008**
Nip, M. L. A. (*with* Tuszyński, J. A.; Otwinowski, M.; Dixon, J. M.) Search for regular orbits in the x^2y^2 potential problem. (English summary) **93h:70011**
Nunes, Ana *see* **Casasayas, Josefina, (93i:70002)**
Otwinowski, M. *see* **Nip, M. L. A.; et al., 93h:70011**
Petsagourakis, E. G. *see* **Goudas, C. L., 93k:85002**
Poupaud, Frédéric Boundary value problems for the stationary Vlasov-Maxwell system. (English summary) **93i:35144**
— Runaway phenomena and fluid approximation under high fields in semiconductor kinetic theory. (English, German and Russian summaries) **93h:82074**
Quarteroni, Alfio *see* **Avaldi, L.; et al., 93g:65140**
Ribarič, Marjan (*with* Šušteršič, Luka) ★ Conservation laws and open questions of classical electrodynamics. **93b:78003**
Ruth, R. D. *see* **Gabella, W. E.; et al., 93g:70004**
Saleri, F. *see* **Avaldi, L.; et al., 93g:65140**
Schäfer, Gerhard Reduction of higher derivative Lagrangians. (German summary) **93d:58043**
Servizi, Graziano (*with* Todesco, Ezio) Resonant normal forms and applications to beam dynamics. (*see* **93i:58004**)
Šušteršič, Luka *see* **Ribarič, Marjan, 93b:78003**
Todesco, Ezio *see* **Servizi, Graziano, (93i:58004)**
Tuszyński, J. A. *see* **Nip, M. L. A.; et al., 93h:70011**
Warnock, R. L. *see* **Gabella, W. E.; et al., 93g:70004**
Zordan, Clara *see* **Bampi, Franco, 93f:35012**

78A40 Waves and radiation

Belonosov, S. M. Boundary integral equations of the second kind for a problem on plane-parallel monochromatic oscillations in a piecewise-homogeneous medium. (Russian. Russian summary) **93e:78001**
Bin'ko, I. F. (*with* Kurochkin, G. F.; Nevinitsyn, È. L.; Reztsov, V. F.; Shevchuk, V. I.) Peculiarities of the propagation of electromagnetic waves in inhomogeneous media with nonideal conductivity. (Russian. English and Russian summaries)
Colton, David (*with* Kirsch, Andreas) The use of polarization effects in electromagnetic inverse scattering problems. **93g:78013**
Dai, Ji Qiong *see* **Dai, Xian Xi, 93a:78014**
Dai, Xian Xi (*with* Dai, Ji Qiong) On unique existence theorem and exact solution formula of the inverse black-body radiation problem. **93a:78014**
Dorodnitsyn, V. A. (*with* Svirshchevskiĭ, S. R.) Group properties of a stationary system of equations of the inversion of a wave front of optic radiation in nonlinear media. (Russian. English summary) **93b:78004**
Ducomet, B. Diffusion électromagnétique à basse fréquence par un réseau de cylindres diélectriques. (English and French summaries) [Low-frequency electromagnetic scattering by an array of dielectric cylinders] **93k:78008**
Fal'kovich, S. E. *see* **Volosyuk, V. K.; et al., 93e:78002**
Gilliam, D. S. *see* **Schulenberger, J. R., 93f:78011**
Gray, John E. Electromagnetic waves with E parallel to B. (English summary) **93j:78013**
He, Sailing A time-harmonic Green's function technique and wave propagation in a stratified nonreciprocal chiral slab with multiple discontinuities. (English summary) **93g:78014**
Hillion, Pierre T. M. Nondispersive waves: interpretation and causality. (English summary) **93h:78007**
Jones, D. S. Huygens' principle and a field relation. **93a:78015**
Karlsson, Anders *see* **Kristensson, Gerhard; et al., (93e:00023)**
Kirsch, Andreas *see* **Colton, David, 93g:78013**
Kravchenko, V. F. *see* **Volosyuk, V. K.; et al., 93e:78002**
Kristensson, Gerhard (*with* Karlsson, Anders; Otterheim, Henrik) Transient wave propagation in gyrotropic media. (English summary) (*see* **93e:00023**)
Kurochkin, G. F. *see* **Bin'ko, I. F.; et al.**
Kuske, R. Wave localization in a one-dimensional random medium. (English summary) **93g:78015**
Nevinitsyn, È. L. *see* **Bin'ko, I. F.; et al.**
Nieto-Vesperinas, Manuel ★ Scattering and diffraction in physical optics. **93g:78016**
Ochs, Robert L., Jr. (*with* Vogel, Curtis R.) Energy optimization in electromagnetic wave propagation. (English summary) (*see* **93e:00023**)
Otterheim, Henrik *see* **Kristensson, Gerhard; et al., (93e:00023)**
Parker, David F. *see* **Ryder, E., 93m:78011**
Popov, I. Yu. The resonator with narrow slit and the model based on the operator extensions theory. (English summary) **93i:78007**
Reztsov, V. F. *see* **Bin'ko, I. F.; et al.**
Ryder, E. (*with* Parker, David F.) Coupled evolution equations for axially inhomogeneous optical fibres. (English summary) **93m:78011**
Schulenberger, J. R. (*with* Gilliam, D. S.) Steady-state solutions of Maxwell's equations over a three-dimensional conducting half space. **93f:78011**
Shevchuk, V. I. *see* **Bin'ko, I. F.; et al.**
Svirshchevskiĭ, S. R. *see* **Dorodnitsyn, V. A., 93b:78004**
Vogel, Curtis R. *see* **Ochs, Robert L., Jr., (93e:00023)**
Volosyuk, V. K. (*with* Kravchenko, V. F.; Fal'kovich, S. E.) Optimization of estimates for spatially distributed parameters of electrodynamic models of surfaces in inverse interpretation problems of active remote sounding. (Russian) **93e:78002**

Items with secondary classifications in 78A40

Abdizhalilov, M. (*with* Yakhno, V. G.) A multidimensional inverse problem in a ray formulation for a system of Maxwell equations. (Russian. Russian summary) **93j:35180**
Bellout, Hamid (*with* Bloom, Frederick; Nečas, Jindřich) A model of wave propagation in a nonlinear superconducting dielectric. **93h:78010**
Besieris, Ioannis M. *see* **Ziolkowski, Richard W.; et al., 93j:78009**
Bloom, Frederick *see* **Bellout, Hamid; et al., 93h:78010**
Cramer, M. S. (*with* Sen, R.) A general scheme for the derivation of evolution equations describing mixed nonlinearity. **93f:35149**
De Bièvre, Stephan (*with* Pravica, D. W.) Spectral analysis for optical fibres and stratified fluids. II. Absence of eigenvalues. **93c:35114**
Dorren, H. J. S. (*with* Tip, A.) Maxwell's equations for nonsmooth media; fractal-shaped and pointlike objects. **93a:78007**
Grasselli, Maurizio An identification problem for an abstract linear hyperbolic integrodifferential equation with applications. (English summary) **93j:45008**
de Hoop, Adrianus T. Reciprocity, causality, and Huygens' principle in electromagnetic wave theory. **93d:78002**
Nečas, Jindřich *see* **Bellout, Hamid; et al., 93h:78010**
Nédélec, Jean-Claude (*with* Starling, F.) Integral equation methods in a quasi-periodic diffraction problem for the time-harmonic Maxwell's equations. **93a:35147**
Negro, Javier (*with* del Olmo, Mariano A.) Bundle realizations and invariant connections in an abelian principal bundle. **93e:53032**
del Olmo, Mariano A. *see* **Negro, Javier, 93e:53032**
Pravica, D. W. *see* **De Bièvre, Stephan, 93c:35114**
Sanders, J. Lyell, Jr. Note on some properties of wave source distributions. (English summary) **93j:35044**
Sen, R. *see* **Cramer, M. S., 93f:35149**
Shaarawi, Amr M. *see* **Ziolkowski, Richard W.; et al., 93j:78009**
Starling, F. *see* **Nédélec, Jean-Claude, 93a:35147**
Tip, A. *see* **Dorren, H. J. S., 93a:78007**
Yakhno, V. G. *see* **Abdizhalilov, M., 93j:35180**
Ziolkowski, Richard W. (*with* Besieris, Ioannis M.; Shaarawi, Amr M.) Aperture realizations of exact solutions to homogeneous-wave equations. (English summary) **93j:78009**
Zordan, Clara Wave generation at an interface. **93b:35062**

78A45 Diffraction, scattering [see also 34E20 for WKB methods]

Abdizhalilov, M. (*with* Yakhno, V. G.) A two-dimensional inverse dynamic problem for a system of Maxwell equations. (Russian. Russian summary) **93h:78008**
Abramova, I. V. (*with* Zakharov, E. V.) A numerical method for solving problems of the diffraction of electromagnetic waves by surfaces of revolution. (Russian. Russian summary) (*see* **93f:00006**)
Achdou, Yves Numerical optimization of a photocell. (English summary) **93j:78014**
Akduman, İbrahim *see* **İdemen, Mithat, 93k:78011**
Aksenov, V. P. Solution of the phase problem based on the Radon transformation of distributions. **93i:78008**
Angell, Thomas S. (*with* Kirsch, Andreas) The conductive boundary condition for Maxwell's equations. (English summary) **93k:78009**
Antyufeev, V. S. Direct and inverse problems of the radiation transfer in a vegetative cover. **93c:78008**
Arnold, J. M. Spectral methods in edge-diffraction theories. (English summary) **93k:78010**
Artola, Michel (*with* Cessenat, Michel) Diffraction d'une onde électromagnétique par une couche composite mince accolée à un corps conducteur épais. I. Cas des inclusions

fortement conductrices. (English summary) [Scattering of an electromagnetic wave by a slender composite slab in contact with a thick perfect conductor. I. Inclusions with high conductivity] **93c:78009**

— (*with* Cessenat, Michel) Diffraction d'une onde électromagnétique par une couche composite mince accolée à un corps conducteur épais. II. Cas d'inclusions (ou d'une couche) de forte permitivité et de forte perméabilité. (English summary) [Scattering of an electromagnetic wave by a slender composite slab in contact with a thick perfect conductor. II. Inclusions (or coated material) with high conductivity and high permeability] **93c:78010**

— (*with* Cessenat, Michel) Diffraction d'une onde électromagnétique par un obstacle borné à permittivité et perméabilité élevées. (English summary) [Diffraction of an electromagnetic wave by a bounded body with high permittivity and permeability] **93m:78012**

Athanasiadis, Christodoulos The low-frequency magnetic field of an electromagnetic scatterer with a perfectly conducting core. (English summary)

Balagur, A. A. (*with* Shcheglov, V. A.) Fraunhoffer diffraction in nonlinear media at supercritical radiation fields. (Russian) **93d:78005**

Belyaev, A. G. (*with* Mikheev, A. G.; Shamaev, A. S.) Plane wave diffraction by a rapidly oscillating surface. (Russian. Russian summary) **93m:78013**

Budaev, B. V. Diffraction of a plane electromagnetic wave by a wedge-like inclusion. (Russian) **93g:78017**

Buldyrev, V. S. (*with* Lyalinov, M. A.) Asymptotic theory of the reflection of electromagnetic radiation by moderately- and well-conducting bodies. (Russian. English and Russian summaries) **93j:78015**

Cessenat, Michel *see* **Artola, Michel, 93c:78009; 93c:78010** *and* **93m:78012**

Colton, David The inverse scattering problem for electromagnetic waves in an inhomogeneous medium. (English summary) (*see* **93k:00034**)

— (*with* Päivärinta, Lassi) The uniqueness of a solution to an inverse scattering problem for electromagnetic waves. **93h:78009**

Dautov, O. Sh. Equivalence of integral and integrofunctional equations in electrodynamical problems of diffraction by nonhomogeneous bodies. (Russian. English and Russian summaries) **93j:78016**

Di Marzio, Frank (*with* Szajman, Jakub) Mie scattering in the first-order corrected eikonal approximation.

Ducomet, B. (*with* Quang, D. Ha.) Diffusion électromagnétique à basse fréquence par un réseau de cylindres diélectriques: étude numérique. (English and French summaries) [Low-frequency electromagnetic scattering by a grating of dielectric cylinders: numerical study] **93g:78018**

Dudley, Donald G. *see* **Nabulsi, Khalid A., 93i:78009**

Farzan, Ruszlán H. Approximation of a three-dimensional singular integral equation. (Russian. Russian summary) **93m:78014**

Fel'd, Ya. N. Diffraction of electromagnetic waves by magnetodielectric bodies. (Russian) **93m:78015**

Feng, De Guang *see* **Wang, Gao Feng; et al., 93a:78018**

Fukuhara, Nobuhiko (*with* Higaki, Nobuo; Kuriyagawa, Akira) Mode-matching analysis of electromagnetic waves scattered by a rotating dielectric cylinder. (Japanese. English summary) **93f:78012**

Goncharskiĭ, A. V. (*with* Kolpakov, A. V.; Stepanov, Alekseĭ Alekseevich) ★ Обратные задачи рентгеновской дифрактометрии. (Russian. Russian summary) [Inverse problems of X-ray diffractometry] **93m:78016**

Grünbaum, F. Alberto (*with* Latham, Geoff A.; Zubelli, Jorge P.) An inverse problem for a model of scattered and diffused radiation. (*see* **93i:00020**)

Habashy, Tarek M. A generalized Gel'fand-Levitan-Marchenko integral equation. **93c:78011**

He, Sailing (*with* Ström, Staffan) The electromagnetic scattering problem in the time domain for a dissipative slab and a point source using invariant imbedding. **93a:78016**

— (*with* Ström, Staffan) The electromagnetic inverse problem in the time domain for a dissipative slab and a point source using invariant imbedding: reconstruction of the permittivity and conductivity. (English summary)

Helton, J. William *see* **Walker, Michael L., 93b:78007**

Higaki, Nobuo *see* **Fukuhara, Nobuhiko; et al., 93f:78012**

Hillion, Pierre T. M. Relativistic theory of scalar and vector diffraction by planar apertures. (English summary) **93g:78019**

Hou, Jie Chang *see* **Wang, Gao Feng; et al., 93a:78018**

Huang, Si Wen *see* **Ke, Heng Yu; et al., 93j:78017**

İdemen, Mithat (*with* Akduman, İbrahim) On inverse scattering problems related to cylindrical bodies with unknown orientations. (English summary) **93k:78011**

Jia, Bao Fu (*with* Lin, Wei Gan; Liu, Shu Zhang) A strong fluctuation theory and its development. (Chinese. English summary) **93a:78017**

Jung, H. K. *see* **Lu, I-Tai; et al., 93k:78013**

Kalinichenko, M. I. (*with* Polyakov, S. V.) Numerical methods for problems of the propagation of diffracting light beams in chemically active gases with thermal diffusion. (Russian. English and Russian summaries) **93g:78020**

Karlsson, Anders (*with* Kreider, K.; Kristensson, Gerhard) Wave splitting and imbedding equations for a spherically symmetric dispersive medium. (English summary) (*see* **93e:00023**)

Ke, Heng Yu (*with* Huang, Si Wen; Li, Wen Jun) A study of electromagnetic scattering from a dielectric-coated conducting cylinder. (English summary) **93j:78017**

Khaleeva, I. V. *see* **Zakharov, E. V., 93m:78017**

Khapalyuk, A. P. Diffraction of electromagnetic waves by the edge of an impedance half-plane. (Russian. English and Russian summaries)

Kirsch, Andreas *see* **Angell, Thomas S., 93k:78009**

Klibanov, M. V. (*with* Sacks, Paul E.) Phaseless inverse scattering and the phase problem in optics. (English summary) **93k:78012**

Kolpakov, A. V. *see* **Goncharskiĭ, A. V.; et al., 93m:78016**

Kotlyar, V. V. (*with* Nikolsky, I. V.; Soifer, V. A.) Digital-optical methods of microparticle ensemble analysis by its spatial spectrum. **93b:78005**

Kreider, K. *see* **Karlsson, Anders; et al., (93e:00023)**

Kress, Rainer (*with* Zinn, Axel) Three-dimensional reconstructions in inverse obstacle scattering. **93g:78021**

Kristensson, Gerhard (*with* Krueger, Robert John) Time domain inversion techniques for electromagnetic scattering problems. (English summary) **93g:78022**

— *see also* **Karlsson, Anders; et al., (93e:00023)**

Krueger, Robert John *see* **Kristensson, Gerhard, 93g:78022**

Kuriyagawa, Akira Integral equation approach to the scattering of electromagnetic waves from a rotating perfectly conducting cylinder. I. (Japanese. English summary) **93f:78013**

— *see also* **Fukuhara, Nobuhiko; et al., 93f:78012**

(Lakhtakia, Akhlesh) *see* **Field representations and introduction to scattering, 93j:78018**

Latham, Geoff A. *see* **Grünbaum, F. Alberto; et al., (93i:00020)**

Li, Wen Jun *see* **Ke, Heng Yu; et al., 93j:78017**

Lin, Wei Gan *see* **Jia, Bao Fu; et al., 93a:78017**

Liu, Shu Zhang *see* **Jia, Bao Fu; et al., 93a:78017**

Lu, I-Tai (*with* Jung, H. K.; Tsai, C. M.) Hybrid combinations of global and local operators for solving Helmholtz and Poisson equations. (English summary) **93k:78013**

Lyalinov, M. A. *see* **Buldyrev, V. S., 93j:78015**

Mikheev, A. G. *see* **Belyaev, A. G.; et al., 93m:78013**

Nabulsi, Khalid A. (*with* Dudley, Donald G.) On the interaction between the input signal and the singularity expansion method. (English summary) **93i:78009**

Nesenenko, G. A. Asymptotics of some integral operators as a generalization of the geometric theory of diffraction. The case of moving boundaries. (Russian) (*see* **93g:34001**)

Nikolsky, I. V. *see* **Kotlyar, V. V.; et al., 93b:78005**

Ozrin, V. D. Exact solution for coherent backscattering of polarized light from a random medium of Rayleigh scatterers. **93b:78006**

Päivärinta, Lassi *see* **Colton, David, 93h:78009**

Poedinchuk, A. E. (*with* Sirenko, Yu. K.; Shestopalov, V. P.) On the uniqueness of the solution of inverse problems in the electrodynamic theory of gratings. (Russian) **93k:78014**

Polyakov, S. V. *see* **Kalinichenko, M. I., 93g:78020**

Quang, D. Ha. *see* **Ducomet, B., 93g:78018**

Sacks, Paul E. *see* **Klibanov, M. V., 93k:78012**

Shamaev, A. S. *see* **Belyaev, A. G.; et al., 93m:78013**

Shcheglov, V. A. *see* **Balagur, A. A., 93d:78005**

Shepel'skiĭ, D. G. Characterization of the data of an inverse problem of electromagnetic sounding in a class of discontinuous functions. (Russian) **93g:78023**

Shestopalov, V. P. *see* **Poedinchuk, A. E.; et al., 93k:78014**

Sirenko, Yu. K. *see* **Poedinchuk, A. E.; et al., 93k:78014**

Soifer, V. A. *see* **Kotlyar, V. V.; et al., 93b:78005**

Stepanov, Alekseĭ Alekseevich *see* **Goncharskiĭ, A. V.; et al., 93m:78016**

Stoddart, Andrew J. An iterative method for scattering from rough dielectric or conducting interfaces. (English summary) **93f:78014**

Ström, Staffan *see* **He, Sailing, 93a:78016**

Sun, Zhiming Time domain direct scattering and inverse source problems. (English summary) (*see* **93e:00023**)

Szajman, Jakub *see* **Di Marzio, Frank**

Teymur, M. A comparative investigation of the surface radiation condition in electromagnetics. **93c:78012**

Tsai, C. M. *see* **Lu, I-Tai; et al., 93k:78013**

Turley, R. Steven *see* **Wandzura, Stephen M., 93g:78024**

(Varadan, V. K.) *see* **Field representations and introduction to scattering, 93j:78018**

(Varadan, V. V.) *see* **Field representations and introduction to scattering, 93j:78018**

Walker, Michael L. (*with* Helton, J. William) High frequency inverse scattering and the Luneberg-Kline asymptotic expansion. **93b:78007**

Wandzura, Stephen M. (*with* Turley, R. Steven) Variational improvements to scattering amplitude calculations. (English summary) **93g:78024**

Wang, Gao Feng (*with* Hou, Jie Chang; Feng, De Guang) The interaction of EM wave with dielectric bodies: hybrid equation finite element method. **93a:78018**

Yakhno, V. G. *see* **Abdizhalilov, M., 93h:78008**

Zakharov, E. V. (*with* Khaleeva, I. V.) Hypersingular integral equations of the first kind of problems of the diffraction of electromagnetic waves by nonclosed surfaces. (Russian. Russian summary) **93m:78017**

— *see also* **Abramova, I. V., (93f:00006)**

Zinn, Axel *see* **Kress, Rainer, 93g:78021**

Zubelli, Jorge P. *see* **Grünbaum, F. Alberto; et al., (93i:00020)**

Items listed otherwise than by author

Field representations and introduction to scattering ★ Field representations and introduction to scattering. **93j:78018**

Items with secondary classifications in 78A45

Bachelot, Alain (*with* Pujols, Agnès) Équations intégrales espace-temps pour le système de Maxwell. (English summary) [Time-dependent integral equations for the Maxwell system] **93a:65164**

Barkovskiĭ, L. M. *see* **Fo Tkhi Nguet Khang, 93a:78002**

Bottcher, C. *see* **Werby, Michael F.; et al., (93b:65002)**

Broadhead, M. K. *see* **Werby, Michael F.; et al., (93b:65002)**

Cadilhac, M. (*with* Petit, R.) On the diffraction problem in electromagnetic theory: a discussion based on concepts of functional analysis including an example of practical application. **93a:35117**

Chen, K. S. (*with* Fung, A. K.) A comparison between a frequency domain method and the standard moment method in surface scattering. (English summary) (*see* **93f:00014**)

Colton, David (*with* Kress, Rainer) ★ Inverse acoustic and electromagnetic scattering theory. **93j:35124**

Dobson, David C. Convergence of a reconstruction method for the inverse conductivity problem. **93c:35159**

Ducomet, B. Diffusion électromagnétique à basse fréquence par un réseau de cylindres diélectriques. (English and French summaries) [Low-frequency electromagnetic scattering by an array of dielectric cylinders] **93k:78008**

Dupuy, F. (*with* Sabatier, Pierre C.) Discontinuous media and underdetermined scattering problems. (English summary) **93g:35138**

Engheta, Nader (*with* Murphy, William D.; Rokhlin, Vladimir V.; Vassiliou, Marius S.) The fast multipole method (FMM) for electromagnetic scattering problems.

Erëmin, Yu. A. (*with* Sveshnikov, A. G.) Pattern recognition and synthesis problems in diffraction theory. (Russian. Russian summary) **93j:35052**
Fal'kovich, S. E. *see* **Volosyuk, V. K.; et al., 93e:78002**
Fo Tkhi Nguet Khang (*with* Barkovskiĭ, L. M.) Geometro-optic reflection and transmission operators for stratified anisotropic media. (Russian. English summary) **93a:78002**
Fung, A. K. *see* **Chen, K. S., (93f:00014)**
Glisson, A. W. Numerical solution of boundary integral equation formulations for electromagnetic scattering problems. (English summary) (*see* **93b:65002**)
He, Sailing (*with* Weston, Vaughan H.) Inverse problem for the dissipative wave equation in a stratified half-space and linearization of the imbedding equations. **93c:35161**
de Hoop, Adrianus T. Reciprocity, causality, and Huygens' principle in electromagnetic wave theory. **93d:78002**
Hopcraft, K. I. (*with* Smith, P. R.) ★ An introduction to electromagnetic inverse scattering. **93j:78002**
Janssen, A. J. E. M. (*with* Maes, M. J. J. B.) An optimization problem in reflector design. **93b:90112**
Jones, D. S. An improved surface radiation condition. **93a:76088**
Kargin, B. A. (*with* Rakimgulov, K. B.) A weighting Monte Carlo method for modelling the optical radiation field in the ocean-atmosphere system. **93c:65010**
Kevorkyants, S. S. Integral equations of electrodynamics in problems of diffraction by a bounded body in a layerwise nonhomogeneous anisotropic medium. (Russian. Russian summary) **93h:86005**
Kravchenko, V. F. *see* **Volosyuk, V. K.; et al., 93e:78002**
Kress, Rainer *see* **Colton, David, 93j:35124**
Kyurkchan, A. G. On the exact value of the radius of convergence of the Wilcox series. (Russian) **93h:78001**
Leon, Jérôme Jp. Integrable nonlinear boundary value problems. (English summary) **93i:81296**
Maes, M. J. J. J. B. *see* **Janssen, A. J. E. M., 93b:90112**
Meister, E. (*with* Santos, P. A.; Teixeira, F. S.) A Sommerfeld-type diffraction problem with second-order boundary conditions. (English and German summaries) **93j:35055**
Misici, L. (*with* Zirilli, Francesco) Three-dimensional time harmonic acoustic and electromagnetic inverse scattering in the resonance region. (English summary) **93m:65171**
Mukhlisov, F. G. The Green function of a singular problem in mathematical diffraction theory. (Russian) (*see* **93d:35001**)
Murphy, William D. *see* **Engheta, Nader; et al.**
(Murthy, M. K. V.) *see* **Nonlinear hyperbolic equations and field theory, 93d:35003**
Nédélec, Jean-Claude (*with* Starling, F.) Integral equation methods in a quasi-periodic diffraction problem for the time-harmonic Maxwell's equations. **93a:35147**
Nieto-Vesperinas, Manuel ★ Scattering and diffraction in physical optics. **93g:78016**
Petit, R. *see* **Cadilhac, M., 93a:35117**
Petkov, Vesselin M. (*with* Rangelov, Tsvyatko V.) Leading singularity of the scattering kernel for moving obstacles. **93c:35121**
Popov, I. Yu. The resonator with narrow slit and the model based on the operator extensions theory. (English summary) **93i:78007**
Popov, Yu. D. Modeling of a homogeneous and isotropic random field on the Lobachevskiĭ plane. (Russian. Russian summary)
Pujols, Agnès *see* **Bachelot, Alain, 93a:65164**
Rakimgulov, K. B. *see* **Kargin, B. A., 93c:65010**
Rangelov, Tsvyatko V. *see* **Petkov, Vesselin M., 93c:35121**
Reis, Maria Luiza (*with* Roberty, Nilson Costa) Maximum entropy algorithms for image reconstruction from projections. (English summary) **93f:65019**
Roberts, Thomas M. Causality theorems. (English summary) **93k:78006**
Roberty, Nilson Costa *see* **Reis, Maria Luiza, 93f:65019**
Rokhlin, Vladimir V. *see* **Engheta, Nader; et al.**
Sabatier, Pierre C. *see* **Dupuy, F., 93g:35138**
Samokhin, A. B. Diffraction of electromagnetic waves by a locally nonhomogeneous body, and singular integral equations. (Russian) **93d:35163**
Santos, P. A. *see* **Meister, E.; et al., 93j:35055**
Smith, P. R. *see* **Hopcraft, K. I., 93j:78002**
(Spagnolo, Sergio) *see* **Nonlinear hyperbolic equations and field theory, 93d:35003**
Starling, F. *see* **Nédélec, Jean-Claude, 93a:35147**
Strayer, M. R. *see* **Werby, Michael F.; et al., (93b:65002)**
Surnev, V. B. The Newton-Kantorovich algorithm in problems of diffraction tomography. (Russian)
Sveshnikov, A. G. *see* **Erëmin, Yu. A., 93j:35052**
Teixeira, F. S. *see* **Meister, E.; et al., 93j:35055**
Tourin, Agnès A comparison theorem for a piecewise Lipschitz continuous Hamiltonian and application to shape-from-shading problems. **93d:65064**
Vassiliou, Marius S. *see* **Engheta, Nader; et al.**
Volosyuk, V. K. (*with* Kravchenko, V. F.; Fal'kovich, S. E.) Optimization of estimates for spatially distributed parameters of electrodynamic models of surfaces in inverse interpretation problems of active remote sounding. (Russian) **93e:78002**
Werby, Michael F. (*with* Broadhead, M. K.; Strayer, M. R.; Bottcher, C.) Solution of the Helmholtz-Poincaré wave equation using the coupled boundary integral equations and optimal surface eigenfunctions. (English summary) (*see* **93b:65002**)
Weston, Vaughan H. *see* **He, Sailing, 93c:35161**
Zirilli, Francesco *see* **Misici, L., 93m:65171**

Items listed otherwise than by author

Lake Como ★ Nonlinear hyperbolic equations and field theory. **93d:35003**
Nonlinear hyperbolic equations and field theory ★ Nonlinear hyperbolic equations and field theory. **93d:35003**
Workshop:
Nonlinear Hyperbolic Equations and Field Theory ★ Nonlinear hyperbolic equations and field theory. **93d:35003**

78A50 Antennas, wave-guides

Adzhubei, L. T. (*with* Stukanev, I. I.) Minimax estimation of sound potential based on a signal from flat receiver antennas. (Russian. Russian summary)
Aslanidi, K. G. (*with* Modenov, V. P.) The projection sewing method in a problem on the joining of waveguides. (Russian) **93g:78025**
Bermúdez de Castro, Alfredo (*with* Pedreira, Dolores G.) A finite-element method for computing propagation modes in waveguides. (Spanish. English summary) (*see* **93j:00009**)
Choudhury, P. K. (*with* Khastgir, P.; Ojha, S. P.) A mathematically rigorous cutoff analysis of parabolic cylindrical waveguides. (English summary) **93j:78019**
Dahlen, F. A. *see* **Tromp, Jeroen, 93b:78009**
Khastgir, P. *see* **Choudhury, P. K.; et al., 93j:78019**
Lupini, R. (*with* Messia, M. G.) Phase-plane analysis of the modal structure of optical waves in nonlinear dielectric slabs. **93e:78003**
Messia, M. G. *see* **Lupini, R., 93e:78003**
Modenov, V. P. *see* **Aslanidi, K. G., 93g:78025**
Ojha, S. P. *see* **Choudhury, P. K.; et al., 93j:78019**
Pedreira, Dolores G. *see* **Bermúdez de Castro, Alfredo, (93j:00009)**
Reeve, D. E. (*with* Spivack, Mark) Numerical solution of the second moment equation for waves in an inhomogeneous waveguide. **93b:78008**
Spivack, Mark *see* **Reeve, D. E., 93b:78008**
Stukanev, I. I. *see* **Adzhubei, L. T.**
Tromp, Jeroen (*with* Dahlen, F. A.) The Berry phase of a slowly varying waveguide. **93b:78009**
Wood, Alastair D. Exponential asymptotics and spectral theory for curved optical waveguides. (*see* **93i:00016**)

Items with secondary classifications in 78A50

Angell, Thomas S. (*with* Kirsch, Andreas) Multicriteria optimization in antenna design. (English summary) **93h:90078**
Bykov, A. A. (*with* Sveshnikov, A. G.; Trubetskov, M. K.) Application of the incomplete Galerkin method for calculating eigenwaves in open wave guides. (Russian) **93a:78001**
Kirsch, Andreas *see* **Angell, Thomas S., 93h:90078**
Parker, David F. *see* **Ryder, E., 93m:78011**
Popov, I. Yu. The resonator with narrow slit and the model based on the operator extensions theory. (English summary) **93i:78007**
Ryder, E. (*with* Parker, David F.) Coupled evolution equations for axially inhomogeneous optical fibres. (English summary) **93m:78011**
Silbergleit, Alexander Samuel ★ Низкочастотная асимптотика бегущих волн линейного регулярного волновода. (Russian) [Low-frequency asymptotics of traveling waves of a linear regular wave guide] **93i:35097**
Starkov, A. S. Direct and inverse mode scattering problems in a waveguide with an uneven boundary. (Russian. English summary) **93c:35125**
Sveshnikov, A. G. *see* **Bykov, A. A.; et al., 93a:78001**
Trillo, S. (*with* Wabnitz, S.) Nonlinear modulation of coupled waves in birefringent optical fibers. **93b:78015**
Trubetskov, M. K. *see* **Bykov, A. A.; et al., 93a:78001**
Wabnitz, S. *see* **Trillo, S., 93b:78015**

78A55 Technical applications

Antimirov, M. Ya. (*with* Kolyshkin, A. A.; Vaillancourt, Rémi) Solution of direct asymmetric problems in eddy current testing by a perturbation method. (English and French summaries) **93k:78015**
Argoul, F. *see* **Arneodo, Alain; et al., (93e:00031)**
Arneodo, Alain (*with* Argoul, F.; Muzy, J. F.; Pouligny, B.; Freysz, E.) The optical wavelet transform. (*see* **93e:00031**)
Belyanin, M. P. (*with* Kalachëv, L. V.; Mamontov, E. V.) Application of the boundary function method for computing some semiconductor devices. (Russian. English summary) **93b:78010**
Cimatti, Giovanni Note on the theory of temperature dependent resistors. (English summary) **93g:78026**
Clack, R. *see* **Defrise, M.; et al., 93k:78016**
Defrise, M. (*with* Clack, R.; Townsend, Douglas W.) Solution to the three-dimensional image reconstruction problem from two-dimensional parallel projections. (English summary) **93k:78016**
Flesher, G. I. *see* **Zhukova, I. N.**
Freysz, E. *see* **Arneodo, Alain; et al., (93e:00031)**
Gushchin, I. S. On a method for computing high-frequency discharge. (Russian. Russian summary) **93m:78018**
Kalachëv, L. V. (*with* Obukhov, I. A.) Asymptotic behavior of a solution of the Poisson equation for a semiconductor structure in an external field. (Russian. English summary) **93b:78011**
— *see also* **Belyanin, M. P.; et al., 93b:78010**
Karamzin, Yu. N. *see* **Zakharova, I. G.; et al.**
Kolyshkin, A. A. *see* **Antimirov, M. Ya.; et al., 93k:78015**
Lim, Chjan C. (*with* Pimbley, J. M.; Schmeiser, C.; Schwendeman, D. W.) Rotating waves for semiconductor inverter rings. **93b:78012**
Mamontov, E. V. *see* **Belyanin, M. P.; et al., 93b:78010**
Muzy, J. F. *see* **Arneodo, Alain; et al., (93e:00031)**
Obukhov, I. A. *see* **Kalachëv, L. V., 93b:78011**
Pimbley, J. M. *see* **Lim, Chjan C.; et al., 93b:78012**
Pouligny, B. *see* **Arneodo, Alain; et al., (93e:00031)**
Razali, Mohamad Rashidi Conformal modules and capacitance of a transmission line. (*see* **93b:00022**)
Schmeiser, C. *see* **Lim, Chjan C.; et al., 93b:78012**
Schwendeman, D. W. *see* **Lim, Chjan C.; et al., 93b:78012**
Townsend, Douglas W. *see* **Defrise, M.; et al., 93k:78016**
Trofimov, V. A. *see* **Zakharova, I. G.; et al.**
Vaillancourt, Rémi *see* **Antimirov, M. Ya.; et al., 93k:78015**
Zakharova, I. G. (*with* Karamzin, Yu. N.; Trofimov, V. A.) Numerical modeling of thermal self-action of scanned light pulses. (Russian. English and Russian summaries)

Zhukova, I. N. (*with* Flesher, G. I.) An electromagnetic field of a linear current pulse. (Russian)

Zikatanov, L. T. A modified Galerkin-Petrov method for modeling semiconductor devices on the basis of the finite element method. (Russian. Russian summary) **93m:78019**

Items with secondary classifications in 78A55

Achdou, Yves Numerical optimization of a photocell. (English summary) **93j:78014**

Akhmediev, N. N. (*with* Ankiewicz, Adrian) Novel soliton states and bifurcation phenomena in nonlinear fiber couplers. (English summary) **93k:35224**

Alabau, Fatiha Comportement de la courbe caractéristique potentiel appliqué-courant d'une diode en polarisation inverse et directe. (English summary) [Behavior of the characteristic voltage-current curve of reverse and forward biased diodes] **93d:82086**

Allegretto, W. (*with* Xie, Hong) Existence of solutions for the time-dependent thermistor equations. **93d:35165**

Ankiewicz, Adrian *see* **Akhmediev, N. N., 93k:35224**

Antyufeev, V. S. Direct and inverse problems of the radiation transfer in a vegetative cover. **93c:78008**

Baccarani, G. *see* **Ventura, D.; et al., 93f:82067**

Beissner, R. E. Boundary element simulation of eddy current inspection. (English summary) (*see* **93b:65002**)

Breedveld, P. C. *see* **Maschke, B. M.; et al., 93k:70022**

Brichau, F. (*with* Deconinck, J.) A numerical model coupling galvanic corrosion and ohmic voltage drop in buried pipelines. (English summary) (*see* **93b:65002**)

Brooks, Michael J. (*with* Chojnacki, Wojciech; Kozera, Ryszard) Circularly symmetric eikonal equations and nonuniqueness in computer vision. **93f:35225**

Buldyrev, V. S. (*with* Lyalinov, M. A.) Asymptotic theory of the reflection of electromagnetic radiation by moderately- and well-conducting bodies. (Russian. English and Russian summaries) **93j:78015**

Bun′, R. A. (*with* Vasil′ev, E. D.; Semotyuk, V. N.) ★ Моделирование электрических цепей методом подсхем. (Russian. Russian summary) [Modeling electrical circuits by the subscheme method] **93m:94050**

Burtseva, M. N. A weighted algorithm for solving a system of nonlinear Boltzmann equations for a many-valley semiconductor. (Russian. English and Russian summaries) **93h:82081**

Cheney, Margaret (*with* Isaacson, David) Invariant imbedding, layer-stripping, and impedance imaging. (*see* **93e:00023**)

Chojnacki, Wojciech *see* **Brooks, Michael J.; et al., 93f:35225**

Cockburn, Bernardo (*with* Triandaf, Ioana) Convergence of a finite element method for the drift-diffusion semiconductor device equations: the zero diffusion case. **93f:65080**

Cumberbatch, Ellis *see* **Fang, Wei Fu, 93f:35049**

Darling, James P. (*with* Mayergoyz, Isaak D.) Data parallel algorithms for the numerical modeling of semiconductor devices. (English summary) (*see* **93g:65178**)

Deconinck, J. *see* **Brichau, F., (93b:65002)**

Dmitruk, Pablo (*with* Saúl, Andrés; Reyna, Luis G.) High electric field approximation to charge transport in semiconductor devices. **93f:82041**

Drits, V. V. Numerical methods for investigating the effects of self-action of ultrashort light pulses in resonant media. (Russian. English summary) **93b:78001**

Engl, Heinz W. (*with* Isakov, Victor) On the identifiability of steel reinforcement bars in concrete from magnetostatic measurements. (English summary) **93g:78010**

Erofeenko, V. T. (*with* Kozlovskaya, I. S.) Integral equations in problems of screening electromagnetic fields for cylindrical bodies. (Russian. Russian summary) **93g:45007**

Erzhanov, R. Zh. (*with* Matsevityi, Yu. M.; Sultangazin, U. M.; Sheryshev, V. P.) ★ Сосредоточенная емкость в задачах теплофизики и микроэлектроники. (Russian. Russian and Ukrainian summaries) [Concentrated capacity in problems of thermophysics and micro-electronics] **93m:80007**

Fang, Wei Fu (*with* Cumberbatch, Ellis) Inverse problems for metal oxide semiconductor field-effect transistor contact resistivity. **93f:35049**

Fowler, A. C. (*with* Frigaard, I.; Howison, Sam D.) Temperature surges in current-limiting circuit devices. **93c:80005**

Frigaard, I. *see* **Fowler, A. C.; et al., 93c:80005**

Gnudi, A. *see* **Ventura, D.; et al., 93f:82067**

Gomozov, V. I. *see* **Mitropol′skii, Yu. A.; et al., 93d:34067**

Goncharskii, A. V. (*with* Kolpakov, A. V.; Stepanov, Aleksei Alekseevich) ★ Обратные задачи рентгеновской дифрактометрии. (Russian. Russian summary) [Inverse problems of X-ray diffractometry] **93m:78016**

Grønbech-Jensen, Niels (*with* Malomed, B. A.; Samuelsen, Mogens R.) Stability of breathers in the ac-driven sine-Gordon system.

Gudkov, V. V. Solvability of a boundary value problem for a one-dimensional model of a semiconductor device. (Russian. English, Russian and Latvian summaries) **93f:34040**

— Existence and uniqueness of a solution of a boundary value problem for a drift-diffusion one-dimensional model of a semiconductor device. (Russian) **93c:34053**

Guo, Ben Yu (*with* Miller, John J. H.) Iterative and Petrov-Galerkin methods for a nonlinear two-point boundary value problem with application to semiconductor devices. (*see* **93b:65006**)

Henrot, Antoine (*with* Pierre, Michel) About critical points of the energy in an electromagnetic shaping problem. **93k:49035**

Hoffmann, T. Surface effects in generalized phenomenological electrodynamics. (Russian and Polish summaries) **93c:78006**

Hooshyar, M. A. (*with* Tamil, Lakshman S.) Inverse scattering theory and the design of planar optical waveguides with the same propagation constants for different frequencies. (English summary) **93k:78001**

Howison, Sam D. *see* **Fowler, A. C.; et al., 93c:80005**

Isaacson, David *see* **Cheney, Margaret, (93e:00023)**

Isakov, Victor *see* **Engl, Heinz W., 93g:78010**

Janssen, A. J. E. M. On the asymptotics of some Pearcey-type integrals. **93f:41047**

Jerome, Joseph W. Evolution systems in semiconductor device modeling: a cyclic uncoupled line analysis for the Gummel map. (English summary) **93i:82087**

Kaschiev, M. S. *see* **Zikatanov, L. T., 93a:65131**

Kaup, D. J. (*with* Malomed, B. A.) The resonant three-wave interaction in an inhomogeneous medium. (English summary) **93h:35198**

Kevorkyants, S. S. Integral equations of electrodynamics in problems of diffraction by a bounded body in a layerwise nonhomogeneous anisotropic medium. (Russian. Russian summary) **93h:86005**

King, John Robert Surface-concentration-dependent nonlinear diffusion. **93b:35067**

Kolpakov, A. V. *see* **Goncharskii, A. V.; et al., 93m:78016**

Kopisz, M. Coupled fields in a piezoelectric body. **93i:73044**

Kotlyar, V. V. (*with* Nikolsky, I. V.; Soifer, V. A.) Digital-optical methods of microparticle ensemble analysis by its spatial spectrum. **93b:78005**

Kozera, Ryszard *see* **Brooks, Michael J.; et al., 93f:35225**

Kozlovskaya, I. S. *see* **Erofeenko, V. T., 93g:45007**

Kravtsova, L. V. (*with* Plotkin, Ya. D.; Smyshlyaeva, L. G.) On the theory of optimization with respect to a probability criterion and its use in calculating the output percentage of nondefective semiconductor devices. (Russian) (*see* **93m:00035**)

Krivosheya, S. A. A generalization of a problem of A. A. Vitt. (Ukrainian. Russian and Ukrainian summaries) **93d:35091**

Loshakov, V. A. *see* **Mitropol′skii, Yu. A.; et al., 93d:34067**

Lyalinov, M. A. *see* **Buldyrev, V. S., 93j:78015**

Malomed, B. A. *see* **Kaup, D. J., 93h:35198** *and* **Grønbech-Jensen, Niels; et al.**

Martínez-Gamba, Irene Stationary transonic solutions of a one-dimensional hydrodynamic model for semiconductors. **93f:35186**

Maschke, B. M. (*with* van der Schaft, A. J.; Breedveld, P. C.) An intrinsic Hamiltonian formulation of network dynamics: nonstandard Poisson structures and gyrators. (English summary) **93k:70022**

Matsevityi, Yu. M. *see* **Erzhanov, R. Zh.; et al., 93m:80007**

Mayergoyz, Isaak D. *see* **Darling, James P., (93g:65178)**

Miller, John J. H. (*with* Wang, Song; Wu, Chang Hui) A mixed finite element method for the stationary semiconductor continuity equations. (*see* **93b:65007**)

— *see also* **Guo, Ben Yu, (93b:65006)**

Mitropol′skii, Yu. A. (*with* Gomozov, V. I.; Loshakov, V. A.; Yatsyuk, V. T.) Problems in the theory of frequency-controllable autogenerators. (Russian. Russian summary) **93d:34067**

Nachaoui, Abdeljalil (*with* Nassif, Nabil R.) On the uniqueness of the solution to the drift-diffusion model in semiconductor analysis. (English summary) **93k:82067**

Nassif, Nabil R. *see* **Nachaoui, Abdeljalil, 93k:82067**

Nikolsky, I. V. *see* **Kotlyar, V. V.; et al., 93b:78005**

Odeh, Farouk *see* **Ventura, D.; et al., 93f:82067**

Pierre, Michel *see* **Henrot, Antoine, 93k:49035**

Plotkin, Ya. D. *see* **Kravtsova, L. V.; et al., (93m:00035)**

Reyna, Luis G. *see* **Dmitruk, Pablo; et al., 93f:82041**

Ruth, R. D. *see* **Warnock, R. L., 93g:58112**

Samuelsen, Mogens R. *see* **Grønbech-Jensen, Niels; et al.**

Saúl, Andrés *see* **Dmitruk, Pablo; et al., 93f:82041**

van der Schaft, A. J. *see* **Maschke, B. M.; et al., 93k:70022**

Scherzer, Otmar The use of Tikhonov regularization in the identification of electrical conductivities from overdetermined boundary data. (English summary) **93h:35214**

Segeth, Karel MLAT solutions to the nonlinear Poisson equation in semiconductor device models. (*see* **93b:65007**)

Semotyuk, V. N. *see* **Bun′, R. A.; et al., 93m:94050**

Sheryshev, V. P. *see* **Erzhanov, R. Zh.; et al., 93m:80007**

Smyshlyaeva, L. G. *see* **Kravtsova, L. V.; et al., (93m:00035)**

Soifer, V. A. *see* **Kotlyar, V. V.; et al., 93b:78005**

Stepanov, Aleksei Alekseevich *see* **Goncharskii, A. V.; et al., 93m:78016**

Sultangazin, U. M. *see* **Erzhanov, R. Zh.; et al., 93m:80007**

Tamil, Lakshman S. *see* **Hooshyar, M. A., 93k:78001**

Triandaf, Ioana *see* **Cockburn, Bernardo, 93f:65080**

Vasil′ev, E. D. *see* **Bun′, R. A.; et al., 93m:94050**

Ventura, D. (*with* Gnudi, A.; Baccarani, G.; Odeh, Farouk) Multidimensional spherical harmonics expansion of Boltzmann equation for transport in semiconductors. **93f:82067**

Wang, Song *see* **Miller, John J. H.; et al., (93b:65007)**

Warnock, R. L. (*with* Ruth, R. D.) Long-term bounds on nonlinear Hamiltonian motion. **93g:58112**

Wu, Chang Hui *see* **Miller, John J. H.; et al., (93b:65007)**

Xie, Hong *see* **Allegretto, W., 93d:35165**

Yatsyuk, V. T. *see* **Mitropol′skii, Yu. A.; et al., 93d:34067**

Zikatanov, L. T. (*with* Kaschiev, M. S.) ★ Метод конечных элементов для моделирования полупроводниковых приборов. (Russian) [The finite-element method for modeling semiconductor devices] **93a:65131**

78A60 Lasers, masers, optical bistability, nonlinear optics [see also 81V80]

Bakasov, A. A. A dynamic model of a single-mode laser. I. The regime of stable stationary generation. (Russian. English summary) **93b:78013**

Bellout, Hamid (*with* Bloom, Frederick; Nečas, Jindřich) A model of wave propagation in a nonlinear superconducting dielectric. **93h:78010**

Bloom, Frederick *see* **Bellout, Hamid; et al., 93h:78010**

Camassa, Roberto (*with* Forest, M. Gregory; Knapp, Robert) Enhancement of optical bistability by periodic layering. **93b:78014**

Forest, M. Gregory *see* **Camassa, Roberto; et al., 93b:78014**

Holm, Darryl D. (*with* Kovačič, Gregor) Homoclinic chaos in a laser-matter system. **93c:78013**

Knapp, Robert *see* **Camassa, Roberto; et al., 93b:78014**

Kovačič, Gregor *see* **Holm, Darryl D., 93c:78013**

Kowarz, Marek W. (*with* Wolf, Emil) Conservation laws for partially coherent free fields. (English summary) **93j:78020**

Kruglov, V. I. (*with* Logvin, Yu. A.; Volkov, V. M.) The theory of spiral laser beams in nonlinear media. (English summary) **93j:78021**

Logvin, Yu. A. *see* **Kruglov, V. I.; et al., 93j:78021**

Mihalache, D. (*with* Panoiu, N. C.) Exact solutions of nonlinear Schrödinger equation for positive group velocity dispersion. **93h:78011**

Moloney, Jerome V. *see* **Newell, Alan C., 93i:78010**
Mukunda, N. *see* **Simon, Rajiah, 93j:78022**
Nečas, Jindřich *see* **Bellout, Hamid; et al., 93h:78010**
Newell, Alan C. (*with* Moloney, Jerome V.) ★ Nonlinear optics. **93i:78010**
Panoiu, N. C. *see* **Mihalache, D., 93h:78011**
Simon, Rajiah (*with* Mukunda, N.) Twisted Gaussian Schell-model beams. (English summary) **93j:78022**
Trillo, S. (*with* Wabnitz, S.) Nonlinear modulation of coupled waves in birefringent optical fibers. **93b:78015**
Volkov, V. M. *see* **Kruglov, V. I.; et al., 93j:78021**
Wabnitz, S. *see* **Trillo, S., 93b:78015**
Wolf, Emil *see* **Kowarz, Marek W., 93j:78020**
Yugai, K. N. Excitation of dynamic chaos in a biharmonic field. (Russian. Russian summary) **93i:78011**

Items with secondary classifications in 78A60

Bass, F. G. (*with* Vekslerchik, V. E.; Konotop, V. V.; Puzenko, S. A.) The effect of higher-order dispersion on the dynamics of a dark soliton in the nonlinear Schrödinger equation. (Russian. English, Russian and Ukrainian summaries) **93k:35239**
David, D. (*with* Holm, Darryl D.) Multiple Lie-Poisson structures, reductions, and geometric phases for the Maxwell-Bloch travelling wave equations. **93e:58060**
Dodd, R. K. (*with* Moon, S. J.) A shifted analytic map. **93a:58120**
Drits, V. V. Conservative difference schemes in problems of nonlinear optics. II. (Russian. Russian summary) **93j:65134**
Fokas, A. S. *see* **Santini, Paolo Maria,** (**93b:00012**)
Holm, Darryl D. *see* **David, D., 93e:58060**
Kalachëv, L. V. (*with* Obukhov, I. A.) Asymptotic behavior of a solution of the Poisson equation in a model of a three-dimensional semiconductor structure. (Russian. Russian summary) **93h:78006**
Konotop, V. V. *see* **Bass, F. G.; et al., 93k:35239**
McLeod, J. Bryce (*with* Stuart, Charles A.; Troy, William C.) An exact reduction of Maxwell's equations. **93i:34041**
Meinel, Reinhard (*with* Neugebauer, Gernot; Steudel, Heinz) ★ Solitonen. (German) [Solitons] **93j:35001**
Moon, S. J. *see* **Dodd, R. K., 93a:58120**
Neugebauer, Gernot *see* **Meinel, Reinhard; et al., 93j:35001**
Obukhov, I. A. *see* **Kalachëv, L. V., 93h:78006**
Parker, David F. *see* **Ryder, E., 93m:78011**
Puzenko, S. A. *see* **Bass, F. G.; et al., 93k:35239**
Ryder, E. (*with* Parker, David F.) Coupled evolution equations for axially inhomogeneous optical fibres. (English summary) **93m:78011**
Santini, Paolo Maria (*with* Fokas, A. S.) An initial-boundary value problem for the Davey-Stewartson 1 equation and coherent structures in multidimensions. (*see* **93b:00012**)
Steudel, Heinz *see* **Meinel, Reinhard; et al., 93j:35001**
Stuart, Charles A. *see* **McLeod, J. Bryce; et al., 93i:34041**
Troy, William C. *see* **McLeod, J. Bryce; et al., 93i:34041**
Vekslerchik, V. E. *see* **Bass, F. G.; et al., 93k:35239**

78A70 Biological applications [see also 92C30, 92J30]

Alabau, Fatiha A method for proving uniqueness theorems for the stationary semiconductor device and electrochemistry equations. **93d:78006**

Items with secondary classifications in 78A70

Cheney, Margaret (*with* Isaacson, David) Invariant imbedding, layer-stripping, and impedance imaging. (*see* **93e:00023**)
— *see also* **Somersalo, Erkki; et al., 93f:35052**
Isaacson, David *see* **Somersalo, Erkki; et al., 93f:35052** *and* **Cheney, Margaret,** (**93e:00023**)
Somersalo, Erkki (*with* Cheney, Margaret; Isaacson, David) Existence and uniqueness for electrode models for electric current computed tomography. **93f:35052**

78A99 Miscellaneous topics

Afanas'ev, V. A. (*with* Kravchenko, V. F.; Rvachëv, V. A.; Rvachëv, V. L.) Optimal finite windows for the reconstruction of images. (Russian) **93b:78016**
Chen, Han-lin (*with* Schempp, Walter) The uncertainty inequality in quantum holography, Bohr's indeterminacy principle, and synchronized neural networks. (English summary) (*see* **93k:26001**)
Galimov, A. A. Mathematical modeling of electric fields and mass transport processes in electrochemical systems. (Russian) (*see* **93m:00033**)
Kravchenko, V. F. *see* **Afanas'ev, V. A.; et al., 93b:78016**
Rvachëv, V. A. *see* **Afanas'ev, V. A.; et al., 93b:78016**
Rvachëv, V. L. *see* **Afanas'ev, V. A.; et al., 93b:78016**
Schempp, Walter *see* **Chen, Han-lin,** (**93k:26001**)

Items with secondary classifications in 78A99

Ambrosio, Luigi (*with* Tortorelli, V. M.) On the approximation of free discontinuity problems. (Italian summary) **93e:49010**
Antontsev, S. N. (*with* Chipot, Michel) Existence, stability and blowup of the solution of the thermistor problem. (Russian) **93k:35247**
(Avellaneda, Marco) *see* **Lafarge, Denis, 93k:76111**
Barcilon, Victor Ion flow through narrow membrane channels. I. (English summary) **93m:92007**
— (*with* Chen, D.-P.; Eisenberg, R. S.) Ion flow through narrow membrane channels. II. (English summary) **93m:92008**
Benveniste, Yakov (*with* Dvorak, George J.) Uniform fields and universal relations in piezoelectric composites. (English summary) **93g:73101**
Boulanger, Ph. Propagation of small-amplitude waves in a deformed hemitropic dielectric. **93a:73069**
Brokate, Martin On the moving Preisach model. **93d:47130**
Chen, D.-P. *see* **Barcilon, Victor; et al., 93m:92008**
Chipot, Michel *see* **Antontsev, S. N., 93k:35247**
Clarkson, Peter A. Dimensional reductions and exact solutions of a generalized nonlinear Schrödinger equation. **93f:35212**
Dattoli, G. (*with* Mari, C.; Richetta, M.; Torre, Amalia) On the generalized Twiss parameters and Courant-Snyder invariant in classical and quantum optics. **93b:81318**
Drits, V. V. Methods for constructing conservative difference schemes for nonlinear quasi-optic problems. (Russian) **93b:65124**
Dvorak, George J. *see* **Benveniste, Yakov, 93g:73101**
Dyachenko, S. (*with* Newell, Alan C.; Pushkarev, A.; Zakharov, V. E.) Optical turbulence: weak turbulence, condensates and collapsing filaments in the nonlinear Schrödinger equation. **93c:76050**
Eisenberg, R. S. *see* **Barcilon, Victor; et al., 93m:92008**
Gachkevich, A. R. ★ Термомеханика электропроводных тел при воздействии квазиустановившихся электромагнитных полей. (Russian. Russian summary) [The thermomechanics of electroconducting bodies under the effect of quasisteady electromagnetic fields] **93k:73072**
Gajewski, H. (*with* Sommrey, J.) On the uniqueness of solutions of van Roosbroeck equations. **93a:34036**
Garcia de Andrade, L. C. Torsion, superconductivity, and massive electrodynamics. **93b:82087**
Janicki, Aleksander *see* **Weron, K., (93a:60004)**
Kozorez, V. V. (*with* Krashanitsa, Yu. A.; Rashkovan, V. M.) ★ Законы сохранения и граничные задачи управления в магнитном поле. (Russian. Russian summary) [Conservation laws and boundary control problems in a magnetic field] **93m:76074**
Krashanitsa, Yu. A. *see* **Kozorez, V. V.; et al., 93m:76074**
Krisch, Jean P. *see* **Smalley, Larry L., 93f:83074**
Kurbanov, I. O. Solvability of nonlinear boundary value problems of electromagnetoelasticity with memory. (Russian. Tajiki summary) **93f:73088**
Lafarge, Denis Comments on: "Rigorous link between fluid permeability, electrical conductivity, and relaxation times for transport in porous media" [Phys. Fluids A **3** (1991), no. 11, 2529–2540; MR 92j:76090] by M. Avellaneda and S. Torquato. (English summary) **93k:76111**
Majda, Andrew J. The interaction of nonlinear analysis and modern applied mathematics. **93g:35003b**
— The interaction of nonlinear analysis and modern applied mathematics. **93g:35003a**
Mari, C. *see* **Dattoli, G.; et al., 93b:81318**
Martínez-Gamba, Irene Boundary-layer formation for viscosity approximations in transonic flow. **93b:76051**
Mazurov, M. E. On the identification of nonlinear systems by the "fixed voltage" method (from a series of responses to input actions). (Russian) **93h:93021**
Newell, Alan C. *see* **Dyachenko, S.; et al., 93c:76050**
Pushkarev, A. *see* **Dyachenko, S.; et al., 93c:76050**
Rashkovan, V. M. *see* **Kozorez, V. V.; et al., 93m:76074**
Richetta, M. *see* **Dattoli, G.; et al., 93b:81318**
Romano, Antonio (*with* Şuhubi, Erdoğan S.) Structure of Weiss domains in ferroelectric crystals. (English summary) **93h:82078**
Schulgasser, K. Relationships between the effective properties of transversely isotropic piezoelectric composites. **93a:73062**
Smalley, Larry L. (*with* Krisch, Jean P.) Minimal coupling of electromagnetic field in Riemann-Cartan spacetime for perfect fluids. **93f:83074**
Sommrey, J. *see* **Gajewski, H., 93a:34036**
Stoker, J. J. ★ Nonlinear vibrations in mechanical and electrical systems. **93c:34084**
Şuhubi, Erdoğan S. *see* **Romano, Antonio, 93h:82078**
(Torquato, S.) *see* **Lafarge, Denis, 93k:76111**
Torre, Amalia *see* **Dattoli, G.; et al., 93b:81318**
Tortorelli, V. M. *see* **Ambrosio, Luigi, 93e:49010**
Weron, K. (*with* Janicki, Aleksander) A fractal time model for non-Debye relaxation in polar dielectrics. (*see* **93a:60004**)
Zakharov, V. E. *see* **Dyachenko, S.; et al., 93c:76050**

80–XX Classical thermodynamics, heat transfer {For thermodynamics of solids, see 73B30.}

80–01 Instructional exposition (textbooks, tutorial papers, etc.)

Items with secondary classifications in 80–01

Beck, J. V. (*with* Cole, K. D.; Haji-Sheikh, A.; Litkouhi, B.) ★ Heat conduction using Green's functions. **93g:80005**
Cole, K. D. *see* **Beck, J. V.; et al., 93g:80005**
Haji-Sheikh, A. *see* **Beck, J. V.; et al., 93g:80005**
(Jäger, Eberhard) *see* **Lifshits, E. M., 93b:00001b**
(Lenk, Richard) *see* **Lifshits, E. M., 93b:00001b**
Lifshits, E. M. (*with* Pitaevskiĭ, L. P.) ★ Lehrbuch der theoretischen Physik ("Landau-Lifschitz"). Band V. (German) [Textbook of theoretical physics ("Landau-Lifschitz"). Vol. V] **93b:00001b**
Litkouhi, B. *see* **Beck, J. V.; et al., 93g:80005**
Pitaevskiĭ, L. P. *see* **Lifshits, E. M., 93b:00001b**
(Ziesche, Paul) *see* **Lifshits, E. M., 93b:00001b**

80–02 Research exposition (monographs, survey articles)

Items with secondary classifications in 80–02

Buckmaster, John The structure and stability of laminar flames. **93k:80013**
Ebeling, Werner (*with* Engel-Herbert, H.; Herzel, Hans-Peter) ★ Selbstorganisation in der Zeit. (German) [Self-organization in time] **93d:00019**
Engel-Herbert, H. *see* **Ebeling, Werner; et al., 93d:00019**
Herzel, Hans-Peter *see* **Ebeling, Werner; et al., 93d:00019**
Mackey, Michael C. ★ Time's arrow: the origins of thermodynamic behavior. **93a:82003**

80–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 80–03

Bierhalter, Günter Von L. Boltzmann bis J. J. Thomson: die Versuche einer mechanischen Grundlegung der Thermodynamik (1866–1890). [From L. Boltzmann to J. J. Thomson: attempts at a mechanical foundation of thermodynamics (1866–1890)] **93d:01028**
(Brenner, Anastasios) *see* **Duhem, Pierre-Maurice-Marie, 93k:01089**
(Clausius, Rudolf) *see* **Tarsitani, Carlo, 93b:01028**
Cuevas, S. *see* **López de Haro, M.; et al.**
Duhem, Pierre-Maurice-Marie ★ L'évolution de la mécanique. (French) [The evolution of mechanics] **93k:01089**
(Germain, Paul) *see* **Duhem, Pierre-Maurice-Marie, 93k:01089**
López de Haro, M. (*with* del Río, J. A.; Vázquez, F.; Cuevas, S.) On the contribution of the Mexican school to extended irreversible thermodynamics. (English and Spanish summaries)
(Mach, Ernst) *see* **Duhem, Pierre-Maurice-Marie, 93k:01089**
del Río, J. A. *see* **López de Haro, M.; et al.**
Sebastiani, Fabio Quantification of heat. (Italian summary) **93d:01004**
Tarsitani, Carlo Heat physics in the work of Rudolf Clausius. (Italian. English summary) **93b:01028**
Vázquez, F. *see* **López de Haro, M.; et al.**

80–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 80–04

Billingham, J. (*with* Needham, D. J.) The development of travelling waves in quadratic and cubic autocatalysis with unequal diffusion rates. II. An initial value problem with an immobilized or nearly immobilized autocatalyst. **93a:80012**
Needham, D. J. *see* **Billingham, J., 93a:80012**
Saldanha da Gama, Rogério Martins Simulation of the steady-state energy transfer in rigid bodies, with convective/radiative boundary conditions, employing a minimum principle. **93a:80005**

80–06 Proceedings, conferences, collections, etc.

(Giaquinta, Paolo V.) *see* **Proceedings: Conference on Thermodynamics, 93k:80001**
(Liu, Shu Yi) *see* **Progress in physical chemistry and mechanics, 93h:80001**
(Liu, Xiao Chun) *see* **Progress in physical chemistry and mechanics, 93h:80001**
(Onofri, M.) *see* **Fluid dynamical aspects of combustion theory, 93f:80001**
(Tesei, Alberto) *see* **Fluid dynamical aspects of combustion theory, 93f:80001**
(Vicentini Missoni, Matilde) *see* **Proceedings: Conference on Thermodynamics, 93k:80001**
(Wanderlingh, Franco) *see* **Proceedings: Conference on Thermodynamics, 93k:80001**

Items listed otherwise than by author

Conference:
Thermodynamics ★ Proceedings of the Taormina Conference on Thermodynamics. **93k:80001**
Fluid dynamical aspects of combustion theory ★ Fluid dynamical aspects of combustion theory. **93f:80001**
Proceedings:
Conference on Thermodynamics ★ Proceedings of the Taormina Conference on Thermodynamics. **93k:80001**
Progress in physical chemistry and mechanics ★ Wuli huaxue lixue jinzhan. (Chinese) [Progress in physical chemistry and mechanics] **93h:80001**
Taormina ★ Proceedings of the Taormina Conference on Thermodynamics. **93k:80001**

80–08 Computational methods

Benim, A. C. Finite-element analysis of enclosed turbulent diffusion flames. (*see* **93e:76050**)
Bermúdez de Castro, Alfredo (*with* López Pouso, Óscar) Analysis of a flux method for computing heat radiation. (Spanish. English summary) (*see* **93j:00009**)
Białecki, Ryszard (*with* Kuhn, Günther) Boundary element solution of heat conduction problems in multizone bodies of nonlinear material. (English summary) **93k:80002**
Chen, Tzer Ming A modified hybrid Laplace transform/finite element method for transient heat conduction problems. (English summary) **93g:80001**
Chesla, S. *see* **Kassab, A. J., (93b:65002)**
Devyatov, B. N. (*with* Rubtsov, N. A.; Solov'ev, V. P.) A general method for the analytic investigation of nonlinear nonstationary problems of heat exchange and radiation transfer. (Russian) **93g:80002**
Ghoniem, Ahmed F. Numerical simulation of combustion in reacting shear flow. **93j:80001**
Givi, Peyman *see* **McMurtry, Patrick A., (93e:76050)**
Haghighi, K. *see* **Kang, E., 93d:80001**
Hagmeijer, R. *see* **Spekreijse, S. P., (93b:76002)**
Kalis, Harijs Edmunds Numerical solution of the heat equation in a multilayer medium by the optimal relaxation method. (Russian. English, Italian and Russian summaries) **93e:80001**
Kang, E. (*with* Haghighi, K.) A knowledge-based a priori approach to mesh generation in thermal problems. (English summary) **93d:80001**
Karamzin, Yu. N. (*with* Trofimov, V. A.; Zakharova, I. G.) Difference schemes for optical thermal blooming problems. (English summary) **93f:80002**
Kassab, A. J. (*with* Chesla, S.) CVBEM solution of nonlinear heat conduction problems. (English summary) (*see* **93b:65002**)
Kuhn, Günther *see* **Białecki, Ryszard, 93k:80002**
López Pouso, Óscar *see* **Bermúdez de Castro, Alfredo, (93j:00009)**
McMurtry, Patrick A. (*with* Givi, Peyman) Direct numerical simulations of a reacting turbulent mixing layer by a pseudospectral-spectral element method. (*see* **93e:76050**)
Nekhamkina, O. A. (*with* Strelets, M. Kh.) Numerical modeling of detonation waves by means of an efficient TVD-scheme. (Russian. Russian summary) **93m:80001**
van der Ploeg, Auke Preconditioning techniques for nonsymmetric matrices with application to temperature calculations of cooled concrete. (English summary) **93i:80001**
Rubtsov, N. A. *see* **Devyatov, B. N.; et al., 93g:80002**
Solov'ev, V. P. *see* **Devyatov, B. N.; et al., 93g:80002**
Spekreijse, S. P. (*with* Hagmeijer, R.) Derivation of a Roe scheme for an N-species chemically reacting gas in thermal equilibrium. (*see* **93b:76002**)
Strelets, M. Kh. *see* **Nekhamkina, O. A., 93m:80001**
Trofimov, V. A. *see* **Karamzin, Yu. N.; et al., 93f:80002**
Voitishek, A. V. Statistical estimation of radiative flows in numerical solution of radiative-conductive heat transfer problems. (English summary) **93g:80003**
Zakharova, I. G. *see* **Karamzin, Yu. N.; et al., 93f:80002**

Items with secondary classifications in 80–08

Airapetyan, Yu. N. Approximate solution of the nonlinear diffusion problem taking into account the finite rate of propagation of the front of a concentration wave. (Russian. English and Armenian summaries) **93d:80002**
Anagnostou, George (*with* Rønquist, Einar M.; Patera, Anthony T.) A computational procedure for part design. (English summary) **93g:73094**
Beardah, C. C. (*with* Thomas, Ruth Margaret) Finite difference solution of a singular index one differential/algebraic boundary value problem arising in the modelling of unconfined detonations. **93f:80015**
Bielak, Jacobo *see* **Zeng, Xiaogang; et al., 93k:73087**
Black, Kelly Polynomial collocation using a domain decomposition solution to parabolic PDEs via the penalty method and explicit/implicit time marching. (English summary) **93k:65076**
Bolnăvescu, L. A nonconvergent line method for solving one-dimensional equations of heat propagation by conduction and convection. **93c:65109**
— A nonconvergent line method for solving two-dimensional equations of heat propagation by conduction and convection. **93c:65110**
Boris, J. P. *see* **Oran, E. S., 93j:80008**
Bornemann, Folkmar A. An adaptive multilevel approach to parabolic equations. III. 2D error estimation and multilevel preconditioning. **93g:65126**
Bukiet, Bruce G. (*with* Menikoff, Ralph) Detonation waves and the front tracking method. (English summary) **93f:80017**
Calzada Canalejo, M. C. (*with* Song, Yu) A numerical algorithm for flame advection and propagation. (English summary) **93h:65125**
Choi, C.-Y. *see* **Hsieh, Chung Kuo; et al., (93b:65002)**
Chow, S.-S. Finite element error estimates for a blast furnace gas flow problem. **93a:65147**
Chun, Young W. Two-dimensional heat transfer problem using the boundary integral equation. (English summary) **93k:80007**
Ciałkowski, M. J. (*with* Grysa, K.; Jankowski, J.) Inverse problems of the linear nonstationary heat transfer equation. **93f:80014**
Ciccoli, M. C. (*with* Fezoui, L.; Désidéri, J.-A.) Efficient methods for inviscid nonequilibrium hypersonic flow fields. (French. English and French summaries) **93f:76066**
Čiegis, Raimondas (*with* Norvaišas, Saulius) Mathematical modeling of metal heating by a laser. The dynamic problem. (Russian. English and Lithuanian summaries) **93b:80005**
— (*with* Čiegis, Rem.) Mathematical modeling of metal heating by a laser. The three-dimensional problem. (Russian. English and Lithuanian summaries) **93b:80006**
Čiegis, Rem. *see* **Čiegis, Raimondas, 93b:80006**
Cinnella, P. (*with* Grossman, Bernard) Flux-split algorithms for hypersonic flows. (English summary) **93i:76065**
Désidéri, J.-A. *see* **Ciccoli, M. C.; et al., 93f:76066**
Feodoritova, O. B. *see* **Zhukov, V. T.; et al., 93c:76070**
Fezoui, L. *see* **Ciccoli, M. C.; et al., 93f:76066**
Grossman, Bernard *see* **Cinnella, P., 93i:76065**
Grysa, K. *see* **Ciałkowski, M. J.; et al., 93f:80014**
Hsieh, Chung Kuo (*with* Choi, C.-Y.; Kassab, A. J.) Solution of Stefan problems by a boundary element method. (English summary) (*see* **93b:65002**)
Jankowski, J. *see* **Ciałkowski, M. J.; et al., 93f:80014**
Kalinichenko, M. I. Difference schemes for a problem of laser thermochemistry in gases. (Russian. Russian summary) **93m:80014**
Kallivokas, L. F. *see* **Zeng, Xiaogang; et al., 93k:73087**
Kassab, A. J. *see* **Pollard, J. E., (93b:65002)** *and* **Hsieh, Chung Kuo; et al., (93b:65002)**
Kulikov, S. I. (*with* Nesterenko, A. I.; Nesterenko, N. G.) Solution of the two-dimensional Stefan problem in a multiply connected domain. (Russian. Russian summary) **93m:65123**
Kurdyumov, S. P. (*with* Tel'kovskaya, O. V.) The structure of a linearized approximation for eigenfunctions of an LS-regime in multicomponent media. (Russian) **93b:65163**
Laduguie, P. (*with* Lavanchy, A.; Touzani, R.) Study of a simple model for physical adsorption by active carbon beds. **93c:80006**
Larrouturou, Bernard Mathematics contribute to the progress of combustion science. **93i:80005**
Lavanchy, A. *see* **Laduguie, P.; et al., 93c:80006**
Li, Yuan Xiang Lattice gas simulation for the Bénard pattern. (English summary) (*see* **93d:65004**)
Menikoff, Ralph *see* **Bukiet, Bruce G., 93f:80017**
Milka, Zdeněk Finite element solution of a stationary heat conduction equation with the radiation boundary condition. (English and Czech summaries) **93k:65095**
Murio, Diego A. Numerical identification of interface source functions in heat transfer problems under nonlinear boundary conditions. **93a:65135**

Nesterenko, A. I. *see* **Kulikov, S. I.; et al., 93m:65123**
Nesterenko, N. G. *see* **Kulikov, S. I.; et al., 93m:65123**
Norvaišas, Saulius *see* **Čiegis, Raimondas, 93b:80005**
Oran, E. S. (*with* Boris, J. P.) Numerical simulation of reacting flows. **93j:80008**
Patera, Anthony T. *see* **Anagnostou, George; et al., 93g:73094**
Pollard, J. E. (*with* Kassab, A. J.) Automated solution of an inverse heat conduction problem for the nondestructive detection of subsurface cavities using boundary elements. (English summary) (*see* **93b:65002**)
Rønquist, Einar M. *see* **Anagnostou, George; et al., 93g:73094**
Song, Yu *see* **Calzada Canalejo, M. C., 93h:65125**
Tel'kovskaya, O. V. *see* **Kurdyumov, S. P., 93b:65163**
Thomas, Ruth Margaret *see* **Beardah, C. C., 93f:80015**
Touzani, R. *see* **Laduguie, P.; et al., 93c:80006**
Zabrodin, A. V. *see* **Zhukov, V. T.; et al., 93c:76070**
Zeng, Xiaogang (*with* Kallivokas, L. F.; Bielak, Jacobo) A symmetric variational finite element–boundary integral equation coupling method. (English summary) **93k:73087**
Zhukov, V. T. (*with* Zabrodin, A. V.; Feodoritova, O. B.) A scheme for solving nonstationary two-dimensional equations of gas dynamics with heat conduction on moving curvilinear grids. (Russian) **93c:76070**

80A05 Foundations

Albanese, Carlo *see* **Napolitano, Luigi G., 93a:80001**
Ciancio, Vincenzo On the generalization of the Onsager-Casimir reciprocal relations. (English summary) **93m:80002**
Fichera, Gaetano Is the Fourier theory of heat propagation paradoxical? (Italian summary) **93f:80003**
Napolitano, Luigi G. (*with* Albanese, Carlo) Remarks on Riemannian thermodynamics. (Italian summary) **93a:80001**
Ruggeri, Tommaso Polar continua as a particular case of relativistic extended thermodynamics. (Italian) **93b:80001**
— Cattaneo equation and relativistic extended thermodynamics. (English summary) **93k:80003**
Walter, Johann What remains of Carathéodory's thermodynamics? (English summary) **93m:80003**

Items with secondary classifications in 80A05

Camera-Roda, G. (*with* Doghieri, F.; Ruggeri, Tommaso; Sarti, G. C.) Thermodynamically consistent rate-type constitutive equations for the diffusive mass flux. **93b:76079**
Doghieri, F. *see* **Camera-Roda, G.; et al., 93b:76079**
Grandy, W. T., Jr. On randomness and thermodynamics. **93c:82004**
Green, Albert E. (*with* Naghdi, P. M.) Errata: "A re-examination of the basic postulates of thermomechanics" [Proc. Roy. Soc. London Ser. A **432** (1991), no. 1885, 171–194; MR 92i:73016]. **93g:73018**
Grmela, Miroslav Mesoscopic dynamics and thermodynamics: applications to polymeric fluids. **93g:76010**
Mackey, Michael C. ★ Time's arrow: the origins of thermodynamic behavior. **93a:82003**
Montanaro, Adriano On the indeterminateness of the constitutive equations for certain dissipative materials. **93h:73002**
— Entropy-free theories for differential materials. (English summary) **93j:73008**
Naghdi, P. M. *see* **Green, Albert E., 93g:73018**
Ruggeri, Tommaso *see* **Camera-Roda, G.; et al., 93b:76079**
Sarti, G. C. *see* **Camera-Roda, G.; et al., 93b:76079**
Sedov, L. I. ★ Об основных моделях в механике. (Russian. Russian summary) [Basic models in mechanics] **93k:70005**
Serrin, James The nature of thermodynamics. **93c:80001**

80A10 Classical thermodynamics

Day, W. A. Parabolic equations and thermodynamics. **93k:80004**
Kremer, G. M. (*with* Müller, Ingo) Radiation thermodynamics. **93b:80002**
Maruszewski, Bogdan Extended thermodynamical description of elastic semiconductors. **93b:80003**
Müller, Ingo *see* **Kremer, G. M., 93b:80002**
Piekarski, Sławomir On integration of constraints imposed on a system of conservation laws by the second law of thermodynamics. **93b:80004**
Serrin, James The nature of thermodynamics. **93c:80001**
Torres del Castillo, G. F. The use of linear differential forms in classical thermodynamics. (Spanish. English summary) **93c:80002**
Zanchini, E. Thermodynamics: energy of nonsimple systems and second postulate. **93g:80004a**
— Errata: "Thermodynamics: energy of nonsimple systems and second postulate". **93g:80004b**

Items with secondary classifications in 80A10

Antanovskii, L. K. Transient motion of a drop in boundless liquid with surfactants. (English and Bulgarian summaries)
Green, Albert E. (*with* Naghdi, P. M.) A demonstration of consistency of an entropy balance with balance of energy. **93a:73008**
Jongschaap, R. J. J. Towards a unified formulation of microrheological models. **93h:76005**
Maruszewski, Bogdan On a nonconventional thermodynamical model of description of coupled fields in solids. (*see* **93a:82002**)
Muracchini, Augusto Shock waves formation and stability. (*see* **93a:82002**)
Naghdi, P. M. *see* **Green, Albert E., 93a:73008**
Shugrin, S. M. Equations of dissipative Galilean and Lorentz hydrodynamics. (Russian. Russian summary) **93d:76080**

80A15 Thermodynamics of mixtures

James, François Diphasic equilibrium and chemical engineering. **93k:80005**
Müller, Ingo Hyperbolic equations for diffusion. **93m:80004**

Items with secondary classifications in 80A15

Cimmelli, Vito Antonio Structured adsorbing interface in phase transition of classical fluid mixtures. (English summary) **93j:82029**
Griewank, A. *see* **Rabier, P. J., 93h:58019**
Onishi, Yoshimoto Kinetic theory based nonlinear treatment for motions of a binary gas mixture involving slightly strong evaporation and condensation processes—a system of macroscopic equations, the boundary conditions and the Knudsen-layer corrections. (English summary) **93j:76052**
Rabier, P. J. (*with* Griewank, A.) Generic aspects of convexification with applications to thermodynamic equilibrium. **93h:58019**

80A20 Heat and mass transfer, heat flow

Airapetyan, Yu. N. Approximate solution of the nonlinear diffusion problem taking into account the finite rate of propagation of the front of a concentration wave. (Russian. English and Armenian summaries) **93d:80002**
Alifanov, O. M. (*with* Nenarokomov, A. V.) A three-dimensional inverse problem of heat conduction in an extremal formulation. (Russian) **93m:80005**
Arguchintseva, M. A. (*with* Pilyugin, N. N.) Extremal problems for heat exchange between three-dimensional bodies moving at hypersonic velocities. (Russian. Russian summary) **93m:80006**
Bakhvalov, N. S. (*with* Èglit, M. È.) Propagation of small perturbations in weakly thermoconducting and weakly viscous microninhomogeneous media. (Russian) **93k:80006**
Beck, J. V. (*with* Cole, K. D.; Haji-Sheikh, A.; Litkouhi, B.) ★ Heat conduction using Green's functions. **93g:80005**
Bera, Rasajit Kumar (*with* Chakrabarti, Aloknath) Cooling of a composite slab in a two-fluid medium. **93a:80002a**
— (*with* Chakrabarti, Aloknath) Cooling of an infinite slab in a two-fluid medium. **93a:80002b**
Bondarev, V. A. Variational formulation of a nonstationary heat-conduction problem. (English summary) **93f:80004**
Brykina, I. G. (*with* Rusakov, V. V.; Shcherbak, V. G.) Approximate formulas for heat fluxes on the surface of three-dimensional bodies. (Russian. Russian summary)
Chakrabarti, Aloknath *see* **Bera, Rasajit Kumar, 93a:80002a** *and* **93a:80002b**
Chaurasia, V. B. L. Application of the multivariable H-function in heat conduction in a rod under the Robin condition. **93a:80003**
Chun, Young W. Two-dimensional heat transfer problem using the boundary integral equation. (English summary) **93k:80007**
Ciancio, Vincenzo (*with* Verhás, József) On heat conduction in media with isotropic microstructure. **93a:80004**
— Thermodynamic theory for heat radiation. **93c:80003**
Čiegis, Raimondas (*with* Norvaišas, Saulius) Mathematical modeling of metal heating by a laser. The dynamic problem. (Russian. English and Lithuanian summaries) **93b:80005**
— (*with* Čiegis, Rem.) Mathematical modeling of metal heating by a laser. The three-dimensional problem. (Russian. English and Lithuanian summaries) **93b:80006**
Čiegis, Rem. *see* **Čiegis, Raimondas, 93b:80006**
Cole, K. D. *see* **Beck, J. V.; et al., 93g:80005**
Day, W. A. Slowly-varying periodic temperatures. (English summary) **93f:80005**
Èglit, M. È. *see* **Bakhvalov, N. S., 93k:80006**
El-Sayed, M. A. (*with* Ghaleb, A. F.) Qualitative analysis of a problem of extended thermodynamics. **93c:80004**
Erzhanov, R. Zh. (*with* Matsevityi, Yu. M.; Sultangazin, U. M.; Sheryshev, V. P.) ★ Сосредоточенная емкость в задачах теплофизики и микроэлектроники. (Russian. Russian and Ukrainian summaries) [Concentrated capacity in problems of thermophysics and micro-electronics] **93m:80007**
Fowler, A. C. (*with* Frigaard, I.; Howison, Sam D.) Temperature surges in current-limiting circuit devices. **93c:80005**
Frigaard, I. *see* **Fowler, A. C.; et al., 93c:80005**
Georgiadis, H. G. A correspondence principle connecting IBVPs of wave propagation and heat conduction. (English summary) **93f:80006**
Ghaleb, A. F. *see* **El-Sayed, M. A., 93c:80004**
Gianni, Roberto (*with* Hulshof, Josephus) The semilinear heat equation with a Heaviside source term. (English summary) **93k:80008**
Gray, B. F. *see* **Sisson, R. A.; et al., 93k:80010**
Greenblatt, David Computing the combined effect of wake-passing and free-stream turbulence on gas turbine blade boundary layers. (English summary) **93h:80002**
Haji-Sheikh, A. *see* **Beck, J. V.; et al., 93g:80005**
Hansen, Erik B. On drying of laundry. (English summary) **93f:80007**
Howison, Sam D. *see* **Fowler, A. C.; et al., 93c:80005**
Hulshof, Josephus *see* **Gianni, Roberto, 93k:80008**
Laduguie, P. (*with* Lavanchy, A.; Touzani, R.) Study of a simple model for physical adsorption by active carbon beds. **93c:80006**
Lavanchy, A. *see* **Laduguie, P.; et al., 93c:80006**
Letavin, M. I. A singularly perturbed problem of metal heating. (Russian. Russian summary) **93m:80008**
Litkouhi, B. *see* **Beck, J. V.; et al., 93g:80005**
Logan, J. David An inhomogeneous nonlinear boundary value problem in model reactive media. **93f:80008**
Matsevityi, Yu. M. *see* **Erzhanov, R. Zh.; et al., 93m:80007**
Mohamed, Fouad A. The energy-integral method: application to linear hyperbolic heat-conduction problems. (English summary) **93k:80009**
Muracchini, Augusto (*with* Ruggeri, Tommaso; Seccia, L.) Dispersion relation in the high frequency limit and nonlinear wave stability for hyperbolic dissipative systems. **93f:80009**
Nenarokomov, A. V. *see* **Alifanov, O. M., 93m:80005**
Norvaišas, Saulius *see* **Čiegis, Raimondas, 93b:80005**

Novikov, I. A. Resonant generation of harmonic thermal waves in media with memory. (English summary) **93f:80010**

Pilyugin, N. N. *see* **Arguchintseva, M. A., 93m:80006**

Rubin, M. B. Hyperbolic heat conduction and the second law. (English summary) **93f:80011**

Ruggeri, Tommaso *see* **Muracchini, Augusto; et al., 93f:80009**

Rusakov, V. V. *see* **Brykina, I. G.; et al.**

Saldanha da Gama, Rogério Martins On the solutions of the energy transfer problem in a nonconvex black body with convective/radiative boundary conditions. **93d:80003**

— Simulation of the steady-state energy transfer in rigid bodies, with convective/radiative boundary conditions, employing a minimum principle. **93a:80005**

Seccia, L. *see* **Muracchini, Augusto; et al., 93f:80009**

Shcherbak, V. G. *see* **Brykina, I. G.; et al.**

Sheryshev, V. P. *see* **Erzhanov, R. Zh.; et al., 93m:80007**

Shukla, K. N. ★ Diffusion processes during drying of solids. **93b:80007**

Sisson, R. A. (*with* Swift, Adrian; Wake, Graeme; Gray, B. F.) The self-heating of damp cellulosic materials. I. High thermal conductivity and diffusivity. (English summary) **93k:80010**

Sultangazin, U. M. *see* **Erzhanov, R. Zh.; et al., 93m:80007**

Swift, Adrian *see* **Sisson, R. A.; et al., 93k:80010**

Torrisi, M. (*with* Valenti, Antonino) Wave features for a heat conductor with thermal relaxation. (Italian summary) **93c:80007**

Touzani, R. *see* **Laduguie, P.; et al., 93c:80006**

Valenti, Antonino *see* **Torrisi, M., 93c:80007**

Verhás, József *see* **Ciancio, Vincenzo, 93a:80004**

Wake, Graeme *see* **Sisson, R. A.; et al., 93k:80010**

Yanagita, Tatsuo Phenomenology of boiling: a coupled map lattice model. (English summary) **93g:80006**

Items with secondary classifications in 80A20

Abd-el-Malek, M. B. *see* **Boutros, Y. Z.; et al., 93a:76030**

Amerov, T. K. *see* **Fushchich, V. I.; et al., 93g:35067**

Anisyutin, B. M. Energy estimates for the solution of a heat conduction problem with a time derivative in the boundary condition. (Russian. Russian summary) **93d:35059**

Antanovskiĭ, L. K. Symmetrization of interface dynamics equations. (English summary) **93f:80012**

Antontsev, S. N. (*with* Chipot, Michel) Existence, stability and blowup of the solution of the thermistor problem. (Russian) **93k:35247**

Badran, N. A. *see* **Boutros, Y. Z.; et al., 93a:76030**

Bajpai, S. D. Meijer's *G*-function and heat flow in a two-dimensional rectangular region. (Arabic summary) **93c:33008**

— Solution of a partial differential equation related to queuing theory, heat conduction and quantum mechanics. (English summary)

Białecki, Ryszard (*with* Kuhn, Günther) Boundary element solution of heat conduction problems in multizone bodies of nonlinear material. (English summary) **93k:80002**

Black, Kelly Polynomial collocation using a domain decomposition solution to parabolic PDEs via the penalty method and explicit/implicit time marching. (English summary) **93k:65076**

Bosov, A. A. (*with* Zaĭtsev, V. G.) Optimal estimation in a problem of heat conduction. (Russian. Russian summary) (*see* **93k:00023**)

Boutros, Y. Z. (*with* Abd-el-Malek, M. B.; Badran, N. A.) Group-theoretic approach for solving time-independent free-convective boundary layer flow on a nonisothermal vertical flat plate. (Russian and Polish summaries) **93a:76030**

Chaurasia, V. B. L. (*with* Lal, Girdhari) Use of the *H*-function of several complex variables and a general class of polynomials in heat conduction in a rod under the Robin condition. **93f:33012**

Chen, Tung Yang Interfacial discontinuities in thermal conductions. (English summary) **93k:73008**

Chen, Tzer Ming A modified hybrid Laplace transform/finite element method for transient heat conduction problems. (English summary) **93g:80001**

Chen, Xinfu (*with* Friedman, Avner) The thermistor problem for conductivity which vanishes at large temperature. (English summary) **93m:35188**

Chesla, S. *see* **Kassab, A. J., (93b:65002)**

Chipot, Michel *see* **Antontsev, S. N., 93k:35247**

Cimatti, Giovanni On two problems of electrical heating of conductors. **93c:78005**

— Note on the theory of temperature dependent resistors. (English summary) **93g:78026**

— Existence of weak solutions for the nonstationary problem of the joule heating of a conductor. (English summary) **93i:35073**

Cimmelli, Vito Antonio (*with* Kosiński, Witold) Evolution hyperbolic equations for heat conduction. **93d:73007**

Day, W. A. Quasistatic cycles in dynamic linear thermoelasticity. (English summary) **93m:73003**

Devyatov, B. N. (*with* Rubtsov, N. A.; Solov′ev, V. P.) A general method for the analytic investigation of nonlinear nonstationary problems of heat exchange and radiation transfer. (Russian) **93g:80002**

Dinariev, O. Yu. Perturbation front structure for transport processes with relaxation. (Russian) **93g:82089**

Egorchenko, I. A. (*with* Vorob′eva, A. I.) Conditional invariance and exact solutions of a nonlinear heat equation. (Russian. English and Russian summaries) **93f:35100**

Ericksen, J. L. ★ Introduction to the thermodynamics of solids. **93d:73010**

Fetecău, Constantin Thermal influence on the propagation of cylindrical waves in simple fluids. (Romanian) **93a:76034**

Friedman, Avner *see* **Chen, Xinfu, 93m:35188**

Fushchich, V. I. (*with* Serov, N. I.; Amerov, T. K.) Nonlocal ansätze for a nonlinear one-dimensional heat equation. (Russian. English and Russian summaries) **93g:35067**

Galimov, A. A. Mathematical modeling of electric fields and mass transport processes in electrochemical systems. (Russian) (*see* **93m:00033**)

Gaultier, Maurice (*with* Lezaun Iturralde, Mikel) An existence and uniqueness theorem for the transfer of mass and heat in a rectangular cavity. **93c:35156**

Glasko, V. B. (*with* Stepanova, I. È.) On uniqueness in one of the coefficient problems connected with technological processes. (Russian) **93e:35118**

Grasselli, Maurizio An identification problem for a linear integrodifferential equation occurring in heat flow. **93b:45010**

Green, Albert E. (*with* Naghdi, P. M.) On undamped heat waves in an elastic solid. (English summary) **93i:73003**

— (*with* Naghdi, P. M.) Errata: "A re-examination of the basic postulates of thermomechanics" [Proc. Roy. Soc. London Ser. A **432** (1991), no. 1885, 171–194; MR 92i:73016]. **93g:73018**

Gunzburger, Max D. (*with* Hou, LiSheng; Svobodny, Thomas P.) Heating and cooling control of temperature distributions along boundaries of flow domains. (English summary) **93m:35178**

Henry, Daniel B. The temperature of an asteroid. (French summary) **93a:35087**

Hou, LiSheng *see* **Gunzburger, Max D.; et al., 93m:35178**

Icha, Andrzej Solution of a turbulent heat conductivity equation in the Oseen's approximation. **93e:76044**

Ignaczak, Józef ★ Termosprężystość ze skończonymi prędkościami falowymi. (Polish) [Thermoelasticity with finite wave speeds] **93g:73019**

Jentsch, Lothar On a bimetal problem for heat conductions. (*see* **93k:35004**)

Ji, Xin Hua *see* **Zhu, Guang Tian; et al., 93m:93050**

Kalis, Harijs Edmunds Numerical solution of the heat equation in a multilayer medium by the optimal relaxation method. (Russian. English, Italian and Russian summaries) **93e:80001**

Karamzin, Yu. N. (*with* Trofimov, V. A.; Zakharova, I. G.) Difference schemes for optical thermal blooming problems. (English summary) **93f:80002**

Kassab, A. J. (*with* Chesla, S.) CVBEM solution of nonlinear heat conduction problems. (English summary) (*see* **93b:65002**)

Khvisevich, V. M. Solution of the exterior and interior Dirichlet problem of potential theory in a multiply connected domain. (Russian) **93c:31010**

King, John Robert Surface-concentration-dependent nonlinear diffusion. **93b:35067**

Kosiński, Witold *see* **Cimmelli, Vito Antonio, 93d:73007**

Kostenko, V. G. An inverse problem for a simplified system of heat and moisture transfer equations. (Russian. Russian summary) **93h:35212**

Koval′chuk, B. V. (*with* Lopushans′ka, G. P.) The Green function method in stationary and nonstationary problems of nonlinear heat conduction. (Russian. Russian summary) **93h:35085**

Krishnamurthy, Ramesh A linear stability analysis of a mixed convection plume from a line source: higher order effects. (French summary) **93d:76026**

Kucharski, St. *see* **Lewiński, Tomasz, 93g:73010**

Kuhn, Günther *see* **Białecki, Ryszard, 93k:80002**

Kurdyumov, S. P. (*with* Tel′kovskaya, O. V.) The structure of a linearized approximation for eigenfunctions of an LS-regime in multicomponent media. (Russian) **93b:65163**

Lal, Girdhari *see* **Chaurasia, V. B. L., 93f:33012**

Lenyuk, M. P. (*with* Podil′chuk, N. B.) Integral transformations in a cylindrical-elliptic coordinate system, and temperature fields in elliptic domains. (Russian. Russian summary) **93g:44014**

Lewiński, Tomasz (*with* Kucharski, St.) A model with length scales for composites with periodic structure. Steady state heat conduction problem. I. Formulation. (English summary) **93g:73010**

Lezaun Iturralde, Mikel *see* **Gaultier, Maurice, 93c:35156**

Liang, Ben Zhong *see* **Zhu, Guang Tian; et al., 93m:93050**

Lopushans′ka, G. P. *see* **Koval′chuk, B. V., 93h:35085**

Lur′e, K. A. Direct solution of an optimal layout problem for isotropic and anisotropic heat conductors on a plane. **93b:49005**

Markov, Konstantin Z. (*with* Zvyatkov, K. D.) Optimal third-order bounds on the effective properties of some composite media, and related problems. (English and Russian summaries) **93f:73071**

Maslov, V. P. Overheating effects in filtration media. (Russian) **93k:76106**

McLeod, J. Bryce *see* **Vázquez, Juan Luis; et al., (93k:00036)**

Mei, Chiang C. Dispersion of heat in periodic porous media by homogenization method. **93e:76066**

Mikelić, Andro (*with* Primicerio, Mario) Homogenization of heat conduction in materials with periodic inclusions of a perfect conductor. **93k:35024**

Milka, Zdeněk Finite element solution of a stationary heat conduction equation with the radiation boundary condition. (English and Czech summaries) **93k:65095**

Mishra, Sadhana Fox's *H*-function and time-domain synthesis problem. **93c:33009**

— Errata: "Fox's *H*-function and time-domain synthesis problem" [Hadronic J. Suppl. **6** (1991), no. 3, 349–359; MR 93c:33009]. (English summary) **93m:33009**

Montanaro, Adriano Entropy-free theories for differential materials. (English summary) **93j:73008**

— On heat flux in simple media. (English summary) **93m:73004**

Moodie, T. Bryant *see* **Önců, T. Sabri, 93h:73004** *and* **93j:73009**

Müller, Ingo Hyperbolic equations for diffusion. **93m:80004**

Murio, Diego A. Numerical identification of interface source functions in heat transfer problems under nonlinear boundary conditions. **93a:65135**

Naghdi, P. M. *see* **Green, Albert E., 93g:73018** *and* **93i:73003**

Nesenenko, G. A. Generalization of the method of reflections in the approximate solution of boundary value problems for the heat equation with a small parameter. (Russian) (*see* **93k:00024**)

Önců, T. Sabri (*with* Moodie, T. Bryant) On the constitutive relations for second sound in elastic solids. (English summary) **93j:73009**

— (*with* Moodie, T. Bryant) On the propagation of thermoelastic waves in temperature rate-dependent materials. (English summary) **93h:73004**

Peletier, L. A. *see* **Vázquez, Juan Luis; et al., (93k:00036)**

Pershin, I. V. (*with* Titov, V. A.; Shishkin, G. I.) Approximation of solutions of parabolic equations with a rapidly moving source. (Russian. Russian summary) (*see* **93f:93004**)

Podil′chuk, N. B. *see* **Lenyuk, M. P., 93g:44014**

Prasad, Y. N. *see* **Singh, V. P.**

Primicerio, Mario *see* **Mikelić, Andro, 93k:35024**

Qi, Ping *see* **Shang, Han Ji, 93c:65148** *and* **93i:35064**

Rubtsov, N. A. *see* **Devyatov, B. N.; et al., 93g:80002**
Ruggeri, Tommaso Shocks and changes of shape of second sound wave. (English summary) **93m:73005**
Sadhal, S. S. Solutions to a class of transport problems with radially dominant convection. (English summary) **93m:76031**
Serov, N. I. *see* **Fushchich, V. I.; et al., 93g:35067**
Shang, Han Ji (*with* Qi, Ping) Using the method of boundary condition dissection to solve steady-state heat conduction problems for a composite medium. (Chinese. English summary) **93c:65148**
— (*with* Qi, Ping) Boundary condition dissection solutions to the steady-state heat conduction problem in a composite medium. (Chinese. English and Chinese summaries) **93i:35064**
Shishkin, G. I. *see* **Pershin, I. V.; et al., (93f:93004)**
Singh, V. P. (*with* Prasad, Y. N.) Application of Jacobi polynomial and multivariable *I*-function in heat conduction in a nonhomogeneous moving rectangular parallelopiped. (English summary)
Solov'ev, V. P. *see* **Devyatov, B. N.; et al., 93g:80002**
Stepanova, I. È. *see* **Glasko, V. B., 93e:35118**
Svobodny, Thomas P. *see* **Gunzburger, Max D.; et al., 93m:35178**
Tel'kovskaya, O. V. *see* **Kurdyumov, S. P., 93b:65163**
Tirskii, G. A. Up-to-date gasdynamic models of hypersonic aerodynamics and heat transfer with real gas properties. (*see* **93h:76003**)
Titov, V. A. *see* **Pershin, I. V.; et al., (93f:93004)**
Trofimov, V. A. *see* **Karamzin, Yu. N.; et al., 93f:80002**
Tsypkin, G. G. The formation of two moving boundaries of phase transitions during dissociation of gas hydrates in strata. (Russian) **93f:80013**
Vázquez, Juan Luis (*with* McLeod, J. Bryce; Peletier, L. A.) Solutions of a nonlinear ODE appearing in the theory of diffusion with absorption. (*see* **93k:00036**)
Voitishek, A. V. Statistical estimation of radiative flows in numerical solution of radiative-conductive heat transfer problems. (English summary) **93g:80003**
Vorob'eva, A. I. *see* **Egorchenko, I. A., 93f:35100**
Wehrli, Christoph *see* **Ziegler, Hans[1], 93e:73006**
Wood, A. S. A note on the use of the isotherm migration method. **93b:65161**
Wu, Jin Gang *see* **Zhu, Guang Tian; et al., 93m:93050**
Yang, Xue Shi *see* **Zhu, Guang Tian; et al., 93m:93050**
Yavorskii, N. I. The heat wake around a streamlined body. (Russian) **93d:76022**
Zaitsev, V. G. *see* **Bosov, A. A., (93k:00023)**
Zakharova, I. G. *see* **Karamzin, Yu. N.; et al., 93f:80002**
Zhu, Guang Tian (*with* Wu, Jin Gang; Liang, Ben Zhong; Ji, Xin Hua; Yang, Xue Shi) Existence of solution to transpiration control problem. (English summary) **93m:93050**
Ziegler, Hans[1] (*with* Wehrli, Christoph) The derivation of constitutive relations from the free energy and the dissipation function. **93e:73006**
Zvyatkov, K. D. *see* **Markov, Konstantin Z., 93f:73071**

80A22 Stefan problems, phase changes, etc.

Alt, Hans Wilhelm (*with* Pawłow, Irena) Solutions for a model of nonisothermal phase separation. (*see* **93k:00037**)
Antanovskii, L. K. Symmetrization of phase transition equations. (Russian. Russian summary) **93e:80002**
— Symmetrization of interface dynamics equations. (English summary) **93f:80012**
Bates, Peter W. Coarsening and nucleation in the Cahn-Hilliard equation. (*see* **93k:00037**)
Beckermann, C. (*with* Viskanta, R.) Mathematical modeling of transport phenomena during alloy solidification. (English summary) **93j:80002**
Blowey, J. F. (*with* Elliott, Charles M.) The Cahn-Hilliard gradient theory for phase separation with nonsmooth free energy. II. Numerical analysis. **93g:80007**
Chernyi, G. G. The asymptotic method in problems on the motion of bodies in a melting medium. (Russian. Russian summary) **93m:80009**
Choi, C.-Y. *see* **Hsieh, Chung Kuo; et al., (93b:65002)**
Dell'isola, Francesco (*with* Kosiński, Witold) The interface between phases as a layer. II. A *H*-order model for two-dimensional nonmaterial continua. (English summary) (*see* **93g:00030**)
Eilbeck, J. C. *see* **Grinfeld, Michael; et al., 93j:80003**
Elliott, Charles M. *see* **Blowey, J. F., 93g:80007**
Furter, J. E. *see* **Grinfeld, Michael; et al., 93j:80003**
Garguichevich, Graciela G. (*with* Tarzia, Domingo A.) The steady-state two-phase Stefan problem with an internal energy and some related problems. **93e:80003**
Grinfeld, Michael (*with* Furter, J. E.; Eilbeck, J. C.) A monotonicity theorem and its application to stationary solutions of the phase field model. (English summary) **93j:80003**
Guan, Zhi Cheng Existence of solutions to the problem of nonequilibrium phase change. (Italian summary) **93a:80006**
— On a free boundary problem modelling thermal oxidation of silicon. (German and Russian summaries) **93c:80008**
Howarth, J. A. The Stefan problem with slightly varying wall temperature. **93m:80010**
Hsieh, Chung Kuo (*with* Choi, C.-Y.; Kassab, A. J.) Solution of Stefan problems by a boundary element method. (English summary) (*see* **93b:65002**)
Kassab, A. J. *see* **Hsieh, Chung Kuo; et al., (93b:65002)**
Kosiński, Witold *see* **Dell'isola, Francesco, (93g:00030)**
Pawłow, Irena *see* **Alt, Hans Wilhelm, (93k:00037)**
Podio-Guidugli, Paolo Hyperbolic evolution of phase interfaces. (English summary) (*see* **93g:00030**)
Prokhorova, M. F. Concerning the shape of a growing dendrite. (Russian) **93c:80009**
Radkevich, E. V. The Gibbs-Thomson effect and existence conditions for classical solutions for the modified Stefan problem. (*see* **93k:00037**)
Sprekels, Jürgen On thermomechanical phase transitions. (*see* **93k:00037**)
Starita, Giulio Nonlocal variational mechanics and equilibrium of small crystals. (English summary) (*see* **93g:00030**)
Starovoitov, V. N. Solvability for small time of the Stefan problem with the Gibbs-Thomson condition on the interphase boundary. (Russian. Russian summary) **93e:80004**
Tarzia, Domingo A. *see* **Garguichevich, Graciela G., 93e:80003**
Tsypkin, G. G. The formation of two moving boundaries of phase transitions during dissociation of gas hydrates in strata. (Russian) **93f:80013**
Viskanta, R. *see* **Beckermann, C., 93j:80002**
Woods, Andrew W. Melting and dissolving. **93a:80007**
Yu, Wang Hui Existence of a classical solution to a two-phase Stefan-Signorini problem. (Chinese. English summary) **93c:80010**
Zheng, Song Mu Some results on phase field equations. (*see* **93k:00037**)

Items with secondary classifications in 80A22

Abergel, F. (*with* Hilhorst, Danielle; Issard-Roch, F.) On a Stefan problem with surface tension in the neighborhood of a stationary solution. **93k:35274**
Aiki, Toyohiko The existence of solutions to two-phase Stefan problems for nonlinear parabolic equations. (Russian and Polish summaries) **93h:35216**
Amiez, G. (*with* Gremaud, P.-A.) Error estimates for Euler forward scheme related to two-phase Stefan problems. (French summary) **93a:65144**
Baughman, Lisa A. (*with* Walkington, Noel J.) Co-volume methods for degenerate parabolic problems. (English summary) **93j:65147**
Bazalii, B. V. (*with* Degtyarev, S. P.) The Stefan problem with a kinetic and classical condition on the free boundary. (Russian. Russian and Ukrainian summaries) **93f:35244**
Bénard, Christine *see* **Wang, Xin-Fang; et al., (93m:00044)**
Blowey, J. F. (*with* Elliott, Charles M.) The Cahn-Hilliard gradient theory for phase separation with nonsmooth free energy. I. Mathematical analysis. **93a:35025**
Brattkus, K. *see* **Merchant, Gregory J.; et al., 93h:35203**
Braun, R. J. *see* **Merchant, Gregory J.; et al., 93h:35203**
Brauner, C.-M. (*with* Lunardi, Alessandra; Schmidt-Lainé, Cl.) Stability of travelling waves with interface conditions. **93k:35145**
Caginalp, G. (*with* Xie, Wei Qing) The transition between unbounded and bounded velocities in sharp interface models. (*see* **93k:00037**)
— *see also* **Chadam, John M., 93a:35155**
Chadam, John M. (*with* Caginalp, G.) Stability of interfaces with velocity correction term. **93a:35155**
— (*with* Yin, Hong Ming) The two-phase Stefan problem in materials with memory. (English summary) (*see* **93k:00037**)
Coleman, Bernard D. (*with* Marcus, Moshe M.; Mizel, Victor J.) On the thermodynamics of periodic phases. **93d:73008**
Colli, Pierluigi Global existence for a second-order thermomechanical model of shape memory alloys. (English summary) **93g:73015**
Couder, Yves Growth patterns: from stable curved fronts to fractal structures. **93m:76030**
Damlamian, A. (*with* Kenmochi, Nobuyuki) Uniqueness of the solution of a Stefan problem with variable lateral boundary conditions. **93c:35165**
Davis, S. H. *see* **Merchant, Gregory J.; et al., 93h:35203**
Degtyarev, S. P. *see* **Bazalii, B. V., 93f:35244**
Dell'isola, Francesco (*with* Kosiński, Witold) The curved interface with variable thickness. **93d:82060**
Díaz Díaz, Jesús Ildefonso (*with* Fasano, Antonio; Meirmanov, A. M.) On the disappearance of the mushy region in multidimensional Stefan problems. (*see* **93k:00037**)
Elliott, Charles M. *see* **Blowey, J. F., 93a:35025**
Fasano, Antonio *see* **Díaz Díaz, Jesús Ildefonso; et al., (93k:00037)**
Fedelich, B. (*with* Zanzotto, Giovanni) Hysteresis in discrete systems of possibly interacting elements with a double-well energy. (English summary) **93g:73026**
Friedman, Avner (*with* Hu, Bei) The Stefan problem with kinetic condition at the free boundary. **93k:35277**
Gremaud, P.-A. *see* **Amiez, G., 93a:65144**
Gurtin, Morton E. (*with* Podio-Guidugli, Paolo) A hyperbolic theory for the evolution of plane curves. **93b:73008**
— (*with* Soner, H. Mete) Some remarks on the Stefan problem with surface structure. **93d:35181**
Gustafsson, Björn (*with* Mossino, J.) Isoperimetric inequalities for the Stefan problem. (*see* **93k:00037**)
Hattori, Harumi (*with* Mischaikow, Konstantin) On the slow motions of phase boundaries in the Korteweg theory of capillarity. (English summary) **93k:35232**
Hilhorst, Danielle *see* **Abergel, F.; et al., 93k:35274**
Hoffmann, Karl-Heinz[1] (*with* Żochowski, A.) Existence of solutions of some nonlinear thermoelastic systems with viscosity. **93d:73013**
— (*with* Jiang, Li Shang) Optimal control of a phase field model for solidification. **93h:35218**
Hu, Bei *see* **Friedman, Avner, 93k:35277**
Impey, M. D. (*with* Riley, D. S.; Wheeler, A. A.) Bifurcation analysis of cellular interfaces in unidirectional solidification of a dilute binary mixture. (English summary) **93j:35032**
Issard-Roch, F. *see* **Abergel, F.; et al., 93k:35274**
Jiang, Li Shang *see* **Hoffmann, Karl-Heinz[1], 93h:35218**
Kenmochi, Nobuyuki Global existence of solutions of two-phase Stefan problems with nonlinear flux conditions described by time-dependent subdifferentials. (Russian and Polish summaries) **93j:35195**
— *see also* **Damlamian, A., 93c:35165**
Kohn, Robert V. The relaxation of a double-well energy. **93d:73014**
Kosiński, Witold *see* **Dell'isola, Francesco, 93d:82060**
Kostikov, A. A. The thermodiffusion Stefan problem in the presence of convection. (Russian. Russian and Ukrainian summaries) **93j:35196**
Kulikov, S. I. (*with* Nesterenko, A. I.; Nesterenko, N. G.) Solution of the two-dimensional Stefan problem in a multiply connected domain. (Russian. Russian summary) **93m:65123**
Labutin, S. A. Solution of the Stefan problem on a ray in a neighborhood of a stationary solution. (Russian. Russian summary) **93g:35148**
Loper, D. E. A nonequilibrium theory of a slurry. (English summary) **93g:76108**
Lunardi, Alessandra *see* **Brauner, C.-M.; et al., 93k:35145**
Magenes, Enrico On a Stefan problem in a concentrated capacity. **93m:35189**
Marcus, Moshe M. *see* **Coleman, Bernard D.; et al., 93d:73008**
Meirmanov, A. M. *see* **Díaz Díaz, Jesús Ildefonso; et al., (93k:00037)**
Merchant, Gregory J. (*with* Braun, R. J.; Brattkus, K.; Davis, S. H.) Pulsatile instability

in rapid directional solidification: strongly-nonlinear analysis. (English summary) **93h:35203**

Mischaikow, Konstantin *see* **Hattori, Harumi, 93k:35232**

Mizel, Victor J. *see* **Coleman, Bernard D.; et al., 93d:73008**

Mossino, J. *see* **Gustafsson, Björn, (93k:00037)**

Nesterenko, A. I. *see* **Kulikov, S. I.; et al., 93m:65123**

Nesterenko, N. G. *see* **Kulikov, S. I.; et al., 93m:65123**

Novick-Cohen, Amy (*with* Peletier, L. A.) The steady states of one-dimensional Sivashinsky equations. (English summary) **93m:35046**

Peletier, L. A. *see* **Novick-Cohen, Amy, 93m:35046**

Petrova, A. G. A problem with a free boundary with an "improper" sign in the Stefan condition. (Russian. Russian summary) **93d:35184**

Podio-Guidugli, Paolo *see* **Gurtin, Morton E., 93b:73008**

Radkevich, E. V. Conditions for the existence of a classical solution of a modified Stefan problem (the Gibbs-Thomson law). (Russian) **93f:35247**

Riley, D. S. *see* **Impey, M. D.; et al., 93j:35032**

Rodrigues, José-Francisco (*with* Zal'tsman, B. B.) On classical solutions of the two-phase steady-state Stefan problem in strips. **93h:35221**

Rosset-Louërat, Marie-Minerve *see* **Wang, Xin-Fang; et al., (93m:00044)**

Roubíček, Tomáš A Stefan problem in multi-component media coupled with a Signorini problem. (*see* **93k:00037**)

Schmidt-Lainé, Cl. *see* **Brauner, C.-M.; et al., 93k:35145**

Soner, H. Mete *see* **Gurtin, Morton E., 93d:35181**

Twardowska, Krystyna Statistical solutions to a free boundary value problem for parabolic differential equations. (English and Spanish summaries) **93f:35250**

Walkington, Noel J. *see* **Baughman, Lisa A., 93j:65147**

Wang, Xin-Fang (*with* Rosset-Louërat, Marie-Minerve; Bénard, Christine) Inverse problem: identification of a melting front in the 2D case. (English summary) (*see* **93m:00044**)

Wang, Xue Feng[1] The Stefan problem with nonlinear convection. (English summary) **93j:35197**

Wheeler, A. A. *see* **Impey, M. D.; et al., 93j:35032**

Xie, Wei Qing *see* **Caginalp, G., (93k:00037)**

Xu, Xiang Sheng A degenerate Stefan-like problem with Joule's heating. (English summary) **93m:35113**

Yakubenya, A. N. A method for constructing efficient algorithms for the numerical solution of Stefan problems on grids adapted to a free boundary. I. (Russian. English summary) **93a:65169**

Yin, Hong Ming Regularity of the interfaces in the Stefan problem with a mushy region. **93f:35251**

— *see also* **Chadam, John M., (93k:00037)**

Zal'tsman, B. B. Multidimensional two-phase quasistationary Stefan problem. (English summary) **93m:35191**

— *see also* **Rodrigues, José-Francisco, 93h:35221**

Zanzotto, Giovanni *see* **Fedelich, B., 93g:73026**

Zhang, Ke Wei[1] Remarks on the two well problem with rotations. **93d:73029**

Żochowski, A. *see* **Hoffmann, Karl-Heinz**[1]**, 93d:73013**

80A23 Inverse problems

Cannon, John R. (*with* DuChateau, Paul; Moaveni, Saeed) An unknown ingredient inverse problem reduced to a functional-differential equation. (English summary) **93i:80002**

Ciałkowski, M. J. (*with* Grysa, K.; Jankowski, J.) Inverse problems of the linear nonstationary heat transfer equation. **93f:80014**

DuChateau, Paul *see* **Cannon, John R.; et al., 93i:80002**

Grysa, K. *see* **Ciałkowski, M. J.; et al., 93f:80014**

Jankowski, J. *see* **Ciałkowski, M. J.; et al., 93f:80014**

Kassab, A. J. *see* **Pollard, J. E., (93b:65002)**

Moaveni, Saeed *see* **Cannon, John R.; et al., 93i:80002**

Pollard, J. E. (*with* Kassab, A. J.) Automated solution of an inverse heat conduction problem for the nondestructive detection of subsurface cavities using boundary elements. (English summary) (*see* **93b:65002**)

Items with secondary classifications in 80A23

Chen, Yun Gang (*with* Giga, Yoshikazu; Goto, Shun'ichi) Analysis toward snow crystal growth. **93c:35164**

Gardashov, T. B. Solution of inverse problems for the quasilinear heat conduction equation in the self-similar mode for the multidimensional case. (Russian) **93c:35160**

Gera, B. V. *see* **Kostenko, V. G.; et al., 93d:35176**

Giga, Yoshikazu *see* **Chen, Yun Gang; et al., 93c:35164**

Glasko, V. B. (*with* Stepanova, I. È.; Yurasov, S. A.) On the uniqueness of the solution of an inverse problem of nitrocementation. (Russian) **93i:35154**

— (*with* Shchepetilov, A. V.) On an inverse problem of technology and the uniqueness of its solution. (Russian) **93d:45004**

Goto, Shun'ichi *see* **Chen, Yun Gang; et al., 93c:35164**

Gubal', L. O. *see* **Kostenko, V. G.; et al., 93d:35176**

Ivanchov, N. I. An inverse problem of heat conduction in a two-component medium. (Russian. Russian summary) **93h:35209**

Kostenko, V. G. (*with* Gubal', L. O.; Gera, B. V.) Determination of the heat emission coefficient in an inverse problem for the heat equation. (Ukrainian) **93d:35176**

Shcheglov, A. Yu. A method for the approximate solution of an inverse problem for the heat equation. (Russian) **93d:35180**

Shchepetilov, A. V. *see* **Glasko, V. B., 93d:45004**

Stepanova, I. È. *see* **Glasko, V. B.; et al., 93i:35154**

Yurasov, S. A. *see* **Glasko, V. B.; et al., 93i:35154**

80A25 Combustion, interior ballistics

Alvarez Pereira, Carlos (*with* Vega, José M.) On the pulsating instability of two-dimensional flames. **93c:80011**

Baer, M. *see* **Embid, Pedro, 93h:80004**

Beardah, C. C. (*with* Thomas, Ruth Margaret) Finite difference solution of a singular index one differential/algebraic boundary value problem arising in the modelling of unconfined detonations. **93f:80015**

Berestycki, Henri (*with* Larrouturou, Bernard; Roquejoffre, Jean-Michel) Mathematical investigation of the cold boundary difficulty in flame propagation theory. **93f:80016**

— (*with* Larrouturou, Bernard) Quelques aspects mathématiques de la propagation des flammes prémélangées. (English summary) [Some mathematical aspects of premixed flame propagation] **93a:80008**

— (*with* Larrouturou, Bernard; Roquejoffre, Jean-Michel) Stability of travelling fronts in a model for flame propagation. I. Linear analysis. **93g:80008a**

Bertsch, Michiel (*with* Hilhorst, Danielle; Hulshof, Josephus) On a free boundary problem arising in detonation theory: convergence to travelling waves. (*see* **93k:00035**)

Bonnet, Alexis Ondes progressives planes pour un modèle de flammes en chimie complexe. (English and French summaries) [Planar travelling waves in combustion with complex chemical networks] **93j:80004**

Borghi, R. Turbulent combustion modelling: an overview of current methods related to the structure of nonpremixed flames. **93i:80003**

Braithwaite, M. (*with* Farran, T.; Gladwell, Ian; et al.) A detonation problem posed as a differential/algebraic boundary value problem. **93c:80012**

Brauner, C.-M. (*with* Buckmaster, John; Dold, J. W.; Schmidt-Lainé, Cl.) On an evolution equation arising in detonation theory. **93k:80011**

— (*with* Schmidt-Lainé, Cl.) Nonlinear mathematical analysis of some combustion problems. **93k:80012**

— (*with* Fife, Paul C.; Namah, G.; Schmidt-Lainé, Cl.) Homogenization of propagative combustion processes. **93m:80011**

Bray, K. N. C. (*with* Libby, Paul A.) Premixed turbulent combustion. **93i:80004**

Buckmaster, John The structure and stability of laminar flames. **93k:80013**

— *see also* **Brauner, C.-M.; et al., 93k:80011**

Bukiet, Bruce G. (*with* Menikoff, Ralph) Detonation waves and the front tracking method. (English summary) **93f:80017**

Chung, T. J. *see* **Kim, Y. M., (93e:76050)**

Claus, G. (*with* Gerbi, S.) An asymptotic model for a detonation in ducts. (*see* **93j:00008**)

Clavin, P. Turbulent flame propagation. **93j:80005**

Dem'yanov, Yu. A. Asymptotic solution of a problem on the ignition of a fuel gas mixture by a heat source of constant intensity. (Russian) **93f:80018**

Dold, J. W. Emergence of a detonation within a reacting medium. **93h:80003**

— *see also* **Henderson, K. L., 93c:80013** *and* **Brauner, C.-M.; et al., 93k:80011**

Edder, O. Derivation of a simplified model of drop combustion. (English summary) **93g:80009**

Embid, Pedro (*with* Baer, M.) Mathematical analysis of a two-phase continuum mixture theory. (English summary) **93h:80004**

Farran, T. *see* **Braithwaite, M.; et al., 93c:80012**

Fife, Paul C. (*with* Hastings, Stuart P.; Lu, Chun Qing) An asymptotic and rigorous study of flames with reversible chain branching. **93a:80009**

— *see also* **Brauner, C.-M.; et al., 93m:80011**

Fitzgibbon, W. E. (*with* Martin, C. B.) The longtime behavior of solutions to a quasilinear combustion model. **93m:80012**

Frankel, M. L. (*with* Sivashinsky, Gregory I.) Surface evolution equations modelling intrinsic dynamics of premixed flames. **93j:80006**

Garbey, Marc (*with* Kaper, Hans G.; Leaf, Gary K.; Matkowsky, Bernard J.) Quasi-periodic waves and the transfer of stability in condensed-phase surface combustion. **93f:80019**

Gerbi, S. *see* **Claus, G., (93j:00008)**

Gladwell, Ian *see* **Braithwaite, M.; et al., 93c:80012**

Glangetas, L. Étude d'une limite singulière d'un modèle intervenant en combustion. (English summary) [Study of a singular limit of a combustion model] **93g:80010**

Gonthier, Keith A. *see* **Powers, Joseph M., 93d:80005**

Hastings, Stuart P. *see* **Fife, Paul C.; et al., 93a:80009**

Henderson, K. L. (*with* Dold, J. W.) Transition from thermal runaway to propagating flames. **93c:80013**

Hilhorst, Danielle *see* **Bertsch, Michiel; et al., (93k:00035)**

Hulshof, Josephus *see* **Bertsch, Michiel; et al., (93k:00035)**

Iskakov, K. M. (*with* Shatalov, Yu. S.; Shayakberov, V. F.) An equation of heat and mass transfer of two-phase media in rotating channels. (Russian. Russian summary) (*see* **93k:00022**)

— *see also* **Shatalov, Yu. S.; et al., (93k:00022)**

Kaper, Hans G. *see* **Garbey, Marc; et al., 93f:80019**

Kapila, A. K. An introduction to detonation theory. **93h:80005**

Kim, J. S. (*with* Libby, Paul A.; Williams, Forman A.) Influences of swirl on the structure and extinction of strained premixed flames. II. Strong rates of rotation. **93b:80008**

Kim, Y. M. (*with* Chung, T. J.) Analysis of turbulent reacting flows in combustion. (*see* **93e:76050**)

Larrouturou, Bernard Mathematics contribute to the progress of combustion science. **93i:80005**

— *see also* **Berestycki, Henri, 93a:80008; 93f:80016** *and* **93g:80008a**

Leaf, Gary K. *see* **Garbey, Marc; et al., 93f:80019**

Ledder, Glenn (*with* Logan, J. David) A signalling problem for near-equilibrium flows in the Fickett-Majda model of combustion. **93d:80004**

— (*with* Logan, J. David) Weakly nonlinear asymptotic models and analogs of detonation processes. (English summary) **93f:80020**

Libby, Paul A. *see* **Kim, J. S.; et al., 93b:80008** *and* **Bray, K. N. C., 93i:80004**

Liñán, A. The structure of diffusion flames. **93h:80006**

Logan, J. David *see* **Ledder, Glenn, 93d:80004** *and* **93f:80020**

Lu, Chun Qing *see* **Fife, Paul C.; et al., 93a:80009**

Lu, Yun Guang Cauchy problem for an extended model of combustion. **93f:80021**

Martin, C. B. *see* **Fitzgibbon, W. E., 93m:80012**

Matkowsky, Bernard J. *see* **Garbey, Marc; et al., 93f:80019** *and* **Shkadinskiĭ, K. G.; et al., 93k:80015**

Menikoff, Ralph *see* **Bukiet, Bruce G., 93f:80017**

Namah, G. *see* **Brauner, C.-M.; et al., 93m:80011**
Peters, N. A spectral closure for premixed turbulent combustion in the flamelet regime. (English summary) **93f:80022**
Powers, Joseph M. (*with* Gonthier, Keith A.) Reaction zone structure for strong, weak overdriven, and weak underdriven oblique detonations. (English summary) **93d:80005**
Roquejoffre, Jean-Michel Stability of travelling fronts in a model for flame propagation. II. Nonlinear stability. **93g:80008b**
— *see also* **Berestycki, Henri; et al., 93f:80016** *and* **93g:80008a**
Roytburd, V. On detonation instability. **93k:80014**
Schmidt-Lainé, Cl. *see* **Brauner, C.-M.; et al., 93k:80011; 93k:80012** *and* **93m:80011**
Shatalov, Yu. S. (*with* Trushin, O. V.; Iskakov, K. M.) Approximation by Laplace integrals of the solution of an inverse problem of the determination of the temperature of an inaccessible surface. (Russian. Russian summary) (*see* **93k:00022**)
— *see also* **Iskakov, K. M.; et al., (93k:00022)**
Shayakberov, V. F. *see* **Iskakov, K. M.; et al., (93k:00022)**
Shkadinskaya, G. V. *see* **Shkadinskii, K. G.; et al., 93k:80015**
Shkadinskii, K. G. (*with* Shkadinskaya, G. V.; Matkowsky, Bernard J.; Vol'pert, Vit. A.) Two-front traveling waves in filtration combustion. (English summary) **93k:80015**
Sivashinsky, Gregory I. *see* **Frankel, M. L., 93j:80006**
Tan, De Chun (*with* Zhang, Tong) Riemann problem for the self-similar ZND-model in gas dynamical combustion. **93d:80006**
Thomas, Ruth Margaret *see* **Beardah, C. C., 93f:80015**
Trushin, O. V. *see* **Shatalov, Yu. S.; et al., (93k:00022)**
Tyl, J. Analytical solution of the problem of convergent detonation wave with variable explosion heat. (Russian and Polish summaries) **93c:80014**
Van de Velde, Eric F. *see* **Ward, Michael J., 93a:80010**
Vega, José M. *see* **Alvarez Pereira, Carlos, 93c:80011**
Vol'pert, Vit. A. *see* **Shkadinskii, K. G.; et al., 93k:80015**
Ward, Michael J. (*with* Van de Velde, Eric F.) The onset of thermal runaway in partially insulated or cooled reactors. **93a:80010**
Williams, Forman A. *see* **Kim, J. S.; et al., 93b:80008**
Zhang, Tong *see* **Tan, De Chun, 93d:80006**

Items with secondary classifications in 80A25

Benim, A. C. Finite-element analysis of enclosed turbulent diffusion flames. (*see* **93e:76050**)
Borisov, Anatolii Al. (*with* Sharypov, O. V.) Formation of a bubbly detonation wave. (Russian. Russian summary) **93j:76042**
Calzada Canalejo, M. C. (*with* Song, Yu) A numerical algorithm for flame advection and propagation. (English summary) **93h:65125**
Dimova-Borshukova, Stefka *see* **Koleva, M. G.; et al., 93a:65128**
Drobyshevich, V. I. (*with* Laevskii, Yu. M.) An algorithm of solution of parabolic equations with different time-steps in subdomains. **93e:65113**
Ei, Shin-Ichiro (*with* Mimura, Masayasu) Relaxation oscillations in combustion models of thermal self-ignition. **93a:35080**
Embid, Pedro (*with* Hunter, John K.; Majda, Andrew J.) Simplified asymptotic equations for the transition to detonation in reactive granular materials. (English summary) **93f:35139**
Fröhlich, J. (*with* Peyret, Roger) Direct spectral methods for the low Mach number equations. (English summary) **93f:76075**
Ghoniem, Ahmed F. Numerical simulation of combustion in reacting shear flow. **93j:80001**
Gianni, Roberto (*with* Hulshof, Josephus) The semilinear heat equation with a Heaviside source term. (English summary) **93k:80008**
Giovangigli, V. *see* **Smooke, M. D., 93c:65158**
Hulshof, Josephus *see* **Gianni, Roberto, 93k:80008**
Hunter, John K. *see* **Embid, Pedro; et al., 93f:35139**
Hussaini, M. Y. *see* **Lasseigne, D. Glenn, 93k:76074**
Ibragimov, N. Kh. (*with* Torrisi, M.) A simple method for group analysis and its application to a model of detonation. (English summary) **93h:35012**
Kaschiev, M. S. *see* **Koleva, M. G.; et al., 93a:65128**
Koleva, M. G. (*with* Dimova-Borshukova, Stefka; Kaschiev, M. S.) ★ Исследование собственных функций горения нелинейной среды в полярных координатах методом конечных элементов. (Russian) [Investigation of the eigenfunctions of the burning of a nonlinear medium in polar coordinates by the finite element method] **93a:65128**
Laevskii, Yu. M. *see* **Drobyshevich, V. I., 93e:65113**
Lasseigne, D. Glenn (*with* Hussaini, M. Y.) Interaction of disturbances with an oblique detonation wave attached to a wedge. (English summary) **93k:76074**
Levy, Arnon On Majda's model for dynamic combustion. **93a:35108**
Li, Tong On the Riemann problem for a combustion model. (English summary) **93m:35154**
Liu, Xiaosong Gevrey class regularity and approximate inertial manifolds for the Kuramoto-Sivashinsky equation. **93a:35124**
Majda, Andrew J. (*with* Roytburd, V.) Low-frequency multidimensional instabilities for reacting shock waves. **93f:76064**
— *see also* **Embid, Pedro; et al., 93f:35139**
Matkowsky, Bernard J. (*with* Vol'pert, Vit. A.) Nonlocal amplitude equations in reaction diffusion systems. (English summary) **93f:35114**
Mimura, Masayasu *see* **Ei, Shin-Ichiro, 93a:35080**
Nekhamkina, O. A. (*with* Strelets, M. Kh.) Numerical modeling of detonation waves by means of an efficient TVD-scheme. (Russian. Russian summary) **93m:80001**
Pao, C. V. Blowing-up of solution for a nonlocal reaction-diffusion problem in combustion theory. **93c:35073**
Peyret, Roger *see* **Fröhlich, J., 93f:76075**
Roytburd, V. *see* **Majda, Andrew J., 93f:76064**
Sharypov, O. V. *see* **Borisov, Anatolii Al., 93j:76042**
Shevelëva, V. N. A problem of contact heat conduction. II. (Russian. Russian summary)
Smooke, M. D. (*with* Giovangigli, V.) Numerical modeling of axisymmetric laminar diffusion flames. **93c:65158**
Song, Yu *see* **Calzada Canalejo, M. C., 93h:65125**
Strelets, M. Kh. *see* **Nekhamkina, O. A., 93m:80001**
Tôn, Bùi An On a steady state free boundary problem arising in combustion theory. **93f:35249**
— On a free-boundary problem arising in the study of flame propagation. (English summary) **93k:35280**
Torrisi, M. *see* **Ibragimov, N. Kh., 93h:35012**
Trif, Damian Alternative method in a diffusion flame problem. (*see* **93i:00014**)
Vega, José M. Multidimensional traveling wavefronts in a model from combustion theory and in related problems. (English summary) **93k:35134**
Vol'pert, Vit. A. *see* **Matkowsky, Bernard J., 93f:35114**
Xin, Xue Existence of planar flame fronts in convective-diffusive periodic media. (English summary) **93m:35110**

80A30 Chemical kinetics [see also 92C45, 92E20]

Bonnet, Alexis Travelling waves for planar flames with complex chemistry reaction network. **93g:80011**
Larsen, Jens Chr. Dynamic properties of mass action kinetic systems. **93f:80023**
Leach, J. A. (*with* Merkin, J. H.; Scott, Stephen K.) An analysis of a two-cell coupled nonlinear chemical oscillator. **93b:80009**
Merkin, J. H. *see* **Leach, J. A.; et al., 93b:80009**
Peng, Jian Hua (*with* Xi, Ying; Zhao, Zhen Ye) The dynamical behavior of bimolecular autocatalytic reaction systems excited by periodic external forces. I. (Chinese. English and Chinese summaries) **93j:80007**
Rondoni, L. (*with* Streater, Raymond F.) Chemical reactions as dynamical systems on the interval. **93a:80011**
Scott, Stephen K. *see* **Leach, J. A.; et al., 93b:80009**
Streater, Raymond F. *see* **Rondoni, L., 93a:80011**
Xi, Ying *see* **Peng, Jian Hua; et al., 93j:80007**
Zhao, Zhen Ye *see* **Peng, Jian Hua; et al., 93j:80007**

Items with secondary classifications in 80A30

Amellal, A. *see* **Nicolis, G.; et al., 93b:82056**
Čiegis, Raimondas (*with* Norvaišas, Saulius) Mathematical modeling of metal heating by a laser. The dynamic problem. (Russian. English and Lithuanian summaries) **93b:80005**
— (*with* Čiegis, Rem.) Mathematical modeling of metal heating by a laser. The three-dimensional problem. (Russian. English and Lithuanian summaries) **93b:80006**
Čiegis, Rem. *see* **Čiegis, Raimondas, 93b:80006**
Cole, S. L. (*with* Wilder, J. W.) Gas phase decomposition by the Lindemann mechanism. **93a:92019**
van Duijn, C. J. (*with* Peletier, L. A.) How the interface approaches the boundary in the dead core problem. **93i:35055**
Dupont, G. *see* **Nicolis, G.; et al., 93b:82056**
El-Leithy, O. A. *see* **El-Owaidy, Hassan M., 93h:92025**
El-Owaidy, Hassan M. (*with* El-Leithy, O. A.) Limit cycles in the chemostat. (English summary) **93h:92025**
Feinberg, Martin (*with* Terman, David) Traveling composition waves on isothermal catalyst surfaces. **93a:35082**
Friedman, Avner (*with* Knabner, Peter) A transport model with micro- and macro-structure. **93g:35114**
Gol'dshtein, V. M. (*with* Sobolev, V. A.) Qualitative analysis of singularly perturbed systems in chemical kinetics. (Russian) **93c:34118**
Knabner, Peter *see* **Friedman, Avner, 93g:35114**
Lemarchand, A. *see* **Sulpice, E.; et al., 93b:82041**
Lemarchand, H. *see* **Sulpice, E.; et al., 93b:82041**
Mareschal, M. *see* **Nicolis, G.; et al., 93b:82056**
Mischaikow, Konstantin Travelling waves for a cooperative and a competitive-cooperative system. **93c:35072**
Nicolis, G. (*with* Amellal, A.; Dupont, G.; Mareschal, M.) Nonequilibrium states and long range correlations in chemical dynamics. **93b:82056**
Norvaišas, Saulius *see* **Čiegis, Raimondas, 93b:80005**
Okniński, A. ★ Catastrophe theory. **93k:58029**
Oppenheim, Irwin (*with* Orsky, Alex) Uses and abuses of the Langevin equation for chemical reactions in condensed phases. **93a:82037**
Orsky, Alex *see* **Oppenheim, Irwin, 93a:82037**
Peletier, L. A. *see* **van Duijn, C. J., 93i:35055**
(Przyjazny, Andrzej) *see* **Okniński, A., 93k:58029**
Shobukhov, A. V. Existence and uniqueness of a bifurcation periodic solution in systems of "reaction-diffusion" type. (Russian. English summary) **93b:35073a**
— Stability of a bifurcation periodic solution in systems of "reaction-diffusion" type. (Russian. English summary) **93b:35073b**
Sobolev, V. A. *see* **Gol'dshtein, V. M., 93c:34118**
Sulpice, E. (*with* Lemarchand, A.; Lemarchand, H.) Normal form of stochastic equations for chemical systems near bifurcation points. **93b:82041**
Terman, David Wave propagation in two chemical systems. **93c:35075**
— *see also* **Feinberg, Martin, 93a:35082**
Wilder, J. W. *see* **Cole, S. L., 93a:92019**

80A32 Chemically reacting flows [see also 92C45, 92E20]

Ananth, M. S. *see* **Sundaresan, K. R., 93b:80011**
Aris, Rutherford (*with* Astarita, Gianni) On aliases of differential equations. (Italian summary) **93f:80024**
Astarita, Gianni *see* **Aris, Rutherford, 93f:80024**
Billingham, J. (*with* Needham, D. J.) The development of travelling waves in quadratic and cubic autocatalysis with unequal diffusion rates. II. An initial value problem with an immobilized or nearly immobilized autocatalyst. **93a:80012**
Boris, J. P. *see* **Oran, E. S., 93j:80008**
Chakrabarti, C. G. *see* **Sarkar, N. G.**
Chan, Kwong-Yu *see* **Choi, Yung Sze, 93f:80025**
Choi, Yung Sze (*with* Chan, Kwong-Yu) Fractional step algorithm for a model problem in electrochemistry. (English summary) **93f:80025**
Dunbar, Steven R. *see* **Logan, J. David, 93h:80008**

Fazio, Riccardo Numerical length estimation for tubular flow reactors. (English summary) **93h:80007**
Fedotov, S. P. Stochastic ignition of a distributed reacting system. (Russian) **93m:80013**
Ferron, John R. A mathematical problem of rotary kiln reactors. (English summary) **93k:80016**
Kalinichenko, M. I. Difference schemes for a problem of laser thermochemistry in gases. (Russian. Russian summary) **93m:80014**
Lacey, A. A. Ignition and extinction of a reaction in the presence of increasing external temperature: general results and slow temperature rise. **93c:80015**
Logan, J. David (*with* Dunbar, Steven R.) Travelling waves in model reacting flows with reversible kinetics. (English summary) **93h:80008**
— Weakly nonlinear reactive shocks with lateral divergence. (English summary) **93k:80017**
Merkin, J. H. *see* **Needham, D. J., 93a:80013** *and* **93c:80016**
Needham, D. J. (*with* Merkin, J. H.) The development of travelling waves in a simple isothermal chemical system with general orders of autocatalysis and decay. **93a:80013**
— (*with* Merkin, J. H.) The effects of geometrical spreading in two and three dimensions on the formation of travelling wavefronts in a simple, isothermal, chemical system. **93c:80016**
— *see also* **Billingham, J., 93a:80012**
Oran, E. S. (*with* Boris, J. P.) Numerical simulation of reacting flows. **93j:80008**
Restuccia, Liliana (*with* Turrisi, Enrico) On the total energy flux in reacting fluid mixtures in which dielectric and magnetic relaxation phenomena occur. (Italian summary) **93b:80010**
Sarkar, N. G. (*with* Chakrabarti, C. G.) Stochasticity and fluctuation in a bimolecular reaction-diffusion process. (English summary)
Strogatz, Steven H. *see* **Tyson, John J., 93a:80014**
Sundaresan, K. R. (*with* Ananth, M. S.) On unsteady state moving boundary problems for nonplane geometries. **93b:80011**
Turrisi, Enrico *see* **Restuccia, Liliana, 93b:80010**
Tyson, John J. (*with* Strogatz, Steven H.) The differential geometry of scroll waves. **93a:80014**
Wang, Ming Xin[2] A qualitative analysis of a three-dimensional model for the Belousov-Zhabotinskiĭ chemical reaction. III. Conditions for the existence of positive steady states. (Chinese. English summary) **93k:80018**
Yang, Zhong Hua[1] Symmetry-breaking in two-cell exothermic reaction problems. (Chinese. English summary) **93c:80017**

Items with secondary classifications in 80A32

Billingham, J. (*with* Needham, D. J.) The development of travelling waves in quadratic and cubic autocatalysis with unequal diffusion rates. III. Large time development in quadratic autocatalysis. **93c:92012**
Brauner, C.-M. (*with* Schmidt-Lainé, Cl.) Nonlinear mathematical analysis of some combustion problems. **93k:80012**
Buckmaster, John The structure and stability of laminar flames. **93k:80013**
Carnahan, R. *see* **Young, G. W.; et al., 93h:76064**
Chen, Gui Qiang Global solutions to the compressible Navier-Stokes equations for a reacting mixture. **93h:76060**
Ciccoli, M. C. (*with* Fezoui, L.; Désidéri, J.-A.) Efficient methods for inviscid nonequilibrium hypersonic flow fields. (French. English and French summaries) **93f:76066**
Cinnella, P. (*with* Grossman, Bernard) Flux-split algorithms for hypersonic flows. (English summary) **93i:76065**
Désidéri, J.-A. *see* **Ciccoli, M. C.; et al., 93f:76066**
Feinberg, Martin (*with* Terman, David) Traveling composition waves on isothermal catalyst surfaces. **93a:35082**
Fezoui, L. *see* **Ciccoli, M. C.; et al., 93f:76066**
Fife, Paul C. (*with* Hastings, Stuart P.; Lu, Chun Qing) An asymptotic and rigorous study of flames with reversible chain branching. **93a:80009**
Frankel, M. L. (*with* Sivashinsky, Gregory I.) Surface evolution equations modelling intrinsic dynamics of premixed flames. **93j:80006**
Gabetta, Ester (*with* Monaco, Roberto) The discrete Boltzmann equation for gases with bimolecular chemical reactions. (English summary) **93k:82052**
Gilmore, R. *see* **Mindlin, Gabriel B., 93j:58093**
Givi, Peyman *see* **McMurtry, Patrick A., (93e:76050)**
Grossman, Bernard *see* **Cinnella, P., 93i:76065**
Hagmeijer, R. *see* **Spekreijse, S. P., (93b:76002)**
Hariharan, S. I. *see* **Young, G. W.; et al., 93h:76064**
Hastings, Stuart P. *see* **Fife, Paul C.; et al., 93a:80009**
Jing, Zhu Jun *see* **Liu, Zhen Rong, 93i:34068**
King, Andrew Charles (*with* Needham, D. J.) On a singular initial-boundary value problem for a reaction-diffusion equation arising from a simple model of isothermal chemical autocatalysis. **93g:92035**
Larrouturou, Bernard Mathematics contribute to the progress of combustion science. **93i:80005**
Liu, Zhen Rong (*with* Jing, Zhu Jun) Qualitative analysis for a third-order differential equation in a model of chemical systems. (English summary) **93i:34068**
Logan, J. David (*with* Shores, Thomas S.) Travelling waves produced by moving sources in a nonlinear reactive-convective system. (English summary) **93j:35095**
Lu, Chun Qing *see* **Fife, Paul C.; et al., 93a:80009**
Mancebo, Francisco J. (*with* Vega, José M.) Weakly nonuniform thermal effects in a porous catalyst: asymptotic models and local nonlinear stability of the steady states. (English summary) **93i:35079**
Mauri, Roberto Dispersion, convection, and reaction in porous media. (English summary) **93k:76113**
McMurtry, Patrick A. (*with* Givi, Peyman) Direct numerical simulations of a reacting turbulent mixing layer by a pseudospectral-spectral element method. (*see* **93e:76050**)
Mindlin, Gabriel B. (*with* Gilmore, R.) Topological analysis and synthesis of chaotic time series. (English summary) **93j:58093**
Monaco, Roberto *see* **Gabetta, Ester, 93k:82052**
Morro, Angelo (*with* Straughan, Brian) Equations for reacting viscous fluids near chemical equilibrium. **93a:76095**
Needham, D. J. *see* **Billingham, J., 93c:92012** *and* **King, Andrew Charles, 93g:92035**
Nozaki, Kazuhiro *see* **Yamada, Hiroyasu, 93m:35165**
Pollett, P. K. (*with* Vassallo, A.) Diffusion approximations for some simple chemical reaction schemes. (English summary) **93m:60147**
Schmidt-Lainé, Cl. *see* **Brauner, C.-M., 93k:80012**
Scott, Stephen K. ★ Chemical chaos. **93a:58125**
Shobukhov, A. V. On the justification of the existence of a bifurcational periodic solution in a model of heterogeneous catalysis. (Russian. Russian summary) **93m:35025**
Shores, Thomas S. *see* **Logan, J. David, 93j:35095**
Sivashinsky, Gregory I. *see* **Frankel, M. L., 93j:80006**
Spekreijse, S. P. (*with* Hagmeijer, R.) Derivation of a Roe scheme for an N-species chemically reacting gas in thermal equilibrium. (*see* **93b:76002**)
Straughan, Brian *see* **Morro, Angelo, 93a:76095**
Terman, David Wave propagation in two chemical systems. **93c:35075**
— *see also* **Feinberg, Martin, 93a:35082**
Tirskii, G. A. Up-to-date gasdynamic models of hypersonic aerodynamics and heat transfer with real gas properties. (*see* **93h:76003**)
Vassallo, A. *see* **Pollett, P. K., 93m:60147**
Vega, José M. *see* **Mancebo, Francisco J., 93i:35079**
Yamada, Hiroyasu (*with* Nozaki, Kazuhiro) Dynamics of wave fronts in excitable media. (English summary) **93m:35165**
Young, G. W. (*with* Hariharan, S. I.; Carnahan, R.) Flow effects in a vertical CVD reactor. (English summary) **93h:76064**

80A50 Chemistry (general) [See mainly 92Exx]

Items with secondary classifications in 80A50

Connor, J. N. L. (*with* Curtis, P. R.; Young, R. A. W.) Uniform asymptotics of oscillating integrals: applications in chemical physics. (*see* **93b:76003**)
Curtis, P. R. *see* **Connor, J. N. L.; et al., (93b:76003)**
Kolpakov, A. G. Averaging in a problem of thermomechanochemistry. (Russian. Russian summary) **93h:35028**
Trinajstić, Nenad ★ Chemical graph theory. **93g:92034**
Young, R. A. W. *see* **Connor, J. N. L.; et al., (93b:76003)**

80A99 Miscellaneous topics

Junghanns, P. (*with* Oestreich, D.) Application of nonlinear singular integral equations to the numerical solution of a symmetric electrochemical machining problem. (English summary) **93f:80026**
Oestreich, D. *see* **Junghanns, P., 93f:80026**
Poezd, A. D. (*with* Tikhonov, N. A.) Determining the parameters of a model of ion-exchange sorption. (Russian. Russian summary)
Rose, L. R. Francis Diffusion with trapping and fast diffusion paths. (*see* **93j:35005**)
Singer, Dennis A fuzzy set approach to nonequilibrium thermodynamics. **93c:80018**
Sun, Gong Luo (*with* Xie, Ying Hua) Transformation of thermodynamic work in the theory of relativity. (Chinese. English summary) **93c:80019**
Tikhonov, N. A. *see* **Poezd, A. D.**
Winfree, A. T. Multiple stable solutions to the dynamical equations of an excitable medium. **93g:80012**
Xie, Ying Hua *see* **Sun, Gong Luo, 93c:80019**

Items with secondary classifications in 80A99

Dobran, Flavio ★ Theory of structured multiphase mixtures. **93g:73024**
Karamzin, Yu. N. *see* **Zakharova, I. G.; et al.**
Trofimov, V. A. *see* **Zakharova, I. G.; et al.**
Zakharova, I. G. (*with* Karamzin, Yu. N.; Trofimov, V. A.) Numerical modeling of thermal self-action of scanned light pulses. (Russian. English and Russian summaries)

81-XX Quantum theory

81-00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Items with secondary classifications in 81-00

Kastler, Daniel A list of papers on algebraic field theory and related subjects. (*see* **93i:81122**)
Steeb, Willi-Hans ★ A handbook of terms used in chaos and quantum chaos. **93d:58001**

81-01 Instructional exposition (textbooks, tutorial papers, etc.)

Bell, John Stewart Six possible worlds of quantum mechanics. **93k:81001**
Berezin, F. A. (*with* Shubin, M. A.) ★ The Schrödinger equation. **93i:81001**
Brandt, Siegmund (*with* Dahmen, H. D.) ★ Quantum mechanics on the personal computer. **93k:81002**
Dahmen, H. D. *see* **Brandt, Siegmund, 93k:81002**
Decker, Roger *see* **Genz, Henning, 93a:81001**
Fließbach, Torsten ★ Quantenmechanik. (German) [Quantum mechanics] **93f:81001**
Genz, Henning (*with* Decker, Roger) ★ Symmetrie und Symmetriebrechung in der Physik. (German) [Symmetry and symmetry-breaking in physics] **93a:81001**
(Kates, Ronald) *see* **Schwabl, Franz, 93a:81002**
(Leites, D. A.) *see* **Berezin, F. A., 93i:81001**
(Litvinov, G. L.) *see* **Berezin, F. A., 93i:81001**

Mattuck, Richard D. ★ A guide to Feynman diagrams in the many-body problem. **93i:81002**
(Medvedev, B. V.) *see* **Schwinger, Julian, 93j:81001**
Misra, S. P. ★ Introduction to supersymmetry and supergravity. **93m:81001**
Peebles, P. J. E. ★ Quantum mechanics. **93b:81001**
Rae, Alastair I. M. ★ Quantum mechanics. **93c:81001**
(Rajabov, Yu.) *see* **Berezin, F. A., 93i:81001**
(Rama Rao, P.) *see* **Misra, S. P., 93m:81001**
(Sakharova, N. A.) *see* **Berezin, F. A., 93i:81001**
Scadron, Michael D. ★ Advanced quantum theory and its applications through Feynman diagrams. **93b:81002**
Schwabl, Franz ★ Quantum mechanics. **93a:81002**
Schwinger, Julian ★ Квантовая кинематика и динамика. (Russian. Russian summary) [Quantum kinematics and dynamics] **93j:81001**
Sharma, Chandra Shekhar Mathematical foundations of nonrelativistic quantum theory. **93g:81001**
(Shekhovtsov, S. G.) *see* **Schwinger, Julian, 93j:81001**
Shubin, M. A. *see* **Berezin, F. A., 93i:81001**

Items with secondary classifications in 81–01

Berestetskiĭ, V. B. (*with* Lifshits, E. M.; Pitaevskiĭ, L. P.) ★ Lehrbuch der theoretischen Physik ("Landau-Lifschitz"). Band IV. (German) [Textbook of theoretical physics ("Landau-Lifschitz"). Vol. IV] **93b:00001a**
Busch, Paul (*with* Lahti, Pekka J.; Mittelstaedt, Peter) ★ The quantum theory of measurement. **93m:81014**
Galgani, Luigi The quest for Planck's constant in classical physics. (English summary) (*see* **93g:81002**)
(Köhnel, Adolf) *see* **Berestetskiĭ, V. B.; et al., 93b:00001a**
Lahti, Pekka J. *see* **Busch, Paul; et al., 93m:81014**
Lawrie, Ian D. ★ A unified grand tour of theoretical physics. **93a:00012**
Lifshits, E. M. *see* **Berestetskiĭ, V. B.; et al., 93b:00001a**
Mermin, N. David ★ Boojums all the way through. **93c:01051**
Mittelstaedt, Peter *see* **Busch, Paul; et al., 93m:81014**
Pitaevskiĭ, L. P. *see* **Berestetskiĭ, V. B.; et al., 93b:00001a**
Prugovečki, Eduard ★ Quantum geometry. **93b:81019**
Rivers, R. J. ★ Path integral methods in quantum field theory. **93c:81098**
Tomaschitz, Roman Quantum chaos on hyperbolic manifolds: a new approach to cosmology. **93d:81048**
(Ziesche, Paul) *see* **Berestetskiĭ, V. B.; et al., 93b:00001a**

81–02 Research exposition (monographs, survey articles)

Arovas, Daniel P. Fractional statistics in quantum mechanics. (*see* **93j:81003**)
Arteca, G. A. (*with* Fernández, Francisco M.; Castro, E. A.) ★ Large order perturbation theory and summation methods in quantum mechanics. **93b:81003**
Asorey, Manuel Conformal invariance in quantum field theory and statistical mechanics. **93c:81002**
Atiyah, Michael F. On the work of Edward Witten. **93e:81001b**
Baez, John C. (*with* Segal, Irving E.; Zhou, Zheng-Fang) ★ Introduction to algebraic and constructive quantum field theory. **93m:81002**
Bagger, Jonathan *see* **Wess, Julius, 93a:81003**
Birmingham, Danny (*with* Blau, Matthias; Rakowski, Mark; Thompson, George) Topological field theory. **93c:81003**
Blau, Matthias *see* **Birmingham, Danny; et al., 93c:81003**
Castro, E. A. *see* **Arteca, G. A.; et al., 93b:81003**
Drouffe, Jean-Michel *see* **Itzykson, Claude, 93k:81003a** *and* **93k:81003b**
Faddeev, L. D. On the work of E. Witten. **93e:81001a**
Fernández, Francisco M. *see* **Arteca, G. A.; et al., 93b:81003**
Itzykson, Claude (*with* Drouffe, Jean-Michel) ★ Statistical field theory. Vol. 1. **93k:81003a**
— (*with* Drouffe, Jean-Michel) ★ Statistical field theory. Vol. 2. **93k:81003b**
Kirsch, Werner Point interactions as solvable models. **93i:81003**
Rakowski, Mark *see* **Birmingham, Danny; et al., 93c:81003**
Rivasseau, Vincent ★ From perturbative to constructive renormalization. **93i:81004**
Segal, Graeme Geometric aspects of quantum field theory. **93f:81002**
Segal, Irving E. *see* **Baez, John C.; et al., 93m:81002**
Sinha, Kalyan B. Quantum mechanics and spectral theory. **93d:81001**
Thompson, George *see* **Birmingham, Danny; et al., 93c:81003**
Wess, Julius (*with* Bagger, Jonathan) ★ Supersymmetry and supergravity. **93a:81003**
(Wilczek, Frank) *see* **Fractional statistics in action, 93e:81002**
(Witten, Edward) *see* **Faddeev, L. D., 93e:81001a** *and* **Atiyah, Michael F., 93e:81001b**
Zhou, Zheng-Fang *see* **Baez, John C.; et al., 93m:81002**

Items listed otherwise than by author

Fractional statistics in action ★ Fractional statistics in action. **93e:81002**
Special Issue:
Fractional statistics in action ★ Fractional statistics in action. **93e:81002**

Items with secondary classifications in 81–02

Accardi, Luigi (*with* Frigerio, Alberto; Lu, Yun Gang) On the relation between the singular and the weak coupling limits. **93i:81109**
Albeverio, Sergio (*with* Brzeźniak, Zdzisław) Infinite-dimensional oscillatory integrals: finite-dimensional approach and some applications. (English summary) **93h:81072**
Alvarez-Gaumé, Luis Random surfaces, statistical mechanics and string theory. **93d:81131**
Béllissard, Jean Renormalization group analysis and quasicrystals. **93k:81045**
Bernard, Denis (*with* LeClair, André) Quantum group symmetries and nonlocal currents in 2D QFT. **93d:81148**
Borchers, H.-J. (*with* Yngvason, Jakob) From quantum fields to local von Neumann algebras. (English summary) **93m:81092**
Boyanovsky, Daniel Gauge invariance and broken symmetries in anyon superfluids. (English summary) **93g:82106**
Brzeźniak, Zdzisław *see* **Albeverio, Sergio, 93h:81072**
Castellani, Leonardo Group-geometric methods in supergravity and superstring theories. **93a:81150**
Chau, Ling-Lie Nonlinear differential equations in physics and their geometrical integrability properties. **93c:81237**
(Cho, Y. M.) *see* **Physics in (2 + 1)-dimension, 93f:81006**
Das, Sumit R. String fields in two-dimensional gravity. **93b:81244**
— Physical properties and symmetries of the $d = 1$ matrix model. **93i:81218**
David, François Louis Matrix models and 2-D gravity. **93c:81201**
Deser, S. Gravity and gauge theories in three dimensions. **93c:81121**
Dijkgraaf, Robbert (*with* Verlinde, Herman; Verlinde, Erik) Notes on topological string theory and 2D quantum gravity. **93c:81202**
Dodonov, V. V. (*with* Man'ko, V. I.; Man'ko, O. V.) A quantum nonstationary oscillator. (Russian. Russian summary) **93g:81016**
Doplicher, Sergio Progress and problems in algebraic quantum field theory. (*see* **93e:00034**)
(Draayer, J. P.) *see* **Group theory and special symmetries in nuclear physics, 93e:81150**
Duplantier, Bertrand Statistical mechanics on a 2D-random surface. (English summary) **93e:82001**
El'khovskiĭ, A. S. *see* **Sil'vestrov, P. G., 93e:81127**
Fefferman, Charles Atoms and analytic number theory. **93g:81017**
Feldman, Joel Introduction to constructive quantum field theory. **93i:81123**
Foda, Omar Conformal field theories on Riemann surfaces. (English summary) **93i:81230**
Fradkina, T. E. An operator-generalized canonical formalism and a series of general relations in the framework of quantum gauge theories. (Russian. Russian summary) **93h:81083**
Fredenhagen, Klaus Structure of superselection sectors in low-dimensional quantum field theory. **93e:81066**
Frigerio, Alberto *see* **Accardi, Luigi; et al., 93i:81109**
Fröhlich, Jürg (*with* Studer, U. M.) Gauge invariance in nonrelativistic many-body theory. (English summary) **93h:81153**
Fröman, Nanny (*with* Fröman, Per Olof) Phase-integral approximation of arbitrary order generated from an unspecified base function. (English summary) **93h:81028**
Fröman, Per Olof *see* **Fröman, Nanny, 93h:81028**
Fuchs, Jürgen Quantum dimensions. (English summary) **93k:81077**
Fujishiro, Takehiko T. (*with* Hayashi, Mitsuo J.) Review of the $N = 2$ superconformal field theory. **93b:81248**
Fushchich, V. I. (*with* Nikitin, A. G.) ★ Симметрия уравнений квантовой механики. (Russian) [Symmetry of equations of quantum mechanics] **93c:81059**
Ge, Mo Lin (*with* Wu, A. C. T.) Quantum groups constructed from the nonstandard braid group representations in the Faddeev-Reshetikhin-Takhtajan approach. II. **93h:81059**
Gervais, Jean-Loup 2D gravity-matter couplings from quantum group. (English summary) **93e:81109**
— (*with* O'Raifeartaigh, Lochlainn; Razumov, A. V.; Savel'ev, M. V.) Gauge conditions for the constrained-WZNW-Toda reductions. (English summary) **93m:81128**
Giuntini, Roberto ★ Quantum logic and hidden variables. **93m:81011**
Goldin, Gerald A. The diffeomorphism group approach to nonlinear quantum systems. (English summary) **93i:81064**
Gomes, Marcelo O. C. On (2 + 1)-dimensional field theories with a Chern-Simons term. (English summary) (*see* **93b:81004**)
Graffi, Sandro Exact quantization of the canonical perturbation theory. (English summary) **93g:81021**
Gross, David J. Nonperturbative string theory. **93c:81172**
Grosse, Harald Supersymmetric quantum mechanics. (English summary) **93g:81028**
Grossman, Bernard Topological quantum field theories: relations between knot theory and four manifold theory. **93f:57041**
Guidry, Mike ★ Gauge field theories. **93g:81090**
Hagedorn, George A. Time-reversal invariance and the time-dependent Born-Oppenheimer approximation. (English summary) **93g:81210**
Hamber, Herbert W. Phases of simplicial quantum gravity. (English summary) **93g:81151**
Hatsugai, Yasuhiro (*with* Kohmoto, Mahito; Wu, Yong Shi[1]) Braid groups, anyons and gauge invariance: on topologically nontrivial surfaces. (English summary) **93m:81090**
Hayashi, Mitsuo J. *see* **Fujishiro, Takehiko T., 93b:81248**
(Hecht, K. T.) *see* **Group theory and special symmetries in nuclear physics, 93e:81150**
Henneaux, Marc The antifield-BRST formalism for gauge theories. (*see* **93j:81003**)
Hoppe, Jens $(2n + 1)$-dimensional integrable field theories. (*see* **93f:81005**)
— ★ Lectures on integrable systems. **93h:58069**
Horváthy, P. A. Monopole scattering. (*see* **93f:81005**)
Huang, Yi Zhi Vertex operator algebras and conformal field theory. **93h:81045**
Iachello, F. (*with* Van Isacker, P.) ★ The interacting boson-fermion model. **93m:81163**
Itzykson, Claude (*with* Zuber, J.-B.) Combinatorics of mapping class groups and matrix integration. (*see* **93j:81003**)
(Jänecke, J.) *see* **Group theory and special symmetries in nuclear physics, 93e:81150**
Jevicki, Antal Matrix models and field theory. (English summary) (*see* **93f:81005**)
(Kapoor, Ashok K.) *see* **Namiki, Mikio, 93m:81076**
Kawai, Hikaru Quantum gravity and random surfaces. (English summary) **93g:81156**
Khalfin, L. A. (*with* Tsirelson, Boris S.) Quantum/classical correspondence in the light of Bell's inequalities. (English summary) **93k:81017**
Kholevo, A. S. Statistical inference for quantum processes. (*see* **93e:81158**)
Kibler, Maurice (*with* Négadi, Tidjani) On quantum groups and their potential use in mathematical chemistry. (English summary) **93k:81101**
Kitazawa, Yoshihisa Random surfaces and the Liouville theory. **93e:81096**
Kleinert, Hagen ★ Path integrals in quantum mechanics, statistics, and polymer physics. **93f:81070**
Koehler, Kenneth Rowland (*with* Mansouri, F.; Vaz, Cenalo; Witten, L.) Scattering in Chern-Simons gravity. (English summary) (*see* **93f:81005**)
Kohmoto, Mahito *see* **Hatsugai, Yasuhiro; et al., 93m:81090**
Kucheryavii, V. I. The Bogolyubov-Parasyuk R-operation in quantum field theory (a survey). (Ukrainian. English, Russian and Ukrainian summaries) **93g:81103**
Kuo, Thomas T. S. (*with* Osnes, Eivind) ★ Folded-diagram theory of the effective interaction in nuclei, atoms and molecules. **93e:81152**

Kuperin, Yu. A. (*with* Merkur'ev, S. P.) Selfadjoint extensions and scattering theory for several-body systems. **93e:47013**
Le Bellac, M. Recent developments in relativistic thermal field theories. (*see* **93d:81005**)
LeClair, André *see* **Bernard, Denis, 93d:81148**
Leutwyler, H. Chiral effective Lagrangians. (*see* **93d:81005**)
Likhttsier, I. M. *see* **Odintsov, S. D., 93f:81117**
Lindblad, Göran Quantum entropy and quantum measurements. (*see* **93e:81158**)
Link, Robert Anomalies and the quantum theory of chiral matter on a line. **93c:81232**
Lu, Yun Gang *see* **Accardi, Luigi; et al., 93i:81109**
Mack, Gerhard (*with* Schomerus, Volker) Quasi Hopf quantum symmetry in quantum theory. **93c:81081**
Mahan, Gerald D. ★ Many-particle physics. **93a:82001**
Man'ko, O. V. *see* **Dodonov, V. V.; et al., 93g:81016**
Man'ko, V. I. *see* **Dodonov, V. V.; et al., 93g:81016**
Mansouri, F. *see* **Koehler, Kenneth Rowland; et al., (93f:81005)**
Marathe, Kishore B. (*with* Martucci, G.) ★ The mathematical foundations of gauge theories. **93k:58002**
Martucci, G. *see* **Marathe, Kishore B., 93k:58002**
Masperi, Luis Nontopological solitons and their stability. (English summary) (*see* **93b:81004**)
Matsuzaki, T. (*with* Suzuki, Takashi) A representation of $U_q(\mathrm{su}(1,1))$ on the space of quasi-primary fields and correlation functions. (English summary) **93m:81064**
Merkur'ev, S. P. *see* **Kuperin, Yu. A., 93e:47013**
(Mittelstaedt, Peter) *see* **Giuntini, Roberto, 93m:81011**
Moore, Gregory W. (*with* Seiberg, Nathan) Lectures on RCFT. **93m:81133b**
— (*with* Seiberg, Nathan) Lectures on RCFT. **93m:81133a**
Morozov, A. Yu. Perturbative methods in string theory. (Russian. English summary) **93h:81100**
Mussardo, Giuseppe Away from criticality: some results from the S matrix approach. **93e:81121**
— Off-critical statistical models: factorized scattering theories and bootstrap program. (English summary) **93i:81245**
Nakanishi, Noboru (*with* Ojima, Izumi) ★ Covariant operator formalism of gauge theories and quantum gravity. **93g:81097**
(Nakazato, Hiromichi) *see* **Namiki, Mikio, 93m:81076**
Namiki, Mikio ★ Stochastic quantization. **93m:81076**
Nash, Charles ★ Differential topology and quantum field theory. **93c:58002**
Négadi, Tidjani *see* **Kibler, Maurice, 93k:81101**
Nelson, Philip Virasoro model space and 2D gravity. **93h:81135**
Nikitin, A. G. *see* **Fushchich, V. I., 93c:81059**
Odintsov, S. D. (*with* Likhttsier, I. M.) Strings at nonzero temperature. (Russian) **93f:81117**
— String theory at nonzero temperature and two-dimensional gravity. **93k:81183**
(Ohba, Ichiro) *see* **Namiki, Mikio, 93m:81076**
Ohya, Masanori Information dynamics and its applications to optical communication processes. (English summary) (*see* **93e:81158**)
Ojima, Izumi *see* **Nakanishi, Noboru, 93g:81097**
(Okano, Keisuke) *see* **Namiki, Mikio, 93m:81076**
O'Raifeartaigh, Lochlainn W-algebras and the embedding of Toda theories in WZNW theories. (English summary) (*see* **93f:81005**)
— *see also* **Gervais, Jean-Loup; et al., 93m:81128**
Osnes, Eivind *see* **Kuo, Thomas T. S., 93e:81152**
Palla, L. Perturbing conformal field theories with extended symmetries. (English summary) (*see* **93f:81005**)
Papadopoulos, N. A. Anomalies from the phenomenological and geometrical points of view. (English summary) **93i:81266**
Parthasarathy, Kalyanapuram Rangachari ★ An introduction to quantum stochastic calculus. **93g:81062**
Phong, D. H. Superstrings and holomorphic supergeometry. **93k:81184**
Razumov, A. V. *see* **Gervais, Jean-Loup; et al., 93m:81128**
Rehren, Karl-Henning Braid group statistics. **93f:81075**
Ricotta, Regina Maria Negative dimensions in quantum field theory. (English summary) **93e:81082**
Savel'ev, M. V. *see* **Gervais, Jean-Loup; et al., 93m:81128**
Schaposnik, Fidel A. Some topics in topological quantum field theories. (*see* **93j:81003**)
Schomerus, Volker *see* **Mack, Gerhard, 93c:81081**
Schroer, Bert New kinematics (statistics and symmetry) in low-dimensional QFT with applications to conformal QFT_2. **93g:81173**
Seiberg, Nathan Notes on quantum Liouville theory and quantum gravity. (English summary) **93h:81136**
— *see also* **Moore, Gregory W., 93m:81133a** *and* **93m:81133b**
Semenoff, Gordon W. Anyons and Chern-Simons theory: a review. **93c:81100**
Sigal, I. M. Quantum mechanics of many-particle systems. **93c:81033**
Sil'vestrov, P. G. (*with* El'khovskii, A. S.) Exact solution of two-dimensional gravity via analytic continuation of matrix model. **93e:81127**
Sjöstrand, Johannes Magnetic Schrödinger operators and effective Hamiltonians. (*see* **93e:81007**)
Smirnov, F. A. Lectures on integrable massive models of quantum field theory. **93b:81149**
Stelle, K. S. w_∞-geometry and w_∞-gravity. **93e:81041**
Studer, U. M. *see* **Fröhlich, Jürg, 93h:81153**
Suzuki, Takashi *see* **Matsuzaki, T., 93m:81064**
(Tanaka, Satoshi) *see* **Namiki, Mikio, 93m:81076**
Thaller, Bernd Dirac particles in magnetic fields. (English summary) **93g:81199**
Truman, Aubrey (*with* Williams, David) Excursions and Itô calculus in Nelson's stochastic mechanics. (English summary) **93i:81019**
Tsirelson, Boris S. *see* **Khalfin, L. A., 93k:81017**
Tsuchiya, Akihiro The construction of conformal field theories. (Japanese) **93k:81223**
Van Isacker, P. *see* **Iachello, F., 93m:81163**
Vaz, Cenalo *see* **Koehler, Kenneth Rowland; et al., (93f:81005)**
Verlinde, Erik *see* **Dijkgraaf, Robbert; et al., 93c:81202**
Verlinde, Herman *see* **Dijkgraaf, Robbert; et al., 93c:81202**
Warner, N. P. Lectures on $N = 2$ superconformal theories and singularity theory. **93m:81138**
Watanabe, Noboru Efficiency of optical modulations with coherent state. (English summary) **93i:81317**
Watts, G. M. T. W-algebras and coset models. (English summary) (*see* **93f:81005**)
Wightman, Arthur S. The present state of quantum field theory. **93c:81106**
— Some comments on the quantum theory of measurement. (*see* **93g:81002**)
Wilczek, Frank Perspectives on particle physics and cosmology. **93g:83101**
Williams, David *see* **Truman, Aubrey, 93i:81019**
Wipf, Andreas Interacting Wess-Zumino-Novikov-Witten theories. (*see* **93f:81005**)
Witten, L. *see* **Koehler, Kenneth Rowland; et al., (93f:81005)**
Wu, A. C. T. *see* **Ge, Mo Lin, 93h:81059**
Wu, Yong Shi[1] *see* **Hatsugai, Yasuhiro; et al., 93m:81090**
Yafaev, D. R. Radiation conditions and scattering theory for N-particle Hamiltonians (main ideas of the approach). (English summary) (*see* **93e:35005**)
— Radiation conditions and scattering theory for N-particle Schrödinger operators. **93m:81152**
(Yamanaka, Yoshiya) *see* **Namiki, Mikio, 93m:81076**
Yngvason, Jakob *see* **Borchers, H.-J., 93m:81092**
Zambrini, Jean-Claude Euclidean quantum mechanics and semiclassical limit. **93f:81026**
Zuber, J.-B. Graphs, algebras, conformal field theories and integrable lattice models. **93c:81229**
— *see also* **Itzykson, Claude, (93j:81003)**

Items listed otherwise than by author

Ann Arbor, MI ★ Group theory and special symmetries in nuclear physics. **93e:81150**
Group theory and special symmetries in nuclear physics ★ Group theory and special symmetries in nuclear physics. **93e:81150**
Physics in (2 + 1)-dimension ★ Physics in (2 + 1)-dimension. **93f:81006**
School:
Mathematical Physics ★ Physics in (2 + 1)-dimension. **93f:81006**
Sorak Mountain Resort ★ Physics in (2 + 1)-dimension. **93f:81006**
Symposium:
Group Theory and Special Symmetries in Nuclear Physics ★ Group theory and special symmetries in nuclear physics. **93e:81150**

81–03 Historical (must also be assigned at least one classification number from Section 01)

(Bohr, Niels) *see* **Zoubek, G., 93j:81002**
Kastler, Daniel Algebraic field theory: recollections and thoughts about the future. (English summary) **93k:81004**
Lauth, B. *see* **Zoubek, G., 93j:81002**
Lochak, Georges Louis de Broglie's conception of physics. (English summary) **93m:81003**
Zoubek, G. (*with* Lauth, B.) Zur Rekonstruktion des Bohrschen Forschungsprogramms. I, II. [On the reconstruction of Bohr's research program. I, II] **93j:81002**

Items with secondary classifications in 81–03

Aschman, David The legacy of Erwin Schrödinger: quantum mechanics. **93a:01029**
(Bell, John Stewart) *see* **Bernstein, Jeremy, 93a:01031**
Beller, Mara The birth of Bohr's complementarity: the context and the dialogues. **93d:01038**
Bernstein, Jeremy ★ Quantum profiles. **93a:01031**
(Besso, M.) *see* **Bernstein, Jeremy, 93a:01031**
(Bohr, Niels) *see* **Beller, Mara, 93d:01038**
Brown, Laurie M. (*with* Rechenberg, Helmut) The development of the vector meson theory in Britain and Japan (1937–38). **93a:01034**
Bub, Jeffrey *see* **Hájek, Alan, 93f:81012**
Cushing, James T. ★ Theory construction and selection in modern physics. **93b:00005**
DeWitt, Bryce S. The uses and implications of curved-spacetime propagators: a personal view. **93k:81155**
Flamm, Dieter Neueres zum Weltbild der Quantenmechanik. [Recent remarks on the conception of the world of quantum mechanics] (*see* **93b:00009**)
Galgani, Luigi The quest for Planck's constant in classical physics. (English summary) (*see* **93g:81002**)
Hájek, Alan (*with* Bub, Jeffrey) EPR. **93f:81012**
Hey, J. D. Erwin Schrödinger (1887–1961). **93a:01049**
Klimyk, A. U. *see* **Sitenko, A. G.; et al., 93d:01079**
Kragh, Helge Relativistic collisions: the work of Christian Møller in the early 1930s. **93c:01027**
Mackey, George W. ★ The scope and history of commutative and noncommutative harmonic analysis. **93g:22006**
(Møller, Christian) *see* **Kragh, Helge, 93c:01027**
(Parasyuk, O. S.) *see* **Sitenko, A. G.; et al., 93d:01079**
Rechenberg, Helmut *see* **Brown, Laurie M., 93a:01034**
Roqué, Xavier Møller scattering: a neglected application of early quantum electrodynamics. **93k:01054**
(Schrödinger, Erwin) *see* **Aschman, David, 93a:01029** *and* **Hey, J. D., 93a:01049**
Sitenko, A. G. (*with* Klimyk, A. U.; Yatsun, V. A.) Ostap Stepanovich Parasyuk (on the occasion of his seventieth birthday). (Ukrainian) **93d:01079**
Straumann, Norbert Von der Stech-Jensen-Transformation zur universellen V-A-Wechselwirkung. (German summary) [From the Stech-Jensen transformation to the universal V-A interaction] **93k:01056**
(Wheeler, John Archibald) *see* **Bernstein, Jeremy, 93a:01031**
Yatsun, V. A. *see* **Sitenko, A. G.; et al., 93d:01079**

Items listed otherwise than by author

Birthday:
Parasyuk, O. S. *see* **Sitenko, A. G.; et al., 93d:01079**

81–04 Explicit machine computation and programs (not the theory of computation or programming)

Fairweather, Graeme *see* **Robinson, Mark P.; et al.**
Herbst, Ben M. *see* **Robinson, Mark P.; et al.**
Robinson, Mark P. (*with* Fairweather, Graeme; Herbst, Ben M.) On the numerical solution of the cubic Schrödinger equation in one space variable.

Items with secondary classifications in 81–04

Alon, Ofir E. (*with* Moiseyev, Nimrod) Balslev-Combes theorem within the framework of the finite-matrix approximation. (English summary) **93i:81303**
Antonsen, Thomas M., Jr. *see* **Couchman, Luise; et al., 93k:81059**
Austin, Elizabeth J. (*with* Wilkinson, Michael) Statistical properties of parameter-dependent classically chaotic quantum systems. (English summary) **93h:81029**
Béllissard, Jean *see* **Montambaux, Gilles; et al., 93k:81060**
Bender, Carl M. (*with* Boettcher, Stefan; Lipatov, L. N.) Almost zero-dimensional quantum field theories. (English summary) **93k:81152**
Berman, G. P. (*with* Rubaev, V. Yu.; Zaslavskii, G. M.) The problem of quantum chaos in a kicked harmonic oscillator. **93b:81073**
Blum, Thomas (*with* Goldschmidt, Yadin Y.) Directed paths with random phases. (English summary) **93c:81094**
Boettcher, Stefan *see* **Bender, Carl M.; et al., 93k:81152**
Brandt, Siegmund (*with* Dahmen, H. D.) ★ Quantum mechanics on the personal computer. **93k:81002**
Brézin, Édouard (*with* Hikami, Shinobu) A naive matrix-model approach to 2D quantum gravity coupled to matter of arbitrary central charge. **93c:81194**
Campos, R. G. (*with* Juárez, L. Z.) A discretization of the continuous Fourier transform. **93f:65097**
Caurier, E. (*with* Drożdż, S.; Okołowicz, J.; Płoszajczak, M.) Geometrical quantization in dynamical variational approach. **93a:81089**
Chiu, Ying Nan *see* **Lai, Shan Tao, 93d:81061**
Couchman, Luise (*with* Ott, Edward; Antonsen, Thomas M., Jr.) Quantum chaos in systems with ray splitting. (English summary) **93k:81059**
Dahmen, H. D. *see* **Brandt, Siegmund, 93k:81002**
DeWitt, Bryce S. *see* **deLyra, Jorge L.; et al.**
Drożdż, S. *see* **Caurier, E.; et al., 93a:81089**
Fehér, László (*with* Horváthy, P. A.) Particle in a self-dual monopole field. **93d:81053**
Foong, See Kit *see* **deLyra, Jorge L.; et al.**
Fröhlich, Jürg (*with* Gabbiani, F.; Marchetti, P. A.) Superselection structure and statistics in three-dimensional local quantum theory. **93c:81102**
Gabbiani, F. *see* **Fröhlich, Jürg; et al., 93c:81102**
Goldschmidt, Yadin Y. *see* **Blum, Thomas, 93c:81094**
Hikami, Shinobu *see* **Brézin, Édouard, 93c:81194**
Horváthy, P. A. *see* **Fehér, László, 93d:81053**
Hu, C.-Y. *see* **Kvitsinskii, A. A., 93c:81259**
Janse van Rensburg, E. J. (*with* Torrie, G. M.) Estimation of multidimensional integrals: is Monte Carlo the best method? (English summary) **93m:65008**
Jáuregui, R. (*with* Récamier, J.) Iterative Bogoliubov transformations and anharmonic oscillators. (English summary) **93e:81017**
Joy, M. P. (*with* Sabir, M.) Chaotic behaviour and order to chaos transition of 't Hooft-Polyakov monopoles. **93c:81125**
Juárez, L. Z. *see* **Campos, R. G., 93f:65097**
Kausch, H. G. (*with* Watts, G. M. T.) Duality in quantum Toda theory and W-algebras. (English summary) **93i:81234**
Koike, F. Explicit formulae of angular momentum coupling coefficients. (English summary) **93i:81054**
Korzeniowski, Andrzej Quantum mechanical simulation of the hydrogen molecule. **93a:81034**
Kvitsinskii, A. A. (*with* Hu, C.-Y.) Solution of three-dimensional Faddeev equations for three-body Coulomb bound states. **93c:81259**
Lai, Shan Tao (*with* Chiu, Ying Nan) Exact computation of the 9-j symbols. **93d:81061**
Landtman, M. Calculation of low lying states in the potential $V(r) = ar^2 + br^{-4} + cr^{-6}$ using B-spline basis sets. (English summary)
Lipatov, L. N. *see* **Bender, Carl M.; et al., 93k:81152**
deLyra, Jorge L. (*with* DeWitt, Bryce S.; Foong, See Kit; et al.) The quantized $O(1,2)/O(2) \times Z_2$ sigma model has no continuum limit in four dimensions. II. Lattice simulation. (English summary)
March, N. H. *see* **Pfalzner, S., 93k:81260**
Marchetti, P. A. *see* **Fröhlich, Jürg; et al., 93c:81102**
Moiseyev, Nimrod *see* **Alon, Ofir E., 93i:81303**
Montambaux, Gilles (*with* Poilblanc, Didier; Béllissard, Jean; Sire, Clément) Quantum chaos in spin-fermion models. (English summary) **93k:81060**
Muraskin, M. Computer two-dimensional maps of loop soliton lattice systems using the new approach to the no integrability aesthetic field equations. **93c:81252**
Okołowicz, J. *see* **Caurier, E.; et al., 93a:81089**
Ott, Edward *see* **Couchman, Luise; et al., 93k:81059**
Peyrard, Michel (*with* Piette, Bernard; Zakrzewski, Wojciech J.) Soliton scattering in the Skyrme model in $(2+1)$ dimensions. II. More general systems. **93a:81121b**
Pfalzner, S. (*with* March, N. H.) Thomas-Fermi theory in magnetic fields of arbitrary strength. (English summary) **93k:81260**
Piette, Bernard (*with* Sutcliffe, Paul M.; Zakrzewski, Wojciech J.) Soliton antisoliton scattering in $(2+1)$ dimensions. (English summary)
— *see also* **Peyrard, Michel; et al., 93a:81121b**
Płoszajczak, M. *see* **Caurier, E.; et al., 93a:81089**
Poilblanc, Didier *see* **Montambaux, Gilles; et al., 93k:81060**
Pozdneev, S. A. Application of quantum scattering theory for calculations of various processes in nuclear, atomic and molecular physics. (Russian. English summary) **93c:81261**
Récamier, J. *see* **Jáuregui, R., 93e:81017**
Robnik, Marko Improved energy level statistics for a family of billiards with analytic boundaries. **93c:81050**
Rubaev, V. Yu. *see* **Berman, G. P.; et al., 93b:81073**
Saakyan, D. B. (*with* Shagoyan, R. M.) Topology distribution of the contribution of diagrams of a one-matrix integral of Hermitian matrices of high order. (Russian) **93a:81184**
Sabir, M. *see* **Joy, M. P., 93c:81125**
Shagoyan, R. M. *see* **Saakyan, D. B., 93a:81184**
Sire, Clément *see* **Montambaux, Gilles; et al., 93k:81060**
Steeb, Willi-Hans Computer algebra and its applications in physics. (English summary) **93i:65005**
Sutcliffe, Paul M. *see* **Piette, Bernard; et al.**
Svaiter, B. F. *see* **Svaiter, N. F., 93b:81176**
Svaiter, N. F. (*with* Svaiter, B. F.) The analytic regularization zeta function method and the cut-off method in the Casimir effect. **93b:81176**
Taşeli, H. The influence of the boundedness of polynomial potentials on the spectrum of the Schrödinger equation. **93d:81037**
Torrie, G. M. *see* **Janse van Rensburg, E. J., 93m:65008**
Wang, Sheng (*with* Yang, Yi Song) Solutions of the generalized Bogomol'nyĭ equations via monotone iterations. (English summary) **93k:81148**
Watts, G. M. T. *see* **Kausch, H. G., 93i:81234**
Wilkinson, Michael *see* **Austin, Elizabeth J., 93h:81029**
Witwit, M. R. M. Energy levels of two-dimensional anharmonic oscillators with sextic and octic perturbations. (English summary) **93i:81028**
Yang, Yi Song *see* **Wang, Sheng, 93k:81148**
Zakrzewski, Wojciech J. *see* **Peyrard, Michel; et al., 93a:81121b** *and* **Piette, Bernard; et al.**
Zaslavskii, G. M. *see* **Berman, G. P.; et al., 93b:81073**
Zwanziger, Daniel Critical limit of lattice gauge theory. **93a:81146**

81–05 Experimental papers

Items with secondary classifications in 81–05

Lamoreaux, Steve K. A review of the experimental tests of quantum mechanics. (English summary)
Segev, Mordechai (*with* Solomon, Richard; Yariv, Amnon) Manifestation of Berry's phase in image-bearing optical beams.
Solomon, Richard *see* **Segev, Mordechai; et al.**
Yariv, Amnon *see* **Segev, Mordechai; et al.**

81–06 Proceedings, conferences, collections, etc.

(Accardi, Luigi) *see* **Quantum probability & related topics, 93e:81006**
(Aizawa, Y.) *see* **Proceedings: Symposium on Quantum Physics and the Universe, 93m:81006**
(Ambjørn, Jan) *see* **Random surfaces and 2D quantum gravity, 93d:81004**
(Araki, Huzihiro) *see* **Special issue dedicated to R. Haag on the occasion of his 70th birthday, 93h:81004**
(van Baal, Pierre) *see* **Lattice 92, 93m:81005**
(Balslev, Erik) *see* **Schrödinger operators, 93d:81006**
(Boutet de Monvel-Berthier, Anne-Marie) *see* **Recent developments in quantum mechanics, 93e:81007**
(Cho, Y. M.) *see* **Physics in $(2+1)$-dimension, 93f:81006**
(Curtright, Thomas) *see* **Quantum field theory, statistical mechanics, quantum groups and topology, 93m:81007**
(Damgaard, P. H.) *see* **Random surfaces and 2D quantum gravity, 93d:81004**
(Davies, Ian M.) *see* **Stochastics and quantum mechanics, 93c:81005**
(Diță, Petre) *see* **Recent developments in quantum mechanics, 93e:81007**
(Doebner, Heinz-Dietrich) *see* **Differential geometry, group representations, and quantization, 93c:81004**
(Domokos, G.) *see* **Nonperturbative methods in low-dimensional quantum field theories, 93f:81005**
(Duff, M. J.) *see* **Supermembranes and physics in $2+1$ dimensions, 93g:81003**
(Espriu, D.) *see* **Random surfaces and 2D quantum gravity, 93d:81004**
(Fainberg, V. Ya.) *see* **Sakharov Memorial Lectures in Physics, 93h:81003**
(Falomir, H.) *see* **Festschrift: Giambiagi, J. J., 93b:81004**
(Fröhlich, Jürg) *see* **New symmetry principles in quantum field theory, 93h:81002**
(Gamboa Saraví, R. E.) *see* **Festschrift: Giambiagi, J. J., 93b:81004**
(Gausterer, H.) *see* **Recent aspects of quantum fields, 93d:81005**
(Giambiagi, J. J.) *see* **Festschrift: Giambiagi, J. J., 93b:81004**
(Giannoni, M.-J.) *see* **Chaos and quantum physics, 93e:81003**
(Guerra, Francesco) *see* **Probabilistic methods in mathematical physics, 93g:81002**
(Haag, Rudolf) *see* **Special issue dedicated to R. Haag on the occasion of his 70th birthday, 93h:81004**
(Hennig, J. D.) *see* **Differential geometry, group representations, and quantization, 93c:81004**
('t Hooft, Gerard) *see* **New symmetry principles in quantum field theory, 93h:81002**
(Horváth, Zalán) *see* **Nonperturbative methods in low-dimensional quantum field theories, 93f:81005**
(Jaffe, Arthur) *see* **New symmetry principles in quantum field theory, 93h:81002**
(Keldysh, L. V.) *see* **Sakharov Memorial Lectures in Physics, 93h:81003**
(Kövesi-Domokos, S.) *see* **Nonperturbative methods in low-dimensional quantum field theories, 93f:81005**
(Latorre, José Ignacio) *see* **Random surfaces and 2D quantum gravity, 93d:81004**
(Leal Ferreira, P.) *see* **Festschrift: Giambiagi, J. J., 93b:81004**
(Loffredo, Maria I.) *see* **Probabilistic methods in mathematical physics, 93g:81002**
(Lücke, W.) *see* **Differential geometry, group representations, and quantization, 93c:81004**
(Mack, Gerhard) *see* **New symmetry principles in quantum field theory, 93h:81002**
(Maeda, Kei-ichi) *see* **Proceedings: Symposium on Quantum Physics and the Universe, 93m:81006**
(Marchioro, Carlo) *see* **Probabilistic methods in mathematical physics, 93g:81002**
(Martellini, Maurizio) *see* **Topological and quantum group methods in field theory and condensed matter physics, 93e:81008**

(Mezincescu, Luca) *see* **Quantum field theory, statistical mechanics, quantum groups and topology, 93m:81007**
(Mickelsson, Jouko) *see* **Topological and geometrical methods in field theory, 93m:81008**
(Mitter, Heinrich) *see* **Recent aspects of quantum fields, 93d:81005**
(Mitter, P. K.) *see* **New symmetry principles in quantum field theory, 93h:81002**
(Nagaoka, Y.) *see* **Low-dimensional field theories and condensed matter physics, 93f:81004**
(Nahm, Werner) *see* **Topological methods in quantum field theories, 93f:81007**
(Namiki, Mikio) *see* **Proceedings: Symposium on Quantum Physics and the Universe, 93m:81006**
(Nath, Pran) *see* **Particles, strings and cosmology, 93a:81004**
(Nenciu, Gheorghe) *see* **Recent developments in quantum mechanics, 93e:81007**
(Nepomechie, Rafael I.) *see* **Quantum field theory, statistical mechanics, quantum groups and topology, 93m:81007**
(Ohba, Ichiro) *see* **Proceedings: Symposium on Quantum Physics and the Universe, 93m:81006**
(Pavičić, Mladen) *see* **Quantum logics, 93d:81002** *and* **93d:81003**
(Pekonen, Osmo) *see* **Topological and geometrical methods in field theory, 93m:81008**
(Petrina, D. Ya.) *see* **Methods of mathematical physics in infinite systems, 93e:81004**
(Pope, C. N.) *see* **Supermembranes and physics in 2 + 1 dimensions, 93g:81003**
(Purice, Radu) *see* **Recent developments in quantum mechanics, 93e:81007**
(Pykacz, Jarosław) *see* **Quantum logics, 93d:81002** *and* **93d:81003**
(Randjbar-Daemi, S.) *see* **Topological methods in quantum field theories, 93f:81007**
(Rasetti, Mario) *see* **Topological and quantum group methods in field theory and condensed matter physics, 93e:81008**
(Reucroft, Stephen) *see* **Particles, strings and cosmology, 93a:81004**
(Sakharov, A. D.) *see* **Sakharov Memorial Lectures in Physics, 93h:81003**
(Schaposnik, Fidel A.) *see* **Festschrift: Giambiagi, J. J., 93b:81004**
(Sezgin, Ergin) *see* **Topological methods in quantum field theories, 93f:81007** *and* **Supermembranes and physics in 2 + 1 dimensions, 93g:81003**
(Smit, Jan) *see* **Lattice 92, 93m:81005**
(Stora, Raymond) *see* **New symmetry principles in quantum field theory, 93h:81002**
(Teitelboim, Claudio) *see* **Quantum mechanics of fundamental systems, 93e:81005** *and* **93j:81003**
(Tolar, J.) *see* **Differential geometry, group representations, and quantization, 93c:81004**
(Truman, Aubrey) *see* **Stochastics and quantum mechanics, 93c:81005**
(Voros, A.) *see* **Chaos and quantum physics, 93e:81003**
(Wheater, J. F.) *see* **Random surfaces and 2D quantum gravity, 93d:81004**
(Witten, Edward) *see* **Topological methods in quantum field theories, 93f:81007**
(Zanelli, Jorge) *see* **Quantum mechanics of fundamental systems, 93e:81005** *and* **93j:81003**
(Zinn-Justin, Jean) *see* **Chaos and quantum physics, 93e:81003**
(Zurek, Wojciech H.) *see* **Complexity, entropy and the physics of information, 93m:81004**

Items listed otherwise than by author

Aarhus ★ Schrödinger operators. **93d:81006**
Amsterdam ★ Lattice 92. **93m:81005**
Barcelona ★ Random surfaces and 2D quantum gravity. **93d:81004**
Birthday:
  Doebner, Heinz-Dietrich ★ Differential geometry, group representations, and quantization. **93c:81004**
  Giambiagi, J. J. ★ J. J. Giambiagi Festschrift. **93b:81004**
  Haag, Rudolf ★ Special issue dedicated to R. Haag on the occasion of his 70th birthday. **93h:81004**
Boston, MA ★ Particles, strings and cosmology. **93a:81004**
Cargèse ★ New symmetry principles in quantum field theory. **93h:81002**
Chaos and quantum physics ★ Chaos et physique quantique. [Chaos and quantum physics] **93e:81003**
Chaos et physique quantique ★ Chaos et physique quantique. [Chaos and quantum physics] **93e:81003**
Complexity, entropy and the physics of information ★ Complexity, entropy and the physics of information. **93m:81004**
Conference:
  Nuclear Physics ★ Recent aspects of quantum fields. **93d:81005**
  Sakharov Physics ★ Sakharov Memorial Lectures in Physics. Vol. 1, 2. **93h:81003**
  Supermembranes and Physics in 2 + 1 Dimensions ★ Supermembranes and physics in 2 + 1 dimensions. **93g:81003**
  Topological Methods in Quantum Field Theories ★ Topological methods in quantum field theories. **93f:81007**
Coral Gables, FL ★ Quantum field theory, statistical mechanics, quantum groups and topology. **93m:81007**
Debrecen ★ Nonperturbative methods in low-dimensional quantum field theories. **93f:81005**
Differential equations and spectrum scattering theory ★ Bibun hōteishiki to supekutoru sanran riron. (Japanese) [Differential equations and spectrum scattering theory] **93f:81003**
Differential geometry, group representations, and quantization ★ Differential geometry, group representations, and quantization. **93c:81004**
Festschrift:
  Giambiagi, J. J. ★ J. J. Giambiagi Festschrift. **93b:81004**
Gdańsk ★ Quantum logics. Part I. **93d:81002**
— ★ Quantum logics. Part II. **93d:81003**
Kyoto ★ Low-dimensional field theories and condensed matter physics. **93f:81004**
Lattice 92 ★ Lattice 92. **93m:81005**
Lecture Notes in Physics ★ Differential geometry, group representations, and quantization. **93c:81004**
— ★ Recent aspects of quantum fields. **93d:81005**
— ★ Schrödinger operators. **93d:81006**
Lectures:
  Sakharov Memorial Physics ★ Sakharov Memorial Lectures in Physics. Vol. 1, 2. **93h:81003**
Les Houches ★ Chaos et physique quantique. [Chaos and quantum physics] **93e:81003**
Low-dimensional field theories and condensed matter physics ★ Low-dimensional field theories and condensed matter physics. **93f:81004**
Madras ★ Matrix models, random surfaces and 2-D gravity. **93h:81001**
Matrix models, random surfaces and 2-D gravity ★ Matrix models, random surfaces and 2-D gravity. **93h:81001**
Meeting:
  Quantum Logics ★ Quantum logics. Part I. **93d:81002**
  — ★ Quantum logics. Part II. **93d:81003**
  Quantum Mechanics of Fundamental Systems ★ Quantum mechanics of fundamental systems. 2. **93e:81005**
  — ★ Quantum mechanics of fundamental systems. 3. **93j:81003**
  Stochastics and Quantum Mechanics ★ Stochastics and quantum mechanics. **93c:81005**
Methods of mathematical physics in infinite systems ★ Методы математической физики бесконечных систем. (Russian) [Methods of mathematical physics in infinite systems] **93e:81004**
Moscow ★ Sakharov Memorial Lectures in Physics. Vol. 1, 2. **93h:81003**
NATO Advanced Research Workshop:
  Quantum Field Theory, Statistical Mechanics, Quantum Groups and Topology ★ Quantum field theory, statistical mechanics, quantum groups and topology. **93m:81007**
NATO Advanced Study Institute:
  New Symmetry Principles in Quantum Field Theory ★ New symmetry principles in quantum field theory. **93h:81002**
New symmetry principles in quantum field theory ★ New symmetry principles in quantum field theory. **93h:81002**
Nonperturbative methods in low-dimensional quantum field theories ★ Nonperturbative methods in low-dimensional quantum field theories. **93f:81005**
Particles, strings and cosmology ★ Particles, strings and cosmology. **93a:81004**
Physics in (2 + 1)-dimension ★ Physics in (2 + 1)-dimension. **93f:81006**
Poiana Braşov ★ Recent developments in quantum mechanics. **93e:81007**
Probabilistic methods in mathematical physics ★ Probabilistic methods in mathematical physics. **93g:81002**
Proceedings:
  Symposium on Quantum Physics and the Universe ★ Proceedings of the International Symposium on Quantum Physics and the Universe. **93m:81006**
Quantum field theory, statistical mechanics, quantum groups and topology ★ Quantum field theory, statistical mechanics, quantum groups and topology. **93m:81007**
Quantum logics ★ Quantum logics. Part I. **93d:81002**
— ★ Quantum logics. Part II. **93d:81003**
Quantum mechanics of fundamental systems ★ Quantum mechanics of fundamental systems. 2. **93e:81005**
— ★ Quantum mechanics of fundamental systems. 3. **93j:81003**
Quantum probability & related topics ★ Quantum probability & related topics. **93e:81006**
Random surfaces and 2D quantum gravity ★ Random surfaces and 2D quantum gravity. **93d:81004**
Recent aspects of quantum fields ★ Recent aspects of quantum fields. **93d:81005**
Recent developments in quantum mechanics ★ Recent developments in quantum mechanics. **93e:81007**
Sakharov Memorial Lectures in Physics ★ Sakharov Memorial Lectures in Physics. Vol. 1, 2. **93h:81003**
Santa Fe, NM ★ Complexity, entropy and the physics of information. **93m:81004**
Santiago ★ Quantum mechanics of fundamental systems. 2. **93e:81005**
— ★ Quantum mechanics of fundamental systems. 3. **93j:81003**
Schladming ★ Recent aspects of quantum fields. **93d:81005**
School:
  Mathematical Physics ★ Physics in (2 + 1)-dimension. **93f:81006**
  Recent Developments in Quantum Mechanics ★ Recent developments in quantum mechanics. **93e:81007**
  Theoretical Physics ★ Chaos et physique quantique. [Chaos and quantum physics] **93e:81003**
Schrödinger operators ★ Schrödinger operators. **93d:81006**
Seminar:
  Low-dimensional Field Theories and Condensed Matter Physics ★ Low-dimensional field theories and condensed matter physics. **93f:81004**
Siena ★ Probabilistic methods in mathematical physics. **93g:81002**
Sorak Mountain Resort ★ Physics in (2 + 1)-dimension. **93f:81006**
Special issue dedicated to R. Haag on the occasion of his 70th birthday ★ Special issue dedicated to R. Haag on the occasion of his 70th birthday. **93h:81004**
Special Issue:
  Haag, Rudolf ★ Special issue dedicated to R. Haag on the occasion of his 70th birthday. **93h:81004**
  Topological and quantum group methods in field theory and condensed matter physics ★ Topological and quantum group methods in field theory and condensed matter physics. **93e:81008**
Stochastics and quantum mechanics ★ Stochastics and quantum mechanics. **93c:81005**
Supermembranes and physics in 2 + 1 dimensions ★ Supermembranes and physics in 2 + 1 dimensions. **93g:81003**
Swansea ★ Stochastics and quantum mechanics. **93c:81005**
Symposium:
  Differential Equations and Spectrum Scattering Theory ★ Bibun hōteishiki to supekutoru sanran riron. (Japanese) [Differential equations and spectrum scattering theory] **93f:81003**
  Lattice Field Theory ★ Lattice 92. **93m:81005**
  Particles, Strings and Cosmology ★ Particles, strings and cosmology. **93a:81004**
  Quantum Physics and the Universe ★ Proceedings of the International Symposium on Quantum Physics and the Universe. **93m:81006**
  Topological and Geometrical Methods in Field Theory ★ Topological and geometrical methods in field theory. **93m:81008**
Tokyo ★ Proceedings of the International Symposium on Quantum Physics and the Universe. **93m:81006**

Topological and geometrical methods in field theory ★ Topological and geometrical methods in field theory. **93m:81008**
Topological and quantum group methods in field theory and condensed matter physics ★ Topological and quantum group methods in field theory and condensed matter physics. **93e:81008**
Topological methods in quantum field theories ★ Topological methods in quantum field theories. **93f:81007**
Trieste ★ Supermembranes and physics in 2 + 1 dimensions. **93g:81003**
— ★ Topological methods in quantum field theories. **93f:81007**
Turku ★ Topological and geometrical methods in field theory. **93m:81008**
Workshop:
Complexity, Entropy and the Physics of Information ★ Complexity, entropy and the physics of information. **93m:81004**
Current Problems in Particle Theory ★ Nonperturbative methods in low-dimensional quantum field theories. **93f:81005**
Matrix Models, Random Surfaces and 2-D Gravity ★ Matrix models, random surfaces and 2-D gravity. **93h:81001**
Probabilistic Methods in Mathematical Physics ★ Probabilistic methods in mathematical physics. **93g:81002**
Random Surfaces and 2D Quantum Gravity ★ Random surfaces and 2D quantum gravity. **93d:81004**
Schrödinger Operators ★ Schrödinger operators. **93d:81006**

Items with secondary classifications in 81–06

(Albeverio, Sergio) *see* **Ideas and methods in quantum and statistical physics, 93e:00034**
(Audretsch, Jürgen) *see* **How many lives has Schrödinger's cat, 93b:81006**
(Bendjaballah, C.) *see* **Quantum aspects of optical communications, 93e:81158**
(Boudet, Roger) *see* **Clifford algebras and their applications in mathematical physics, 93f:00011**
(Chau, Ling-Lie) *see* **Differential geometric methods in theoretical physics, 93a:00022**
(Eguchi, Tohru) *see* **Common trends in mathematics and quantum field theories, 93c:00006** *and* **Infinite analysis, 93g:00027**
(Fenstad, Jens Erik) *see* **Ideas and methods in quantum and statistical physics, 93e:00034**
(Fukugita, M.) *see* **Lattice 91, 93d:81130**
(Fulling, Stephen A.) *see* **Forty more years of ramifications: spectral asymptotics and its applications, 93d:58003**
(Gielerak, Roman) *see* **Quantum groups and related topics, 93h:00021**
(Gotay, Mark J.) *see* **Mathematical aspects of classical field theory, 93d:58006**
(Heller, U. M.) *see* **Lattice 90, 93b:81195**
(Helmstetter, J.) *see* **Clifford algebras and their applications in mathematical physics, 93f:00011**
(Hirota, Osamu) *see* **Quantum aspects of optical communications, 93e:81158**
(Høegh-Krohn, Raphael) *see* **Ideas and methods in quantum and statistical physics, 93e:00034**
(Holden, Helge) *see* **Ideas and methods in quantum and statistical physics, 93e:00034**
(Inami, Takeo) *see* **Common trends in mathematics and quantum field theories, 93c:00006**
(Iwasaki, Yoichi) *see* **Lattice 91, 93d:81130**
(Jimbo, Michio) *see* **Infinite analysis, 93g:00027**
(Kastler, Daniel) *see* **Algebraic theory of superselection sectors, 93i:81122**
(Kennedy, A. D.) *see* **Lattice 90, 93b:81195**
(Lindstrøm, Tom) *see* **Ideas and methods in quantum and statistical physics, 93e:00034**
(Lukierski, Jerzy) *see* **Quantum groups and related topics, 93h:00021**
(Mainzer, Klaus) *see* **How many lives has Schrödinger's cat, 93b:81006**
(Marsden, Jerrold Eldon) *see* **Mathematical aspects of classical field theory, 93d:58006**
(Micali, Artibano) *see* **Clifford algebras and their applications in mathematical physics, 93f:00011**
(Miwa, Tetsuji) *see* **Common trends in mathematics and quantum field theories, 93c:00006**
(Moncrief, Vincent) *see* **Mathematical aspects of classical field theory, 93d:58006**
(Nahm, Werner) *see* **Differential geometric methods in theoretical physics, 93a:00022**
(Narcowich, Francis J.) *see* **Forty more years of ramifications: spectral asymptotics and its applications, 93d:58003**
(Okawa, M.) *see* **Lattice 91, 93d:81130**
(Popowicz, Ziemowit) *see* **Quantum groups and related topics, 93h:00021**
(Reynaud, S.) *see* **Quantum aspects of optical communications, 93e:81158**
(Sanielevici, S.) *see* **Lattice 90, 93b:81195**
(Swieca, Jorge André) *see* **Algebraic theory of superselection sectors, 93i:81122**
(Tsuchiya, Akihiro) *see* **Infinite analysis, 93g:00027**
(Ukawa, A.) *see* **Lattice 91, 93d:81130**
(Velo, G.) *see* **Constructive quantum field theory, 93g:81074**
(Wightman, Arthur S.) *see* **Constructive quantum field theory, 93g:81074**
(Wilczek, Frank) *see* **Fractional statistics in action, 93e:81002**

Items listed otherwise than by author

Algebraic theory of superselection sectors ★ The algebraic theory of superselection sectors. **93i:81122**
Bibliography:
Swieca, Jorge André ★ The algebraic theory of superselection sectors. **93i:81122**
Clifford algebras and their applications in mathematical physics ★ Clifford algebras and their applications in mathematical physics. **93f:00011**
Colloquium:
Semiclassical Methods ★ Méthodes semi-classiques. Vol. 2. [Semiclassical methods. Vol. 2] **93m:00046**
Common trends in mathematics and quantum field theories ★ Common trends in mathematics and quantum field theories. **93c:00006**
Conference:
Algebraic Theory of Superselection Sectors and Field Theory ★ The algebraic theory of superselection sectors. **93i:81122**
Differential Geometric Methods in Theoretical Physics: Physics and Geometry ★ Differential geometric methods in theoretical physics. **93a:00022**
Lattice Field Theory ★ Lattice 90. **93b:81195**
Conference: (*cont'd.*)
Mathematical Aspects of Classical Field Theory ★ Mathematical aspects of classical field theory. **93d:58006**
Constructive quantum field theory ★ Constructive quantum field theory. II. **93g:81074**
Contemporary Mathematics ★ Mathematical aspects of classical field theory. **93d:58006**
Davis, CA ★ Differential geometric methods in theoretical physics. **93a:00022**
Differential geometric methods in theoretical physics ★ Differential geometric methods in theoretical physics. **93a:00022**
Erice ★ Constructive quantum field theory. II. **93g:81074**
Forty more years of ramifications: spectral asymptotics and its applications ★ Forty more years of ramifications: spectral asymptotics and its applications. **93d:58003**
Fractional statistics in action ★ Fractional statistics in action. **93e:81002**
How many lives has Schrödinger's cat ★ Wieviele Leben hat Schrödingers Katze? (German) [How many lives has Schrödinger's cat?] **93b:81006**
Ideas and methods in quantum and statistical physics ★ Ideas and methods in quantum and statistical physics. **93e:00034**
Infinite analysis ★ Infinite analysis. Part A, B. **93g:00027**
Kyoto ★ Common trends in mathematics and quantum field theories. **93c:00006**
— ★ Infinite analysis. Part A, B. **93g:00027**
Lattice 90 ★ Lattice 90. **93b:81195**
Lattice 91 ★ Lattice 91. **93d:81130**
Lecture Notes in Physics ★ Quantum aspects of optical communications. **93e:81158**
Mathematical aspects of classical field theory ★ Mathematical aspects of classical field theory. **93d:58006**
Méthodes semi-classiques ★ Méthodes semi-classiques. Vol. 2. [Semiclassical methods. Vol. 2] **93m:00046**
Montpellier ★ Clifford algebras and their applications in mathematical physics. **93f:00011**
Nantes ★ Méthodes semi-classiques. Vol. 2. [Semiclassical methods. Vol. 2] **93m:00046**
NATO Advanced Research Workshop:
Differential Geometric Methods in Theoretical Physics: Physics and Geometry ★ Differential geometric methods in theoretical physics. **93a:00022**
NATO Advanced Study Institute:
Constructive Quantum Field Theory ★ Constructive quantum field theory. II. **93g:81074**
Oslo ★ Ideas and methods in quantum and statistical physics. **93e:00034**
Palermo ★ The algebraic theory of superselection sectors. **93i:81122**
Paris ★ Quantum aspects of optical communications. **93e:81158**
Quantum aspects of optical communications ★ Quantum aspects of optical communications. **93e:81158**
Quantum groups and related topics ★ Quantum groups and related topics. **93h:00021**
School:
Mathematical Physics ★ Constructive quantum field theory. II. **93g:81074**
Seattle, WA ★ Mathematical aspects of classical field theory. **93d:58006**
Semiclassical methods ★ Méthodes semi-classiques. Vol. 2. [Semiclassical methods. Vol. 2] **93m:00046**
Seminar:
Common Trends in Mathematics and Quantum Field Theories ★ Common trends in mathematics and quantum field theories. **93c:00006**
Special Issue:
Fractional statistics in action ★ Fractional statistics in action. **93e:81002**
Symposium:
Born, Max ★ Quantum groups and related topics. **93h:00021**
Ideas and Methods in Mathematics and Physics ★ Ideas and methods in quantum and statistical physics. **93e:00034**
Lattice Field Theory ★ Lattice 91. **93d:81130**
Tallahassee, FL ★ Lattice 90. **93b:81195**
Tsukuba ★ Lattice 91. **93d:81130**
Wieviele Leben hat Schrödingers Katze ★ Wieviele Leben hat Schrödingers Katze? (German) [How many lives has Schrödinger's cat?] **93b:81006**
Workshop:
Clifford Algebras and their Applications in Mathematical Physics ★ Clifford algebras and their applications in mathematical physics. **93f:00011**
Quantum Aspects of Optical Communications ★ Quantum aspects of optical communications. **93e:81158**
Wrocław ★ Quantum groups and related topics. **93h:00021**

81–08 Computational methods

Cerjan, Charles *see* **Tal-Ezer, Hillel; et al., 93b:81005**
Jolicard, Georges *see* **Killingbeck, John P., 93k:81005**
Killingbeck, John P. (*with* Jolicard, Georges) Two simple eigenvalue shooting algorithms. (English summary) **93k:81005**
Kosloff, Ronnie *see* **Tal-Ezer, Hillel; et al., 93b:81005**
Tal-Ezer, Hillel (*with* Kosloff, Ronnie; Cerjan, Charles) Low-order polynomial approximation of propagators for the time-dependent Schrödinger equation. **93b:81005**

Items with secondary classifications in 81–08

Abad, J. (*with* Sesma, Javier) Computation of Coulomb wave functions at low energies. (English summary) **93e:65032**
Alexandrou, C. (*with* Rosenfelder, R.) Stochastic solution to highly nonlocal actions: the polaron problem. (English summary) **93c:81277**
Belov, Yu. A. (*with* Gordinskiĭ, L. D.; Kutniv, M. V.) Numerical modeling of proton transfer in systems with a hydrogen bond. (Russian. English and Russian summaries) **93h:81151**
Bender, Carl M. New approach to the solution of nonlinear problems. (English summary) **93m:81037**
Boffetta, G. (*with* Osborne, A. R.) Computation of the direct scattering transform for the nonlinear Schroedinger equation. (English summary)
Burrows, B. L. (*with* Cohen, Maurice; Feldmann, Tova) Lower bounds for quartic anharmonic and double-well potentials. (English summary) **93k:81034**

Carstoiu, F. (*with* Lombard, R. J.) A new method of evaluating folding type integrals. (English summary) **93f:81165**
Čížek, Jiří Karel *see* **Weniger, Ernst Joachim; et al., 93j:81018**
Cohen, Maurice *see* **Burrows, B. L.; et al., 93k:81034**
Combs, L. L. *see* **Waggoner, C. A.**
Dai, Wei Zhong An unconditionally stable three-level explicit difference scheme for the Schrödinger equation with a variable coefficient. **93a:65112**
Defranceschi, Mireille *see* **Fischer, Patrick; et al., 93j:81114**
Delhalle, Joseph *see* **Fischer, Patrick; et al., 93j:81114**
Diamond, James J. Classically forbidden behavior of the quantum harmonic oscillator for large quantum numbers. (English summary) **93e:81016**
Feldmann, Tova *see* **Burrows, B. L.; et al., 93k:81034**
Fischer, Patrick (*with* Defranceschi, Mireille; Delhalle, Joseph) Molecular Hartree-Fock equations for iteration-variation calculations in momentum space. (English summary) **93j:81114**
Glasner, Moses (*with* Yevick, David; Hermansson, Björn) Generalized propagation techniques for longitudinally varying refractive index distributions. (English summary) **93e:65124**
Gordinskiĭ, L. D. *see* **Belov, Yu. A.; et al., 93h:81151**
Hermansson, Björn *see* **Glasner, Moses; et al., 93e:65124**
Janke, Wolfhard (*with* Sauer, T.) Properties of higher-order Trotter formulas. **93b:81135**
Khrebtukov, D. B. The exact numerical solution of a Schrödinger equation with two-Coulomb centres plus oscillator potential. **93a:81033**
Kutniv, M. V. *see* **Belov, Yu. A.; et al., 93h:81151**
Lombard, R. J. *see* **Carstoiu, F., 93f:81165**
Osborne, A. R. *see* **Boffetta, G.**
Rosenfelder, R. *see* **Alexandrou, C., 93c:81277**
Sauer, T. *see* **Janke, Wolfhard, 93b:81135**
Sesma, Javier *see* **Abad, J., 93e:65032**
Vinette, Francine *see* **Weniger, Ernst Joachim; et al., 93j:81018**
Waggoner, C. A. (*with* Combs, L. L.) Optimization techniques in energy calculations involving the Hartree-Fock density matrix. (English summary)
Wen, Gen Wang The steepest descent perturbation theory for the excited state of a quantum system. (Chinese. English summary) **93m:81032**
Weniger, Ernst Joachim (*with* Čížek, Jiří Karel; Vinette, Francine) The summation of the ordinary and renormalized perturbation series for the ground state energy of the quartic, sextic, and octic anharmonic oscillators using nonlinear sequence transformations. (English summary) **93j:81018**
Witwit, M. R. M. Energy levels of two-dimensional anharmonic oscillators with sextic and octic perturbations. (English summary) **93i:81028**
Yevick, David *see* **Glasner, Moses; et al., 93e:65124**
Zhang, Mei Qing Explicit unitary schemes to solve quantum operator equations of motion. **93b:81052**

81Pxx Axiomatics, foundations, philosophy

(Audretsch, Jürgen) *see* **How many lives has Schrödinger's cat, 93b:81006**
(Mainzer, Klaus) *see* **How many lives has Schrödinger's cat, 93b:81006**

Items listed otherwise than by author

How many lives has Schrödinger's cat ★ Wieviele Leben hat Schrödingers Katze? (German) [How many lives has Schrödinger's cat?] **93b:81006**
Wieviele Leben hat Schrödingers Katze ★ Wieviele Leben hat Schrödingers Katze? (German) [How many lives has Schrödinger's cat?] **93b:81006**

Items with secondary classifications in 81Pxx

(Pavičić, Mladen) *see* **Quantum logics, 93d:81002** *and* **93d:81003**
(Pykacz, Jarosław) *see* **Quantum logics, 93d:81002** *and* **93d:81003**

Items listed otherwise than by author

Gdańsk ★ Quantum logics. Part I. **93d:81002**
— ★ Quantum logics. Part II. **93d:81003**
Meeting:
Quantum Logics ★ Quantum logics. Part I. **93d:81002**
— ★ Quantum logics. Part II. **93d:81003**
Quantum logics ★ Quantum logics. Part I. **93d:81002**
— ★ Quantum logics. Part II. **93d:81003**

81P05 General and philosophical

Accardi, Luigi Quantum probability and the foundations of quantum theory. **93a:81005**
Aerts, Diederik Construction of reality and its influence on the understanding of quantum structures. (English summary) **93h:81005**
Alanson, T. A "quantal" Hilbert space formulation for nonlinear dynamical systems in terms of probability amplitudes. **93a:81006**
Bach, Alexander Indistinguishability, interchangeability, and indeterminism. **93i:81005**
— de Finetti's theorem and Bell-type correlation inequalities. **93b:81007**
Band, William *see* **Park, James L., 93c:81009**
Barut, Asim Orhan Quantum theory of single events. (English summary) (*see* **93c:81004**)
— How to avoid "quantum paradoxes". **93a:81007**
— Formulation of wave mechanics without the Planck constant $\hbar$. (English summary) **93i:81006**
Braunstein, Samuel L. (*with* Mann, Ady; Revzen, M.) Maximal violation of Bell inequalities for mixed states. **93b:81008**
Bub, Jeffrey *see* **Hájek, Alan, 93f:81012**
Butterfield, Jeremy N. Bell's theorem: what it takes. **93e:81009**
— David Lewis meets John Bell. **93b:81009**
— *see also* **Clifton, Robert K.; et al., 93b:81013**
Cattaneo, Gianpiero Brouwer-Zadeh (fuzzy-intuitionistic) posets for unsharp quantum mechanics. (English summary) **93g:81004**
Clark, T. D. *see* **Spiller, T. P.; et al., 93c:81012**
Clifton, Robert K. (*with* Redhead, Michael L. G.; Butterfield, Jeremy N.) A second look at a recent algebraic proof of nonlocality. **93b:81013**
— (*with* Niemann, Peter) Locality, Lorentz invariance, and linear algebra: Hardy's theorem for two entangled spin-*s* particles. **93j:81004**
— *see also* **Pagonis, Constantine, 93h:81009**
Combourieu, Marie-Christine (*with* Rauch, Helmut) The wave-particle dualism in 1992: a summary. (English summary) **93i:81007**
Costa de Beauregard, O. Is there a reality out there? **93a:81008**
— Intersubjectivity, relativistic covariance, and conditionals. Response to C. I. J. M. Stuart: "Retrocausality and conditional probability" [Found. Phys. Lett. **4** (1991), no. 1, 37–48; MR 93e:81011]. **93e:81012**
Costantini, Domenico (*with* Garibaldi, Ubaldo) The nonfrequency approach to elementary particle statistics. **93a:81009**
— (*with* Garibaldi, Ubaldo) A probabilistic formulation of Pauli's exclusion principle in the context of predictive inference. (Italian. English and Italian summaries) **93f:81008**
Cufaro Petroni, Nicola (*with* Vigier, Jean-Pierre) Single-particle trajectories and interferences in quantum mechanics. **93a:81010**
Czachor, Marek On classical models of spin. **93h:81006**
De Sarrazin, G. *see* **Lozada, Abraham; et al., 93k:81008**
Dewdney, C. (*with* Horton, G.; Lam, M. M.; Malik, Z.; Schmidt, Michael G.) Wave-particle dualism and the interpretation of quantum mechanics. (English summary) **93i:81008**
— Constraints on quantum hidden-variables and the Bohm theory. **93f:81009**
Dotson, Allen C. Nonlocal interactions: a Jammerian analysis. **93c:81006**
Dürr, Detlef (*with* Goldstein, Sheldon; Zanghì, Nino) Quantum equilibrium and the origin of absolute uncertainty. **93k:81006**
Elby, Andrew Should we explain the EPR correlations causally? **93a:81011**
d'Espagnat, B. Heisenberg picture and reality. (English summary)
Ford, Joseph *see* **Mantica, Giorgio, 93a:81014**
Galgani, Luigi The quest for Planck's constant in classical physics. (English summary) (*see* **93g:81002**)
Garibaldi, Ubaldo *see* **Costantini, Domenico, 93a:81009** *and* **93f:81008**
Gisin, Nicolas (*with* Percival, Ian C.) Wave-function approach to dissipative processes: are there quantum jumps? **93h:81007**
Goldstein, Sheldon *see* **Dürr, Detlef; et al., 93k:81006**
Goldwirth, Dalia S. (*with* Perry, Malcolm J.; Piran, Tsvi) The breakdown of quantum mechanics in the presence of time machines. (English summary)
Görnitz, Thomas (*with* von Weizsäcker, Carl-Friedrich) Steps in the philosophy of quantum theory. (English summary) (*see* **93c:81004**)
— The role of para-Bose-statistics in making abstract quantum theory concrete. **93a:81012**
Grib, A. A. (*with* Zapatrin, R. R.) Macroscopic realizations of quantum logics. **93h:81008**
Gudder, Stanley Quantum stochastic models. **93d:81007**
— Quantum probability model for spin. **93g:81005**
— Amplitudes on entities. **93b:81010**
— Systems of covariance in quantum probability. **93f:81010**
Guiaşu, Silviu Deducing the Schrödinger equation from minimum χ^2. **93f:81011**
Hájek, Alan (*with* Bub, Jeffrey) EPR. **93f:81012**
Hardy, Lucien Quantum mechanics, local realistic theories, and Lorentz-invariant realistic theories. **93d:81008**
Hartle, James B. The quantum mechanics of cosmology. (*see* **93h:83024**)
Hellman, Geoffrey Bell-type inequalities in the nonideal case: proof of a conjecture of Bell. **93f:81013**
Herman, R. M. Classical origins of the Aharonov-Bohm effect. **93a:81013**
Hoekzema, Dick J. Contextual quantum process theory. **93f:81014**
Holland, P. R. The Dirac equation in the de Broglie-Bohm theory of motion. (English summary) **93k:81007**
Horton, G. *see* **Dewdney, C.; et al., 93i:81008**
Horwitz, L. P. On the definition and evolution of states in relativistic classical and quantum mechanics. **93d:81009**
Huang, Xiang You Classical limit of quantum mechanics. (English summary)
Hübner, Matthias Explicit computation of the Bures distance for density matrices. **93b:81011**
Jabs, Arthur An interpretation of the formalism of quantum mechanics in terms of epistemological realism. (English summary)
Jayannavar, A. M. Comment on some theories of state reduction. **93c:81007**
Jaynes, E. T. Probability in quantum theory. (English summary) (*see* **93m:81004**)
Jones, Kingsley R. W. Classical mechanics as an example of generalized quantum mechanics. **93e:81010**
Jones, Martin R. Some difficulties for Clifton, Redhead, and Butterfield's recent proof of nonlocality. **93b:81012**
Kronz, Frederick M. The projection postulate and the time-energy uncertainty relation. **93b:81014**
Lam, M. M. *see* **Dewdney, C.; et al., 93i:81008**
Lamoreaux, Steve K. A review of the experimental tests of quantum mechanics. (English summary)
Liu, Quan Hui Deterministic properties contained in quantum systems with continuous spectrum. (Chinese. English and Chinese summaries) **93f:81015**
Lozada, Abraham (*with* De Sarrazin, G.; Torres, P. L.) Complete sets of commuting observables and irreducible sets of observables. (English summary) **93k:81008**
Madguerova, Andreana Stefanova On the logic of time. (Russian summary) **93c:81008**
Malik, Z. *see* **Dewdney, C.; et al., 93i:81008**
Mann, Ady *see* **Braunstein, Samuel L.; et al., 93b:81008**
Mantica, Giorgio (*with* Ford, Joseph) On the completeness of the classical limit of quantum mechanics. **93a:81014**
Marshall, T. W. A historical perspective to the present-day locality debate. **93b:81015**
Miller, David William Single-case probabilities. **93a:81015**
Mugur-Schächter, Mioara Spacetime quantum probabilities, relativized descriptions, and Popperian propensities. I. Spacetime quantum probabilities. **93b:81016**
— Spacetime quantum probabilities. II. Relativized descriptions and Popperian propensities. **93b:81017**

Munro, W. J. *see* **Reid, M. D., 93d:81010**
Ne'eman, Yuval Symmetry, entropy and complexity. (English summary) (*see* **93c:81004**)
Niemann, Peter *see* **Clifton, Robert K., 93j:81004**
Omnès, Roland Consistent interpretations of quantum mechanics. **93k:81009**
Pagonis, Constantine (*with* Clifton, Robert K.) Hardy's nonlocality theorem for n spin-$\frac{1}{2}$ particles. (English summary) **93h:81009**
Park, James L. (*with* Band, William) Preparation and measurement in quantum physics. **93c:81009**
Penrose, Oliver Quantum mechanics and real events. **93c:81010**
Percival, Ian C. *see* **Gisin, Nicolas, 93h:81007**
Peres, Asher Looking at the quantum world with classical eyes. **93a:81016**
— Emergence of local realism in fuzzy observations of correlated quantum systems. **93a:81017**
— Recursive definition for elements of reality. **93c:81011**
— An experimental test for Gleason's theorem. **93b:81018**
Perry, Malcolm J. *see* **Goldwirth, Dalia S.; et al.**
Piran, Tsvi *see* **Goldwirth, Dalia S.; et al.**
Prigogine, Ilya Dissipative processes in quantum theory.
Prugovečki, Eduard ★ Quantum geometry. **93b:81019**
Pykacz, Jarosław Direct detection of empty waves contradicts special relativity. (English summary) **93k:81010**
Rauch, Helmut *see* **Combourieu, Marie-Christine, 93i:81007**
Rédei, Miklós Bell's inequalities, relativistic quantum field theory and the problem of hidden variables. **93a:81018**
Redhead, Michael L. G. (*with* Teller, Paul) Particle labels and the theory of indistinguishable particles in quantum mechanics. (English summary) **93h:81010**
— Propensities, correlations, and metaphysics. **93a:81019**
— *see also* **Clifton, Robert K.; et al., 93b:81013**
Reid, M. D. (*with* Munro, W. J.) Macroscopic boson states exhibiting the Greenberger-Horne-Zeilinger contradiction with local realism. (English summary) **93d:81010**
Revzen, M. *see* **Braunstein, Samuel L.; et al., 93b:81008**
Schmidt, Michael G. *see* **Dewdney, C.; et al., 93i:81008**
Sharma, Chandra Shekhar A comparison of Hilbert space formulations of nonrelativistic quantum theory and special relativity. **93b:81020**
Spencer, P. S. *see* **Spiller, T. P.; et al., 93c:81012**
Spiller, T. P. (*with* Spencer, P. S.; Clark, T. D.; et al.) Adding dissipation to the Schrödinger equation from the quantum-potential viewpoint. **93c:81012**
Squires, Euan J. History and many-worlds quantum theory. **93c:81013**
— Explicit collapse and superluminal signals. **93a:81020**
Stuart, C. I. J. M. Retrocausality and conditional probability. **93e:81011**
— *see also* **Costa de Beauregard, O., 93e:81012**
Sudarshan, E. C. G. Quantum dynamics, metastable states, and contractive semigroups. **93h:81011**
Teller, Paul *see* **Redhead, Michael L. G., 93h:81010**
Torres, P. L. *see* **Lozada, Abraham; et al., 93k:81008**
Valentini, Antony Signal-locality, uncertainty, and the subquantum H-theorem. II. **93d:81011**
Vigier, Jean-Pierre *see* **Cufaro Petroni, Nicola, 93a:81010**
von Weizsäcker, Carl-Friedrich *see* **Görnitz, Thomas, (93c:81004)**
Zanghì, Nino *see* **Dürr, Detlef; et al., 93k:81006**
Zapatrin, R. R. *see* **Grib, A. A., 93h:81008**

Items with secondary classifications in 81P05

Aref'eva, I. Ya. (*with* Volovich, I. V.) Quantum group particles and non-Archimedean geometry. **93a:81080**
Bell, John Stewart Six possible worlds of quantum mechanics. **93k:81001**
— *see also* **Science and conception of the world, 93b:00009**
Bhat, B. V. Rajarama (*with* Parthasarathy, Kalyanapuram Rangachari) Generalized harmonic oscillators in quantum probability. **93k:81117**
Blencowe, Miles The consistent histories interpretation of quantum fields in curved spacetime. **93i:81158**
von Borzeszkowski, Horst-Heino *see* **Wahsner, Renate, 93h:00012**
Durdević, Mićo Quantum field theory and local contextual extensions. **93c:81101**
Dürr, Detlef (*with* Goldstein, Sheldon; Zanghì, Nino) Quantum chaos, classical randomness, and Bohmian mechanics. **93c:81048**
Goldstein, Sheldon *see* **Dürr, Detlef; et al., 93c:81048**
Grib, A. A. (*with* Zapatrin, R. R.) Topology lattice as quantum logic. **93c:81014**
Hardy, Lucien (*with* Home, D.; Squires, Euan J.; Whitaker, M. A. B.) Realism and the quantum-mechanical two-state oscillator. **93f:81019**
Hoekzema, Dick J. Quantum event theory: a Tetrode-Fokker version of quantum field theory. **93f:81152**
Home, D. *see* **Hardy, Lucien; et al., 93f:81019**
(Jiráček, Pavel) *see* **McGrath, James H.**
Kitakado, S. *see* **Ohnuki, Yoshio, 93e:81030**
Martínez, Sergio What is an irreducible statistical law? (Spanish. English summary) **93k:00010**
McGrath, James H. Quantum theory and the lattice join. (Czech)
Meissner, Walter ★ Wie tot ist Schrödingers Katze? (German) [How dead is Schrödinger's cat?] **93k:00011**
Ohnuki, Yoshio (*with* Kitakado, S.) On quantum mechanics on compact space. (English summary) **93e:81030**
Parthasarathy, Kalyanapuram Rangachari *see* **Bhat, B. V. Rajarama, 93k:81117**
(Prat de la Riba, Enrique) *see* **Science and conception of the world, 93b:00009**
(Reichel, Hans-Christian) *see* **Science and conception of the world, 93b:00009**
Sinha, Kalyan B. Quantum mechanics and spectral theory. **93d:81001**
Squires, Euan J. *see* **Hardy, Lucien; et al., 93f:81019**
Vink, Jeroen C. Quantum potential interpretation of the wave function of the universe. **93c:83063**
Volovich, I. V. *see* **Aref'eva, I. Ya., 93a:81080**
Wahsner, Renate (*with* von Borzeszkowski, Horst-Heino) ★ Die Wirklichkeit der Physik. (German) [The reality of physics] **93h:00012**
Whitaker, M. A. B. *see* **Hardy, Lucien; et al., 93f:81019**
Zanghì, Nino *see* **Dürr, Detlef; et al., 93c:81048**
Zapatrin, R. R. *see* **Grib, A. A., 93c:81014**
Żukowski, Marek Definite values for observables versus quantum predictions: a "GHZ-like" test. **93b:81032**

Items listed otherwise than by author

Naturwissenschaft und Weltbild ★ Naturwissenschaft und Weltbild. (German) [Science and conception of the world] **93b:00009**
Obituary:
Bell, John Stewart ★ Naturwissenschaft und Weltbild. (German) [Science and conception of the world] **93b:00009**
Science and conception of the world ★ Naturwissenschaft und Weltbild. (German) [Science and conception of the world] **93b:00009**

81P10 Logical foundations of quantum mechanics

Aerts, Diederik (*with* Van Bogaert, Bruno) Mechanistic classical laboratory situation with a quantum logic structure. (English summary) **93h:81012**
Agarwal, G. S. (*with* Home, D.; Schleich, W.) Einstein-Podolsky-Rosen correlation—parallelism between the Wigner function and the local hidden variable approaches. (English summary) **93k:81011**
Ardehali, M. Bell inequalities with a magnitude of violation that grows exponentially with the number of particles. (English summary) **93k:81012**
Barnett, Stephen M. (*with* Phoenix, Simon J. D.) Bell's inequality and the Schmidt decomposition. **93f:81016**
Beltrametti, Enrico G. (*with* Mączyński, Maciej J.) Problem of classical and nonclassical probabilities. (English summary) **93i:81009**
Bub, Jeffrey Quantum mechanics without the projection postulate. **93d:81012**
— Quantum logical solution to the measurement problem of quantum mechanics. (English summary) **93i:81010**
Busch, Paul (*with* Lahti, Pekka J.; Mittelstaedt, Peter) Weak objectification, joint probabilities, and Bell inequalities in quantum mechanics. (English summary) **93k:81013**
Cattaneo, Gianpiero (*with* Nisticò, Giuseppe) Physical content of preparation-question structures and Brouwer-Zadeh lattices. (English summary) **93m:81009**
Chevalier, Georges (*with* Pulmannová, Sylvia) Compositions of Sasaki projections. (English summary) **93g:81006**
Cufaro Petroni, Nicola On the structure of the quantum-mechanical probability models. (English summary) **93m:81010**
De Caro, Liberato (*with* Garuccio, Augusto) Quantum mechanics versus local realism: the importance of the wave function normalization.
Donald, Matthew J. A priori probability and localized observers. (English summary) **93h:81013**
Durdević, Mićo A C^*-algebraic formulation of local contextual hidden variables. (English summary) **93i:81011**
Dvurečenskij, Anatolij (*with* Tirpáková, Anna) Sum of observables in fuzzy quantum spaces. (Slovak summary) **93b:81021**
— Quantum logics and completeness criteria of inner product spaces. (English summary) **93k:81014**
Finkelstein, J. Covariant collapse of the state vector and realism.
Garola, Claudio Semantic incompleteness of quantum physics. **93k:81015a**
— Erratum: "Semantic incompleteness of quantum physics". **93k:81015b**
Garuccio, Augusto *see* **De Caro, Liberato**
Gerlich, Gerhard Axioms for quantum theory. **93f:81017**
Giuntini, Roberto ★ Quantum logic and hidden variables. **93m:81011**
Görnitz, Thomas (*with* Graudenz, Dirk; von Weizsäcker, Carl-Friedrich) Quantum field theory of binary alternatives. (English summary) **93k:81016**
Graudenz, Dirk *see* **Görnitz, Thomas; et al., 93k:81016**
Grib, A. A. (*with* Zapatrin, R. R.) Topology lattice as quantum logic. **93c:81014**
Hall, Michael J. W. Logic of likelihood. **93e:81013**
Hamhalter, Jan (*with* Pták, Pavel) Hilbert-space-valued states on quantum logics. **93c:81015**
Home, D. *see* **Agarwal, G. S.; et al., 93k:81011**
Ivanov, Al. Classical theories, atomicity and nonclassical theories. (English summary) **93g:81007**
Joshi, G. C. *see* **Nash, C. G., 93d:81013**
Khalfin, L. A. (*with* Tsirelson, Boris S.) Quantum/classical correspondence in the light of Bell's inequalities. (English summary) **93k:81017**
Lahti, Pekka J. Measurement and probability in quantum mechanics. **93i:81012**
— (*with* Mączyński, Maciej J.) Orthomodularity and quadratic transformations in probabilistic theories of physics. (English summary) **93k:81018**
— *see also* **Busch, Paul; et al., 93k:81013**
Landau, Lawrence J. Experimental tests of distributivity. (English summary) **93g:81008**
Mączyński, Maciej J. A simple derivation of Hückel's molecular orbitals in the framework of quantum logic. **93c:81016**
— *see also* **Beltrametti, Enrico G., 93i:81009** *and* **Lahti, Pekka J., 93k:81018**
Majernik, Vladimir *see* **Pulmannová, Sylvia, 93i:81013**
Malament, David B. Critical notice: I. Pitowsky's *Quantum probability—quantum logic* [Lecture Notes in Phys., 321, Springer, Berlin, 1989; MR 90e:81020]. **93g:81009**
Mann, Ady (*with* Nakamura, Koichi[2]; Revzen, M.) Bell's inequality for mixed states. **93h:81014**
— (*with* Revzen, M.; Schleich, W.) Unique Bell state. (English summary) **93k:81019**
Mittelstaedt, Peter *see* **Busch, Paul; et al., 93k:81013** *and* **Giuntini, Roberto, 93m:81011**
Mugur-Schächter, Mioara Toward a factually induced space-time quantum logic. (English summary) **93m:81012**
Müller, Vladimír (*with* Pták, Pavel; Tkadlec, Josef) Concrete quantum logics with covering properties. **93a:81021**
Nakamura, Koichi[2] *see* **Mann, Ady; et al., 93h:81014**

Nash, C. G. (*with* Joshi, G. C.) Quaternionic quantum mechanics is consistent with complex quantum mechanics. **93d:81013**
Nishimura, Hirokazu Boolean transfer from coherent quantum logics to quantum logics with continuous superselection rules. **93a:81022**
Nisticò, Giuseppe *see* **Cattaneo, Gianpiero, 93m:81009**
Phoenix, Simon J. D. *see* **Barnett, Stephen M., 93f:81016**
(Pitowsky, Itamar) *see* **Malament, David B., 93g:81009**
Pták, Pavel *see* **Müller, Vladimír; et al., 93a:81021** *and* **Hamhalter, Jan, 93c:81015**
Pulmannová, Sylvia (*with* Majernik, Vladimir) Bell inequalities on quantum logics. **93i:81013**
— *see also* **Chevalier, Georges, 93g:81006**
Pykacz, Jarosław Fuzzy set ideas in quantum logics. (English summary) **93i:81014**
Revzen, M. *see* **Mann, Ady; et al., 93h:81014** *and* **93k:81019**
Santos, Emilio Problem of hidden variables. (English summary) **93k:81020**
Schleich, W. *see* **Agarwal, G. S.; et al., 93k:81011** *and* **Mann, Ady; et al., 93k:81019**
Tirpáková, Anna *see* **Dvurečenskij, Anatolij, 93b:81021**
Tkadlec, Josef *see* **Müller, Vladimír; et al., 93a:81021**
Tsirelson, Boris S. *see* **Khalfin, L. A., 93k:81017**
Van Bogaert, Bruno *see* **Aerts, Diederik, 93h:81012**
von Weizsäcker, Carl-Friedrich *see* **Görnitz, Thomas; et al., 93k:81016**
Wilce, Alexander Tensor products in generalized measure theory. (English summary) **93k:81021**
Zapatrin, R. R. Binary logic is rich enough. **93b:81022**
— *see also* **Grib, A. A., 93c:81014**
Zecca, Antonio Irreversible evolution in quantum logics. (English summary) **93g:81010**

Items with secondary classifications in 81P10

Almeida, D. F. (*with* Sharma, Chandra Shekhar) The first mathematical proof of Wigner's theorem. (English summary) **93i:47025**
Andàs, H. E. Bell's inequalities for quantum mechanics. (English summary) **93f:81018**
Ayupov, Sh. A. Probability measures on quantum logics and a noncommutative Choquet theory. **93d:46106**
Czachor, Marek On classical models of spin. **93b:81006**
D'Andrea, Anna Bruna (*with* De Lucia, Paolo) On the Lebesgue decomposition of a function relative to a p-ideal of an orthomodular lattice. **93b:28027**
De Lucia, Paolo (*with* Morales, Pedro) A noncommutative version of a theorem of Marczewski for submeasures. **93b:28036**
— *see also* **D'Andrea, Anna Bruna, 93b:28027**
Denisov, L. V. (*with* Kholevo, A. S.) Conditionally positive definite functions on the coefficient algebra of a nonabelian group. **93d:46107**
Dvurečenskij, Anatolij Regular measures and inner product spaces. **93b:28039**
Finkelstein, David Higher-order quantum logics. (English summary) **93f:03041**
Foulis, D. J. (*with* Greechie, Richard J.; Rüttimann, G. T.) Filters and supports in orthoalgebras. **93c:06014**
Garola, Claudio Truth versus testability in quantum logic. (English summary) **93m:03101**
Ghirardi, Gian Carlo The dynamical reduction program. **93e:81014**
Giuntini, Roberto Semantic alternatives in Brouwer-Zadeh logics. (English summary) **93i:03087**
Görnitz, Thomas The role of para-Bose-statistics in making abstract quantum theory concrete. **93a:81012**
Greechie, Richard J. *see* **Foulis, D. J.; et al., 93c:06014**
Grib, A. A. (*with* Zapatrin, R. R.) Macroscopic realizations of quantum logics. **93h:81008**
Grubb, Anthea Eigenvalue preserving automorphisms of selfadjoint operators in a unitary space of dimension two. (English summary) **93j:15019**
Guariglia, Emma K-triangular functions on an orthomodular lattice and the Brooks-Jewett theorem. (Serbo-Croatian summary) **93b:06021**
Hagler, J. (*with* Schindler, C.) Normal functionals and spaces of weights. **93a:46139**
Hamhalter, Jan (*with* Navara, Mirko) Orthosymmetry and modularity in ortholattices. **93a:06010**
Hardy, Lucien A new way to obtain Bell inequalities. **93c:81018**
— Quantum mechanics, local realistic theories, and Lorentz-invariant realistic theories. **93d:81008**
Hellman, Geoffrey Bell-type inequalities in the nonideal case: proof of a conjecture of Bell. **93f:81013**
Hellman, Olavi A Hilbert space fuzzy set theory. (Russian summary) **93b:03093**
Janiš, Vladimír (*with* Riečanová, Zdena) Completeness in sums of Boolean algebras and logics. **93j:06009**
(Jiráček, Pavel) *see* **McGrath, James H.**
Keller, Karsten Structure of the set of annihilators. **93h:06012**
Kholevo, A. S. *see* **Denisov, L. V., 93d:46107**
Malhas, Othman Qasim Quantum theory as a theory in a classical propositional calculus. (English summary) **93i:03088**
Malinowski, Jacek Strong versus weak quantum consequence operations. **93k:03061**
McGrath, James H. Quantum theory and the lattice join. (Czech)
Morales, Pedro *see* **De Lucia, Paolo, 93b:28036**
Nánásiová, Ofga Martingales and submartingales on quantum logic. **93b:03113**
Navara, Mirko Independence of automorphism group, center, and state space of quantum logics. **93d:03063**
— *see also* **Hamhalter, Jan, 93a:06010**
Omnès, Roland Consistent interpretations of quantum mechanics. **93k:81009**
Palko, Vladimír Errata to the article: "Topologies on quantum logics induced by measures" [Math. Slovaca **39** (1989), no. 2, 175–189; MR 90i:03071].
Pavičić, Mladen A new axiomatization of unified quantum logic. (English summary) **93f:03043**
Piziak, Robert Orthostructures for sesquilinear forms. A primer. **93d:06010**
Polubarinov, I. V. ★ Phase space representations and quantum probability theory. **93c:81093**
Pulmannová, Sylvia (*with* Riečanová, Zdena) Modular almost orthogonal quantum logics. **93f:06011**
Riečanová, Zdena *see* **Pulmannová, Sylvia, 93f:06011** *and* **Janiš, Vladimír, 93j:06009**
Román, Leopoldo (*with* Rumbos, B.) Quantic lattices. **93b:06016**
Rumbos, B. *see* **Román, Leopoldo, 93b:06016**
Rüttimann, G. T. *see* **Foulis, D. J.; et al., 93c:06014**
Schindler, C. *see* **Hagler, J., 93a:46139**
Sharma, Chandra Shekhar Mathematical foundations of nonrelativistic quantum theory. **93g:81001**
— *see also* **Almeida, D. F., 93i:47025**
Zapatrin, R. R. *see* **Grib, A. A., 93h:81008**

81P15 Quantum measurement theory

Andàs, H. E. Bell's inequalities for quantum mechanics. (English summary) **93f:81018**
— (*with* Gjøtterud, O. K.) Quantum theory and questions of reality and completeness. (English summary)
Arthurs, E. (*with* Goodman, M. S.) A quantum experiment uncertainty principle: a general 2nd moment uncertainty relation. (English summary) **93i:81015**
Beck, Christian (*with* Graudenz, Dirk) Symbolic dynamics of successive quantum-mechanical measurements. (English summary) **93j:81005**
Belavkin, V. P. A posterior stochastic equation for quantum Brownian motion. **93d:81014**
— Quantum continual measurements and a posteriori collapse on CCR. **93j:81006**
— Quantum stochastic calculus and quantum nonlinear filtering. (English summary) **93m:81013**
Bennett, Charles H. (*with* Wiesner, Stephen J.) Communication via one- and two-particle operators on Einstein-Podolsky-Rosen states. (English summary) **93g:81011**
Boyarsky, A. (*with* Góra, P.) A dynamical system model for interference effects and the two-slit experiment of quantum physics. (English summary) **93d:81015**
Braun, M. A. (*with* Urbanowski, K.) On the description of multiple measurements of an unstable state. **93d:81016**
Breuer, Thomas Inaccurate experiments can only be described by a classical pointer. (English summary) **93d:81017**
Busch, Paul (*with* Lahti, Pekka J.; Mittelstaedt, Peter) ★ The quantum theory of measurement. **93m:81014**
— *see also* **Lahti, Pekka J.; et al., 93f:81020**
Cartwright, Nancy *see* **Chang, Hasok**
Chang, Hasok (*with* Cartwright, Nancy) Causality and realism in the EPR experiment. (English summary)
Chruściński, Dariusz (*with* Staszewski, P.) On the asymptotic solutions of Belavkin's stochastic wave equation. **93d:81018**
Cini, Marcello (*with* Serva, Maurizio) Measurement in quantum mechanics and classical statistical mechanics. **93h:81015**
Costa de Beauregard, O. Timing in EPR correlations. (English summary) **93j:81007**
Daboul, Jamil Increase of average energy by the process of measurement. **93a:81023**
De Baere, W. *see* **de Muynck, Willem M.; et al.**
Diósi, Lajos Coarse graining and decoherence translated into von Neumann language. **93b:81023**
Dittrich, Thomas (*with* Graham, Robert) Continuously measured chaotic quantum systems. **93b:81024**
Dukes, Phillip R. *see* **Larson, Everett G., (93b:00011)**
Fine, Arthur Resolving the measurement problem. Reply to A. Stairs: "On Arthur Fine's solution to the measurement problem" [Found. Phys. Lett. **5** (1992), no. 2, 105–124; MR 93d:81020]. **93d:81021**
Frieden, B. Roy Fisher information and uncertainty complementarity. (English summary) **93k:81022**
Ghirardi, Gian Carlo The dynamical reduction program. **93e:81014**
Gjøtterud, O. K. *see* **Andàs, H. E.**
Goodman, M. S. *see* **Arthurs, E., 93i:81015**
Góra, P. *see* **Boyarsky, A., 93d:81015**
Grabowski, Marian On the phase operator. (English summary) **93g:81012**
Graham, Robert *see* **Dittrich, Thomas, 93b:81024**
Graudenz, Dirk *see* **Beck, Christian, 93j:81005**
Gudder, Stanley Realistic spin. **93c:81017**
Hardy, Lucien A new way to obtain Bell inequalities. **93c:81018**
— (*with* Home, D.; Squires, Euan J.; Whitaker, M. A. B.) Realism and the quantum-mechanical two-state oscillator. **93f:81019**
Healey, Richard A. Discussion: causation, robustness, and EPR. **93b:81025**
— Why error-prone quantum measurements have outcomes. (English summary)
Home, D. *see* **Hardy, Lucien; et al., 93f:81019**
Ishikawa, Shiro Uncertainty relations in simultaneous measurements for arbitrary observables. (English summary) **93k:81023**
Jesudason, C. G. Reflections on uncertainty and errors. **93a:81024**
Kakazu, Kiyotaka Equivalence classes and generalized coherent states in quantum measurement. **93b:81026**
— One particle as a quantum detector. (English summary) **93i:81016**
— (*with* Kudaka, Shoju; Pascazio, Saverio) Extension of the Wigner-Araki-Yanase theorem in Ozawa's formulation. (English summary) **93k:81024**
— *see also* **Kudaka, Shoju, 93a:81026**
van Kampen, N. G. Macroscopic systems in quantum mechanics. (English summary) **93k:81025**
Keitel, C. H. (*with* Wódkiewicz, K.) On the information entropy of squeezed states and the entropic uncertainty relation. **93g:81013**
Kim, Y. S. Entropy in the Wigner phase space picture of quantum mechanics and Feynman's rest of the universe. (English summary) (*see* **93h:81003**)
Kitagawa, Masahiro *see* **Ueda, Masahito, 93b:81031**
Kobayashi, Tsunehiro Wave-function collapse induced by thermal fluctuations of detector variables. Statistical collapse of wave functions. **93a:81025**
— Mechanisms of the wave-packet collapse and macroscopic limits in the quantum theory of measurement.
Kudaka, Shoju (*with* Kakazu, Kiyotaka) The Wigner-Araki-Yanase theorem and its extension in quantum measurement with generalized coherent states. **93a:81026**
— *see also* **Kakazu, Kiyotaka; et al., 93k:81024**

Lahti, Pekka J. (*with* Busch, Paul; Mittelstaedt, Peter) Some important classes of quantum measurements and their information gain. **93f:81020**
— *see also* **Busch, Paul; et al., 93m:81014**
Landsman, N. P. Algebraic theory of superselection sectors and the measurement problem in quantum mechanics. **93b:81027**
Larson, Everett G. (*with* Dukes, Phillip R.) The evolution of our probability image for the spin orientation of a spin-$\frac{1}{2}$- ensemble as measurements are made on several members of the ensemble—connections with information theory and Bayesian statistics. (*see* **93b:00011**)
Lê bá Long A new approach to representation of observables on fuzzy quantum posets. (English summary) **93j:81008**
Lindblad, Göran Quantum entropy and quantum measurements. (*see* **93e:81158**)
Lubkin, Elihu New nondestructive tests, from frames. **93c:81019**
Madjid, F. Hadi (*with* Myers, John M.) Linkages between the calculable and the incalculable in quantum theory. (English summary) **93k:81026**
Martens, Hans (*with* de Muynck, Willem M.) Disturbance, conservation laws and the uncertainty principle. (English summary) **93f:81021**
— *see also* **de Muynck, Willem M.; et al.**
Menskii, M. B. Continuous quantum measurements and the action uncertainty principle. (English summary) **93i:81017**
— The action uncertainty principle and quantum gravity. **93a:81027**
— Monitoring of linear momentum and the energy-time uncertainty relation. (English summary) **93g:81014**
Mittelstaedt, Peter *see* **Lahti, Pekka J.; et al., 93f:81020** *and* **Busch, Paul; et al., 93m:81014**
de Muynck, Willem M. (*with* De Baere, W.; Martens, Hans) The Bell inequalities and the joint measurement of incompatible observables. (English summary)
— *see also* **Martens, Hans, 93f:81021**
Myers, John M. *see* **Madjid, F. Hadi, 93k:81026**
Nakazato, Hiromichi (*with* Pascazio, Saverio) Solvable dynamical model for a quantum measurement process. (English summary) **93h:81016**
Namiki, Mikio (*with* Pascazio, Saverio) Many-Hilbert-spaces approach to the wave-function collapse. **93c:81020**
Ozawa, Masanao Quantum limits of measurements and uncertainty principle. **93m:81015**
Pascazio, Saverio *see* **Namiki, Mikio, 93c:81020**; **Nakazato, Hiromichi, 93h:81016** *and* **Kakazu, Kiyotaka; et al., 93k:81024**
Pearle, Philip Relativistic model for statevector reduction. **93d:81019**
Polubarinov, I. V. ★ Phase space representations for spin 2. **93c:81021**
Popescu, Sandu (*with* Rohrlich, Daniel) Generic quantum nonlocality. **93h:81017**
— (*with* Rohrlich, Daniel) Which states violate Bell's inequality maximally? (English summary) **93j:81009**
Rimini, Alberto (*with* Roncadelli, Marco) A framework for a relativistic theory of state reduction. (English summary) **93k:81027**
Rohrlich, Daniel *see* **Popescu, Sandu, 93h:81017** *and* **93j:81009**
Roncadelli, Marco *see* **Rimini, Alberto, 93k:81027**
Rössler, O. E. Einstein completion of quantum mechanics made falsifiable. (English summary) (*see* **93m:81004**)
Schulman, L. S. Definite quantum measurements. **93b:81028**
Serva, Maurizio *see* **Cini, Marcello, 93h:81015**
Slater, Paul B. Maximum-entropy estimation of a two-particle density matrix from a mixture of a particle into two nonorthogonal states. (English summary) **93f:81022**
Squires, Euan J. Continuous spontaneous localisation without a stochastic field. **93c:81022**
— When does a wave become a particle? **93b:81029**
— *see also* **Hardy, Lucien; et al., 93f:81019**
Srivastava, Y. *see* **Widom, A., 93c:81023**
Stairs, Allen On Arthur Fine's solution to the measurement problem. **93d:81020**
— *see also* **Fine, Arthur, 93d:81021**
Staszewski, P. *see* **Chruściński, Dariusz, 93d:81018**
Stenholm, Stig Simultaneous measurement of conjugate variables. (English summary) **93k:81028**
Stoler, David *see* **Yurke, Bernard, 93f:81023**
Takagi, Shin *see* **Yamada, Norifumi, 93g:81015**
Tanaka, Yutaka[2] Bell's theorem and the theory of relativity. An interpretation of quantum correlation at a distance based on the philosophy of organism. (English summary) **93d:81022**
Toyozawa, Yutaka Theory of measurement. A note on conceptual foundation of quantum mechanics. **93b:81030**
Ueda, Masahito (*with* Kitagawa, Masahiro) Reversibility in quantum measurement processes. **93b:81031**
Urbanowski, K. Reduction process, multiple measurement and decay. **93a:81028**
— *see also* **Braun, M. A., 93d:81016**
Vinduška, M. Metric Bell's inequalities for phases of interfering particles. (English summary)
Weber, Tullio On the bizarre results of weak measurements. **93a:81029**
Whitaker, M. A. B. *see* **Hardy, Lucien; et al., 93f:81019**
Widom, A. (*with* Srivastava, Y.) Lagrangian formulation of Bohr's measurement theory. **93c:81023**
Wiesner, Stephen J. *see* **Bennett, Charles H., 93g:81011**
Wightman, Arthur S. Some comments on the quantum theory of measurement. (*see* **93g:81002**)
Wódkiewicz, K. *see* **Keitel, C. H., 93g:81013**
Yamada, Norifumi (*with* Takagi, Shin) Spacetime probabilities in nonrelativistic quantum mechanics. **93g:81015**
Yurke, Bernard (*with* Stoler, David) Bell's-inequality experiments using independent-particle sources. (English summary) **93f:81023**
Żukowski, Marek Definite values for observables versus quantum predictions: a "GHZ-like" test. **93b:81032**
— GHZ correlations in quadrature phase measurements. **93b:81033**
Zurek, Wojciech H. Environment-induced superselection in cosmology. **93d:81023**

Items with secondary classifications in 81P15

Aerts, Diederik (*with* Van Bogaert, Bruno) Mechanistic classical laboratory situation with a quantum logic structure. (English summary) **93h:81012**
Anandan, J. *see* **Sudarshan, E. C. G.; et al., 93j:81024**
Band, William *see* **Park, James L., 93c:81009**
Barchielli, Alberto (*with* Lupieri, G.) Convolution semigroups of instruments in quantum probability. **93c:46115**
Barnett, Stephen M. (*with* Phoenix, Simon J. D.) Bell's inequality and the Schmidt decomposition. **93f:81016**
Barut, Asim Orhan How to avoid "quantum paradoxes". **93a:81007**
Belavkin, V. P. Stochastic posterior equations for quantum nonlinear filtering. **93b:81126**
— Continuous nondemolition observation quantum filtering and optimal estimation. (English summary) **93i:81110**
— A quantum posterior stochastics and spontaneous collapse. (English summary) **93i:81111**
von Borzeszkowski, Horst-Heino (*with* Roy, Sisir) Jordan-Fock type uncertainty relations and cut-off lengths in quantum general relativity. (English summary) **93h:83022**
Bub, Jeffrey Quantum logical solution to the measurement problem of quantum mechanics. (English summary) **93i:81010**
Chevalier, Georges (*with* Pulmannová, Sylvia) Compositions of Sasaki projections. (English summary) **93g:81006**
Clifton, Robert K. *see* **Pagonis, Constantine, 93h:81009**
Cufaro Petroni, Nicola On the structure of the quantum-mechanical probability models. (English summary) **93m:81010**
Dewdney, C. Constraints on quantum hidden-variables and the Bohm theory. **93f:81009**
Donald, Matthew J. A priori probability and localized observers. (English summary) **93h:81013**
Eberly, J. H. *see* **Wódkiewicz, K., 93b:81325**
Ellis, Jonathan Richard (*with* Mavromatos, N. E.; Nanopoulos, D. V.) String theory modifies quantum mechanics. (English summary) **93i:81187**
Fougères, A. *see* **Noh, J. W.; et al., 93e:81157**
Gantsog, Ts. (*with* Miranowicz, A.; Tanaś, R.) Phase properties of real field states: the Garrison-Wong versus Pegg-Barnett predictions. (English summary) **93f:81169**
Govindarajan, T. R. *see* **Sudarshan, E. C. G.; et al., 93j:81024**
Hirota, Osamu *see* **Uyematsu, Tomohiko; et al., (93e:81158)**
Hoekzema, Dick J. Contextual quantum process theory. **93f:81014**
Hu, B. L. (*with* Paz, Juan Pablo; Zhang, Yuhong) Quantum Brownian motion in a general environment: exact master equation with nonlocal dissipation and colored noise. **93g:82062**
Kholevo, A. S. Statistical inference for quantum processes. (*see* **93e:81158**)
Kronz, Frederick M. The projection postulate and the time-energy uncertainty relation. **93b:81014**
Kuriyama, Atsushi *see* **Yamamura, Masatoshi, 93i:81057**
Lahti, Pekka J. Measurement and probability in quantum mechanics. **93i:81012**
— (*with* Mączyński, Maciej J.) Orthomodularity and quadratic transformations in probabilistic theories of physics. (English summary) **93k:81018**
Liang, Jiu Qing Quantum anholonomy and geometrical phase interference. (English summary) **93i:81049**
Lupieri, G. *see* **Barchielli, Alberto, 93c:46115**
Mączyński, Maciej J. *see* **Lahti, Pekka J., 93k:81018**
Mandel, L. *see* **Noh, J. W.; et al., 93e:81157**
Mann, Ady (*with* Nakamura, Koichi[2]; Revzen, M.) Bell's inequality for mixed states. **93h:81014**
Mavromatos, N. E. *see* **Ellis, Jonathan Richard; et al., 93i:81187**
Miranowicz, A. *see* **Gantsog, Ts.; et al., 93f:81169**
Nakamura, Koichi[2] *see* **Mann, Ady; et al., 93h:81014**
Nanopoulos, D. V. *see* **Ellis, Jonathan Richard; et al., 93i:81187**
Noh, J. W. (*with* Fougères, A.; Mandel, L.) Further investigations of the operationally defined quantum phase. (English summary) **93e:81157**
Omnès, Roland Consistent interpretations of quantum mechanics. **93k:81009**
Pagonis, Constantine (*with* Clifton, Robert K.) Hardy's nonlocality theorem for n spin-$\frac{1}{2}$ particles. (English summary) **93h:81009**
Park, James L. (*with* Band, William) Preparation and measurement in quantum physics. **93c:81009**
Paz, Juan Pablo *see* **Hu, B. L.; et al., 93g:82062**
Peres, Asher Recursive definition for elements of reality. **93c:81011**
Phoenix, Simon J. D. *see* **Barnett, Stephen M., 93f:81016**
Polubarinov, I. V. ★ Phase space representations and quantum probability theory. **93c:81093**
Pulmannová, Sylvia *see* **Chevalier, Georges, 93g:81006**
Reibold, Reinhard On the "piecing effect" of the projector formalism and its application to repeated measurements in quantum optics. (English summary) **93j:81116**
Revzen, M. *see* **Mann, Ady; et al., 93h:81014**
Roy, Sisir *see* **von Borzeszkowski, Horst-Heino, 93h:83022**
Sakaniwa, Kohichi *see* **Uyematsu, Tomohiko; et al., (93e:81158)**
Stenholm, Stig Measurement aspects of quantum optics. **93a:81222**
Sudarshan, E. C. G. (*with* Anandan, J.; Govindarajan, T. R.) A group-theoretic treatment of the geometric phase. **93j:81024**
Tanaś, R. *see* **Gantsog, Ts.; et al., 93f:81169**
Tsirelson, Boris S. *see* **Vershik, A. M., 93i:46130**
Uyematsu, Tomohiko (*with* Hirota, Osamu; Sakaniwa, Kohichi) Quantum nondemolition measurement in optical communication theory. (*see* **93e:81158**)
Van Bogaert, Bruno *see* **Aerts, Diederik, 93h:81012**
Vershik, A. M. (*with* Tsirelson, Boris S.) Formulation of Bell type problems, and "noncommutative" convex geometry. **93i:46130**
Weigert, Stefan Keeping track of chaos by quantum-nondemolition measurements. **93c:81051**
Wódkiewicz, K. (*with* Eberly, J. H.) Click-counting distributions in optical transitions. **93b:81325**
Yamamura, Masatoshi (*with* Kuriyama, Atsushi) Minimal uncertainty in quantal system obeying the su(2)-algebra. (English summary) **93i:81057**

Zeilinger, Anton Physik und Wirklichkeit—neuere Entwicklungen zum Einstein-Podolsky-Rosen Paradoxon. [Physics and reality—recent developments concerning the Einstein-Podolsky-Rosen paradox] (*see* **93b:00009**)
Zhang, Yuhong *see* **Hu, B. L.; et al., 93g:82062**
(Zurek, Wojciech H.) *see* **Complexity, entropy and the physics of information, 93m:81004**

Items listed otherwise than by author

Complexity, entropy and the physics of information ★ Complexity, entropy and the physics of information. **93m:81004**
Santa Fe, NM ★ Complexity, entropy and the physics of information. **93m:81004**
Workshop:
Complexity, Entropy and the Physics of Information ★ Complexity, entropy and the physics of information. **93m:81004**

81P20 Stochastic mechanics (including stochastic electrodynamics)

Batchelor, Andrew (*with* Truman, Aubrey) Hitting, killing and capturing in Nelson's stochastic mechanics. **93f:81024**
Davies, Ian M. On the stochastic Lagrangian in manifolds. (English summary) (*see* **93c:81005**)
Davies, M. J. (*with* Truman, Aubrey) Point sources, constant magnetic fields and Shucker's theorem in stochastic mechanics. (English summary) **93h:81018**
Fukumi, Toshio White-noise calculation of annihilation and creation operators in stochastic mechanics. (English summary) **93m:81016**
Garbaczewski, Piotr On the concepts of stochastic mechanics: random versus deterministic paths. **93c:81024**
— Nelson's stochastic mechanics as the problem of random flights and rotations. **93b:81034**
— Rotational diffusions as seen by relativistic observers. (English summary) **93k:81029**
— Derivation of the quantum potential from realistic Brownian particle motions. **93d:81024**
— (*with* Vigier, Jean-Pierre) Brownian motion and its descendants according to Schrödinger. **93i:81018**
— Physical significance of the Nelson-Newton laws. (English summary) **93m:81017**
Gliklikh, Yu. E. On the existence of solutions in Nelson's stochastic mechanics. (Russian) **93b:81035**
Hulree, Ya. *see* **Namsrai, Kh.; et al., 93f:81025**
Maslov, V. P. Stochastic model of quantum mechanics. **93m:81018**
Misawa, Tetsuya Derivation of a stochastic Kepler system in $\mathbf{R}^5$ from a stochastic harmonic oscillator in $\mathbf{R}^8$. **93k:81030**
Namsrai, Kh. (*with* Hulree, Ya.; Njamtseren, N.) An overview of the application of the Langevin equation to the description of Brownian and quantum motions of a particle. **93f:81025**
Njamtseren, N. *see* **Namsrai, Kh.; et al., 93f:81025**
Roncadelli, Marco Langevin formulation of quantum dynamics. **93b:81036**
Roy, Sisir Stochastic geometry, random zero point field and quantum correction to the metric. **93h:81019**
Rueda, Alfonso Stochastic electrodynamics with particle structure. I. Zero-point induced Brownian behavior. (English summary)
— Stochastic electrodynamics with particle structure. II. Towards a zero-point induced wave behavior. (English summary)
Santos, Emilio Triangle inequalities for classical and quantum probabilities. **93c:81025**
Truman, Aubrey (*with* Williams, David) Excursions and Itô calculus in Nelson's stochastic mechanics. (English summary) **93i:81019**
— *see also* **Batchelor, Andrew, 93f:81024**; **Davies, M. J., 93h:81018** *and* **Yu, K. Y., 93m:81019**
Vigier, Jean-Pierre *see* **Garbaczewski, Piotr, 93i:81018**
Williams, David *see* **Truman, Aubrey, 93i:81019**
Yu, K. Y. (*with* Truman, Aubrey) Excursions for the ground-state of the spherical square well potential. (English summary) **93m:81019**
Zambrini, Jean-Claude Euclidean quantum mechanics and semiclassical limit. **93f:81026**
Zastawniak, Tomasz Markov diffusions in relativistic stochastic mechanics. **93m:81020**

Items with secondary classifications in 81P20

Aldrovandi, Ettore (*with* Dohrn, Daniela; Guerra, Francesco) The Lagrangian approach to stochastic variational principles on curved manifolds. **93m:58123**
Belavkin, V. P. Quantum continual measurements and a posteriori collapse on CCR. **93j:81006**
Cibils, M. B. *see* **Gisin, Nicolas, 93j:81055**
Cortés, Emilio Extremal trajectories for stochastic equations obtained directly from the Langevin differential operator. II. First integrals. **93c:81092**
Cufaro Petroni, Nicola (*with* Vigier, Jean-Pierre) Single-particle trajectories and interferences in quantum mechanics. **93a:81010**
Dell'Antonio, Gianfausto (*with* Posilicano, Andrea) Convergence of Nelson diffusions. **93e:60063**
Dohrn, Daniela *see* **Aldrovandi, Ettore; et al., 93m:58123**
Dürr, Detlef (*with* Goldstein, Sheldon; Zanghì, Nino) Quantum equilibrium and the origin of absolute uncertainty. **93k:81006**
Durran, Richard M. (*with* Truman, Aubrey) Log-concavity of radial Schrödinger wave functions and convergence of planetesimal diffusions. **93j:85004**
Exner, P. (*with* Truman, Aubrey) Models of K-capture decay: stochastic vs. quantum mechanics. (English summary) **93i:81304**
Garbaczewski, Piotr Relativistic problem of random flights and Nelson's stochastic mechanics. **93j:81054**
Ghirardi, Gian Carlo The dynamical reduction program. **93e:81014**
Gikhman, Il. I. Probabilistic representation of quantum evolutions. (Russian. Russian and Ukrainian summaries) **93k:81114**
Gisin, Nicolas (*with* Cibils, M. B.) Quantum diffusions, quantum dissipation and spin relaxation. (English summary) **93j:81055**
Goldstein, Sheldon *see* **Dürr, Detlef; et al., 93k:81006**
Grubb, Anthea Some results on diagonals, determinants and eigenvalues of positive selfadjoint matrices. **93f:15013**
Gudder, Stanley (*with* Schindler, C.) Quasi-discrete quantum Markov processes. (French summary) **93f:81062**
Guerra, Francesco *see* **Aldrovandi, Ettore; et al., 93m:58123**
(Kapoor, Ashok K.) *see* **Namiki, Mikio, 93m:81076**
Lo Cascio, L. (*with* Persico, F.) Strong-field theory of dressed atoms and dressed photons. **93e:81156**
(Nakazato, Hiromichi) *see* **Namiki, Mikio, 93m:81076**
Namiki, Mikio ★ Stochastic quantization. **93m:81076**
(Ohba, Ichiro) *see* **Namiki, Mikio, 93m:81076**
(Okano, Keisuke) *see* **Namiki, Mikio, 93m:81076**
Persico, F. *see* **Lo Cascio, L., 93e:81156**
Posilicano, Andrea *see* **Dell'Antonio, Gianfausto, 93e:60063**
Prugovečki, Eduard ★ Quantum geometry. **93b:81019**
Ramanathan, R. Derivation of the Klein-Gordon equation from a generalized Markov principle. **93f:81060**
Rapoport Campodónico, Diego Lucio Stochastic processes in conformal Riemann-Cartan-Weyl gravitation. **93d:58188**
Rimini, Alberto (*with* Roncadelli, Marco) A framework for a relativistic theory of state reduction. (English summary) **93k:81027**
Roncadelli, Marco *see* **Rimini, Alberto, 93k:81027**
Schindler, C. *see* **Gudder, Stanley, 93f:81062**
(Tanaka, Satoshi) *see* **Namiki, Mikio, 93m:81076**
Truman, Aubrey *see* **Exner, P., 93i:81304** *and* **Durran, Richard M., 93j:85004**
Vigier, Jean-Pierre *see* **Cufaro Petroni, Nicola, 93a:81010**
(Yamanaka, Yoshiya) *see* **Namiki, Mikio, 93m:81076**
Zanghì, Nino *see* **Dürr, Detlef; et al., 93k:81006**

81P99 None of the above, but in this section

Amado Reyes, A. Pauli's exclusion principle. (Spanish)
Balachandran, A. P. (*with* Ercolessi, E.) Statistics on networks. (English summary) **93d:81025**
Caianiello, Eduardo R. Quantum and other physics as systems theory. **93j:81010**
Castagnoli, Giuseppe (*with* Rasetti, Mario; Vincenzi, Antonio) Steady, simultaneous quantum computation: a paradigm for the investigation of nondeterministic and nonrecursive computation. (English summary) **93i:81020**
Donev, S. On the description of single massless quantum objects. (English summary) **93k:81031**
Elitzur, Avshalom C. Locality and indeterminism preserve the second law. **93e:81015**
Ercolessi, E. *see* **Balachandran, A. P., 93d:81025**
Grigorenko, A. N. Quantum mechanics with a non-Hermitian Hamiltonian. (English summary) **93m:81021**
Kostin, M. D. Schrödinger-Fuerth quantum diffusion theory: generalized complex diffusion equation. **93b:81037**
Nottale, Laurent The theory of scale relativity. (English summary) **93i:81021**
Ohya, Masanori Information dynamics and its applications to optical communication processes. (English summary) (*see* **93e:81158**)
Ramanathan, R. Relativistic quantum mechanics as a Markovian stochastic process in a five-dimensional complex space-time. (English summary)
Rasetti, Mario *see* **Castagnoli, Giuseppe; et al., 93i:81020**
Schiffer, Marcelo Quantum limit for information transmission. **93d:81026**
Vincenzi, Antonio *see* **Castagnoli, Giuseppe; et al., 93i:81020**

Items with secondary classifications in 81P99

(Balibar, Françoise) *see* **Penrose, Roger, 93k:00013**
Barut, Asim Orhan (*with* Bracken, Anthony J.) Particle-like configurations of the electromagnetic field: an extension of de Broglie's ideas. (English summary) **93j:78005**
Bonilla, L. L. (*with* Guinea, F.) Collapse of the wave packet and chaos in a model with classical and quantum degrees of freedom. **93a:81030**
Bożejko, Marek A q-deformed probability, Nelson's inequality and central limit theorems. **93a:81098**
Bracken, Anthony J. *see* **Barut, Asim Orhan, 93j:78005**
Capri, A. Z. (*with* Roy, S. M.) The definition of time and quantum vacuum in 1 + 1 dimensions. (English summary) **93e:81084**
Chen, Han-lin (*with* Schempp, Walter) The uncertainty inequality in quantum holography, Bohr's indeterminacy principle, and synchronized neural networks. (English summary) (*see* **93k:26001**)
El Naschie, M. S. Complex dynamic in a 4D Peano-Hilbert space. (English summary) **93f:58148**
Fuchssteiner, Benno An alternative dynamical description of quantum systems. **93k:81078**
(Gardner, Martin) *see* **Penrose, Roger, 93k:00013**
Guinea, F. *see* **Bonilla, L. L., 93a:81030**
Hartle, James B. Classical physics and Hamiltonian quantum mechanics as relics of the big bang. **93b:83067**
Khrennikov, A. Yu. Statistical interpretation of p-adic quantum field theory. (Russian. Russian summary) **93k:81245**
Krotov, V. F. Observation of linear systems and the principles of quantum mechanics. (Russian. Russian summary) (*see* **93m:93004**)
Lange, Bogdan Quantum statistics as a basis of the epistemological interpretation of quantum mechanics. (Polish)
Lindblad, Göran Quantum entropy and quantum measurements. (*see* **93e:81158**)
Markechová, Dagmar F-quantum spaces and their dynamics. (English summary) **93f:03042**
Marx, Egon Spinor equations in relativistic quantum mechanics. **93h:81052**
Maxwell, Nicholas Does orthodox quantum theory undermine, or support, scientific realism?
Ohsumi, Akira Derivation of the nonlinear Schrödinger equations from stochastic control theory. (English summary) **93h:93087**
Ord, G. N. Classical analog of quantum phase. **93f:81071**
Ozawa, Masanao Operator algebras and nonstandard analysis. (English summary) **93j:46067**

Penrose, Roger ★ L'esprit, l'ordinateur et les lois de la physique. (French) [Minds, computers and the laws of physics] **93k:00013**
Roy, S. M. *see* **Capri, A. Z., 93e:81084**
Schempp, Walter *see* **Chen, Han-lin, (93k:26001)**
Stern, August ★ Matrix logic and mind. **93e:03009**
Svaiter, B. F. (*with* Svaiter, N. F.) Inertial and noninertial particle detectors and vacuum fluctuations. (English summary) **93m:81110**
Svaiter, N. F. *see* **Svaiter, B. F., 93m:81110**
(Tiercelin, Claudine) *see* **Penrose, Roger, 93k:00013**

81Qxx General mathematical topics and methods in quantum theory

Items with secondary classifications in 81Qxx

Steeb, Willi-Hans ★ Hilbert spaces, generalized functions and quantum mechanics. **93b:46002**

81Q05 Closed and approximate solutions to the Schrödinger, Dirac, Klein-Gordon and other quantum-mechanical equations

Agaeva, R. G. The method of quantum integrals of motion and exact solutions of the nonstationary Schrödinger equation. (Russian) (*see* **93d:58002**)
de Aguiar, M. A. M. One-dimensional action billiards and eigenvalues of truncated Hamiltonians. **93b:81038**
Aliaga, J. (*with* Crespo, G.; Proto, A. N.) Information-theoretic and Wigner-function approaches to the nonclassical state dynamics for the variable-frequency harmonic oscillator. (English summary)
Anandan, J. (*with* Mazur, Pawel O.) Geometric phase for the relativistic Klein-Gordon equation. (English summary)
Bachas, C. A proof of exponential suppression of high-energy transitions in the anharmonic oscillator. **93b:81039**
Bajpai, S. D. Solution of a one-dimensional Schrödinger equation. (Hindi. English and Hindi summaries) **93m:81022**
Barut, Asim Orhan (*with* Beker, Henry J.) Exact solutions of spin (Rabi) precession, transmission and reflection in the Eckhart potential. **93b:81040**
Baseia, B. *see* **Dantas, Célia M. A.; et al., 93a:81031**
Baskoutas, S. (*with* Jannussis, A.) Quantum tunnelling effect for the inverted Caldirola-Kanai Hamiltonian. (English summary) **93k:81032**
— (*with* Jannussis, A.) Quantum mechanics of the inverted Caldirola-Kanai oscillator. **93b:81041**
Baumgartner, B. Relative concavity of ground state energies as functions of a coupling constant. (English summary) **93i:81022**
Beker, Henry J. *see* **Barut, Asim Orhan, 93b:81040**
Belov, A. A. (*with* Lozovik, Yu. E.) Calculation of the Green function of an electron on a lattice in a homogeneous magnetic field. (Russian. English summary) **93d:81027**
Bera, P. K. *see* **Talukdar, B.; et al., 93d:81036**
Bergé, Luc (*with* Pesme, Denis) Time dependent solutions of wave collapse. **93c:81026**
Bhaduri, R. K. *see* **Murthy, M. V. N.; et al., 93k:81043**
Bhattacharyya, C. *see* **Talukdar, B.; et al., 93d:81036**
Bollé, D. Schrödinger operators at threshold. (English summary) **93k:81033**
Bonato, C. A. (*with* Malbouisson, A. P. C.; Thomaz, M. T.) The equivalent Schrödinger equation for the bounce solution. **93d:81028**
Bonilla, L. L. (*with* Guinea, F.) Collapse of the wave packet and chaos in a model with classical and quantum degrees of freedom. **93a:81030**
Bose, Subir Kumar Exact solution of the Schrödinger equation for the central nonpolynomial potential $V(r) = r^2 + \lambda r^2/(1 + gr^2)$ in N dimensions. (English summary)
Bravo Yuste, Santos Generalized Bohr-Sommerfeld rule for quartic oscillators. (English summary) **93i:81023**
Brink, L. (*with* Hansson, T. H.; Vasil'ev, M. A.) Explicit solution to the N-body Calogero problem. (English summary) **93d:81029**
Burrows, B. L. (*with* Cohen, Maurice; Feldmann, Tova) Lower bounds for quartic anharmonic and double-well potentials. (English summary) **93k:81034**
Cabos, William D. *see* **Shishkin, G. V., 93b:81050**
Cao, Xuân Chuân The separation of a coupled system of differential equations in quantum mechanics. **93d:81030**
Celeghini, E. (*with* Rasetti, Mario; Vitiello, G.) Dissipation in quantum field theory. (*see* **93e:00025**)
Chaba, A. N. *see* **Souto, J. Hugo, 93b:81051**
Chang, Zhe The quantum q-deformed symmetric top: an exactly solved model. **93c:81027**
Chaus, N. N. Density and flow of energy in nonrelativistic quantum mechanics. (Russian. Russian and Ukrainian summaries) **93j:81011**
Chen, Yin Hua *see* **Zhu, Dong Pei; et al., 93f:81030**
Chetouani, L. (*with* Guechi, L.; Hammann, T. F.) Algebraic treatment of a general noncentral potential. (English summary) **93k:81035**
Chhajlany, S. C. Some polynomial perturbation problems and the rotating displaced oscillator. (English summary) **93k:81036**
Cho, Jin-Ho *see* **Chung, Won-Sang; et al., 93h:81020**
Chung, Won-Sang (*with* Lee, Jungjai; Cho, Jin-Ho) Quaternion solutions of four-dimensional Liouville and sine-Gordon equations. (English summary) **93h:81020**
Čížek, Jiří Karel *see* **Vinette, Francine, 93m:81024**
Cohen, Jeffrey M. (*with* Kuharetz, Boris) Energy level degeneracy. (English summary) **93k:81037**
Cohen, Maurice *see* **Burrows, B. L.; et al., 93k:81034**
Common, A. K. Bounds on the kinetic energy, mean radius, and electric dipole moment of ground states in a class of potential models of quarkonium. **93b:81042**
Cooper, Fred (*with* Lucheroni, Carlo; Shepard, Harvey) Variational method for studying self-focusing in a class of nonlinear Schrödinger equations. (English summary) **93i:81024**
Coutinho, F. A. B. (*with* Nogami, Yukihisa; Perez, J. Fernando) Selfadjoint extensions of the Hamiltonian for a charged particle in the presence of a thread of magnetic flux. (English summary) **93i:81025**
Crespo, G. *see* **Aliaga, J.; et al.**
Cui, Shi Min Dynamic Lie-algebra structure of a quantum system and the Aharonov-Anandan phase. (English summary) **93j:81012**
Dantas, Célia M. A. (*with* Pedrosa, I. A.; Baseia, B.) Harmonic oscillator with time-dependent mass and frequency and a perturbative potential. **93a:81031**
Das, U. *see* **Talukdar, B.; et al., 93d:81036**
Date, G. *see* **Murthy, M. V. N.; et al., 93k:81043**
Datta, Nilanjana (*with* Ghosh, Gautam) Berry's phase for anharmonic oscillators. (English summary) **93j:81013**
De, R. (*with* Dutt, Ranabir; Sukhatme, Uday P.) Mapping of shape invariant potentials under point canonical transformations. **93k:81038**
De Bièvre, Stephan Oscillator eigenstates concentrated on classical trajectories. (French summary) **93h:81021**
Diamond, James J. Classically forbidden behavior of the quantum harmonic oscillator for large quantum numbers. (English summary) **93e:81016**
Dixon, J. M. (*with* Kelley, M.; Tuszyński, J. A.) Coherent structures from the three-dimensional nonlinear Schrödinger equation. (English summary) **93m:81023**
Dodonov, V. V. (*with* Man'ko, V. I.; Man'ko, O. V.) A quantum nonstationary oscillator. (Russian. Russian summary) **93g:81016**
Dubov, S. Yu. (*with* Eleonskii, V. M.; Kulagin, N. E.) Equidistant spectra of anharmonic oscillators. (Russian) **93h:81022**
Dunne, Gerald (*with* Lerda, Alberto; Sciuto, Stefano; Trugenberger, Carlo A.) Exact multi-anyon wave functions in a magnetic field. **93c:81028**
Dutt, Ranabir *see* **De, R.; et al., 93k:81038**
Eleonskii, V. M. *see* **Dubov, S. Yu.; et al., 93h:81022**
Fan, Hong Yi[1] (*with* Jing, Si Cong) Some representations for time-dependent harmonic oscillator. (English summary) **93k:81039**
— Density matrix and squeezed state of the two coupled harmonic oscillators. (English summary)
Feddersen, H. Solitary wave solutions to the discrete nonlinear Schrödinger equation. (English summary) (*see* **93e:00025**)
Fefferman, Charles Atoms and analytic number theory. **93g:81017**
Feldmann, Tova *see* **Burrows, B. L.; et al., 93k:81034**
Foong, See Kit (*with* van Kolck, U.) Poisson random walk for solving wave equations. **93b:81043**
Frasca, M. Quantum harmonic oscillator in a strong electrostatic wave. (English summary)
Gao, Xiao Chun (*with* Xu, Jing Bo; Qian, Tie Zheng) Invariants and solution-generating technique for the quantum singular time-dependent harmonic oscillator. **93a:81032**
Ghosh, Gautam *see* **Datta, Nilanjana, 93j:81013**
Gitman, D. M. (*with* Saa, A. V.) Pseudoclassical model of spinning particle with anomalous magnetic momentum. (English summary) **93j:81014**
Grundland, Alfred M. (*with* Infeld, E.) A family of nonlinear Klein-Gordon equations and their solutions. **93f:81027**
Guechi, L. *see* **Chetouani, L.; et al., 93k:81035**
Guinea, F. *see* **Bonilla, L. L., 93a:81030**
Hall, Richard L. Square-well representations for potentials in quantum mechanics. (English summary) **93g:81018**
Hammann, T. F. *see* **Chetouani, L.; et al., 93k:81035**
Hansson, T. H. *see* **Brink, L.; et al., 93d:81029**
Hillion, Pierre T. M. Nondispersive solutions of the Klein-Gordon equation. **93d:81031**
— Nondispersive solutions of the Dirac equation. **93d:81032**
Howland, James S. Stability of quantum oscillators. (English summary) **93i:81026**
Ichinose, Takashi (*with* Tsuchida, Tetsuo) On Kato's inequality for the Weyl quantized relativistic Hamiltonian. (English summary) **93k:81040**
Infeld, E. *see* **Grundland, Alfred M., 93f:81027**
Jannussis, A. *see* **Baskoutas, S., 93b:81041** *and* **93k:81032**
Jáuregui, R. (*with* Récamier, J.) Iterative Bogoliubov transformations and anharmonic oscillators. (English summary) **93e:81017**
Jing, Si Cong *see* **Fan, Hong Yi[1], 93k:81039**
Johnson, Kenneth A. The Dirac equation in a box. (English summary) **93d:81033**
Kaushal, R. S. (*with* Parashar, D.) On the quantum bound states for the potential $V(r) = ar^2 + br^{-4} + cr^{-6}$. (English summary) **93g:81019**
Kelley, M. *see* **Dixon, J. M.; et al., 93m:81023**
Kereselidze, T. M. (*with* Mourad, H. A.; Tzulukidze, M. F.) Electron in the field of three Coulomb centres: asymptotic solutions. **93c:81029**
Khrebtukov, D. B. The exact numerical solution of a Schrödinger equation with two-Coulomb centres plus oscillator potential. **93a:81033**
Kijowski, Jerzy (*with* Thielmann, Artur) A lattice approximation of the Dirac equation. (English summary) **93e:81018**
Kim, Yong Duk *see* **Kwon, Ohjong; et al., 93j:81015**
van Kolck, U. *see* **Foong, See Kit, 93b:81043**
Korzeniowski, Andrzej Quantum mechanical simulation of the hydrogen molecule. **93a:81034**
Kuharetz, Boris *see* **Cohen, Jeffrey M., 93k:81037**
Kulagin, N. E. *see* **Dubov, S. Yu.; et al., 93h:81022**
Kuperin, Yu. A. (*with* Mel'nikov, Yu. B.[1]) Quantum scattering in gauge fields of adiabatic representations. (Russian) **93c:81030**
Kwon, Ohjong (*with* Kim, Yong Duk; Lee, Chahn) Berry's phase in a moving boundary problem. (English summary) **93j:81015**
Landtman, M. Calculation of low lying states in the potential $V(r) = ar^2 + br^{-4} + cr^{-6}$ using B-spline basis sets. (English summary)
Law, J. *see* **Murthy, M. V. N.; et al., 93k:81043**
Lay, W. (*with* Slavyanov, S.; Smirnov, A. O.) Asymptotic solutions of a Schrödinger equation with a second order pole. (English summary) **93k:81041**
Leach, P. G. L. *see* **Znojil, Miloslav, 93i:81029**
Lee, Chahn *see* **Kwon, Ohjong; et al., 93j:81015**
Lee, Jungjai *see* **Chung, Won-Sang; et al., 93h:81020**

Lerda, Alberto *see* **Dunne, Gerald; et al., 93c:81028**
Linde, Johan (*with* Snellman, Håkan) Approximate analytic solutions to the Skyrme equation. (English summary) **93h:81023**
Littlejohn, Robert G. The Van Vleck formula, Maslov theory, and phase space geometry. **93h:81024**
López Bonilla, J. *see* **Morales, Jesus; et al., 93b:81045**
Loyola, G. *see* **Moshinsky, M.; et al., 93f:81028**
Lozovik, Yu. E. *see* **Belov, A. A., 93d:81027**
Lucheroni, Carlo *see* **Cooper, Fred; et al., 93i:81024**
Makowski, Adam J. Two classes of exactly solvable quantum models with moving boundaries. **93b:81044**
Malbouisson, A. P. C. *see* **Bonato, C. A.; et al., 93d:81028**
Man'ko, O. V. *see* **Dodonov, V. V.; et al., 93g:81016**
Man'ko, V. I. *see* **Dodonov, V. V.; et al., 93g:81016**
Mardoyan, L. G. (*with* Sisakyan, A. N.) The hydrogen atom in curved space: orthogonality of the radial wave functions with respect to the orbital angular momentum. (Russian)
Martín, J. I. *see* **Pérez-García, V. M.; et al., 93d:81034**
Mazur, Paweł O. *see* **Anandan, J.**
Mel'nikov, A. M. (*with* Minlos, R. A.) Point interaction of three different particles. (Russian. Russian summary) **93k:81042**
Mel'nikov, Yu. B.[1] *see* **Kuperin, Yu. A., 93c:81030**
Michelot, F. Solution for an arbitrary number of coupled identical oscillators. **93c:81031**
Minlos, R. A. *see* **Mel'nikov, A. M., 93k:81042**
Mittag, Laurence (*with* Stephen, Michael J.) Conformal transformations and the application of complex variables in mechanics and quantum mechanics. **93c:81032**
Morales, Jesus (*with* Peña, J. J.; López Bonilla, J.) Algebraic approach to matrix elements: recurrence relations and closed formulas for hydrogenlike wave functions. **93b:81045**
Moshinsky, M. (*with* Loyola, G.; Szczepaniak, A.) The two-body Dirac oscillator. (English summary) **93f:81028**
Moszyński, Marcin A quantum version of the Nekhoroshev theorem. **93b:81046**
Mourad, H. A. *see* **Kereselidze, T. M.; et al., 93c:81029**
Murthy, M. V. N. (*with* Law, J.; Bhaduri, R. K.; Date, G.) On a class of noninterpolating solutions of the many-anyon problem. (English summary) **93k:81043**
Najman, Branko The nonrelativistic limit of the nonlinear Dirac equation. (French summary) **93b:81047**
Nogami, Yukihisa *see* **Coutinho, F. A. B.; et al., 93i:81025**
Ogawa, Naohisa The difference of effective Hamiltonian in two methods in quantum mechanics on submanifold. **93b:81048**
Parashar, D. *see* **Kanshal, R. S., 93g:81019**
Pedrosa, I. A. *see* **Dantas, Célia M. A.; et al., 93a:81031**
Peña, J. J. *see* **Morales, Jesus; et al., 93b:81045**
Perez, J. Fernando *see* **Coutinho, F. A. B.; et al., 93i:81025**
Pérez-García, V. M. (*with* Martín, J. I.; Rañada, Antonio F.) On the integrability of the classical hydrogen atom in a magnetic field. (Spanish summary) **93d:81034**
Pesme, Denis *see* **Bergé, Luc, 93c:81026**
Pilkuhn, H. Equal-time relativistic two-body equations. **93a:81035**
Poliatzky, Nathan A method for solving the Schrödinger equation. **93d:81035**
Proto, A. N. *see* **Aliaga, J.; et al.**
Qian, Tie Zheng *see* **Gao, Xiao Chun; et al., 93a:81032**
Rañada, Antonio F. *see* **Pérez-García, V. M.; et al., 93d:81034**
Rasetti, Mario *see* **Celeghini, E.; et al., (93e:00025)**
Récamier, J. *see* **Jáuregui, R., 93e:81017**
Saa, A. V. *see* **Gitman, D. M., 93j:81014**
Sciuto, Stefano *see* **Dunne, Gerald; et al., 93c:81028**
Sen Gupta, N. D. Dirac particle in a spatially periodic magnetic field. (English summary)
Shen, Shun Qing (*with* Wu, Xiao Hui; Tao, Rui Bao) The atomic hydrogen in two spatial dimensions. (English summary) **93i:81027**
Shepard, Harvey *see* **Cooper, Fred; et al., 93i:81024**
Shi, Ming Jun *see* **Zhu, Dong Pei; et al., 93f:81030**
Shishkin, G. V. Exact description of the Dirac particle in scalar and pseudoscalar fields. (Russian. English summary) **93b:81049**
— (*with* Cabos, William D.) Dirac equation in external fields: separation of variables in nondiagonal metrics. **93b:81050**
Sigal, I. M. Quantum mechanics of many-particle systems. **93c:81033**
Sisakyan, A. N. *see* **Mardoyan, L. G.**
Skobelev, V. V. On the Green function of the generalized Dirac equation in an external field. (Russian. Russian summary)
Slavyanov, S. *see* **Lay, W.; et al., 93k:81041**
Smirnov, A. O. *see* **Lay, W.; et al., 93k:81041**
Snellman, Håkan *see* **Linde, Johan, 93h:81023**
Sobouti, Y. *see* **Tahmasebi, M. J., 93k:81044**
Souto, J. Hugo (*with* Chaba, A. N.) Distribution of quantum states in enclosures of finite size. II. **93b:81051**
Stephen, Michael J. *see* **Mittag, Laurence, 93c:81032**
Sukhatme, Uday P. *see* **De, R.; et al., 93k:81038**
Szczepaniak, A. *see* **Moshinsky, M.; et al., 93f:81028**
Tahmasebi, M. J. (*with* Sobouti, Y.) Exact solutions of Schrödinger's equation for spin systems in a class of time dependent magnetic fields. II. (English summary) **93k:81044**
Takagi, Shin Quantum dynamics and noninertial frames of reference. I. Generality. **93c:81034**
— Quantum dynamics and noninertial frames of reference. II. Harmonic oscillators. **93c:81035**
— Quantum dynamics and noninertial frames of reference. III. Charged particle in time-dependent uniform electromagnetic field. **93c:81036**
Talukdar, B. (*with* Das, U.; Bhattacharyya, C.; Bera, P. K.) Phase-equivalent potentials from supersymmetric quantum mechanics. **93d:81036**
Tao, Rui Bao *see* **Shen, Shun Qing; et al., 93i:81027**
Taşeli, H. The influence of the boundedness of polynomial potentials on the spectrum of the Schrödinger equation. **93d:81037**
Thielmann, Artur *see* **Kijowski, Jerzy, 93e:81018**
Thomaz, M. T. *see* **Bonato, C. A.; et al., 93d:81028**
Trugenberger, Carlo A. *see* **Dunne, Gerald; et al., 93c:81028**
Tsuchida, Tetsuo *see* **Ichinose, Takashi, 93k:81040**
Tsuru, Hideo Uncertainty product of wave packet in harmonic potential.
Tuszyński, J. A. *see* **Dixon, J. M.; et al., 93m:81023**
Tutik, R. S. Exact solution of the N-dimensional generalized Dirac-Coulomb equation. **93a:81036**
Tzulukidze, M. F. *see* **Kereselidze, T. M.; et al., 93c:81029**
Ushveridze, A. G. Quasi-exact solvability. New phenomenon in quantum mechanics. (*see* **93h:81003**)
— Quasi-exact solvability. A new phenomenon in quantum mechanics (algebraic approach). (Russian. English summary) **93d:81038**
Vasil'ev, M. A. *see* **Brink, L.; et al., 93d:81029**
Vinette, Francine (*with* Čížek, Jiří Karel) Upper and lower bounds of the ground state energy of anharmonic oscillators using renormalized inner projection. **93m:81024**
Vitiello, G. *see* **Celeghini, E.; et al., (93e:00025)**
Wang, Xue Ping[1] Barrier resonances in strong magnetic fields. (English summary) **93j:81016**
Witwit, M. R. M. Energy levels of two-dimensional anharmonic oscillators with sextic and octic perturbations. (English summary) **93i:81028**
— Energy levels of a three-dimensional anharmonic oscillator with quartic anisotropic perturbation. (English summary) **93f:81029**
Wu, Xiao Hui *see* **Shen, Shun Qing; et al., 93i:81027**
Xu, Jing Bo *see* **Gao, Xiao Chun; et al., 93a:81032**
Zhang, Mei Qing Explicit unitary schemes to solve quantum operator equations of motion. **93h:81052**
Zhao, Bao Heng Comments on the Schrödinger equation with δ'-interaction in one dimension. **93b:81053**
Zhao, Ping Bo An approximation theory for the determinant representation of the quantum ground state. (Chinese. English summary) **93c:81037**
Zhu, Dong Pei (*with* Shi, Ming Jun; Chen, Yin Hua) A method for finding the quantum ground state. (Chinese. English and Chinese summaries) **93f:81030**
Znojil, Miloslav Asymmetric anharmonic oscillators in the Hill-determinant picture. **93d:81039**
— (*with* Leach, P. G. L.) On the elementary Schrödinger bound states and their multiplets. **93i:81029**
— Spiked but still exact harmonic oscillators. **93b:81054**
— Spiked harmonic oscillators and Hill determinants. (English summary) **93i:81030**

Items with secondary classifications in 81Q05

Abramov, D. I. (*with* Gusev, V. V.) The Coulomb two-centre problem near the boundary of the continuous spectrum. **93a:81216**
Anderson, Robert Leonard *see* **Rideau, Guy; et al., 93d:81101**
Babelon, O. (*with* Talon, Michel) Separation of variables for the classical and quantum Neumann model. **93g:58047**
Bajpai, S. D. Solution of a partial differential equation related to queuing theory, heat conduction and quantum mechanics. (English summary)
— Solution of a partial differential equation related to quantum mechanics. (English summary)
Baskoutas, S. (*with* Jannussis, A.; Mignani, R.) Study of the generalized parametric oscillator. **93d:81057**
Baye, D. *see* **Vincke, M.; et al., 93b:81311**
Beals, Michael (*with* Bézard, Max) Équations de champs non linéaires: des solutions non nécessairement bornées. [Nonlinear field equations: some not necessarily bounded solutions] **93m:35127**
Bézard, Max *see* **Beals, Michael, 93m:35127**
Bonatsos, Dennis (*with* Daskaloyannis, C.; Kokkotas, K.) Classical potentials for q-deformed anharmonic oscillators. **93b:81106**
Boulware, David G. Quantum field theory in spaces with closed timelike curves. (English summary) **93m:81107**
Briegel, H.-J. (*with* Englert, B.-G.; Michaelis, M.; Süssmann, G.) Über die Wurzel aus der Klein-Gordon-Gleichung als Schrödinger-Gleichung eines relativistischen Spin-0-Teilchens. (English summary) [On the square-root Klein-Gordon equation as Schrödinger equation for a relativistic spin-0 particle] **93a:81070**
Castrigiano, Domenico P. L. (*with* Stärk, Florian) Intrinsic clock as a tool for path integration: an example. **93b:81128**
Cerjan, Charles *see* **Tal-Ezer, Hillel; et al., 93b:81005**
Chandola, H. C. *see* **Negi, P. S.; et al., 93h:81050**
Clarkson, Peter A. (*with* Hood, Simon) Symmetry reductions of a generalized, cylindrical nonlinear Schrödinger equation. (English summary) **93m:35167**
Clemence, Dominic P. Some layer-stripping formulae for the Schrödinger equation with a periodic potential. (English summary) **93h:35150**
Cnops, J. Orthogonal polynomials associated with the Dirac operator in Euclidean space. **93j:33005**
Dai, Wei Zhong An unconditionally stable three-level explicit difference scheme for the Schrödinger equation with a variable coefficient. **93a:65112**
Daskaloyannis, C. *see* **Bonatsos, Dennis; et al., 93b:81106**
Dattoli, G. (*with* Loreto, V.; Mari, C.; Richetta, M.; Torre, Amalia) Biunitary transformations and ordinary differential equations. I, II, III. **93e:34015**
Dorren, H. J. S. (*with* Tip, A.) Maxwell's equations for nonsmooth media; fractal-shaped and pointlike objects. **93a:78007**
Egikyan, R. S. (*with* Ktitarev, D. V.) The Feynman formula in phase space for systems of pseudodifferential equations with analytic symbols. (Russian. Russian summary) **93g:35154**
Egorchenko, I. A. (*with* Vorob'eva, A. I.) Conditional invariance and exact solutions of the Klein-Gordon-Fock equation. (Russian. English and Russian summaries) **93f:35194**
Eilbeck, J. C. *see* **Enol'skiĭ, V. Z.; et al., 93j:81107**
Eliasson, L. H. Floquet solutions for the 1-dimensional quasi-periodic Schrödinger equation. **93d:34141**

Elizalde, E. (*with* Romeo, A.) Epstein-function analysis of the Casimir effect at finite temperature for massive fields. (English summary) **93i:81149**
Englert, B.-G. *see* **Briegel, H.-J.; et al., 93a:81070**
Ènol'skiĭ, V. Z. (*with* Salerno, Mario; Scott, A. C.; Eilbeck, J. C.) There's more than one way to skin Schrödinger's cat. (English summary) **93j:81107**
Estévez-Bretón, Erika Sabrina (*with* Estévez-Bretón, Gentil A.) The nonsingular spiked harmonic oscillator. (English summary) **93j:33002**
Estévez-Bretón, Gentil A. *see* **Estévez-Bretón, Erika Sabrina, 93j:33002**
Evans, N. W. Group theory of the Smorodinsky-Winternitz system. **93a:81062**
Feldman, Joel (*with* Knörrer, Horst; Trubowitz, Eugene) There is no two-dimensional analogue of Lamé's equation. **93m:35133**
Frigerio, Alberto (*with* Grillo, Gabriele) Time-dependent Schrödinger operators and simulated annealing. **93i:82053**
Fushchich, V. I. (*with* Nikitin, A. G.) ★ Симметрия уравнений квантовой механики. (Russian) [Symmetry of equations of quantum mechanics] **93c:81059**
— (*with* Zhdanov, R. Z.) On the non-Lie reduction of the nonlinear Dirac equation. **93b:58168**
Gaignebet, Alain Équation de Schrödinger unidimensionnelle stationnaire. Quantification dans le cas d'un double puits de potentiel symétrique. (English and French summaries) [The one-dimensional stationary Schrödinger equation: quantization in the case of a double well with symmetrical potential] **93m:34137**
Gao, Jun *see* **Gao, Xiao Chun; et al., 93k:81070**
Gao, Xiao Chun (*with* Xu, Jing Bo; Gao, Jun) A new approach to the study of Noether invariants and symmetry algebras. **93k:81070**
Georgiev, Vladimir *see* **Grigorov, A.; et al., 93j:35146**
Grigorov, A. (*with* Martinov, Nikolai Konstantinov; Ouroushev, D.; Georgiev, Vladimir) A method for generating exact solutions of the nonlinear Klein-Gordon equation. (English and French summaries) **93j:35146**
Grillo, Gabriele *see* **Frigerio, Alberto, 93i:82053**
Grosse, Harald (*with* Langmann, Edwin) The geometric phase and the Schwinger term in some models. (English summary) **93k:81229**
Guiaşu, Silviu Deducing the Schrödinger equation from minimum χ^2. **93f:81011**
Gusev, V. V. *see* **Abramov, D. I., 93a:81216**
Hall, Richard L. Refining the comparison theorem of quantum mechanics. (English summary) **93f:35161**
Handy, Carlos R. (*with* Lee, Patricia) Positivity and the energy quantization of physical systems: the C-shift moment method. **93a:81107**
Hebda, Piotr W. *see* **Rideau, Guy; et al., 93d:81101**
Heimsoeth, B. (*with* Lange, Horst R.) Nonlocal nonlinear Schrödinger equations. **93f:35216**
Hood, Simon *see* **Clarkson, Peter A., 93m:35167**
Jannussis, A. *see* **Baskoutas, S.; et al., 93d:81057**
Kaiser, Gerald (*with* Streater, Raymond F.) Windowed Radon transforms, analytic signals, and the wave equation. **93g:44008**
Kleinert, Hagen Improving the variational approach to path integrals. **93b:81136**
Knörrer, Horst *see* **Feldman, Joel; et al., 93m:35133**
Kokkotas, K. *see* **Bonatsos, Dennis; et al., 93b:81106**
Kosloff, Ronnie *see* **Tal-Ezer, Hillel; et al., 93b:81005**
Kragl, Hans Cases of structural equality between the scalar wave equations of optics and the quantum-mechanical Schrödinger equation. **93c:35136**
Ktitarev, D. V. *see* **Egikyan, R. S., 93g:35154**
Lange, Horst R. *see* **Heimsoeth, B., 93f:35216**
Langmann, Edwin *see* **Grosse, Harald, 93k:81229**
Le Dourneuf, M. *see* **Vincke, M.; et al., 93b:81311**
Lee, Patricia *see* **Handy, Carlos R., 93a:81107**
Le Van Hoang On the Green function for the MIC-Kepler problem. (Russian. English and Russian summaries) **93k:81130**
Lewis, Andrew D. Lagrangian submanifolds and an application to the reduced Schrödinger equation in central force problems. (English summary) **93h:58057**
Liao, Li *see* **Song, Xing Chang, 93b:81117**
Livi, R. (*with* Politi, Antonio; Ruffo, Stefano) Repeller structure in a hierarchical model. II. Metric properties. **93d:58092**
Loreto, V. *see* **Dattoli, G.; et al., 93e:34015**
Losev, A. S. (*with* Turbiner, A. V.) Multidimensional exactly solvable problems in quantum mechanics and pullbacks of affine coordinates on the Grassmannian. **93i:58074**
Luke, Jon C. On particle-like solutions for a nonlinear complex-valued Klein-Gordon equation. (English summary) (*see* **93f:00015**)
Lund, Fernando Dynamics of nonlinear Schrödinger defects in three dimensions. (English summary) (*see* **93b:00027**)
Maioli, Marco (*with* Sacchetti, Andrea) Strong asymptotic expansion for the exponential anharmonic oscillator. (English summary) **93e:81021**
Mari, C. *see* **Dattoli, G.; et al., 93e:34015**
Martínez y Romero, R. P. (*with* Salas-Brito, A. L.) Conformal invariance in a Dirac oscillator. **93k:81084**
Martinov, Nikolai Konstantinov *see* **Grigorov, A.; et al., 93j:35146**
Meyer, R. E. Exponential asymptotics for partial differential equations. (English summary) **93k:35058**
Michaelis, M. *see* **Briegel, H.-J.; et al., 93a:81070**
Mignani, R. *see* **Baskoutas, S.; et al., 93d:81057**
Minahan, Joseph A. (*with* Polychronakos, Alexios P.) Integrable systems for particle with internal degrees of freedom. (English summary) **93m:70019**
Molzahn, F. H. Exponential cluster solutions to quantum transport equations. (English summary) **93i:82069**
Najman, Branko The nonrelativistic limit of Klein-Gordon and Dirac equations. (*see* **93a:00021**)
Negi, P. S. (*with* Chandola, H. C.; Rajput, Balwant Singh) Fermionic fields in six-dimensional space-time. (English summary) **93h:81050**
Nikitin, A. G. The complete set of symmetry operators of the Schrödinger equation. (Russian. Ukrainian summary) **93b:35122**
— *see also* **Fushchich, V. I., 93c:81059**
de Oliveira, S. Moss *see* **de Souza, S. M.; et al., 93i:82021**
Ouroushev, D. *see* **Grigorov, A.; et al., 93j:35146**
Podleś, Piotr Quantization enforces interaction. Quantum mechanics of two particles on a quantum sphere. (English summary) **93k:81105**
Politi, Antonio *see* **Livi, R.; et al., 93d:58092**
Polychronakos, Alexios P. Exchange operator formalism for integrable systems of particles. **93g:58063**
— *see also* **Minahan, Joseph A., 93m:70019**
Rabello, S. J. (*with* Vaidya, A. N.) Evaluation of Schwinger-de Witt kernels for spin-$\frac{1}{2}$ fields through the SO(2, 1) Lie algebra. (English summary) **93h:81095**
Rajput, Balwant Singh *see* **Negi, P. S.; et al., 93h:81050**
Ramond, Thierry Équation de Hill à potentiel méromorphe. [The Hill equation with meromorphic potential] (*see* **93e:35005**)
Richetta, M. *see* **Dattoli, G.; et al., 93e:34015**
Rideau, Guy (*with* Anderson, Robert Leonard; Hebda, Piotr W.) Canonical quantization of the Bateman-Morse-Feshbach damped oscillator. **93d:81101**
Romeo, A. *see* **Elizalde, E., 93i:81149**
Roy, Barnana (*with* Roy, Pinaki; Roychoudhury, Rajkumar) On solutions of quantum eigenvalue problems: a supersymmetric approach. **93c:81053**
Roy, Pinaki *see* **Roy, Barnana; et al., 93c:81053**
Roychoudhury, Rajkumar *see* **Roy, Barnana; et al., 93c:81053**
Ruffo, Stefano *see* **Livi, R.; et al., 93d:58092**
Sacchetti, Andrea *see* **Maioli, Marco, 93e:81021**
Salas-Brito, A. L. *see* **Martínez y Romero, R. P., 93k:81084**
Salerno, Mario Quantum deformations of the discrete nonlinear Schrödinger equation. (English summary) **93i:81099**
— *see also* **Ènol'skiĭ, V. Z.; et al., 93j:81107**
Sánchez, Angel (*with* Vázquez, Luis) Nonlinear wave propagation in disordered media. **93d:35147**
Schief, Wolfgang K. On localized solitonic solutions of a (2 + 1)-dimensional sine-Gordon system. (English summary)
Scott, A. C. *see* **Ènol'skiĭ, V. Z.; et al., 93j:81107**
Shimada, Shin-ichi The approximation of the Schrödinger operators with penetrable wall potentials in terms of short range Hamiltonians. **93g:35031**
Sili, A. Existence d'états stationnaires pour l'équation de Dirac non linéaire. (English summary) [Existence of stationary states for the nonlinear Dirac equation] **93g:35119**
Smolenskiĭ, E. A. (*with* Stankevich, I. V.) Eigenfunction nodes of the multiparticle Schrödinger equation. (Russian. English summary) **93b:35034**
Song, Xing Chang (*with* Liao, Li) The quantum Schrödinger equation and the q-deformation of the hydrogen atom. **93b:81117**
de Souza, S. M. (*with* de Oliveira, S. Moss; Thomaz, M. T.) Thermodynamic properties of an anharmonic fermionic oscillator. (English summary) **93i:82021**
Spiridonov, V. P. Exactly solvable potentials and quantum algebras. **93c:81084**
Stankevich, I. V. *see* **Smolenskiĭ, E. A., 93b:35034**
Stärk, Florian *see* **Castrigiano, Domenico P. L., 93b:81128**
Stolz, Günter Expansions in generalized eigenfunctions of Schrödinger operators with singular potentials. (English summary) **93m:47057**
Streater, Raymond F. *see* **Kaiser, Gerald, 93g:44008**
Sun, Zi Qi An inverse boundary value problem for Schrödinger operators with vector potentials. (English summary) **93j:35066**
Süssmann, G. *see* **Briegel, H.-J.; et al., 93a:81070**
Tal-Ezer, Hillel (*with* Kosloff, Ronnie; Cerjan, Charles) Low-order polynomial approximation of propagators for the time-dependent Schrödinger equation. **93b:81005**
Talon, Michel *see* **Babelon, O., 93g:58047**
Thomaz, M. T. *see* **de Souza, S. M.; et al., 93i:82021**
Tip, A. *see* **Dorren, H. J. S., 93a:78007**
Torre, Amalia *see* **Dattoli, G.; et al., 93e:34015**
Trubowitz, Eugene *see* **Feldman, Joel; et al., 93m:35133**
Turbiner, A. V. *see* **Losev, A. S., 93i:58074**
Vaidya, A. N. *see* **Rabello, S. J., 93h:81095**
Vázquez, Luis *see* **Sánchez, Angel, 93d:35147**
Vichnevetsky, Robert On wave propagation in almost periodic structures. (English summary) **93i:65125**
Vincke, M. (*with* Le Dourneuf, M.; Baye, D.) Hydrogen atom in crossed electric and magnetic fields: transition from weak to strong electron-proton decentring. **93b:81311**
Vorob'eva, A. I. *see* **Egorchenko, I. A., 93f:35194**
Vugal'ter, S. A. (*with* Zhislin, G. M.) On the discrete spectrum of given symmetry of the Schrödinger operator of a system of n-particles in a homogeneous magnetic field. (Russian) **93d:47145**
Xu, Jing Bo *see* **Gao, Xiao Chun; et al., 93k:81070**
Yan, Mu Lin (*with* Zhao, Bao Heng) Solvable quantum many-body problems in two dimensions. (English summary) **93h:81154**
Zhao, Bao Heng *see* **Yan, Mu Lin, 93h:81154**
Zhdanov, R. Z. *see* **Fushchich, V. I., 93b:58168**
Zhislin, G. M. *see* **Vugal'ter, S. A., 93d:47145**

81Q10 Selfadjoint operator theory in quantum theory, including spectral analysis

Ahia, Francis Finiteness of the discrete spectrum of ($N \geq 3$) N-body Schrödinger operators, which have some determinate subsystems that are virtual at the bottom of the continuum. **93a:81037**
Albeverio, Sergio (*with* Fenstad, Jens Erik; Høegh-Krohn, Raphael; Karwowski, Witold; Lindstrøm, Tom) Schrödinger operators with potentials supported by null sets. (English summary) **93m:81025**
Alimov, Sh. A. On the spectrum of the Schrödinger operator for some many-particle systems. **93c:81038**
Aneziris, Charilaos N. Dynamics of and superselection rules on one-dimensional multiply connected systems. **93b:81055**

Arai, Asao A theorem on essential selfadjointness with application to Hamiltonians in nonrelativistic quantum field theory. **93e:81019**

— Momentum operators with gauge potentials, local quantization of magnetic flux, and representation of canonical commutation relations. (English summary) **93h:81025**

Behncke, Horst Absolute continuity of Hamiltonians with von Neumann Wigner potentials. II. **93f:81031**

Béllissard, Jean Renormalization group analysis and quasicrystals. **93k:81045**

Bentosela, F. (*with* Grecchi, Vincenzo) Stark Wannier ladders. **93k:81046**

Bourdeau, Michelle Hilda (*with* Sorkin, R. D.) When can identical particles collide? **93c:81039**

Boutet de Monvel-Berthier, Anne-Marie On the eigenvalues of a perturbed harmonic oscillator. (English summary) **93m:81026**

Brasche, J. F. (*with* Teta, A.) Spectral analysis and scattering theory for Schrödinger operators with an interaction supported by a regular curve. (English summary) **93m:81027**

van Casteren, Jan A. W. *see* **Demuth, Michael, 93m:81028**

Cheremshantsev, S. E. Hamiltonians with zero-range interactions supported by a Brownian path. (French summary) **93d:81040**

Combes, J.-M. (*with* Hislop, Peter D.) Stark ladder resonances for small electric fields. **93c:81040**

— (*with* Hislop, Peter D.) Some transport and spectral properties of disordered media. **93k:81047**

Cruz, Jaime Spectral theory of Schrödinger operators with very long range potentials. **93h:81026**

Demuth, Michael (*with* van Casteren, Jan A. W.) Perturbations of generalized Schrödinger operators in stochastic spectral analysis. **93m:81028**

Dittrich, J. (*with* Exner, P.; Šeba, P.) Dirac Hamiltonian with Coulomb potential and spherically symmetric shell contact interaction. **93b:81056**

Exner, P. *see* **Dittrich, J.; et al., 93b:81056**

Fenstad, Jens Erik *see* **Albeverio, Sergio; et al., 93m:81025**

Freeman, D. Kent Generalization of the pseudopotential to an interaction with nonzero range. **93b:81057**

Grecchi, Vincenzo *see* **Bentosela, F., 93k:81046**

Hall, Richard L. Mixtures of potentials in quantum mechanics. **93a:81038**

Hislop, Peter D. (*with* Nakamura, Shu[1]) Stark Hamiltonian with unbounded random potentials. **93c:81041**

— *see also* **Combes, J.-M., 93c:81040** *and* **93k:81047**

Høegh-Krohn, Raphael *see* **Albeverio, Sergio; et al., 93m:81025**

Joye, Alain (*with* Pfister, Charles-Edouard) Superadiabatic evolution and adiabatic transition probability between two nondegenerate levels isolated in the spectrum. (English summary) **93m:81029**

Karwowski, Witold *see* **Albeverio, Sergio; et al., 93m:81025**

Lakaev, S. N. On an infinite number of three-particle bound states of a system of three quantum lattice particles. (Russian. English summary) **93d:81041**

Lindstrøm, Tom *see* **Albeverio, Sergio; et al., 93m:81025**

Malozëmov, L. A. The spectrum of a Schrödinger difference operator with a fractal potential. (Russian) **93d:81042**

Nakamura, Shu[1] *see* **Hislop, Peter D., 93c:81041**

Pfister, Charles-Edouard *see* **Joye, Alain, 93m:81029**

Popov, V. S. (*with* Sergeev, A. V.) Large orders of the $1/n$ expansion in quantum mechanics. (English summary) **93k:81048**

Šeba, P. *see* **Dittrich, J.; et al., 93b:81056**

Sergeev, A. V. *see* **Popov, V. S., 93k:81048**

Sorets, Eugene (*with* Spencer, Thomas Crawford) Positive Lyapunov exponents for Schrödinger operators with quasi-periodic potentials. **93b:81058**

Sorkin, R. D. *see* **Bourdeau, Michelle Hilda, 93c:81039**

Spencer, Thomas Crawford *see* **Sorets, Eugene, 93b:81058**

Tamura, Hideo Semi-classical limit of scattering length. **93m:81030**

Teta, A. *see* **Brasche, J. F., 93m:81027**

Vugal'ter, S. A. (*with* Zhislin, G. M.) Asymptotics of the discrete spectrum of Hamiltonians of many-particle quantum systems in a homogeneous magnetic field. (Russian) **93g:81020**

— (*with* Zhislin, G. M.) The discrete spectrum of given SO(2) symmetry of multiparticle systems in a potential and a homogeneous magnetic field. (Russian. English summary) **93c:81042**

Zhislin, G. M. *see* **Vugal'ter, S. A., 93c:81042** *and* **93g:81020**

Items with secondary classifications in 81Q10

Aimar, Marie-Thérèse (*with* Intissar, Abdelkader; Paoli, Jean-Martin) Densité des vecteurs propres généralisés d'une classe d'opérateurs non auto-adjoints à résolvante compacte. (English and French summaries) [Denseness of the generalized eigenvectors of a class of nonselfadjoint operators with compact resolvent] **93f:47023**

Antonyuk, A. Val. Log-concave smooth measures and some properties of corresponding Dirichlet operators. (Russian. Russian summary) **93h:58163**

Arai, Masaharu (*with* Yamada, Osanobu) A remark on essential spectrum of magnetic Schrödinger operators with exploding potentials. **93f:35160**

Ban, Masashi Relative number state representation and phase operator for physical systems. **93e:81062**

Behncke, Horst Absolute continuity of Hamiltonians with von Neumann-Wigner potentials. **93c:34160**

Béllissard, Jean (*with* Bovier, Anton; Ghez, Jean-Michel) Gap labelling theorems for one-dimensional discrete Schrödinger operators. **93f:47090**

Bovier, Anton *see* **Béllissard, Jean; et al., 93f:47090**

Bub, Jeffrey Quantum mechanics without the projection postulate. **93d:81012**

Buslaev, V. S. Spectral properties of the operators $H\psi = -\psi_{xx} + p(x)\psi + v(\varepsilon x)\psi$, p is periodic. **93a:34096**

van Casteren, Jan A. W. (*with* Demuth, Michael) On differences of heat semigroups. **93f:47045**

Chuburin, Yu. P. A Schrödinger operator with small potential in a case of a crystal film. (Russian. Russian summary) **93i:35039**

Colegrave, R. K. (*with* Croxson, P.) Constants of the motion and diagonalization of the Hamiltonian for some scattering processes. **93b:81317**

Coutinho, F. A. B. (*with* Nogami, Yukihisa; Perez, J. Fernando) Selfadjoint extensions of the Hamiltonian for a charged particle in the presence of a thread of magnetic flux. (English summary) **93i:81025**

Croxson, P. *see* **Colegrave, R. K., 93b:81317**

Cycon, Hans L. (*with* Froese, Richard; Kirsch, Werner; Simon, Barry) ★ Операторы Шрёдингера с приложениями к квантовой механике и глобальной геометрии. (Russian. Russian summary) [Schrödinger operators with applications to quantum mechanics and global geometry] **93k:35002**

Davies, E. Brian (*with* Gross, Leonard; Simon, Barry) Hypercontractivity: a bibliographic review. **93g:47052**

Demuth, Michael Spectral properties of Schrödinger operators for large coupling and semi-classical asymptotics. **93a:47053**

— (*with* Jeske, F.; Kirsch, Werner) Quantitative estimates for Schrödinger and Dirichlet semigroups. (English summary) (*see* **93e:35005**)

— *see also* **van Casteren, Jan A. W., 93f:47045**

Durdević, Mićo A C^*-algebraic formulation of local contextual hidden variables. (English summary) **93i:81011**

Epifanio, G. (*with* Todorov, Todor S.; Trapani, Camillo) Complete sets of compatible nonselfadjoint observables. **93d:47087**

Exner, P. Spectral properties of bent quantum wires. (English summary) (*see* **93e:81007**)

Fefferman, Charles (*with* Ivrii, V. Ya.; Seco, Luis A.; Sigal, I. M.) The energy asymptotics of large Coulomb systems. **93h:81150**

Forrester, P. J. Some statistical properties of the eigenvalues of complex random matrices. (English summary) **93h:82030**

Froese, Richard *see* **Cycon, Hans L.; et al., 93k:35002**

Frolov, S. V. A spectral identity for a multidimensional Schrödinger equation with periodic potential. (Russian. English and Russian summaries) **93j:35060**

Galunov, G. V. (*with* Oleĭnik, V. L.) Analysis of the dispersion equation for a negative Dirac "comb". (Russian. Russian summary) **93i:34153**

— (*with* Oleĭnik, V. L.; Pavlov, B. S.) Estimations for negative spectral bands of three-dimensional periodical Schrödinger operator. (English summary) **93k:35194**

Gérard, C. (*with* Martinez, André; Sjöstrand, Johannes) A mathematical approach to the effective Hamiltonian in perturbed periodic problems. **93a:47079**

— Sharp propagation estimates for N-particle systems. **93j:35061**

Gesztesy, F. (*with* Graf, Gian Michele; Simon, Barry) The ground state energy of Schrödinger operators. (English summary) **93j:47070**

— (*with* Simon, Barry) A short proof of Zheludev's theorem. **93c:34162**

Ghez, Jean-Michel *see* **Béllissard, Jean; et al., 93f:47090**

Gordon, A. Ya. (*with* Molchanov, S. A.; Tsagani, B.) Spectral theory of one-dimensional Schrödinger operators with strongly fluctuating potentials. (Russian) **93a:34097**

Grabowski, Marian On the phase operator. (English summary) **93g:81012**

Graf, Gian Michele *see* **Gesztesy, F.; et al., 93j:47070**

Grigis, Alain (*with* Mohamed, Abdérémane) Finitude des lacunes dans le spectre de l'opérateur de Schrödinger et de celui de Dirac avec des potentiels électrique et magnétique périodiques. (English and French summaries) [Finiteness of gaps in the spectrum of the Schrödinger operator and the Dirac operator with periodic magnetic and electrical potential] **93i:35095**

Gross, Leonard *see* **Davies, E. Brian; et al., 93g:47052**

Guibourg, Denis Inégalités maximales pour l'opérateur de Schrödinger. (English and French summaries) [Maximal inequalities for Schrödinger operators] **93k:35053**

Hachem, G. Spectral theory for Dirac operators with a Stark potential. **93g:47062**

Hempel, Rainer Eigenvalues in gaps and decoupling by Neumann boundary conditions. (English summary) **93i:47071**

Hinton, Don B. (*with* Klaus, Martin; Shaw, J. K.) Embedded half-bound states for potentials of Wigner-von Neumann type. **93b:34110**

Ichinose, Takashi (*with* Tsuchida, Tetsuo) On Kato's inequality for the Weyl quantized relativistic Hamiltonian. (English summary) **93k:81040**

Iftimie, Viorel Opérateurs de Schrödinger du type à N corps dispersifs. [Dispersive N-body Schrödinger operators] **93c:47055**

Ikeda, Nobuyuki (*with* Matsumoto, Hiroyuki[2]) Short time asymptotics for the traces of heat kernels of Schrödinger operators with magnetic fields. (French summary) **93h:58154**

Intissar, Abdelkader *see* **Aimar, Marie-Thérèse; et al., 93f:47023**

Ivrii, V. Ya. *see* **Fefferman, Charles; et al., 93h:81150**

Janke, Wolfhard (*with* Sauer, T.) Properties of higher-order Trotter formulas. **93b:81135**

Jeske, F. *see* **Demuth, Michael; et al., (93e:35005)**

Kakazu, Kiyotaka (*with* Kudaka, Shoju; Pascazio, Saverio) Extension of the Wigner-Araki-Yanase theorem in Ozawa's formulation. (English summary) **93k:81024**

Karol', A. I. Complex powers of the Schrödinger operator with degenerate homogeneous potential. (Russian) **93j:47071**

Kirsch, Werner Point interactions as solvable models. **93i:81003**

— *see also* **Cycon, Hans L.; et al., 93k:35002** *and* **Demuth, Michael; et al., (93e:35005)**

Kiselev, A. A. (*with* Pavlov, B. S.; Penkina, N. N.; Suturin, M. G.) A technique of the theory of extensions using interaction symmetry. (Russian. English and Russian summaries) **93m:47078**

Klaus, Martin *see* **Hinton, Don B.; et al., 93b:34110**

Korotyaev, E. L. Some properties of the quasimomentum of the one-dimensional Hill operator. (Russian) **93c:34163**

Kotani, Shinichi Random Schrödinger operators. **93d:82048**

Kudaka, Shoju *see* **Kakazu, Kiyotaka; et al., 93k:81024**

Lang, Reinhard ★ Spectral theory of random Schrödinger operators. **93d:47144**

Last, Y. On the measure of gaps and spectra for discrete 1D Schrödinger operators. (English summary) **93i:47035**

Malozëmov, L. A. On the spectrum of the random Schrödinger difference operator. (Russian) **93b:47067**

Martinez, André Eigenvalues and resonances of polyatomic molecules in the Born-Oppenheimer approximation. (English summary) (*see* **93d:81006**)

— *see also* **Gérard, C.; et al., 93a:47079**

März, Christoph Spectral asymptotics for Hill's equation near the potential maximum.

93i:34154

Matsumoto, Hiroyuki[2] On the integrated density of states for the Schrödinger operators with certain random electromagnetic potentials. **93m:35051**

— *see also* **Ikeda, Nobuyuki, 93h:58154**

Minami, Nariyuki Random Schrödinger operators with a constant electric field. (French summary) **93d:34142**

Mogil'ner, A. I. Hamiltonians in solid-state physics as multiparticle discrete Schrödinger operators: problems and results. **93d:82022**

Mohamed, Abdérémane (*with* Parisse, B.) Approximation des valeurs propres de certaines perturbations singulières et application à l'opérateur de Dirac. (English summary) [Approximation of the eigenvalues of certain singular perturbations and applications to the Dirac operator] **93c:35118**

— *see also* **Grigis, Alain, 93i:35095**

Molchanov, S. A. *see* **Gordon, A. Ya.; et al., 93a:34097**

Motovilov, A. K. The removal of an energy dependence from the interaction in two-body systems. **93c:47088**

Naboko, S. N. (*with* Yakovlev, S. I.) The point spectrum of a discrete Schrödinger operator. (Russian) **93g:39004**

Nagao, Taro (*with* Wadati, Miki) An integration method on generalized circular ensembles. (English summary) **93h:82032**

Nenciu, Gheorghe Asymptotic invariant subspaces, adiabatic theorems and block diagonalisation. (English summary) **93j:47018**

Nogami, Yukihisa *see* **Coutinho, F. A. B.; et al., 93i:81025**

Oleinik, I. M. On the essential selfadjointness of the Schrödinger operator on a spherically symmetric manifold. (Russian) **93e:58189**

Oleĭnik, V. L. *see* **Galunov, G. V., 93i:34153** *and* **93k:35194**

Pankratov, M. A. Evolution of the complex spectrum of a periodic operator. (Russian) **93c:34164**

Paoli, Jean-Martin *see* **Aimar, Marie-Thérèse; et al., 93f:47023**

Parisse, B. *see* **Mohamed, Abdérémane, 93c:35118**

Pascazio, Saverio *see* **Kakazu, Kiyotaka; et al., 93k:81024**

Pavlov, B. S. *see* **Galunov, G. V.; et al., 93k:35194** *and* **Kiselev, A. A.; et al., 93m:47078**

Penkina, N. N. *see* **Kiselev, A. A.; et al., 93m:47078**

Perez, J. Fernando *see* **Coutinho, F. A. B.; et al., 93i:81025**

Raikov, George D. Border-line eigenvalue asymptotics for the Schrödinger operator with electromagnetic potential. **93a:35116**

— Eigenvalue asymptotics for the Schrödinger operator with perturbed periodic potential. (English summary) **93k:35200**

Sauer, T. *see* **Janke, Wolfhard, 93b:81135**

Schmincke, U.-W. Proofs of Povzner-Wienholtz type theorems on selfadjointness of Schrödinger operators by means of positive eigensolutions. **93b:47100**

Seco, Luis A. *see* **Fefferman, Charles; et al., 93h:81150**

Semenoff, Gordon W. *see* **Szabo, Richard J., 93h:58147**

Shaw, J. K. *see* **Hinton, Don B.; et al., 93b:34110**

Shigekawa, Ichiro Spectral properties of Schrödinger operators with magnetic fields for a spin $\frac{1}{2}$ particle. **93g:35101**

Shimada, Shin-ichi The approximation of the Schrödinger operators with penetrable wall potentials in terms of short range Hamiltonians. **93g:35031**

Sigal, I. M. *see* **Fefferman, Charles; et al., 93h:81150**

Simon, Barry *see* **Gesztesy, F., 93c:34162; Davies, E. Brian; et al., 93g:47052; Gesztesy, F.; et al., 93j:47070** *and* **Cycon, Hans L.; et al., 93k:35002**

Sinha, Kalyan B. Quantum mechanics and spectral theory. **93d:81001**

Sjöstrand, Johannes Density of states oscillations for magnetic Schrödinger operators. **93g:35011**

— *see also* **Gérard, C.; et al., 93a:47079**

(Sobolev, Aleksandr Vladimirovich) *see* **Cycon, Hans L.; et al., 93k:35002**

Solnyshkin, S. N. On the discrete spectrum of a quantum particle in an electrical and a homogeneous magnetic field. (Russian) **93c:81272**

Suturin, M. G. *see* **Kiselev, A. A.; et al., 93m:47078**

Szabo, Richard J. (*with* Semenoff, Gordon W.) Eta-invariants and fermion number in finite volume. **93h:58147**

Takeda, Masayoshi The maximum Markovian selfadjoint extensions of generalized Schrödinger operators. **93c:47058**

Tamura, Hideo Spectral and scattering theory for 3-particle Hamiltonian with Stark effect: asymptotic completeness. **93d:35133**

Todorov, Todor S. *see* **Epifanio, G.; et al., 93d:47087**

Trapani, Camillo *see* **Epifanio, G.; et al., 93d:47087**

Tsagani, B. *see* **Gordon, A. Ya.; et al., 93a:34097**

Tsuchida, Tetsuo *see* **Ichinose, Takashi, 93k:81040**

Vugal'ter, S. A. (*with* Zhislin, G. M.) Asymptotics of the discrete spectrum of Hamiltonians of quantum systems with a homogeneous magnetic field. **93a:47081**

— (*with* Zhislin, G. M.) On the spectrum of the Schrödinger operator of a system of three pairwise nonbonding particles in a homogeneous magnetic field. (Russian) **93d:81187**

Wadati, Miki *see* **Nagao, Taro, 93h:82032**

Wang, Xue Ping[1] Barrier resonances in strong magnetic fields. (English summary) **93j:81016**

(Yafaev, D. R.) *see* **Cycon, Hans L.; et al., 93k:35002**

Yajima, Kenji Existence, uniqueness and some properties of Schrödinger propagators. (*see* **93e:81007**)

Yakovlev, S. I. *see* **Naboko, S. N., 93g:39004**

Yamada, Osanobu *see* **Arai, Masaharu, 93f:35160**

Yamazaki, Susumu On specification of a class of infinite Jacobi matrices. **93g:15016**

Zhislin, G. M. *see* **Vugal'ter, S. A., 93a:47081** *and* **93d:81187**

81Q15 Perturbation theories for operators and differential equations

Aguilera-Navarro, V. C. (*with* Fernández, Francisco M.; Guardiola, R.; Ros, J.) Large-order perturbation expansions for the charged harmonic oscillator. (English summary) **93k:81049**

Baez, John C. (*with* Zhou, Zheng-Fang) Renormalized oscillator Hamiltonians. **93e:81020**

Bender, Carl M. (*with* Turbiner, A. V.) Analytic continuation of eigenvalue problems. (English summary) **93m:81031**

Benet, L. *see* **Moshinsky, M.; et al.**

Bessis, G. *see* **Bessis, N., 93i:81031**

Bessis, N. (*with* Bessis, G.) Perturbed factorization of the symmetric-anharmonic-oscillator eigenequation. (English summary) **93i:81031**

Bhattacharjee, A. *see* **Gjaja, Ivan M., 93d:81043**

Čížek, Jiří Karel *see* **Weniger, Ernst Joachim; et al., 93j:81018**

Fernández, Francisco M. *see* **Aguilera-Navarro, V. C.; et al., 93k:81049**

Giachetti, Riccardo Algebraic study of the dynamics of a quantum oscillator with reaction. (Italian. English summary) **93a:81039**

Gjaja, Ivan M. (*with* Bhattacharjee, A.) Asymptotics of reflectionless potentials. **93d:81043**

Graffi, Sandro Classical perturbation theory in quantum mechanics. (Italian) **93c:81043**

— Exact quantization of the canonical perturbation theory. (English summary) **93g:81021**

Grecchi, Vincenzo (*with* Maioli, Marco; Sacchetti, Andrea) Horn of singularities for the Stark-Wannier ladders. **93f:81032**

— (*with* Maioli, Marco; Sacchetti, Andrea) Stark resonances in disordered systems. **93g:81022**

Guardiola, R. (*with* Ros, J.) The anharmonic oscillator $-d^2/dx^2 + x^2 + b/x^4 + c/x^6$ for extreme values of the anharmonicity constants. **93b:81059**

— (*with* Solís, M. A.; Ros, J.) Strong-coupling expansion for the anharmonic oscillators $-d^2/dx^2 + x^2 + \lambda x^{2N}$. **93f:81033**

— *see also* **Aguilera-Navarro, V. C.; et al., 93k:81049**

Heiss, W. D. (*with* Steeb, Willi-Hans) Avoided level crossings and Riemann sheet structure. **93b:81060**

Kaganovich, A. S. *see* **Lebedev, N. I.; et al.**

Karpeshina, Yu. E. Geometrical background for the perturbation theory of the polyharmonic operator with periodic potentials. **93c:81044**

Kim, Il-Woo (*with* Sukhatme, Uday P.) Alternative approach to nonrelativistic perturbation theory. **93b:81061**

Kim, Jae Kwan *see* **Kwon, Ohjong; et al., 93i:81032**

Korsun, L. D. (*with* Sisakyan, A. N.; Solovtsov, I. L.) Variational perturbation theory. The φ^{2k}-oscillator. (Russian. English summary) **93a:81040**

Kwon, Ohjong (*with* Kim, Jae Kwan; Lee, Chahn) Berry phase memorizes the motion of a boundary. **93i:81032**

Last, Y. (*with* Wilkinson, Michael) A sum rule for the dispersion relations of the rational Harper equation. (English summary) **93j:81017**

Lebedev, N. I. (*with* Sokolov, D. D.; Kaganovich, A. S.) Diffusion of a quantum particle in time-dependent random potential. (English summary)

Lee, Chahn *see* **Kwon, Ohjong; et al., 93i:81032**

Loyola, G. *see* **Moshinsky, M.; et al.**

Maioli, Marco (*with* Sacchetti, Andrea) Strong asymptotic expansion for the exponential anharmonic oscillator. (English summary) **93e:81021**

— *see also* **Grecchi, Vincenzo; et al., 93f:81032** *and* **93g:81022**

Martin, Philippe André[1] (*with* Nenciu, Gheorghe) Perturbation theory for time dependent Hamiltonians: rigorous reduction theory. (English summary) **93k:81050**

Moshinsky, M. (*with* Benet, L.; Loyola, G.; Salinas, A.) Comparison of perturbative and variational procedures in a relativistic problem. (English and Spanish summaries)

Mur, V. D. (*with* Popov, V. S.; Sergeev, A. V.) The $(1/n)$-expansion in quantum mechanics and quasi-stationary states. (English summary)

Nenciu, Gheorghe (*with* Rasche, G.) On the adiabatic theorem for nonselfadjoint Hamiltonians. (English summary) **93k:81051**

— *see also* **Martin, Philippe André**[1], **93k:81050**

Popov, V. S. *see* **Mur, V. D.; et al.**

Rasche, G. *see* **Nenciu, Gheorghe, 93k:81051**

Ros, J. *see* **Guardiola, R., 93b:81059; 93f:81033** *and* **Aguilera-Navarro, V. C.; et al., 93k:81049**

Sacchetti, Andrea *see* **Maioli, Marco, 93e:81021; Grecchi, Vincenzo; et al., 93f:81032** *and* **93g:81022**

Salinas, A. *see* **Moshinsky, M.; et al.**

Sergeev, A. V. *see* **Mur, V. D.; et al.**

Sisakyan, A. N. *see* **Korsun, L. D.; et al., 93a:81040**

Sokolov, D. D. *see* **Lebedev, N. I.; et al.**

Solís, M. A. *see* **Guardiola, R.; et al., 93f:81033**

Solovtsov, I. L. *see* **Korsun, L. D.; et al., 93a:81040**

Steeb, Willi-Hans *see* **Heiss, W. D., 93b:81060**

Sukhatme, Uday P. *see* **Kim, Il-Woo, 93b:81061**

Turbiner, A. V. *see* **Bender, Carl M., 93m:81031**

Vinette, Francine *see* **Weniger, Ernst Joachim; et al., 93j:81018**

Wen, Gen Wang The steepest descent perturbation theory for the excited state of a quantum system. (Chinese. English summary) **93m:81032**

Weniger, Ernst Joachim (*with* Čížek, Jiří Karel; Vinette, Francine) The summation of the ordinary and renormalized perturbation series for the ground state energy of the quartic, sextic, and octic anharmonic oscillators using nonlinear sequence transformations. (English summary) **93j:81018**

Wilkinson, Michael *see* **Last, Y., 93j:81017**

Witwit, M. R. M. Energy levels of a three-dimensional anharmonic oscillator with sextic perturbation. **93e:81022**

Wudka, J. Adiabatic phases and group theory. **93b:81062**

Zhao, Zhong Xin Subcriticality and gaugeability of the Schrödinger operator. **93a:81041**

Zhou, Zheng-Fang *see* **Baez, John C., 93e:81020**

Znojil, Miloslav Pairs of anharmonicities and the double delta expansions. **93b:81063**

Items with secondary classifications in 81Q15

Adams, Barry G. Unified treatment of high-order perturbation theory for the Stark effect in a two- and three-dimensional hydrogen atom. (English summary) **93i:81301**

Albeverio, Sergio (*with* Fenstad, Jens Erik; Høegh-Krohn, Raphael; Karwowski, Witold; Lindstrøm, Tom) Schrödinger operators with potentials supported by null sets. (English summary) **93m:81025**

Arteca, G. A. (*with* Fernández, Francisco M.; Castro, E. A.) ★ Large order perturbation theory and summation methods in quantum mechanics. **93b:81003**
Baumgartner, B. Perturbations of supersymmetric systems in quantum mechanics. (English summary) **93i:81042**
Castro, E. A. *see* **Arteca, G. A.; et al., 93b:81003**
Chandler, Colston (*with* Gibson, A. G.) Erratum: "N-body quantum scattering theory in two Hilbert spaces. V. Computation strategy" [J. Math. Phys. **30** (1989), no. 7, 1533–1544; MR 90h:81198]. **93k:81249**
Daskaloyannis, C. Generalized deformed oscillator corresponding to the modified Pöschl-Teller energy spectrum. **93d:81086**
Demuth, Michael On large coupling operator norm convergences of resolvent differences. **93a:47052**
Estévez-Bretón, Erika Sabrina (*with* Estévez-Bretón, Gentil A.) The nonsingular spiked harmonic oscillator. (English summary) **93j:33002**
Estévez-Bretón, Gentil A. *see* **Estévez-Bretón, Erika Sabrina, 93j:33002**
Fan, Qi Hong On width of resonance for one-dimensional differential operators. **93g:47058**
Fenstad, Jens Erik *see* **Albeverio, Sergio; et al., 93m:81025**
Fernández, Francisco M. *see* **Arteca, G. A.; et al., 93b:81003**
Geiler, V. A. The two-dimensional Schrödinger operator with a homogeneous magnetic field and its perturbations by periodic zero-range potentials. (Russian) **93b:35121**
Gibson, A. G. *see* **Chandler, Colston, 93k:81249**
Høegh-Krohn, Raphael *see* **Albeverio, Sergio; et al., 93m:81025**
Karwowski, Witold *see* **Albeverio, Sergio; et al., 93m:81025**
Kirsch, Werner Point interactions as solvable models. **93i:81003**
Lindstrøm, Tom *see* **Albeverio, Sergio; et al., 93m:81025**
Molzahn, F. H. Exponential cluster solutions to quantum transport equations. (English summary) **93i:82069**
Neidhardt, Hagen (*with* Zagrebnov, V. A.) Regularization and convergence for singular perturbations. (English summary) **93m:47012**
Wang, Xue Ping[1] Weak coupling asymptotics of Schrödinger operators with Stark effect. **93k:81248**
Witwit, M. R. M. Energy levels of two-dimensional anharmonic oscillators with sextic and octic perturbations. (English summary) **93i:81028**
Zagrebnov, V. A. *see* **Neidhardt, Hagen, 93m:47012**
Zel'nikov, A. I. Nonlocal heat kernel with separated points. **93b:81192**
Zhao, Zhong Xin A probabilistic principle and generalized Schrödinger perturbation. **93f:60116**

81Q20 Semiclassical techniques including WKB and Maslov methods

Amaha, Abraham F matrix connecting points on opposite sides of a parabolic potential well. (English summary) **93m:81033**
Arsen'ev, A. A. An initial-boundary value problem for the quantum Liouville equation. (Russian. Russian summary) **93j:81019**
Bagrov, V. G. (*with* Belov, V. V.; Rogova, A. M.) Quasiclassically concentrated states in quantum mechanics. (Russian. English summary) **93b:81064**
Balandin, M. P. (*with* Zastavenko, L. G.) ★ On two-dimensional quasiclassics. **93b:81065**
Balian, Roger Wave problems in terms of complex classical paths. (English summary) **93h:81027**
Barelli, Armelle *see* **Bellissard, Jean, 93a:81042**
Bartalini, G. *see* **Moretti, P., 93i:81035**
Bellissard, Jean (*with* Barelli, Armelle) Dynamical localization—mathematical framework. **93a:81042**
Belov, V. V. *see* **Bagrov, V. G.; et al., 93b:81064**
Bochkarev, A. I. Trace identities and analytical evaluation of the functional determinants. (English summary) **93k:81052**
Bonatsos, Dennis (*with* Daskaloyannis, C.; Kokkotas, K.) WKB equivalent potentials for q-deformed harmonic and anharmonic oscillators. (English summary) **93f:81034**
Boyanovsky, Daniel (*with* Willey, R.; Holman, R.) Quantum mechanical metastability: when and why? **93b:81066**
Breuer, H. P. (*with* Holthaus, M.) A semiclassical theory of quasienergies and Floquet wave functions. **93f:81035**
Cândido Ribeiro, M. A. *see* **Galetti, D., 93b:81068**
Creagh, Stephen C. (*with* Littlejohn, Robert G.) Semiclassical trace formulae for systems with nonabelian symmetry. **93b:81067**
Daskaloyannis, C. *see* **Bonatsos, Dennis; et al., 93f:81034**
De Bièvre, Stephan (*with* Houard, Jean-Claude; Irac-Astaud, Michèle) Wave packets localized on closed classical trajectories. (English summary) (*see* **93i:00013**)
Delos, J. B. *see* **Mao, J.-M.; et al., 93g:81023**
Flynn, William G. *see* **Littlejohn, Robert G., 93a:81043** *and* **93a:81044**
Frisk, Hans (*with* Guhr, Thomas) Spin-orbit coupling in semiclassical approximation. (English summary)
Fröman, Nanny (*with* Fröman, Per Olof) Phase-integral approximation of arbitrary order generated from an unspecified base function. (English summary) **93h:81028**
Fröman, Per Olof *see* **Fröman, Nanny, 93h:81028**
Fulling, Stephen A. *see* **Molzahn, F. H.; et al., 93j:81020**
Fusco Girard, M. On the semiclassical propagator for the anharmonic oscillator. (English summary) **93f:81036**
Galetti, D. (*with* Cândido Ribeiro, M. A.) A semiclassical description of nonlocal effects on barrier transmission. **93b:81068**
Guhr, Thomas *see* **Frisk, Hans**
Harayama, Takahisa (*with* Shudo, Akira) Zeta function derived from the boundary element method. **93i:81033**
Holman, R. *see* **Boyanovsky, Daniel; et al., 93b:81066**
Holthaus, M. *see* **Breuer, H. P., 93f:81035**
Houard, Jean-Claude *see* **De Bièvre, Stephan; et al., (93i:00013)**
Irac-Astaud, Michèle *see* **De Bièvre, Stephan; et al., (93i:00013)**
Kar, Sayan An instanton approach to quantum tunnelling for a particle on a rotating circle. (English summary) **93e:81023**
Kay, Kenneth G. Hamiltonian formulation of quantum mechanics with semiclassical implications. II. Variational treatment. (English summary) **93f:81037**
Klein, Markus (*with* Martinez, André; Seiler, Ruedi; Wang, Xue Ping[1]) On the Born-Oppenheimer expansion for polyatomic molecules. **93b:81069**
Kokkotas, K. *see* **Bonatsos, Dennis; et al., 93f:81034**
Liang, Jiu Qing (*with* Müller-Kirsten, H. J. W.) Time-dependent gauge transformations and Berry's phase. (English summary) **93i:81034**
Littlejohn, Robert G. (*with* Flynn, William G.) Phase integral theory, coupled wave equations, and mode conversion. **93a:81043**
— (*with* Flynn, William G.) Semiclassical theory of spin-orbit coupling. **93a:81044**
— *see also* **Creagh, Stephen C., 93b:81067**
Magierski, W. *see* **Radosz, A., 93a:81045**
Mao, J.-M. (*with* Shaw, J.; Delos, J. B.) Closed orbits and semiclassical wavefunctions in two-dimensional Hamiltonian systems. **93g:81023**
Martinez, André *see* **Klein, Markus; et al., 93b:81069**
Mohamed, Abdérémane Estimations semi-classiques pour l'opérateur de Schrödinger à potentiel de type coulombien et avec champ magnétique. (English summary) [Semiclassical estimates for the Schrödinger operator with Coulomb potential and magnetic field] **93f:81038**
Molzahn, F. H. (*with* Osborn, T. A.; Fulling, Stephen A.) Multi-scale semiclassical approximations for Schrödinger propagators on manifolds. **93j:81020**
Moretti, P. (*with* Bartalini, G.) On the semi-classical expression of the quantum-mechanical propagator. **93i:81035**
Müller-Kirsten, H. J. W. *see* **Liang, Jiu Qing, 93i:81034**
Osborn, T. A. *see* **Molzahn, F. H.; et al., 93j:81020**
Radosz, A. (*with* Magierski, W.) Real trajectories in complex-time method and barrier penetrationlike phenomena. **93a:81045**
Rogova, A. M. *see* **Bagrov, V. G.; et al., 93b:81064**
Seiler, Ruedi *see* **Klein, Markus; et al., 93b:81069**
Shaw, J. *see* **Mao, J.-M.; et al., 93g:81023**
Shudo, Akira Length spectrum and semiclassical density of states for an almost-integrable billiard system. (English summary) **93d:81044**
— *see also* **Harayama, Takahisa, 93i:81033**
Sjöstrand, Johannes Magnetic Schrödinger operators and effective Hamiltonians. (*see* **93e:81007**)
Stepanov, S. S. (*with* Tutik, R. S.) $\hbar$-expansion for bound states of the Schrödinger equation. (Russian. English and Russian summaries) **93i:81036**
Strunz, W. T. Semiclassical path representation of the Green function in one-dimensional multiple-well potentials. **93k:81053**
Takami, Toshiya Semiclassical interpretation of avoided crossings for classically nonintegrable systems. **93b:81070**
Thomas, Lawrence E. (*with* Wassell, Stephen R.) Semiclassical approximation for Schrödinger operators at high energy. (English summary) **93i:81037**
Tutik, R. S. *see* **Stepanov, S. S., 93i:81036**
Varshni, Y. P. Relative convergences of the WKB and SWKB approximations. (English summary) **93i:81038**
Wang, Xue Ping[1] Semiclassical resolvent estimates for N-body Schrödinger operators. **93b:81071**
— *see also* **Klein, Markus; et al., 93b:81069**
Wassell, Stephen R. *see* **Thomas, Lawrence E., 93i:81037**
Willey, R. *see* **Boyanovsky, Daniel; et al., 93b:81066**
Yajima, Kenji Gevrey frequency set and semi-classical behaviour of wave packets. **93m:81034**
Yugai, K. N. Quantum problems that are nonlinear in the classical limit. (Russian. Russian summary) **93k:81054**
Zastavenko, L. G. *see* **Balandin, M. P., 93b:81065**

Items with secondary classifications in 81Q20

de Aguiar, M. A. M. One-dimensional action billiards and eigenvalues of truncated Hamiltonians. **93b:81038**
Alber, Mark S. Complex geometric asymptotics, geometric phases and nonlinear integrable problems. **93m:58085**
Aliaga, J. (*with* Crespo, G.; Proto, A. N.) Information-theoretic and Wigner-function approaches to the nonclassical state dynamics for the variable-frequency harmonic oscillator. (English summary)
Anderson, J. T. Erratum: "Semiclassical chaos in quartic anharmonic oscillators" [Phys. Rev. A (3) **45** (1992), no. 8, 5373–5377; MR 92m:81052]. **93k:81055**
Aquilanti, Vincenzo (*with* Cavalli, Simonetta; Sevryuk, M. B.) Asymptotic (short-wave) equivalence of one-dimensional Schrödinger equations by formal canonical transformations and its generalizations. **93d:34139**
Barbulyak, V. S. (*with* Kondrat'ev, Yu. G.) A quasiclassical limit for the Schrödinger operator, and phase transitions in quantum statistical physics. (Russian) **93g:82009**
Basile, A. G. (*with* Gray, Christopher George) A relaxation algorithm for classical paths as a function of end points: application to the semiclassical propagator for far-from-caustic and near-caustic conditions. **93c:65030**
Bogomol'nyi, E. B. Semiclassical quantization of multidimensional systems. **93k:81057**
Bohigas, Oriol (*with* Tomsovic, Steven; Ullmo, D.) Manifestations of classical phase space structures in quantum mechanics. (English summary) **93k:81058**
Brummelhuis, Raymond Exponential decay in the semiclassical limit for eigenfunctions of Schrödinger operators with magnetic fields and potentials which degenerate at infinity. **93b:35103**
Buslaev, V. S. On spectral properties of adiabatically perturbed Schroedinger operators with periodic potentials. **93g:35103**
Caurier, E. (*with* Drożdż, S.; Okołowicz, J.; Płoszajczak, M.) Geometrical quantization in dynamical variational approach. **93a:81089**
Cavalli, Simonetta *see* **Aquilanti, Vincenzo; et al., 93d:34139**
Chantelau, Klaus On the Born-Oppenheimer approximation for excited states of polyatomic Schrödinger operators. (English summary) **93f:35044**
Charbonnel, A.-M. Comportement semi-classique des systèmes ergodiques. (English summary) [Semiclassical behavior of ergodic systems] **93e:58187**

Cohen, Leon Multipart wave functions. **93m:81086**
Combes, J.-M. (*with* Hislop, Peter D.) Stark ladder resonances for small electric fields. **93c:81040**
Crespo, G. *see* **Aliaga, J.; et al.**
Delabaere, Éric Spectre de l'opérateur de Schrödinger stationnaire unidimensionnel à potentiel polynôme trigonométrique. (English summary) [Spectrum of the one-dimensional stationary Schrödinger operator for a trigonometric polynomial potential] **93d:34140**
Dereziński, Jan N-body observables in the Calkin algebra. **93i:81284**
Dobrokhotov, S. Yu. (*with* Kolokol'tsov, V. N.; Maslov, V. P.) Splitting of the low energy levels of the Schrödinger equation, and the asymptotic behavior of the fundamental solution of the equation $hu_t = \frac{1}{2}h^2\Delta u - V(x)u$. (Russian. English summary) **93d:35030**
Drożdż, S. *see* **Caurier, E.; et al., 93a:81089**
Édel'shtein, S. L. Operator analogues of WKB-type estimates, and the solvability of boundary value problems. (Russian) **93f:34093**
Fefferman, Charles (*with* Seco, Luis A.) Eigenvalues and eigenfunctions of ordinary differential operators. **93j:34121**
Fucito, F. (*with* Gamba, Andrea; Martellini, Maurizio; Ragnisco, Orlando) Nonlinear WKB analysis of the string equation. (English summary) **93m:58049**
Gallawa, R. L. *see* **Goyal, I. C.; et al., 93m:65113**
Gal'tsov, D. V. (*with* Matyukhin, A. A.) Matrix WKB method for black hole normal modes and quasibound states. (English summary) **93i:83032**
Gamba, Andrea *see* **Fucito, F.; et al., 93m:58049**
Gérard, C. (*with* Knauf, Andreas) Collisions for the quantum Coulomb Hamiltonian. **93f:81155**
— (*with* Sigal, I. M.) Space-time picture of semiclassical resonances. **93b:35105**
Ghatak, A. K. *see* **Goyal, I. C.; et al., 93m:65113**
Gingold, Harry (*with* Hu, Ji Shan) Transcendentally small reflection of waves for problems with/without turning points near infinity: a new uniform approach. **93a:34069**
Goyal, I. C. (*with* Gallawa, R. L.; Ghatak, A. K.) Accuracy of eigenvalues: a comparison of two methods. (English summary) **93m:65113**
Graham, Robert *see* **Györgyi, Géza; et al., 93h:81030**
Gray, Christopher George *see* **Basile, A. G., 93c:65030**
Grigis, Alain Analyse semi-classique de l'opérateur de Schrödinger sur la sphère. [Semiclassical analysis of a Schrödinger operator on the sphere] **93g:35030**
Gurarie, David The inverse spectral problem. **93j:58137**
Györgyi, Géza (*with* Graham, Robert; Prange, R. E.) Renormalization group study of quantum fluctuations near classical critical points of Hamiltonian systems. **93h:81030**
Hislop, Peter D. *see* **Combes, J.-M., 93c:81040**
Hu, Ji Shan (*with* Kruskal, Martin D.) Reflection coefficient problems for weakly nonlinear wave equations. (English summary) **93i:34099**
— *see also* **Gingold, Harry, 93a:34069**
Ikeda, Kensuke Stationary dissipation due to quantum chaos: simulated light absorption with quantum maps. (English summary)
Junker, Georg (*with* Leschke, Hajo) Remarks on the quasi-classical propagator of area-preserving maps. **93h:81031**
Karasëv, M. V. Simple quantization formula. **93b:58060**
Keating, Jonathan Peter The semiclassical functional equation. **93h:81032**
— Periodic orbit resummation and the quantization of chaos. (English summary) **93m:81036**
Klopp, Frédéric Étude semi-classique d'une perturbation d'un opérateur de Schrödinger périodique. (English summary) [Semiclassical study of a perturbation of a periodic Schrödinger operator] **93c:35027**
Knauf, Andreas *see* **Gérard, C., 93f:81155**
Kolokol'tsov, V. N. *see* **Dobrokhotov, S. Yu.; et al., 93d:35030**
Kondrat'ev, Yu. G. *see* **Barbulyak, V. S., 93g:82009**
Kostrykin, V. V. *see* **Kvitsinskiĭ, A. A., 93b:81301**
Kruskal, Martin D. *see* **Hu, Ji Shan, 93i:34099**
Kvitsinskiĭ, A. A. (*with* Kostrykin, V. V.) Semiclassical quantization for Coulomb systems on a hypersphere. **93b:81301**
Leschke, Hajo *see* **Junker, Georg, 93h:81031**
Lewenkopf, C. H. (*with* Weidenmüller, H. A.) Stochastic versus semiclassical approach to quantum chaotic scattering. **93a:81206**
Littlejohn, Robert G. The Van Vleck formula, Maslov theory, and phase space geometry. **93h:81024**
Martellini, Maurizio *see* **Fucito, F.; et al., 93m:58049**
März, Christoph Spectral asymptotics for Hill's equation near the potential maximum. **93i:34154**
Maslov, V. P. *see* **Dobrokhotov, S. Yu.; et al., 93d:35030**
Matsuyama, A. Periodic Toda lattice in quantum mechanics. (English summary) **93k:81066**
Matyukhin, A. A. *see* **Gal'tsov, D. V., 93i:83032**
Oganesyan, G. R. WKB-estimates for partial differential equations, and the Cauchy problem for second-order singular hyperbolic equations. (Russian. English and Armenian summaries) **93d:35103**
Okołowicz, J. *see* **Caurier, E.; et al., 93a:81089**
Pankratova, T. F. Quasimodes and exponential splitting of a hammock. (Russian) **93c:34165**
Płoszajczak, M. *see* **Caurier, E.; et al., 93a:81089**
Prange, R. E. *see* **Györgyi, Géza; et al., 93h:81030**
Proto, A. N. *see* **Aliaga, J.; et al.**
Ragnisco, Orlando *see* **Fucito, F.; et al., 93m:58049**
Robbins, Jonathan Winding number formula for Maslov indices. **93f:58083**
Roy, Barnana (*with* Roy, Pinaki; Roychoudhury, Rajkumar) On solutions of quantum eigenvalue problems: a supersymmetric approach. **93c:81053**
Roy, Pinaki *see* **Roy, Barnana; et al., 93c:81053**
Roychoudhury, Rajkumar *see* **Roy, Barnana; et al., 93c:81053**
Seco, Luis A. *see* **Fefferman, Charles, 93j:34121**
Sevryuk, M. B. *see* **Aquilanti, Vincenzo; et al., 93d:34139**
Sigal, I. M. Quantum mechanics of many-particle systems. **93c:81033**
— *see also* **Gérard, C., 93b:35105**
Smith, A. P. A new asymptotic form for the Laguerre polynomials. **93a:33022**
Tanner, Gregor (*with* Wintgen, Dieter) Quantization of chaotic systems. **93a:81051**
Tomsovic, Steven *see* **Bohigas, Oriol; et al., 93k:81058**
Ullmo, D. *see* **Bohigas, Oriol; et al., 93k:81058**
Weidenmüller, H. A. *see* **Lewenkopf, C. H., 93a:81206**
Wintgen, Dieter *see* **Tanner, Gregor, 93a:81051**
Zambrini, Jean-Claude Euclidean quantum mechanics and semiclassical limit. **93f:81026**
Zubov, V. I. Quasi-classical self-consistent theory of anharmonic crystals. **93b:82082**

Items listed otherwise than by author

Symposium:
Theory of the Complex WKB Method and its Applications to Physics ★ The theory of the complex WKB method and its applications to physics. (Japanese) **93g:34004**
Theory of the complex WKB method and its applications to physics ★ The theory of the complex WKB method and its applications to physics. (Japanese) **93g:34004**

81Q30 Feynman integrals and graphs; applications of algebraic topology and algebraic geometry [see also 14D05, 32S40]

Items with secondary classifications in 81Q30

Bar-Natan, Dror (*with* Witten, Edward) Perturbative expansion of Chern-Simons theory with noncompact gauge group. **93c:81244**
Kotikov, A. V. A new method of calculating massive Feynman diagrams; vertex-type functions. **93k:81180**
— Calculation of massive Feynman diagrams. (Russian. English, Russian and Ukrainian summaries) **93g:81107**
Mattuck, Richard D. ★ A guide to Feynman diagrams in the many-body problem. **93i:81002**
Witten, Edward *see* **Bar-Natan, Dror, 93c:81244**

81Q40 Bethe-Salpeter and other integral equations

Bijtebier, J. (*with* Broekaert, J.) The two-body plus potential problem between quantum field theory and relativistic quantum mechanics (spinless case). **93b:81072**
Broekaert, J. *see* **Bijtebier, J., 93b:81072**
Bros, J. Various aspects of the Bethe-Salpeter structure in quantum field theory. (*see* **93g:81074**)
Latypov, D. M. (*with* Mukhamedzhanov, A. M.) On the Coulomb singular kernel of Lippmann-Schwinger-type equation. (English summary) **93g:81024**
Mukhamedzhanov, A. M. *see* **Latypov, D. M., 93g:81024**
Pis'mak, Yu. M. n-particle problem in quantum field theory and the functional Legendre transforms. **93c:81045**

81Q50 Quantum chaos [see also 58F13]

Anderson, J. T. Erratum: "Semiclassical chaos in quartic anharmonic oscillators" [Phys. Rev. A (3) **45** (1992), no. 8, 5373–5377; MR 92m:81052]. **93k:81055**
Antonsen, Thomas M., Jr. *see* **Couchman, Luise; et al., 93k:81059**
Aurich, R. (*with* Steiner, Frank) Staircase functions, spectral rigidity, and a rule for quantizing chaos. **93d:81045**
— (*with* Steiner, Frank) From classical periodic orbits to the quantization of chaos. **93k:81056**
Austin, Elizabeth J. (*with* Wilkinson, Michael) Statistical properties of parameter-dependent classically chaotic quantum systems. (English summary) **93h:81029**
Balazs, N. L. Tunnelling and the lazy baker's map. **93a:81046**
Béllissard, Jean *see* **Montambaux, Gilles; et al., 93k:81060**
Berman, G. P. (*with* Rubaev, V. Yu.; Zaslavskiĭ, G. M.) The problem of quantum chaos in a kicked harmonic oscillator. **93b:81073**
— (*with* Bulgakov, E. N.; Zaslavskii, G. M.) Quantum chaos of atoms in a resonant cavity. **93d:81046**
Berry, Michael Victor *see* **Robbins, Jonathan, 93e:81026**
Bleher, Pavel M. (*with* Jauslin, H. R.; Lebowitz, Joel L.) Floquet spectrum for two-level systems in quasiperiodic time-dependent fields. **93c:81046**
Blümel, Reinhold (*with* Mehl, J. B.) Quantum chaos. **93c:81047**
— *see also* **Lai, Ying-Cheng; et al., 93b:81074**
Bogomol'nyĭ, E. B. Semiclassical quantization of multidimensional systems. **93k:81057**
— (*with* Georgeot, B.; Giannoni, M.-J.; Schmit, C.) Chaotic billiards generated by arithmetic groups. (English summary) **93g:81025**
Bohigas, Oriol (*with* Tomsovic, Steven; Ullmo, D.) Manifestations of classical phase space structures in quantum mechanics. (English summary) **93k:81058**
— *see also* **Smilansky, Uzy; et al., 93b:81075**
Bolte, J. (*with* Steil, G.; Steiner, Frank) Arithmetical chaos and violation of universality in energy level statistics. (English summary) **93f:81039**
Bulgakov, E. N. *see* **Berman, G. P.; et al., 93d:81046**
Casati, Giulio Quantum localization and fluctuations. (*see* **93e:81003**)
Chu, G. (*with* José, Jorge V.) The semiclassical limit of a quantum Fermi accelerator. **93d:81047**
Combescure, M. Recurrent versus diffusive dynamics for a kicked quantum oscillator. (English and French summaries) **93j:81021**
Couchman, Luise (*with* Ott, Edward; Antonsen, Thomas M., Jr.) Quantum chaos in systems with ray splitting. (English summary) **93k:81059**
Dahlqvist, Per (*with* Russberg, Gunnar) Periodic orbit quantization of bound chaotic systems. **93a:81047**
— Influence of intermittency on quantum spectra. (English summary) **93i:81039**
Dürr, Detlef (*with* Goldstein, Sheldon; Zanghì, Nino) Quantum chaos, classical randomness, and Bohmian mechanics. **93c:81048**
Flores, J. C. Diffusion in momentum space for systems in a random time-dependent electric field: the 1D hydrogen atom. **93c:81049**
Gaspard, Pierre Dynamical chaos and many-body quantum systems. **93a:81048**

— *see also* **Nakamura, Katsuhiro; et al., 93j:81022**
Georgeot, B. *see* **Bogomol'nyi, E. B.; et al., 93g:81025**
Giannoni, M.-J. *see* **Bogomol'nyi, E. B.; et al., 93g:81025**
Goldstein, Sheldon *see* **Dürr, Detlef; et al., 93c:81048**
Graham, Robert *see* **Györgyi, Géza; et al., 93h:81030**
Grebogi, Celso *see* **Lai, Ying-Cheng; et al., 93b:81074**
Györgyi, Géza (*with* Graham, Robert; Prange, R. E.) Renormalization group study of quantum fluctuations near classical critical points of Hamiltonian systems. **93h:81030**
Haake, Fritz (*with* Wiedemann, Harald; Życzkowski, Karol) Lyapunov exponents from quantum dynamics. (English summary)
Heller, Eric J. *see* **O'Connor, Patrick W.; et al., 93e:81024** *and* **93e:81025**
Izrailev, F. M. Statistical properties of quantum chaos. (*see* **93e:81003**)
Jauslin, H. R. *see* **Bleher, Pavel M.; et al., 93c:81046**
José, Jorge V. *see* **Chu, G., 93d:81047**
Junker, Georg (*with* Leschke, Hajo) Remarks on the quasi-classical propagator of area-preserving maps. **93h:81031**
Karner, Georg (*with* Man'ko, V. I.; Streit, Ludwig) Quasi-energies, loss-energies and stochasticity. **93a:81049**
— (*with* Man'ko, V. I.; Streit, Ludwig) Quantum kicks, quasi-energy and chaos. (Russian. Russian summary) **93m:81035**
Keating, Jonathan Peter The semiclassical functional equation. **93h:81032**
— Periodic orbit resummation and the quantization of chaos. (English summary) **93m:81036**
Koschany, Arthur (*with* Kuffer, Josef; Obermair, Gustav M.) Chaos in wave mechanics with a logarithmic nonlinearity. **93h:81033**
Kuffer, Josef *see* **Koschany, Arthur; et al., 93h:81033**
Lai, Ying-Cheng (*with* Blümel, Reinhold; Ott, Edward; Grebogi, Celso) Quantum manifestations of chaotic scattering. **93b:81074**
Lakshmanan, M. *see* **Nakamura, Katsuhiro; et al., 93j:81022**
Lebowitz, Joel L. *see* **Bleher, Pavel M.; et al., 93c:81046**
Leschke, Hajo *see* **Junker, Georg, 93h:81031**
Leyvraz, F. (*with* Seligman, T. H.) Structural invariance and the statistics of quasi-energies. (English summary) **93h:81034**
Man'ko, V. I. *see* **Karner, Georg; et al., 93a:81049** *and* **93m:81035**
Mehl, J. B. *see* **Blümel, Reinhold, 93c:81047**
Montambaux, Gilles (*with* Poilblanc, Didier; Béllissard, Jean; Sire, Clément) Quantum chaos in spin-fermion models. (English summary) **93k:81060**
Nakamura, Katsuhiro (*with* Lakshmanan, M.; Gaspard, Pierre; Rice, S. A.) Field-theoretical model inspired by adiabatic-ansatz eigenvalue problems. (English summary) **93j:81022**
Obermair, Gustav M. *see* **Koschany, Arthur; et al., 93h:81033**
O'Connor, Patrick W. (*with* Tomsovic, Steven; Heller, Eric J.) Accuracy of semiclassical dynamics in the presence of chaos. **93e:81024**
— (*with* Tomsovic, Steven; Heller, Eric J.) Semiclassical dynamics in the strongly chaotic regime: breaking the log time barrier. **93e:81025**
Ott, Edward *see* **Lai, Ying-Cheng; et al., 93b:81074** *and* **Couchman, Luise; et al., 93k:81059**
Parmenter, R. H. (*with* Yu, L. Y.) The periodically kicked quantum spin. (English summary) **93i:81040**
Poilblanc, Didier *see* **Montambaux, Gilles; et al., 93k:81060**
Prange, R. E. *see* **Györgyi, Géza; et al., 93h:81030**
Reichl, L. E. ★ The transition to chaos in conservative classical systems: quantum manifestations. **93f:81040**
Rice, S. A. *see* **Nakamura, Katsuhiro; et al., 93j:81022**
Robbins, Jonathan (*with* Berry, Michael Victor) Discordance between quantum and classical correlation moments for chaotic systems. (English summary) **93e:81026**
Robnik, Marko Improved energy level statistics for a family of billiards with analytic boundaries. **93c:81050**
Rubaev, V. Yu. *see* **Berman, G. P.; et al., 93b:81073**
Russberg, Gunnar *see* **Dahlqvist, Per, 93a:81047**
Saraceno, M. (*with* Voros, A.) Anatomy of the trace formula for the baker's map. **93a:81050**
Schärf, Rainer (*with* Sundaram, Bala) Periodic orbits in quantum standard maps. (English summary) **93f:81041**
Schmit, C. *see* **Bogomol'nyi, E. B.; et al., 93g:81025**
Seligman, T. H. *see* **Leyvraz, F., 93h:81034**
Sire, Clément *see* **Montambaux, Gilles; et al., 93k:81060**
Smilansky, Uzy (*with* Tomsovic, Steven; Bohigas, Oriol) Spectral fluctuations and transport in phase space. **93b:81075**
Steil, G. *see* **Bolte, J.; et al., 93f:81039**
Steiner, Frank *see* **Aurich, R., 93d:81045**; **Bolte, J.; et al., 93f:81039** *and* **Aurich, R., 93k:81056**
Streit, Ludwig *see* **Karner, Georg; et al., 93a:81049** *and* **93m:81035**
Sundaram, Bala *see* **Schärf, Rainer, 93f:81041**
Takatsuka, Kazuo Dynamics and quantization of Hamiltonian chaos: density of states in phase-space semiclassical mechanics. **93g:81026**
Tanner, Gregor (*with* Wintgen, Dieter) Quantization of chaotic systems. **93a:81051**
Tomaschitz, Roman Relativistic quantum chaos in Robertson-Walker cosmologies. **93g:81027**
— Quantum chaos on hyperbolic manifolds: a new approach to cosmology. **93d:81048**
Tomsovic, Steven *see* **Smilansky, Uzy; et al., 93b:81075**; **O'Connor, Patrick W.; et al., 93e:81024**; **93e:81025** *and* **Bohigas, Oriol; et al., 93k:81058**
Ullmo, D. *see* **Bohigas, Oriol; et al., 93k:81058**
Vilela Mendes, R. Sensitive dependence in quantum systems: some examples and results. (English summary) **93k:81061**
Voros, A. *see* **Saraceno, M., 93a:81050**
Weigert, Stefan Keeping track of chaos by quantum-nondemolition measurements. **93c:81051**
— The problem of quantum integrability. **93i:81041**
Wiedemann, Harald *see* **Haake, Fritz; et al.**
Wilkinson, Michael *see* **Austin, Elizabeth J., 93h:81029**
Wintgen, Dieter *see* **Tanner, Gregor, 93a:81051**
Yu, L. Y. *see* **Parmenter, R. H., 93i:81040**
Zanghì, Nino *see* **Dürr, Detlef; et al., 93c:81048**
Zaslavskii, G. M. *see* **Berman, G. P.; et al., 93b:81073** *and* **93d:81046**
Życzkowski, Karol *see* **Haake, Fritz; et al.**

Items with secondary classifications in 81Q50

Baake, M. (*with* Joseph, D.; Kramer, Peter) Periodic clustering in the spectrum of quasiperiodic Kronig-Penney models. (English summary) **93e:81151**
Barelli, Armelle *see* **Béllissard, Jean, 93a:81042**
Béllissard, Jean (*with* Barelli, Armelle) Dynamical localization—mathematical framework. **93a:81042**
Bernath, M. *see* **Fendrik, A. J.; et al., 93b:58098**
Berry, Michael Victor (*with* Keating, Jonathan Peter) A new asymptotic representation for $\zeta(\frac{1}{2}+it)$ and quantum spectral determinants. (English summary) **93j:11057**
Biham, Ofer (*with* Kvale, Mark) Unstable periodic orbits in the stadium billiard. (English summary) **93k:58145**
Bogomol'nyi, E. B. On dynamical zeta function. **93f:58191**
Bonci, Luca *see* **Roncaglia, Roberto; et al., 93c:81281**
Bonilla, L. L. (*with* Guinea, F.) Collapse of the wave packet and chaos in a model with classical and quantum degrees of freedom. **93a:81030**
Cvitanović, Predrag Periodic orbit theory in classical and quantum mechanics. **93c:58166**
Dittrich, Thomas (*with* Graham, Robert) Continuously measured chaotic quantum systems. **93b:81024**
Dorso, C. O. *see* **Fendrik, A. J.; et al., 93b:58098**
Feingold, Mario Banded random matrix ensembles. **93b:82033**
Fendrik, A. J. (*with* Vega, J. L.; Dorso, C. O.; Bernath, M.) Chaos in billiards of nuclear interest. **93b:58098**
Ford, Joseph *see* **Mantica, Giorgio, 93a:81014**
Graham, Robert *see* **Dittrich, Thomas, 93b:81024**
Grigolini, Paolo *see* **Roncaglia, Roberto; et al., 93c:81281**
Grobgeld, Dov (*with* Pollak, Eli; Zakrzewski, Jakub) A numerical method for locating stable periodic orbits in chaotic systems. **93c:58135**
Guinea, F. *see* **Bonilla, L. L., 93a:81030**
Harayama, Takahisa (*with* Shudo, Akira) Zeta function derived from the boundary element method. **93i:81033**
Helleman, Robert H. G. Chaos toys. **93d:58098**
Hensel, M. (*with* Korsch, H. J.) Dissipative quantum dynamics: solution of the generalized von Neumann equation for the damped harmonic oscillator. **93g:81032**
Ikeda, Kensuke Stationary dissipation due to quantum chaos: simulated light absorption with quantum maps. (English summary)
Joseph, D. *see* **Baake, M.; et al., 93e:81151**
Karner, Gunther The classical limit of Floquet operators with singular spectrum. **93a:47080**
Keating, Jonathan Peter *see* **Berry, Michael Victor, 93j:11057**
Korsch, H. J. *see* **Hensel, M., 93g:81032**
Kramer, Peter *see* **Baake, M.; et al., 93e:81151**
Kvale, Mark *see* **Biham, Ofer, 93k:58145**
Lauritzen, Bent Semiclassical Poincaré map for integrable systems. (English summary) **93k:58182**
Legrand, Olivier (*with* Sornette, Didier) Quantum chaos and Sabine's law of reverberation in ergodic rooms. (English summary) **93g:76103**
Lewenkopf, C. H. (*with* Weidenmüller, H. A.) Stochastic versus semiclassical approach to quantum chaotic scattering. **93a:81206**
Mantica, Giorgio (*with* Ford, Joseph) On the completeness of the classical limit of quantum mechanics. **93a:81014**
Martens, Craig C. Quantum qualitative dynamics. **93e:81047**
Martín, J. I. *see* **Pérez-García, V. M.; et al., 93d:81034**
Mayer, Dieter H. Thermodynamic formalism and quantum mechanics on the modular surface. **93h:58121**
Otero, Dino (*with* Zunino, Veronica) Unbounded operators in statistical mechanics. **93b:82048**
Ozorio de Almeida, Alfredo M. ★ Hamiltonian systems: chaos and quantization. **93e:58069**
Pérez-García, V. M. (*with* Martín, J. I.; Rañada, Antonio F.) On the integrability of the classical hydrogen atom in a magnetic field. (Spanish summary) **93d:81034**
Pollak, Eli *see* **Grobgeld, Dov; et al., 93c:58135**
Rañada, Antonio F. *see* **Pérez-García, V. M.; et al., 93d:81034**
Reichl, L. E. A delta-kicked Brownian rotor. (English summary) **93k:82047**
Robbins, Jonathan Winding number formula for Maslov indices. **93f:58083**
Roncaglia, Roberto (*with* Bonci, Luca; Grigolini, Paolo; West, Bruce J.) Chaos and quantum irreversibility. **93c:81281**
Royer, Antoine Ehrenfest's theorem reinterpreted and extended with Wigner's function. **93m:81087**
Saitô, Nobuhiko (*with* Shudo, Akira) Ergodicity, irreversibility and approach to equilibrium. (English summary) **93k:58137**
Shudo, Akira *see* **Harayama, Takahisa, 93i:81033** *and* **Saitô, Nobuhiko, 93k:58137**
Sornette, Didier *see* **Legrand, Olivier, 93g:76103**
Steeb, Willi-Hans ★ A handbook of terms used in chaos and quantum chaos. **93d:58001**
Takami, Toshiya Semiclassical interpretation of avoided crossings for classically nonintegrable systems. **93b:81070**
Tomaschitz, Roman Relativistic quantum chaos in de Sitter cosmologies. **93d:83077**
Vega, J. L. *see* **Fendrik, A. J.; et al., 93b:58098**
Weidenmüller, H. A. *see* **Lewenkopf, C. H., 93a:81206**
West, Bruce J. *see* **Roncaglia, Roberto; et al., 93c:81281**
Zakrzewski, Jakub *see* **Grobgeld, Dov; et al., 93c:58135**
Zelditch, Steven Quantum ergodicity on the sphere. **93e:58191**
Zunino, Veronica *see* **Otero, Dino, 93b:82048**

81Q60 Supersymmetric quantum mechanics

Abe, Sumiyoshi Super Wigner function. **93f:81042**

Amado, R. D. (*with* Cannata, F.; Dedonder, J. P.) Supersymmetric quantum mechanics, phase equivalence, and low energy scattering anomalies. **93b:81076**
Aringazin, A. K. Validity of Pauli's principle in the exterior branch of hadronic mechanics. **93d:81049a**
— Supersymmetric hadronic mechanical harmonic oscillator. **93d:81049b**
Baumgartner, B. Perturbations of supersymmetric systems in quantum mechanics. (English summary) **93i:81042**
Beckers, J. (*with* Debergh, N.; Nikitin, A. G.) More on supersymmetries of the Schrödinger equation. **93b:81077**
Bender, Carl M. New approach to the solution of nonlinear problems. (English summary) **93m:81037**
Boya, Luis J. (*with* Casahorran, J.; Esteve, J. G.) Anomalous SUSY quantum mechanics, heterotic models and scattering states. (English summary) **93e:81027**
Cannata, F. *see* **Amado, R. D.; et al., 93b:81076**
Casahorran, J. *see* **Boya, Luis J.; et al., 93e:81027**
Cheng, K. M. (*with* Fung, P. C. W.) Certain properties of Berry's phases in supersymmetric quantum mechanics. **93a:81052**
— (*with* Fung, P. C. W.) Certain properties of Berry's phases in supersymmetric quantum mechanics. II. (English summary) **93m:81038**
Debergh, N. *see* **Beckers, J.; et al., 93b:81077**
Dedonder, J. P. *see* **Amado, R. D.; et al., 93b:81076**
Drigo Filho, Elso Supersymmetric solution for two-dimensional Schrödinger equation. (English summary) **93i:81043**
Durand, Stéphane (*with* Mayrand, Michel; Spiridonov, V. P.; Vinet, Luc) Higher order parasupersymmetric quantum mechanics. **93f:81043**
Esteve, J. G. *see* **Boya, Luis J.; et al., 93e:81027**
Fung, P. C. W. *see* **Cheng, K. M., 93a:81052** *and* **93m:81038**
Fushchich, V. I. *see* **Nikitin, A. G.; et al., 93m:81039**
Grosse, Harald Supersymmetric quantum mechanics. (English summary) **93g:81028**
de Lange, O. L. (*with* Welter, A.) Shape invariance with application to the momentum representation. (English summary) **93i:81044**
Mayrand, Michel *see* **Durand, Stéphane; et al., 93f:81043**
McKeon, D. G. C. Supersymmetric particle with curvature. (English summary) **93i:81045**
Ndimubandi, J. (*with* Ntibashirakandi, L.) On relativistic oscillators through supersymmetry and Foldy-Wouthuysen transformations. (French summary) **93d:81050**
Nikitin, A. G. (*with* Onufriichuk, S. P.; Fushchich, V. I.) Higher symmetries of the Schrödinger equation. (Russian. English and Russian summaries) **93m:81039**
— *see also* **Beckers, J.; et al., 93b:81077**
Ntibashirakandi, L. *see* **Ndimubandi, J., 93d:81050**
Onufriichuk, S. P. *see* **Nikitin, A. G.; et al., 93m:81039**
Rietdijk, R. H. Classical and quantum mechanics of a spinning particle interacting with background fields. **93c:81052**
Roy, Barnana (*with* Roy, Pinaki; Roychoudhury, Rajkumar) On solutions of quantum eigenvalue problems: a supersymmetric approach. **93c:81053**
Roy, Pinaki (*with* Tarrach, Rolf) Supersymmetric anyon quantum mechanics. **93a:81053**
— *see also* **Roy, Barnana; et al., 93c:81053**
Roychoudhury, Rajkumar *see* **Roy, Barnana; et al., 93c:81053**
Savage, Craig M. Chaos in dissipative quantum systems. **93a:81054**
Sen, Diptiman Some supersymmetric features in the spectrum of anyons in a harmonic potential. (English summary) **93e:81028**
— Spectrum of three anyons in a harmonic potential and the third virial coefficient. **93a:81055**
Spiridonov, V. P. Deformed conformal and supersymmetric quantum mechanics. **93c:81054**
— *see also* **Durand, Stéphane; et al., 93f:81043**
Tarrach, Rolf *see* **Roy, Pinaki, 93a:81053**
Tomiya, Mitsuyoshi Comment on generalized parasupersymmetric quantum mechanics. (English summary) **93k:81062**
Turbiner, A. V. Errata: "A new phenomenon of nonanalyticity and spontaneous supersymmetry 'breaking' " [Phys. Lett. B **276** (1992), no. 1-2, 95–102; MR 92m:81066]. **93i:81046**
Vinet, Luc *see* **Durand, Stéphane; et al., 93f:81043**
Welter, A. *see* **de Lange, O. L., 93i:81044**
Xu, Cai (*with* Zhou, Zhuo Mei) Temperature effect and coherent effect in supersymmetry. **93c:81055**
Yamaleev, R. M. ★ Квантовая модель осциллятора в пространстве рациональных квантовых чисел. (Russian. English and Russian summaries) [A quantum model of an oscillator in the space of rational quantum numbers] **93i:81047**
Zhou, Zhuo Mei *see* **Xu, Cai, 93c:81055**

Items with secondary classifications in 81Q60

Ancarani, L. U. (*with* Baye, D.) Iterative supersymmetric construction of phase-equivalent potentials. **93c:81258**
Andreev, V. A. (*with* Lerner, P. B.) Supersymmetry of multiphoton transitions. **93f:81168**
de Azeredo Campos, R. Dirac quantization of higher order systems with odd variables. (French summary) **93a:81088**
— Canonical quantization of supersymmetric second-order systems. **93b:81121**
Baye, D. *see* **Ancarani, L. U., 93c:81258**
Bera, P. K. (*with* Das, U.; Bhattacharyya, C.; Talukdar, B.) On integral representations of the Coulomb functions. **93d:81183**
Bhattacharyya, C. *see* **Bera, P. K.; et al., 93d:81183**
Chapline, George Quantum model for space-time. **93g:83045**
Chitra, R. (*with* Kumar, C. Nagraj; Sen, Diptiman) Supersymmetry in the two-anyon problem. **93a:81189**
Das, U. *see* **Bera, P. K.; et al., 93d:81183**
DeWitt, Bryce S. ★ Supermanifolds. **93j:58008**
Ito, Ikuo (*with* Kon, Tadashi) Thermal properties of parasupersymmetric oscillator. (English summary) **93e:81056**
Khrennikov, A. Yu. Generalized functions on a non-Archimedean superspace. (Russian) **93c:58035**
— Analysis on the p-adic superspace. II. Differential equations on p-adic superspace. **93g:58017**
Kon, Tadashi *see* **Ito, Ikuo, 93e:81056**
Kumar, C. Nagraj *see* **Chitra, R.; et al., 93a:81189**
Lerner, P. B. *see* **Andreev, V. A., 93f:81168**
Mateos Guilarte, Juan Sphalerons and instantons in two-dimensional field theory. **93i:81108**
Morozov, A. Yu. (*with* Niemi, Antti J.; Palo, K.) Supersymplectic geometry of supersymmetric quantum field theories. **93e:81137**
Niemi, Antti J. *see* **Morozov, A. Yu.; et al., 93e:81137**
Ogievetskiĭ, V. I. Harmonics: Hamiltonian analogies and quaternionic analyticity. (*see* **93h:81003**)
Palo, K. *see* **Morozov, A. Yu.; et al., 93e:81137**
Rosenhaus, Vladimir On prolongation and invariance algebras in superspace. (English summary) **93e:58203**
Rybkin, G. N. Batalin-Fradkin-Vilkovisky approach for gauge invariant systems with closed algebra. **93c:81249**
Semenov, V. V. Multidimensional generalized superalgebras. **93g:81040**
Sen, Diptiman *see* **Chitra, R.; et al., 93a:81189**
Talukdar, B. *see* **Bera, P. K.; et al., 93d:81183**
Thaller, Bernd Dirac particles in magnetic fields. (English summary) **93g:81199**
Varshni, Y. P. Relative convergences of the WKB and SWKB approximations. (English summary) **93i:81038**
Zhao, Wei Dong Character-valued index theorem and topological field theory. **93g:58143**

81Q99 None of the above, but in this section

Aitchison, I. J. R. (*with* Wanelik, K.) On the real and complex geometric phases. (English summary) **93k:81063**
Akashi, Shigeo The asymptotic behavior of quantum ε-entropy. **93h:81035**
Anderson, James L. Multiple time scale methods for adiabatic systems. (English summary) **93h:81036**
Balakrishnan, Radha *see* **Dandoloff, Rossen; et al., 93i:81048**
(Berry, Michael Victor) *see* **Robnik, Marko, 93a:81059**
Bishop, Alan R. *see* **Dandoloff, Rossen; et al., 93i:81048**
Bohm, Arno (*with* Kendrick, Brian; Loewe, Mark E.; Boya, Luis J.) The Berry connection and Born-Oppenheimer method. **93d:81051**
— (*with* Boya, Luis J.; Kendrick, Brian) On the uniqueness of the Berry connection. **93d:81052**
Boya, Luis J. *see* **Bohm, Arno; et al., 93d:81051** *and* **93d:81052**
Chang, Lay-Nam (*with* Liang, Yi-Gao) A global theory of parametrized quantum mechanics. **93b:81078**
Chernitskiĭ, A. A. Long-range interaction of four-vector field solitons in the Minkowski space. (Russian. English and Russian summaries) **93g:81029**
Dandoloff, Rossen (*with* Balakrishnan, Radha; Bishop, Alan R.) Two-level systems: space curve formalism, Berry's phase and Gauss-Bonnet theorem. (English summary) **93i:81048**
Dodonov, V. V. (*with* Man'ko, V. I.; Nikonov, D. E.) Exact propagators for time-dependent Coulomb, delta and other potentials. **93b:81079**
Fehér, László (*with* Horváthy, P. A.) Particle in a self-dual monopole field. **93d:81053**
Ferretti, G. Chiral symmetry breaking in matrix quantum mechanics. **93g:81030**
Fichtner, Karl-Heinz (*with* Freudenberg, Wolfgang) Characterization of states of infinite boson systems. I. On the construction of states of boson systems. **93a:81056**
Forrester, P. J. Some multidimensional integrals related to many-body systems with the $1/r^2$ potential. **93a:81057**
Freudenberg, Wolfgang *see* **Fichtner, Karl-Heinz, 93a:81056**
Gao, Xiao Chun (*with* Xu, Jing Bo; Xu, Dong Hui) Invariant theory and superadiabatic bases. **93b:81080**
Gibbons, G. W. Typical states and density matrices. **93g:81031**
Graf, Martin *see* **Henning, Peter A.; et al., 93c:81056**
Henning, Peter A. (*with* Graf, Martin; Matthäus, Frank) The geometry of the thermal quasi-particle transformation. **93c:81056**
Hensel, M. (*with* Korsch, H. J.) Dissipative quantum dynamics: solution of the generalized von Neumann equation for the damped harmonic oscillator. **93g:81032**
Horváthy, P. A. *see* **Fehér, László, 93d:81053**
Joye, Alain (*with* Kunz, Hervé; Pfister, Charles-Edouard) Exponential decay and geometric aspect of transition probabilities in the adiabatic limit. **93a:81058**
Karlhede, Anders (*with* Westerberg, Erik) Anyons in a magnetic field. **93c:81057**
Katayama, Noriaki A note on a quantum-mechanical harmonic oscillator in a space of constant curvature. (English summary) **93e:81029**
Kendrick, Brian Invariance of the geometrical phase under time-dependent unitary transformations. **93d:81054**
— *see also* **Bohm, Arno; et al., 93d:81051** *and* **93d:81052**
Kepler, Thomas B. Geometric phase shifts in dissipative classical systems. (English summary)
Kitakado, S. *see* **Ohnuki, Yoshio, 93e:81030**
Korsch, H. J. *see* **Hensel, M., 93g:81032**
Kunz, Hervé *see* **Joye, Alain; et al., 93a:81058**
Landsberg, A. S. Geometrical phases and symmetries in dissipative systems. (English summary) **93d:81055**
Li, Jian Ming (*with* Wu, Zhao Yan) Geometry of quantal adiabatic evolution for systems with a degenerate Hamiltonian. (English summary) **93k:81064**
Liang, Jiu Qing Quantum anholonomy and geometrical phase interference. (English summary) **93i:81049**
Liang, Yi-Gao *see* **Chang, Lay-Nam, 93b:81078**
Lindsay, J. Martin (*with* Meyer, P.-A.) Fermionic hypercontractivity. **93k:81065**
Link, Robert Phase holonomy of the vacuum in three-dimensional gauge theories. (English summary) **93i:81050**
Liu, Quan Hui A precise correspondence relation of quantum mechanical matrix elements and Fourier amplitudes of a classical quantity. (Chinese. English and Chinese summaries)

Loewe, Mark E. *see* **Bohm, Arno; et al., 93d:81051**
Lyashenko, B. N. A method for minimizing the total energy of quantum-mechanical systems. (Russian. English and Ukrainian summaries) **93g:81033**
Man'ko, V. I. *see* **Dodonov, V. V.; et al., 93b:81079**
Matsuyama, A. Periodic Toda lattice in quantum mechanics. (English summary) **93k:81066**
Matthäus, Frank *see* **Henning, Peter A.; et al., 93c:81056**
Meyer, P.-A. *see* **Lindsay, J. Martin, 93k:81065**
Mukunda, N. *see* **Simon, Rajiah, 93k:81067**
Nikonov, D. E. *see* **Dodonov, V. V.; et al., 93b:81079**
Ohnuki, Yoshio (*with* Kitakado, S.) On quantum mechanics on compact space. (English summary) **93e:81030**
Pati, Arun Kumar Geometric phase, geometric distance and length of the curve in quantum evolution. (English summary) **93f:81044**
Pfister, Charles-Edouard *see* **Joye, Alain; et al., 93a:81058**
Robnik, Marko Improved statistics of energy levels for Aharonov-Bohm chaotic billiards. Addendum to: "Statistics of energy levels without time-reversal symmetry: Aharonov-Bohm chaotic billiards" [J. Phys. A **19** (1986), no. 5, 649–668; MR 88b:81062a] by M. V. Berry and Robnik. **93a:81059**
Simon, Rajiah (*with* Mukunda, N.) Bargmann invariant and the geometry of the Güoy effect. (English summary) **93k:81067**
Sun, Chang Pu A new observable effect of Berry's phase and its nonadiabatic behavior. (Chinese. English summary) **93k:81068**
Takagi, Shin (*with* Tanzawa, Tôru) Quantum mechanics of a particle confined to a twisted ring. **93a:81060**
Tanzawa, Tôru *see* **Takagi, Shin, 93a:81060**
Vilela Mendes, R. Topics in the quantum theory of nonintegrable systems. **93b:81081**
Wanelik, K. *see* **Aitchison, I. J. R., 93k:81063**
Westerberg, Erik *see* **Karlhede, Anders, 93c:81057**
Wu, Yihren On the topological phases in a planar N-point vortex system. **93d:81056**
Wu, Zhao Yan *see* **Li, Jian Ming, 93k:81064**
Xu, Dong Hui *see* **Gao, Xiao Chun; et al., 93b:81080**
Xu, Jing Bo *see* **Gao, Xiao Chun; et al., 93b:81080**

Items with secondary classifications in 81Q99

Alanson, T. A "quantal" Hilbert space formulation for nonlinear dynamical systems in terms of probability amplitudes. **93a:81006**
Alberverio, Sergio (*with* Ma, Zhi Ming) Diffusion processes with singular Dirichlet forms. **93m:60157**
Bandyopadhyay, Pratul *see* **Banerjee, Dipti, 93a:81092**
Banerjee, Dipti (*with* Bandyopadhyay, Pratul) Topological aspects of a fermion, chiral anomaly, and Berry phase. **93a:81092**
Bättig, Daniel (*with* Knörrer, Horst; Trubowitz, Eugene) A directional compactification of the complex Fermi surface. **93g:35118**
Baylis, W. E. Classical eigenspinors and the Dirac equation. **93c:81073**
Bulatov, D. V. (*with* Kazakov, Vladimir Aleksandrovich[1]) One-dimensional string theory with vortices as the upside-down matrix oscillator. (English summary) **93k:81169**
Cho, Kyung-Hyun (*with* Rim, Chaiho; Soh, D. S.) Exact wavefunctions for free anyons: ladder operator approach. **93c:81088**
Dahlen, F. A. *see* **Tromp, Jeroen, 93b:78009**
Dittmann, Jochen (*with* Rudolph, Gerd) A class of connections governing parallel transport along density matrices. (English summary) **93k:53076**
El Naschie, M. S. Physics-like mathematics in four dimensions—implications for classical and quantum mechanics. (English summary) (*see* **93j:00008**)
Fernández C., David J. (*with* Nieto, Luis M.; del Olmo, Mariano A.; Santander, Mariano) Aharonov-Anandan geometric phase for spin-$\frac{1}{2}$ periodic Hamiltonians. (English summary) **93i:81295**
Forrester, P. J. Exact eigenstates of some spin-$\frac{1}{2}$ Heisenberg chains with $1/r^2$ exchange. (English summary) **93k:82015**
Frampton, Paul H. Non-Archimedian geometry and applications to particle theory. **93h:81116**
Fried, H. M. ★ Basics of functional methods and eikonal models. (English. English summary)
Gol'dsheid, I. Ya. (*with* Sorets, Eugene) Lyapunov exponents of the Schrödinger equation with quasi-periodic potential on a strip. **93f:39007**
González, Jorge A. Space-time attractors in perturbed Klein-Gordon equations. (Spanish. English summary) **93d:58150**
Grigorenko, A. N. Geometry of projective Hilbert space. (English summary) **93m:58008**
Gudder, Stanley Schrödinger and Dirac quantum random walks. (English summary) **93m:82016**
Haken, H. *see* **Ning, Cun Zheng, 93k:81279**
Hansson, T. H. (*with* Leinaas, J. M.; Myrheim, J.) Dimensional reduction in anyon systems. (English summary) **93g:81054**
Imbrie, John Z. (*with* Janowsky, Steven A.; Weitsman, Jonathan) Space-dependent Dirac operators and effective quantum field theory for fermions. **93b:81140**
Iwai, Toshihiro A representation of the Guichardet connection in the Aharonov-Anandan connection. **93i:58064**
Janowsky, Steven A. *see* **Imbrie, John Z.; et al., 93b:81140**
Jumarie, Guy Quantum entropies of nonprobabilistic matrices. **93a:94015**
Kammerer, Jean-Bertrand (*with* Valton, Michel) Produit de Moyal dans une supervariété plate; spin $\frac{1}{2}$. (English and French summaries) [Moyal product in a flat supermanifold; spin $\frac{1}{2}$] **93k:58033**
Kazakov, Vladimir Aleksandrovich[1] *see* **Bulatov, D. V., 93k:81169**
King, Christopher K. Scattering theory for a model of an atom in a quantized field. (English summary) **93i:81290**
Knörrer, Horst *see* **Bättig, Daniel; et al., 93g:35118**
Krive, I. V. (*with* Malomed, B. A.; Rozhavskiĭ, A. S.) Tunnelling in "massless" quantum mechanics. **93b:81146**
Leinaas, J. M. *see* **Hansson, T. H.; et al., 93g:81054**
Ma, Zhi Ming *see* **Albeverio, Sergio, 93m:60157**
Malomed, B. A. *see* **Krive, I. V.; et al., 93b:81146**
March-Russell, John (*with* Preskill, John; Wilczek, Frank) Internal frame dragging and a global analog of the Aharonov-Bohm effect. **93a:81079**
Moore, D. J. Berry phases and Rabi oscillations. **93d:81197**
Myrheim, J. *see* **Hansson, T. H.; et al., 93g:81054**
Nieto, Luis M. *see* **Fernández C., David J.; et al., 93i:81295**
Ning, Cun Zheng (*with* Haken, H.) The geometric phase in nonlinear dissipative systems. (English summary) **93k:81279**
Ohya, Masanori Fractal dimensions of states. **93h:94009**
del Olmo, Mariano A. *see* **Fernández C., David J.; et al., 93i:81295**
Preskill, John *see* **March-Russell, John; et al., 93a:81079**
Rim, Chaiho *see* **Cho, Kyung-Hyun; et al., 93c:81088**
Rozhavskiĭ, A. S. *see* **Krive, I. V.; et al., 93b:81146**
Rudolph, Gerd *see* **Dittmann, Jochen, 93k:53076**
Santander, Mariano *see* **Fernández C., David J.; et al., 93i:81295**
Soh, D. S. *see* **Cho, Kyung-Hyun; et al., 93c:81088**
Sorets, Eugene *see* **Gol'dsheid, I. Ya., 93f:39007**
Tolar, J. Borel quantization and the origin of topological effects in quantum mechanics. (English summary) **93g:81071**
Tromp, Jeroen (*with* Dahlen, F. A.) The Berry phase of a slowly varying waveguide. **93b:78009**
Trubowitz, Eugene *see* **Bättig, Daniel; et al., 93g:35118**
Tsue, Yasuhiko Maslov phase as geometric phase in the time-dependent variational approach with squeezed coherent states. (English summary) **93m:81057**
Valton, Michel *see* **Kammerer, Jean-Bertrand, 93k:58033**
Venturi, G. Quantum gravity and the Berry phase. **93c:83061**
Weitsman, Jonathan *see* **Imbrie, John Z.; et al., 93b:81140**
Wilczek, Frank *see* **March-Russell, John; et al., 93a:81079**

81Rxx Groups and algebras in quantum theory

81R05 Representations of finite-dimensional groups and algebras motivated by physics [see also 20C35, 22E70]

Aldaya, Víctor (*with* Navarro-Salas, José; Bisquert, J.; Loll, R.) Symmetry and quantization: higher-order polarization and anomalies. (English summary) **93h:81037**
Alhassid, Y. (*with* Leviatan, A.) Partial dynamical symmetry. (English summary) **93k:81069**
Ališauskas, Sigitas Comment on: "The matrix representation of U_4 in the $U_2 \times U_2$ basis and some isoscalar factors for $U_{p+q} \supset U_p \times U_q$" [J. Math. Phys. **31** (1990), no. 6, 1333–1339; MR 91d:81040] by F. Pan. **93c:81058**
— Explicit canonical tensor operators and orthonormal coupling coefficients of SU(3). **93i:81051**
Anandan, J. *see* **Sudarshan, E. C. G.; et al., 93j:81024**
Arnal, Didier (*with* Cahen, Michel; Gutt, Simone; Zahir, H.) A Moyal type * product on Hermitian symmetric spaces. (English summary) **93i:81052**
Barut, Asim Orhan *see* **Roy, Barnana; et al., 93k:81075**
Baskoutas, S. (*with* Jannussis, A.; Mignani, R.) Study of the generalized parametric oscillator. **93d:81057**
Berezin, A. V. (*with* Kuvshinov, V. I.; Fedorov, F. I.) Vector parametrizations of groups of space-time symmetry and the Poincaré supergroup. (Russian) (*see* **93d:58002**)
Bhansali, Vineer Helicity-chirality correlation and Weinberg's constraint in higher dimensions. (English summary) **93h:81038**
Biedenharn, L. C. Resolving the problem posed by multiplicity in the unitary groups. (English summary) (*see* **93e:81150**)
Bisquert, J. *see* **Aldaya, Víctor; et al., 93h:81037**
Bohm, Arno Symmetry groups and spectrum generating groups. (English summary) (*see* **93c:81004**)
Cahen, Michel *see* **Arnal, Didier; et al., 93i:81052**
Chiu, Ying Nan *see* **Lai, Shan Tao, 93d:81061**
Coipa, J. P. *see* **Temme, F. P., 93i:81056**
Combescure, M. A generalized coherent state approach of the quantum dynamics for suitable time-dependent Hamiltonians. **93m:81040**
Cordani, Bruno The Kepler problem half century after Fock. **93a:81061**
Ebner, Dieter W. (*with* Rodríguez-Romo, Suemi) Unified treatment of fermions and bosons. (English summary)
Evans, N. W. Group theory of the Smorodinsky-Winternitz system. **93a:81062**
Fawcett, R. J. B. The classical limit of so(3) compact quantum systems. **93d:81058**
Fedorov, F. I. *see* **Berezin, A. V.; et al., (93d:58002)**
Frappat, L. (*with* Sciarrino, A.) Oscillator realization of the strange superalgebras $P(n)$ and $Q(n)$. (English summary) **93i:81053**
Fushchich, V. I. (*with* Nikitin, A. G.) ★ Симметрия уравнений квантовой механики. (Russian) [Symmetry of equations of quantum mechanics] **93c:81059**
Gao, Jun *see* **Gao, Xiao Chun; et al., 93k:81070**
Gao, Xiao Chun (*with* Xu, Jing Bo; Gao, Jun) A new approach to the study of Noether invariants and symmetry algebras. **93k:81070**
Geyer, H. B. *see* **Klein, Abraham; et al., (93e:81150)**
Govindarajan, T. R. *see* **Sudarshan, E. C. G.; et al., 93j:81024**
Góźdź, Andrzej (*with* Rogatko, Marek) The algebraic generator coordinate method for locally compact Lie groups. (English summary) **93k:81071**
Granovskiĭ, Ya. I. (*with* Lutsenko, I. M.; Zhedanov, A. S.) Mutual integrability, quadratic algebras, and dynamical symmetry. **93k:81072**
Gromov, N. A. Matrix elements of finite group transformations in the Jordan-Schwinger representation and a contraction. (Russian) (*see* **93d:58002**)
Gruber, Bruno (*with* Ramek, Michael) Symmetry-adapted wavefunctions and matrix elements: the general case. **93b:81082**
Günaydin, Murat Singleton and doubleton supermultiplets of space-time supergroups and infinite spin superalgebras. (*see* **93g:81003**)
Gutt, Simone *see* **Arnal, Didier; et al., 93i:81052**

Hahne, F. J. W. *see* **Klein, Abraham; et al., (93e:81150)**
Hori, Takayuki Hidden symmetry of relativistic particles. **93d:81059**
Humi, M. Lie algebras of first- and second-order operators. **93e:81031**
Jannussis, A. *see* **Baskoutas, S.; et al., 93d:81057**
Karasëv, V. P. Polynomial deformations of oscillator algebras in quantum theories with internal symmetries. **93k:81073**
— Algebras of the SU(n) invariants: structure, representations and applications. **93d:81060**
Katriel, Jacob (*with* Kibler, Maurice) Normal ordering for deformed boson operators and operator-valued deformed Stirling numbers. **93b:81083**
Kibler, Maurice *see* **Katriel, Jacob, 93b:81083**
Klein, Abraham (*with* Walet, Niels R.; Geyer, H. B.; Hahne, F. J. W.) Vector coherent state, quantized Bogoliubov transformation, and boson expansions. (English summary) (*see* **93e:81150**)
Klink, W. H. Clebsch-Gordan and Racah coefficients of the Poincaré group. **93e:81032**
— SU(3) Clebsch-Gordan coefficients with definite permutation symmetry. **93e:81033**
Koike, F. Explicit formulae of angular momentum coupling coefficients. (English summary) **93i:81054**
Kuriyama, Atsushi *see* **Yamamura, Masatoshi, 93i:81057**
Kuvshinov, V. I. *see* **Berezin, A. V.; et al., (93d:58002)**
Lai, Shan Tao (*with* Chiu, Ying Nan) Exact computation of the 9-j symbols. **93d:81061**
Lev, F. M. Finiteness of physics and its possible consequences. (English summary) **93k:81074**
Leviatan, A. *see* **Alhassid, Y., 93k:81069**
Loll, R. *see* **Aldaya, Víctor; et al., 93b:81037**
Lutsenko, I. M. *see* **Granovskiĭ, Ya. I.; et al., 93k:81072**
Marshalek, Eugene R. A new boson realization for the isotropic three-dimensional oscillator. (English summary) **93i:81055**
McFarlane, S. C. Angular momentum and Heisenberg's correspondence principle. (English summary) **93h:81039**
McKeon, D. G. C. Yang-Mills theory and nonirreducible representations of the Lorentz group. (English and French summaries) **93h:81040**
Metsaev, R. R. Note on the cubic interaction of massless representations of the Poincaré group in $D = 5$ spacetime. (English summary) **93j:81023**
Mignani, R. *see* **Baskoutas, S.; et al., 93d:81057**
Minnaert, Pierre (*with* Mozrzymas, Marek) Racah-Wigner calculus for the super-rotation algebra. I. **93b:81084**
— (*with* Mozrzymas, Marek) Algebraic structure of tensor superoperators for the super-rotation algebra. II. **93b:81085**
Mozrzymas, Marek *see* **Minnaert, Pierre, 93b:81084** *and* **93b:81085**
Navarro-Salas, José *see* **Aldaya, Víctor; et al., 93b:81037**
Nikitin, A. G. *see* **Fushchich, V. I., 93c:81059**
Oguchi, Takehiko Second quantization operators for spin operators. (English summary) **93f:81045**
Ohnuki, Yoshio Relativistic particles and fields with fractional spin in $(2 + 1)$-dimensions. (*see* **93f:81006**)
Palev, Tchavdar D. (*with* Stoilova, Nedjalka I.) OSP(3/2) noncanonical quantum oscillator. (*see* **93h:81003**)
(Pan, Feng) *see* **Ališauskas, Sigitas, 93c:81058**
Park, Chung Joo The dynamical supersymmetry of the point magnetic vortex. **93b:81086**
Rajpoot, Subhash Superalgebra and superspace of vector spinor generators. **93c:81060**
Ramek, Michael *see* **Gruber, Bruno, 93b:81082**
Rodríguez-Romo, Suemi *see* **Ebner, Dieter W.**
Rogatko, Marek *see* **Góźdź, Andrzej, 93k:81071**
Rowe, D. J. Recent advances in vector coherent state theory. (English summary) (*see* **93e:81150**)
Roy, Barnana (*with* Barut, Asim Orhan; Roy, Pinaki) On the dynamical group of the system of two anyons with Coulomb interaction. (English summary) **93k:81075**
Roy, Pinaki *see* **Roy, Barnana; et al., 93k:81075**
Saller, H. Indefinite metric and asymptotic probabilities. **93d:81062**
Sciarrino, A. *see* **Frappat, L., 93i:81053**
Shelepin, A. L. (*with* Shelepin, L. A.) The method of generating invariants in the theory of Lie groups. Dynamical groups of harmonic oscillators. (Russian. Russian summary) **93e:81034**
Shelepin, L. A. *see* **Shelepin, A. L., 93e:81034**
Srinivasa Rao, K. (*with* Van der Jeugt, J.; Vanden Berghe, Guido) On the algebra of coupled SO(3) tensors. **93d:81063**
Stoilova, Nedjalka I. *see* **Palev, Tchavdar D., (93h:81003)**
Sudarshan, E. C. G. (*with* Anandan, J.; Govindarajan, T. R.) A group-theoretic treatment of the geometric phase. **93j:81024**
Temme, F. P. The structure and Gel'fand patterns inherent in the Heisenberg supergenerator algebra of dual Liouville-space $|kq\{\tilde{K}.\}(k_1 - k_n)\colon\{\tilde{\lambda}\}, \mathscr{S}_n\rangle\rangle$ tensors and the Cayley algebra of scalar invariants over a $(k_1 - k_n)$ field. **93b:81087**
— (*with* Colpa, J. P.) Summary of $\mathscr{S}_n$ mapping properties of some lexical p-tuples, or wordlengths, over $(M_1 - M_n)$ fields of Rota-Cayley algebra in generating Hilbert space SO(3) $\times \mathscr{S}_n$ irreps of higher I_i identical spin clusters, $[A]_n(\mathscr{S}_n)$, for $n \leq 7$. (English summary) **93i:81056**
— On general forms for structure of some $[n-1, 1] \otimes [\lambda].\mathscr{S}_n$ inner tensor products with $6 \leq n \leq 20$, (60) for n even, in the context of spin cluster problems of multiquantum NMR. (English summary)
Vanden Berghe, Guido *see* **Srinivasa Rao, K.; et al., 93d:81063**
Van der Jeugt, J. *see* **Srinivasa Rao, K.; et al., 93d:81063**
Walet, Niels R. *see* **Klein, Abraham; et al., (93e:81150)**
Xu, Jing Bo *see* **Gao, Xiao Chun; et al., 93k:81070**
Yamamura, Masatoshi (*with* Kuriyama, Atsushi) Minimal uncertainty in quantal system obeying the su(2)-algebra. (English summary) **93i:81057**
Zahir, H. *see* **Arnal, Didier; et al., 93i:81052**
Zhedanov, A. S. *see* **Granovskiĭ, Ya. I.; et al., 93k:81072**

Items with secondary classifications in 81R05

Adams, Barry G. Unified treatment of high-order perturbation theory for the Stark effect in a two- and three-dimensional hydrogen atom. (English summary) **93i:81301**
Agnes, J. Mary *see* **Raghunathan, K.; et al., 93a:22005**
Arigazzi, A. K. (*with* Jannussis, A.; Lopez, D. F.; Nishioka, M.; Veljanoski, B.) ★ Santilli's Lie-isotopic generalization of Galilei's and Einstein's relativities. **93j:17056**
Avan, Jean (*with* Jevicki, Antal) Algebraic structures and eigenstates for integrable collective field theories. (English summary) **93i:81183**
Avramenko, V. I. (*with* Blokhin, A. L.) Effective Hamiltonian within the microscopic unitary nuclear model. II. The study of sd nuclei with two valence particles. **93b:81310**
de Azcárraga, J. A. (*with* Lukierski, Jerzy; Niederle, Jiří) Contractions yielding new supersymmetric extensions of the Poincaré algebra. **93h:17009**
Balantekin, A. B. (*with* Castaños, O.; Moshinsky, M.) Relations between the nuclear shell model Hamiltonian and the orthosymplectic superalgebra Osp(1|2). **93b:81307**
Balbinot, Roberto (*with* El Gradechi, Amine M.; Gazeau, Jean-Pierre; Giorgini, Bruno) Phase spaces for quantum elementary systems in anti-de Sitter and Minkowski space-times. **93j:81058**
Barut, Asim Orhan Dynamical symmetries of relativistic two- and many-body systems. **93c:81069**
Becerril, Ricardo *see* **Matos, Tonatiuh; et al., 93i:81140**
Bérard, Alain *see* **Charlier, Alphonse; et al., 93g:15018**
Berkovits, Nathan Lorentz-covariant Green-Schwarz superstring amplitudes. (English summary)
Bertrand, Jacqueline (*with* Bertrand, Pierre) A class of affine Wigner functions with extended covariance properties. **93k:81126a**
— (*with* Bertrand, Pierre) Erratum: "A class of affine Wigner functions with extended covariance properties". **93k:81126b**
Bertrand, Pierre *see* **Bertrand, Jacqueline, 93k:81126a** *and* **93k:81126b**
Blank, J. (*with* Havlíček, M.) On the tensor product of supersingleton representations of Lie superalgebras osp$(1, 2n)$. **93a:17002**
Blokhin, A. L. *see* **Filippov, G. F., 93b:81309** *and* **Avramenko, V. I., 93b:81310**
Bracken, Anthony J. *see* **Gould, M. D.; et al., 93g:81049**
Buccella, Franco (*with* Esposito, Giampiero; Miele, Gennaro) Spontaneously broken SU(5) symmetries and 1-loop effects in the early universe. **93b:81183**
Burdík, Č. (*with* Cummins, C. J.; Gaskell, R. W.; Sharp, R. T.) Complete branching rules generating function for SO(7) $\supset$ SU(2)^3 and polynomial basis states. (English summary) **93j:22036**
Castaños, O. Recent developments in the pseudo-symplectic model. (English summary) (*see* **93e:81150**)
— (*with* Moshinsky, M.; Quesne, C.) Transformations from U(3) to pseudo U(3) basis. (English summary) (*see* **93e:81150**)
— *see also* **Balantekin, A. B.; et al., 93b:81307**
Charlier, Alphonse (*with* Bérard, Alain; Charlier, Marie-France; Fristot, Danièle) ★ Tensors and the Clifford algebra. **93g:15018**
Charlier, Marie-France *see* **Charlier, Alphonse; et al., 93g:15018**
Colegrave, R. K. (*with* Croxson, P.) Constants of the motion and diagonalization of the Hamiltonian for some scattering processes. **93b:81317**
Croxson, P. *see* **Colegrave, R. K., 93b:81317**
Cui, Shi Min Dynamic Lie-algebra structure of a quantum system and the Aharonov-Anandan phase. (English summary) **93j:81012**
Cummins, C. J. *see* **Burdík, Č.; et al., 93j:22036**
(Draayer, J. P.) *see* **Group theory and special symmetries in nuclear physics, 93e:81150**
Drechsler, W. Quantized fiber dynamics for extended elementary objects involving gravitation. (English summary) **93j:81059**
Duval, C. (*with* Elhadad, J.) Geometric quantization and localization of relativistic spin systems. (English summary) **93i:81103**
Echave, Julián (*with* Fernández, Francisco M.) Baker-Campbell-Hausdorff relations for finite-dimensional Lie algebras. **93b:17062**
Elduque, Alberto (*with* Myung, Hyo Chul) Color algebras and affine connections on S^6. **93e:17008**
El Gradechi, Amine M. *see* **Balbinot, Roberto; et al., 93j:81058**
Elhadad, J. *see* **Duval, C., 93i:81103**
Ellzey, M. L., Jr. Expression of the SU(2) rotation matrices $D^{(J)}$ in terms of normalized irreducible tensorial matrices. **93d:22027**
Ernesti, A. (*with* Korsch, H. J.) Factorization relations and Wigner's rotation matrices. **93f:81163**
Esposito, Giampiero *see* **Buccella, Franco; et al., 93b:81183**
Fan, Hong Yi[1] The technique of inner integration for regular products and generalized quantum rotations. (Chinese. Chinese summary) **93g:81044**
Fässler, A. (*with* Stiefel, E.) ★ Group theoretical methods and their applications. **93a:20023**
Feigin, B. L. The conformal field theory from the view of the cohomology theory of the Lie algebras. **93b:17065**
Fernández, Francisco M. *see* **Echave, Julián, 93b:17062**
Filippov, G. F. (*with* Blokhin, A. L.) Effective Hamiltonian within the microscopic unitary nuclear model. I. Coherent-state restriction technique for microscopic Hamiltonian. **93b:81309**
Flath, Daniel E. (*with* Towber, Jacob) Tensor operators. II. The algebra of tensor operators. **93h:22038**
Foot, R. (*with* Joshi, G. C.) Symmetries of certain physical theories and the Jordan algebras. **93c:81169**
Fristot, Danièle *see* **Charlier, Alphonse; et al., 93g:15018**
Fritzsch, H. The spins inside the proton and chiral symmetry breaking. (*see* **93d:81005**)
Fröhlich, Jürg (*with* Gabbiani, F.; Marchetti, P. A.) Superselection structure and statistics in three-dimensional local quantum theory. **93c:81102**
Gabbiani, F. *see* **Fröhlich, Jürg; et al., 93c:81102**
Gadiyar, G. H. (*with* Sharatchandra, H. S.) The missing link: operators for labelling multiplicity in the Clebsch-Gordan series. **93e:22039**
Galetti, D. (*with* de Toledo Piza, A. F. R.) Discrete quantum phase spaces and the mod N invariance. (English summary) **93h:81070**
Gaskell, R. W. *see* **Burdík, Č.; et al., 93j:22036**
Gasperini, M. (*with* Maharana, Jnanadeva; Veneziano, G.) Boosting away singularities

from conformal string backgrounds. (English summary) **93k:81156**
Gazeau, Jean-Pierre (*with* Hussin, V.) Poincaré contraction of SU(1, 1) Fock-Bargmann structure. **93k:81128**
— *see also* **Balbinot, Roberto; et al., 93j:81058**
Giorgini, Bruno *see* **Balbinot, Roberto; et al., 93j:81058**
Görnitz, Thomas (*with* Graudenz, Dirk; von Weizsäcker, Carl-Friedrich) Quantum field theory of binary alternatives. (English summary) **93k:81016**
Gould, M. D. (*with* Links, J. R.; Bracken, Anthony J.) Matrix elements and Wigner coefficients for $U_q[\mathrm{gl}(n)]$. **93g:81049**
Graudenz, Dirk *see* **Görnitz, Thomas; et al., 93k:81016**
Grigore, D. R. Irreducible representations of the Poincaré group including inversions. **93d:22012**
— Manifest covariance condition in the Hamiltonian theory of relativistic strings. (English summary) **93g:81125**
Grosse, Harald (*with* Kummer, Wolfgang; Prešnajder, Peter; Schwarz, Dominik J.) Novel symmetry of non-Einsteinian gravity in two dimensions. (English summary) **93k:81204**
Gurarie, David ★ Symmetries and Laplacians. **93h:22012**
Hanlon, B. E. (*with* Joshi, G. C.) A three generation unified model from coset space-dimensional reduction. (English summary)
Hashimoto, Takashi (*with* Ogura, Kazunori; Okamoto, Kiyosato; Sawae, Ryuichi) Kirillov-Kostant theory and Feynman path integrals on coadjoint orbits of SU(2) and SU(1, 1). (English summary) **93j:58022**
Havlíček, M. *see* **Blank, J., 93a:17002**
(Hecht, K. T.) *see* **Group theory and special symmetries in nuclear physics, 93e:81150**
Horne, James H. Skein relations and Wilson loops. (English summary) **93i:57006**
Horwitz, L. P. Dynamical group of the relativistic Kepler problem. (English summary) **93j:70007**
— *see also* **Razon, A., 93h:46103**
Hussin, V. *see* **Gazeau, Jean-Pierre, 93k:81128**
Iwai, Toshihiro (*with* Uwano, Y.) The MIC-Kepler problem and its symmetry group for zero energy both in classical and quantum mechanics. **93b:70008**
Jagannathan, Ramaswamy *see* **Srinivasa Rao, K.; et al., 93m:33001**
(Jänecke, J.) *see* **Group theory and special symmetries in nuclear physics, 93e:81150**
Jannussis, A. *see* **Arigazin, A. K.; et al., 93j:17056**
Jevicki, Antal *see* **Avan, Jean, 93i:81183**
Joshi, G. C. *see* **Foot, R., 93c:81169** *and* **Hanlon, B. E.**
Judd, B. R. (*with* Lister, G. M. S.) Complementary groups in the quark model of the atom. **93d:81194**
Karasëv, V. P. Oscillator and other groups in optics. (Russian. Russian summary) **93f:81170**
Kashiwa, Tarō (*with* Seto, K.; Takahashi, Yasushi) Some results in Galilei-invariant field theories. (English summary) **93e:81143**
Kataoka, H. (*with* Munakata, H.; Sato, Hikaru; Tanaka, S.) Unique flipped SO(10) SUSY-GUT from Z orbifold. (English summary) **93f:81160**
Kerner, Richard Z_3-graded algebras and the cubic root of the supersymmetry translations. **93a:17030**
Kim, Y. S. (*with* Yeh, Leehwa) O(2, 1)-like little group for spacelike four-momenta and localized light waves in continuous media. (English summary) **93e:81154**
— (*with* Yeh, Leehwa) $E(2)$-symmetric two-mode sheared states. **93g:81216**
Klein, Abraham *see* **Zhang, Qing Ying, 93i:81302**
Koca, Mehmet E_8 lattice with octonions and icosians. **93d:17013**
Korsch, H. J. *see* **Ernesti, A., 93f:81163**
Krivskii, I. Yu. (*with* Simulik, V. M.) The Dirac equation and representations of spin 1, a connection with symmetries of the Maxwell equations. (Russian. English and Russian summaries) **93i:81078**
Kummer, Wolfgang *see* **Grosse, Harald; et al., 93k:81204**
Kuvshinov, V. I. (*with* Nguen V'en Tkho) Nonlinear chiral field Lagrangians in the vector parametrization of unitary groups. (Russian) **93e:81075**
Ky, Nguyen Anh (*with* Palev, Tchavdar D.; Stoilova, Nedjalka I.) Transformations of some induced osp(3/2) modules in an so(3) ⊕ sp(2) basis. **93b:17010**
Lam, C. S. *see* **Li, Z.-S., 93k:81212a** *and* **93k:81212b**
Landau, Lawrence J. Experimental tests of distributivity. (English summary) **93g:81008**
Leblanc, Martin (*with* Lozano, Gustavo; Min, Hyunsoo) Extended superconformal Galilean symmetry in Chern-Simons matter systems. (English summary) **93k:81234**
Leroy, J. P. (*with* Wallace, Robert; Rabitz, Herschel) A strategy to derive new internal coordinates by partitioning the internal configuration space according to invariance properties. (English summary) **93k:81269**
Li, Z.-S. (*with* Lam, C. S.) Minimal-rank models from nonabelian orbifolds. (English summary) **93k:81212a**
— (*with* Lam, C. S.) Errata: "Minimal-rank models from nonabelian orbifolds". **93k:81212b**
Links, J. R. *see* **Gould, M. D.; et al., 93g:81049**
Lister, G. M. S. *see* **Judd, B. R., 93d:81194**
Lomont, J. S. ★ Applications of finite groups. (English. English summary) **93k:20002**
Lopez, D. F. *see* **Arigazin, A. K.; et al., 93j:17056**
Louck, James D. Survey of zeros of $3j$ and $6j$ coefficients by Diophantine equation methods. (English summary) (*see* **93e:81150**)
Loyola, G. *see* **Moshinsky, M.; et al., 93f:81028**
Lozano, Gustavo *see* **Leblanc, Martin; et al., 93k:81234**
Lukierski, Jerzy *see* **de Azcárraga, J. A.; et al., 93h:17009**
Lyudkovskiĭ, S. V. Compact relationships between invariant classical Lie groups and sums of powers. (Russian. English summary) **93b:22023**
Macfarlane, A. J. (*with* Majid, Shahn) Spectrum generating quantum group of the harmonic oscillator. (English summary) **93m:81063**
Mackey, George W. ★ The scope and history of commutative and noncommutative harmonic analysis. **93g:22006**
Maekawa, Takayoshi Note on the unitary irreducible representations of U(n) in the scalar product with the nonintertwining operator. **93c:22025**
Maharana, Jnanadeva *see* **Gasperini, M.; et al., 93k:81156**
Majid, Shahn *see* **Macfarlane, A. J., 93m:81063**
Marchetti, P. A. *see* **Fröhlich, Jürg; et al., 93c:81102**
Matos, Tonatiuh (*with* Rodríguez, Guadalupe; Becerril, Ricardo) Exact solutions of SL(N, **R**)-invariant chiral equations: one- and two-dimensional subspaces. (English summary) **93i:81140**
Metsaev, R. R. S-matrix approach to massless higher spins theory. II. The case of internal symmetry. **93b:81303**
Miele, Gennaro *see* **Buccella, Franco; et al., 93b:81183**
Min, Hyunsoo *see* **Leblanc, Martin; et al., 93k:81234**
Moshinsky, M. (*with* Loyola, G.; Szczepaniak, A.) The two-body Dirac oscillator. (English summary) **93f:81028**
— (*with* del Sol Mesa, A.) Transformation from a U(3) to a pseudo U(3) basis of the matrix representation of a deformed Nilsson Hamiltonian. (English and Spanish summaries)
— *see also* **Balantekin, A. B.; et al., 93b:81307** *and* **Castaños, O.; et al., (93e:81150)**
Mukunda, N. *see* **Simon, Rajiah, 93j:58123**
Munakata, H. *see* **Kataoka, H.; et al., 93f:81160**
Myung, Hyo Chul *see* **Elduque, Alberto, 93e:17008**
Ne'eman, Yuval (*with* Sternberg, Shlomo) Internal supersymmetry and superconnections. **93b:58034**
Nelson, Jeanette (*with* Regge, T.) The mapping class group for genus 2. **93k:57036**
Neri, Filippo *see* **Rangarajan, Govindan, 93b:17025**
Nesterov, A. I. Quasigroup ideas in physics. (Russian. English summary) **93c:58234**
Nguen V'en Tkho *see* **Kuvshinov, V. I., 93e:81075**
Niederle, Jiří *see* **de Azcárraga, J. A.; et al., 93h:17009**
Nikitin, A. G. The complete set of symmetry operators of the Schrödinger equation. (Russian. Ukrainian summary) **93b:35122**
Nishioka, M. *see* **Arigazin, A. K.; et al., 93j:17056**
Ogura, Kazunori *see* **Hashimoto, Takashi; et al., 93j:58022**
Okamoto, Kiyosato *see* **Hashimoto, Takashi; et al., 93j:58022**
Palev, Tchavdar D. *see* **Ky, Nguyen Anh; et al., 93b:17010**
Parkhomenko, S. E. Extended superconformal current algebras and finite-dimensional Manin triples. (Russian) **93h:17063**
Prešnajder, Peter *see* **Grosse, Harald; et al., 93k:81204**
Quesne, C. *see* **Castaños, O.; et al., (93e:81150)**
Rabello, S. J. (*with* Vaidya, A. N.) Evaluation of Schwinger-de Witt kernels for spin-$\frac{1}{2}$ fields through the SO(2, 1) Lie algebra. (English summary) **93h:81095**
Rabitz, Herschel *see* **Leroy, J. P.; et al., 93k:81269**
Raghunathan, K. (*with* Seetharaman, M.; Vasan, S. S.; Agnes, J. Mary) A Baker-Campbell-Hausdorff disentanglement relation for Lie groups. **93a:22005**
Raĭchev, P. P. *see* **Roussev, R. P.; et al., 93d:81193**
Rajeswari, V. *see* **Srinivasa Rao, K.; et al., 93m:33001**
Rangarajan, Govindan (*with* Neri, Filippo) Canonical representations of sp($2n$, **R**). **93b:17025**
Raynal, J. *see* **Srinivasa Rao, K.; et al., 93m:33001**
Razon, A. (*with* Horwitz, L. P.) Uniqueness of the scalar product in the tensor product of quaternion Hilbert modules. (English summary) **93h:46103**
Regge, T. *see* **Nelson, Jeanette, 93k:57036**
Ren, Zhong Zhou Analytic solutions to Wigner hypermultiple states. (Chinese. Chinese summary)
Rodríguez, Guadalupe *see* **Matos, Tonatiuh; et al., 93i:81140**
Roussev, R. P. (*with* Raĭchev, P. P.; Smirnov, Yu. F.) Generating function for the interacting vector boson model. II. Invariant operators of IVBM. (Russian summary) **93d:81193**
Samokhvalov, S. E. Specification of connections in fiber bundles by the action of infinite Lie groups. (Russian. Ukrainian summary) **93i:53024**
Santilli, Ruggero Maria Isotopic liftings of Galilei's relativity for classical interior dynamical systems. **93i:70018**
Sarkar, Sarben Supercoherent states for the t-J model. **93a:81077**
Sato, Hikaru *see* **Kataoka, H.; et al., 93f:81160**
Sawae, Ryuichi *see* **Hashimoto, Takashi; et al., 93j:58022**
Scheid, Werner *see* **Zielke, Andreas, 93d:81185**
Schwarz, Dominik J. *see* **Grosse, Harald; et al., 93k:81204**
Seetharaman, M. *see* **Raghunathan, K.; et al., 93a:22005**
Seto, K. *see* **Kashiwa, Tarō; et al., 93e:81143**
Sharatchandra, H. S. *see* **Gadiyar, G. H., 93e:22039**
Sharp, R. T. *see* **Burdík, Č.; et al., 93j:22036**
Shirai, Koun The basis functions and the matrix representations of the single and double icosahedral point group. (English summary) **93m:20014**
Shirokov, I. V. Relativistic scalar equations for a particle with arbitrary spin. (Russian. Russian summary) **93j:81037**
Simon, Rajiah (*with* Mukunda, N.) Hamilton's turns and geometric phase for two-level systems. (English summary) **93j:58123**
Simulik, V. M. *see* **Krivskii, I. Yu., 93i:81078**
Sławianowska, Anna K. (*with* Sławianowski, Jan J.) Quantization of affinely rigid body in n-dimensions. (English summary) **93h:81067**
Sławianowski, Jan J. *see* **Sławianowska, Anna K., 93h:81067**
Smirnov, Yu. F. *see* **Roussev, R. P.; et al., 93d:81193**
del Sol Mesa, A. *see* **Moshinsky, M.**
Srinivasa Rao, K. (*with* Van der Jeugt, J.; Raynal, J.; Jagannathan, Ramaswamy; Rajeswari, V.) Group theoretical basis for the terminating ${}_3F_2(1)$ series. **93m:33001**
Sternberg, Shlomo *see* **Ne'eman, Yuval, 93b:58034**
Stiefel, E. *see* **Fässler, A., 93a:20023**
Stoilova, Nedjalka I. *see* **Ky, Nguyen Anh; et al., 93b:17010**
Szczepaniak, A. *see* **Moshinsky, M.; et al., 93f:81028**
Takagi, Shin Quantum dynamics and noninertial frames of reference. I. Generality. **93c:81034**
— Quantum dynamics and noninertial frames of reference. III. Charged particle in time-dependent uniform electromagnetic field. **93c:81036**
Takahashi, Yasushi *see* **Kashiwa, Tarō; et al., 93e:81143**
Tanaka, S. *see* **Kataoka, H.; et al., 93f:81160**

Tanimura, N. (*with* Tanimura, O.) Multifold group integral for SU(2) character and sum rule among 6-j symbols. (English summary) **93i:22017**
— (*with* Tanimura, O.) Recursion relations in U(N) integral in lattice QCD. (English summary) **93m:81156**
Tanimura, O. *see* **Tanimura, N., 93i:22017** *and* **93m:81156**
de Toledo Piza, A. F. R. *see* **Galetti, D., 93h:81070**
Towber, Jacob *see* **Flath, Daniel E., 93h:22038**
Turbiner, A. V. Lie algebras and polynomials in one variable. (English summary) **93k:17058**
Ungar, Abraham A. Quasidirect product groups and the Lorentz transformation group. **93d:22013**
Uwano, Y. *see* **Iwai, Toshihiro, 93b:70008**
Vaidya, A. N. *see* **Rabello, S. J., 93h:81095**
Van der Jeugt, J. Tensor product of group representations and structural zeros of Racah coefficients. **93d:22018**
— *see also* **Srinivasa Rao, K.; et al., 93m:33001**
Vasan, S. S. *see* **Raghunathan, K.; et al., 93a:22005**
Veljanoski, B. *see* **Arigazin, A. K.; et al., 93j:17056**
Veneziano, G. *see* **Gasperini, M.; et al., 93k:81156**
Vroegindeweij, P. G. Algebraic structures on space-time algebra. (English summary) **93k:83003**
Wallace, Robert *see* **Leroy, J. P.; et al., 93k:81269**
von Weizsäcker, Carl-Friedrich *see* **Görnitz, Thomas; et al., 93k:81016**
(Wong, Baoswan Dzung) *see* **Fässler, A., 93a:20023**
Wu, Yong Shi[1] Braid groups, anyons and gauge invariance. (English summary) (*see* **93f:81006**)
Wudka, J. Adiabatic phases and group theory. **93b:81062**
Wybourne, B. G. The representation space of the nuclear symplectic Sp(6, **R**) shell model. (English summary) **93g:81208**
Yeh, Leehwa *see* **Kim, Y. S., 93e:81154** *and* **93g:81216**
Zhang, Jian Zu New pure gauge-boson processes involving axigluons in chiral-color model. **93a:81210**
Zhang, Qing Ying (*with* Klein, Abraham) On the problem of analytic boson realizations of vacuum irrepresentations of an Sp(8) in the shell model algebra. (Chinese. English and Chinese summaries) **93i:81302**
Zielke, Andreas (*with* Scheid, Werner) Re-examination of the algebraic scattering theory. **93d:81185**

Items listed otherwise than by author

Ann Arbor, MI ★ Group theory and special symmetries in nuclear physics. **93e:81150**
Group theory and special symmetries in nuclear physics ★ Group theory and special symmetries in nuclear physics. **93e:81150**
Symposium:
Group Theory and Special Symmetries in Nuclear Physics ★ Group theory and special symmetries in nuclear physics. **93e:81150**

81R10 Representations of infinite-dimensional groups and algebras motivated by physics, including Virasoro, Kac-Moody and other current algebras [see also 17B65, 17B67, 22E65, 22E67, 22E70]

Ahn, Changhyun $c = 5/2$ free fermion model of WB_2 algebra. (English summary) **93h:81041**
Anzaldo-Meneses, A. Krichever-Novikov algebras on Riemann surfaces of genus zero and one with N punctures. (English summary) **93j:81025**
Apfeldorf, Karyn M. Hamiltonian reduction on the weight lattice. (English summary) **93j:81026**
Aratyn, Henrik (*with* Ferreira, L. A.; Gomes, J. F.; Zimerman, A. H.) A new deformation of W-infinity and applications to the two-loop WZNW and conformal affine Toda models. (English summary) **93j:81027**
Argyres, Philip C. (*with* Grochocinski, James M.; Tye, S.-H. Henry) Structure constants of the fractional supersymmetry chiral algebras. **93d:81064**
Awata, Hidetoshi (*with* Yamada, Yasuhiko) Fusion rules for the fractional level $\widehat{\mathrm{sl}(2)}$ algebra. **93i:81058**
Baaquie, Belal E. Functional-differential realization of the SU(2) Kac-Moody algebra. **93c:81061**
Bakas, Ioannis (*with* Kiritsis, Elias B.) Structure and representations of the W_∞ algebra. (English summary) **93g:81034**
— (*with* Kiritsis, Elias B.) Beyond the large N limit: nonlinear W_∞ as symmetry of the SL(2, **R**)/U(1) coset model. (English summary) **93m:81041**
— (*with* Kiritsis, Elias B.) Target space description of W_∞ symmetry in coset models. (English summary) **93m:81042**
Bars, Itzhak Noncompact current algebras and heterotic superstring vacua. **93d:81065**
— (*with* Sfetsos, Konstadinos) Hermitian symmetric spaces and free field topological theories. **93b:81088**
Batalin, I. A. (*with* Tyutin, I. V.) Existence theorem for the effective gauge algebra in the generalized canonical formalism with abelian conversion of second-class constraints. **93f:81046**
Bauer, Michel (*with* Di Francesco, Ph.; Itzykson, Claude; Zuber, J.-B.) Covariant differential equations and singular vectors in Virasoro representations. **93c:81062**
— (*with* Sochen, N.) Singular vectors by fusions in $A_1^{(1)}$. **93e:81035**
Bégin, L. (*with* Mathieu, Pierre; Walton, M. A.) $\hat{\mathrm{su}}(3)_k$ fusion coefficients. (English summary) **93j:81028**
Bellucci, Stefano (*with* Ivanov, Evgeniĭ Alekseevich[2]) Liouville realizations of W_∞-algebras. **93b:81089**
Bergshoeff, E. A. (*with* Boonstra, H. J.; de Roo, Mees) Realisations of W_3 symmetry. (English summary) **93i:81059**
Bilal, Adel (*with* Fok, V. V.; Kogan, Ya. I.) On the origin of W-algebras. **93b:81090**
— All W_3 algebras from SL(3) Chern-Simons theory. **93e:81036**
Blumenhagen, R. (*with* Flohr, M.; Kliem, A.; Nahm, Werner; Recknagel, A.; Varnhagen, R.) $\mathscr{W}$-algebras with two and three generators. **93a:81063**
— Covariant construction of $N = 1$ super W-algebras. (English summary) **93m:81043**
Boonstra, H. J. *see* **Bergshoeff, E. A.; et al., 93i:81059**
Bougourzi, A. H. Null states of the fractional $\mathrm{SL}(2)_k$ current algebra via the free field approach. (English summary) **93d:81066**
Bougourzi, H. A. (*with* Kikuchi, Yukio) Bernstein-Gel'fand-Gel'fand resolution of W_3 algebra in the lattice approach. **93c:81063**
Bourdeau, Michelle Hilda (*with* Mlawer, Eli J.; Riggs, Harold; Schnitzer, Howard J.) Topological Landau-Ginzburg matter from $\mathrm{Sp}(N)_K$ fusion rings. **93e:81037**
Bowcock, P. Exceptional superconformal algebras. (English summary) **93h:81042**
Carmelo, J. M. P. (*with* Castro Neto, A. H.) Dynamical decoupling and Kac-Moody current representation in multicomponent integrable systems. (English summary) **93k:81076**
Castro Neto, A. H. *see* **Carmelo, J. M. P., 93k:81076**
Chao, Lin *see* **Hou, Bo Yu, 93k:81080**
Cho, Y. M. Gauge theory of the Virasoro group. **93h:81043**
— (*with* Zoh, S. W.) Gauge theory of Virasoro-Kac-Moody group. (English summary) **93g:81035**
— (*with* Zoh, S. W.) Virasoro invariance and theory of internal string. (English summary) **93j:81029**
Cohen, Ron Chiral algebras—two examples. **93b:81091**
Curtright, Thomas Quantum Bäcklund transformations and conformal algebras. **93c:81064**
Das, Ashok (*with* Huang, Wen-Jui; Roy, Shibaji) Zero curvature condition and 2D gravity theories. **93d:81067**
Daumens, M. (*with* Minnaert, Pierre; Mozrzymas, Marek; Toshev, S.) Regge symmetries of super 6-j symbols for the superalgebra osp(1|2). (English summary) **93m:81044**
Defever, Filip (*with* Troost, W.; Hasiewicz, Zbigniew) Superconformal algebras with $N =$ 5, 6, 7, 8. I, II. **93c:81065**
Delduc, François (*with* Ragoucy, E.; Sorba, P.) Towards a classification of W algebras arising from nonabelian Toda theories. **93i:81060**
Dereli, T. (*with* Verçin, A.) A physical realisation of the super-sine algebra. (English summary) **93h:81044**
Di Francesco, Ph. *see* **Bauer, Michel; et al., 93c:81062**
Dorey, Patrick E. Root systems and purely elastic S-matrices. **93b:81092**
Eholzer, W. (*with* Flohr, M.; Honecker, A.; Hübel, R.; Nahm, Werner; Varnhagen, R.) Representations of W-algebras with two generators and new rational models. (English summary) **93i:81061**
Ferreira, L. A. (*with* Gomes, J. F.; Zimerman, A. H.) Jordan algebras in conformal field theories. **93g:81036**
— (*with* Gomes, J. F.; Zimerman, A. H.; Schwimmer, Adam) Comments on two-loop Kac-Moody algebras. **93b:81093**
— *see also* **Aratyn, Henrik; et al., 93j:81027**
Ferretti, G. (*with* Rajeev, S. G.) Current algebra in three dimensions. (English summary) **93e:81038**
Figueroa-O'Farrill, José M. (*with* Schrans, Stany) The conformal bootstrap and super W algebras. **93b:81094**
Finkelstein, Robert J. Modular invariance of the propagator of an extended particle. **93a:81064**
Flohr, M. *see* **Blumenhagen, R.; et al., 93a:81063** *and* **Eholzer, W.; et al., 93i:81061**
Fok, V. V. *see* **Bilal, Adel; et al., 93b:81090**
Fradkin, E. S. (*with* Linetskiĭ, V. Ya.) Higher spin symmetry in lower dimensions. (*see* **93g:81003**)
— (*with* Linetskiĭ, V. Ya.) Results of the classification of superconformal algebras in two dimensions. **93e:81039**
Fuchs, Jürgen Quantum dimensions. (English summary) **93k:81077**
— (*with* Klemm, Albrecht; Schmidt, Michael G.; Verstegen, Dirk) New exceptional $(A_1^{(1)})^{\oplus r}$ invariants and the associated Gepner models. **93i:81062**
Fuchssteiner, Benno An alternative dynamical description of quantum systems. **93k:81078**
Fukuma, Masafumi (*with* Kawai, Hikaru; Nakayama, Ryuichi) Infinite-dimensional Grassmannian structure of two-dimensional quantum gravity. **93j:81030**
Ganchev, Alexander Ch. (*with* Petkova, Valentina B.) Reduction of the Knizhnik-Zamolodchikov equation. A way of producing Virasoro singular vectors. (English summary) **93i:81063**
Gervais, Jean-Loup (*with* Matsuo, Yutaka) W-geometries. **93d:81068**
Giveon, Amit (*with* Halpern, M. B.; Kiritsis, Elias B.; Obers, N. A.) Exact C-function and C-theorem on affine-Virasoro space. **93d:81069**
Goldin, Gerald A. The diffeomorphism group approach to nonlinear quantum systems. (English summary) **93i:81064**
Gomes, J. F. *see* **Ferreira, L. A.; et al., 93b:81093**; **93g:81036** *and* **Aratyn, Henrik; et al., 93j:81027**
Gorskiĭ, A. S. (*with* Selivanov, K. G.) On affine Virasoro constructions for SL(2, **R**) current algebra. (English summary) **93i:81065**
Griffin, Paul A. (*with* Hernández, Oscar F.) Structure of irreducible SU(2) parafermion modules derived via the Feigin-Fuchs construction. **93d:81070**
Grochocinski, James M. *see* **Argyres, Philip C.; et al., 93d:81064**
Günaydin, Murat (*with* Hyun, Seungjoon) Ternary algebraic approach to extended superconformal algebras. **93b:81095**
Halpern, M. B. (*with* Obers, N. A.) Magic bases, metric ansätze and generalized graph theories in the Virasoro master equation. **93d:81071**
— (*with* Obers, N. A.) New superconformal constructions on triangle-free graphs. (English summary) **93k:81079**
— *see also* **Giveon, Amit; et al., 93d:81069**
Hasiewicz, Zbigniew *see* **Defever, Filip; et al., 93c:81065**
Hernández, Oscar F. *see* **Griffin, Paul A., 93d:81070**
Honecker, A. *see* **Eholzer, W.; et al., 93i:81061**
Hoppe, Jens New symmetries in 2 + 1 dimensions. (*see* **93g:81003**)
— Infinite-dimensional algebras and (2 + 1)-dimensional field theories: yet another view of gl(∞); some new algebras. (*see* **92f:00024**)
— $(2n + 1)$-dimensional integrable field theories. (*see* **93f:81005**)

Hornfeck, K. The minimal supersymmetric extension of WA_{n-1}. **93d:81072**
Hou, Bo Yu (*with* Chao, Liu) Conformally reduced WZNW theory, new extended chiral algebras and their associated Toda type integrable systems. (English summary) **93k:81080**
Huang, Wen-Jui *see* **Das, Ashok; et al., 93d:81067**
Huang, Yi Zhi Vertex operator algebras and conformal field theory. **93h:81045**
Hübel, R. *see* **Eholzer, W.; et al., 93i:81061**
Hull, C. M. (*with* Palacios, L.) Singular contractions of W-algebras. (English summary) **93i:81066**
Hyun, Seungjoon *see* **Günaydin, Murat, 93b:81095**
Ito, Katsushi Quantum Hamiltonian reduction and WB algebra. (English summary) **93i:81067**
— (*with* Madsen, Jens Ole; Petersen, Jens Lyng) Free-field representations and screening operators for the $N = 4$ doubly extended superconformal algebras. (English summary) **93i:81068**
Itzykson, Claude *see* **Bauer, Michel; et al., 93c:81062**
Ivanov, Evgenii Alekseevich² (*with* Krivonos, S. O.) Superfield realizations of $N = 2$ super-W_3. (English summary) **93e:81040**
— *see also* **Bellucci, Stefano, 93b:81089**
Kashaev, R. M. (*with* Osipov, A. A.) Extension of the Krichever-Novikov algebra in the theory of a closed string. (Russian) (*see* **93d:58002**)
Kausch, H. G. (*with* Watts, G. M. T.) Quantum Toda theory and the Casimir algebra of B_2 and C_2. (English summary) **93m:81045**
Kawai, Hikaru *see* **Fukuma, Masafumi; et al., 93j:81030**
Kikuchi, Yukio *see* **Bougourzi, H. A., 93c:81063**
Kimura, Kazuhiro Hamiltonian reduction of super OSp(1, 2) and SL(2, 1) Kac-Moody algebras. (English summary) **93j:81031**
Kiritsis, Elias B. *see* **Giveon, Amit; et al., 93d:81069**; **Bakas, Ioannis, 93g:81034**; **93m:81041** *and* **93m:81042**
Klemm, Albrecht *see* **Fuchs, Jürgen; et al., 93i:81062**
Kliem, A. *see* **Blumenhagen, R.; et al., 93a:81063**
Kogan, Ya. I. *see* **Bilal, Adel; et al., 93b:81090**
Koibuchi, Hiroshi Virasoro algebra in the KN algebra: bosonic string with fermionic ghosts on Riemann surfaces. **93c:81066**
Konisi, Gaku (*with* Saito, Takesi; Takahasi, Wataru) Super Schwarzian connections in Krichever-Novikov superalgebras. **93a:81065**
Konno, Hitoshi Construction of screened multiloop operator for $su(2)_k$ Kac-Moody algebra. **93i:81069**
Krivonos, S. O. *see* **Ivanov, Evgenii Alekseevich², 93e:81040**
Langmann, Edwin On Schwinger terms in $(3 + 1)$ dimensions. **93b:81096**
Leznov, A. N. Toda lattices in classical and quantum regions. (*see* **93f:81005**)
Linetskii, V. Ya. *see* **Fradkin, E. S., 93e:81039** *and* (**93g:81003**)
Liu, Yi Min The relation between the representations of SU(2) Kac-Moody algebra and those of the Virasoro algebra and modular invariance. (Chinese. Chinese summary) **93i:81070**
Lu, H. (*with* Pope, C. N.) On realisations of W algebras. (English summary) **93g:81037**
Madsen, Jens Ole *see* **Ito, Katsushi; et al., 93i:81068**
Mathieu, Pierre (*with* Walton, M. A.) Fractional-level Kac-Moody algebras and nonunitary coset conformal theories. (English summary) **93j:81032**
— (*with* Sénéchal, David; Walton, M. A.) Field identification in nonunitary diagonal cosets. (English summary) **93i:81071**
— *see also* **Bégin, L.; et al., 93j:81028**
Matsuda, Satoshi¹ Coulomb gas representations and screening operators of the $N = 4$ superconformal algebras. **93a:81066**
Matsuo, Yutaka *see* **Gervais, Jean-Loup, 93d:81068**
Minnaert, Pierre *see* **Daumens, M.; et al., 93m:81044**
Mlawer, Eli J. *see* **Bourdeau, Michelle Hilda; et al., 93e:81037**
Mozrzymas, Marek *see* **Daumens, M.; et al., 93m:81044**
Nahm, Werner Algebras of two-dimensional chiral fields and their classification. **93c:81067**
— *see also* **Blumenhagen, R.; et al., 93a:81063** *and* **Eholzer, W.; et al., 93i:81061**
Nakayama, Ryuichi *see* **Fukuma, Masafumi; et al., 93j:81030**
Niedermaier, Max R. Infinite abelian subalgebra of $W(\mathrm{sl}(n))$. **93a:81067**
— Irrational free field resolutions for $W(\mathrm{sl}(n))$ and extended Sugawara construction. (English summary) **93h:81046**
Nohara, Hiroshi Extended superconformal algebra as symmetry of super Toda field theory. **93m:81046**
Nuyts, Jean Some properties of the Virasoro and of some Krichever-Novikov algebras. **93g:81038**
Obers, N. A. *see* **Giveon, Amit; et al., 93d:81069**; **Halpern, M. B., 93d:81071** *and* **93k:81079**
Okubo, Susumu Kac-Moody and new infinite-dimensional Lie algebras. **93d:81073**
O'Raifeartaigh, Lochlainn W-algebras and the embedding of Toda theories in WZNW theories. (English summary) (*see* **93f:81005**)
— (*with* Ruelle, Philippe; Tsutsui, Izumi; Wipf, Andreas) W-algebras for generalized Toda theories. **93b:81097**
Osipov, A. A. *see* **Kashaev, R. M., (93d:58002)**
Palacios, L. *see* **Hull, C. M., 93i:81066**
Petersen, Jens Lyng *see* **Ito, Katsushi; et al., 93i:81068**
Petkova, Valentina B. *see* **Ganchev, Alexander Ch., 93i:81063**
Pope, C. N. (*with* Romans, L. J.) Area-preserving algebras and membrane topology. (*see* **93g:81003**)
— (*with* Shen, Xiang; Xu, K. W.; Yuan, Ka Jia) SL(∞, **R**) symmetry of quantum W_∞ gravity. **93g:81039**
— *see also* **Lu, H., 93g:81037**
Radul, A. *see* **Vaisburd, I. D., 93d:81074**
Ragoucy, E. *see* **Delduc, François; et al., 93i:81060**
Rajeev, S. G. *see* **Ferretti, G., 93e:81038**
Ray, Koushik *see* **Roy Chowdhury, A., 93j:81033**
Recknagel, A. *see* **Blumenhagen, R.; et al., 93a:81063**
Riggs, Harold *see* **Bourdeau, Michelle Hilda; et al., 93e:81037**
Romans, L. J. *see* **Pope, C. N., (93g:81003)**
de Roo, Mees *see* **Bergshoeff, E. A.; et al., 93i:81059**
Roy, Shibaji *see* **Das, Ashok; et al., 93d:81067**
Roy Chowdhury, A. (*with* Ray, Koushik) Zero curvature equation, gauge invariance, conformal and superconformal algebra. (English summary) **93j:81033**
Ruelle, Philippe *see* **O'Raifeartaigh, Lochlainn; et al., 93b:81097**
Saidi, E. H. (*with* Zakkari, M.) The generating functional of higher conformal spin extensions of the Virasoro algebra. **93j:81034**
— (*with* Zakkari, M.) Virasoro algebra from harmonic superspace. **93c:81068**
Saito, Takesi *see* **Konisi, Gaku; et al., 93a:81065**
Saleur, H. Virasoro and Temperley Lieb algebras. **93f:81047**
Sathiapalan, B. Loop variables and the Virasoro algebra. **93i:81072**
Schmidt, Michael G. *see* **Fuchs, Jürgen; et al., 93i:81062**
Schnitzer, Howard J. *see* **Bourdeau, Michelle Hilda; et al., 93e:81037**
Schrans, Stany *see* **Figueroa-O'Farrill, José M., 93b:81094**
Schütz, G. A new approach to the calculation of the central charge. **93a:81068**
Schwimmer, Adam *see* **Ferreira, L. A.; et al., 93b:81093**
Selivanov, K. G. *see* **Gorskii, A. S., 93i:81065**
Semenov, V. V. Multidimensional generalized superalgebras. **93g:81040**
Sénéchal, David *see* **Mathieu, Pierre; et al., 93i:81071**
Sezgin, Ergin Geometry of superspace Kac-Moody algebras. (*see* **93g:81003**)
Sfetsos, Konstadinos *see* **Bars, Itzhak, 93b:81088**
Shen, Xiang W infinity and string theory. (English summary) **93i:81073**
— (*with* Wang, X.-J.) Bosonisation of the complex-boson realisations of W_∞. **93i:81074**
— *see also* **Pope, C. N.; et al., 93g:81039**
Sochen, N. *see* **Bauer, Michel, 93e:81035**
Sorba, P. *see* **Delduc, François; et al., 93i:81060**
Stelle, K. S. w_∞-geometry and w_∞-gravity. **93e:81041**
Takahasi, Wataru *see* **Konisi, Gaku; et al., 93a:81065**
Tjin, T. Finite W-algebras. (English summary) **93j:81035**
Toshev, S. *see* **Daumens, M.; et al., 93m:81044**
Toyota, N. On algebraic structures of topological gravity. **93b:81098**
Troost, W. *see* **Defever, Filip; et al., 93c:81065**
Tsukada, Haruo Shifted vertex operator algebras and G-elliptic systems. **93h:81047**
Tsutsui, Izumi *see* **O'Raifeartaigh, Lochlainn; et al., 93b:81097**
Tye, S.-H. Henry *see* **Argyres, Philip C.; et al., 93d:81064**
Tyutin, I. V. *see* **Batalin, I. A., 93f:81046**
Vaisburd, I. D. (*with* Radul, A.) Differential operators and W-algebra. **93d:81074**
Varnhagen, R. *see* **Blumenhagen, R.; et al., 93a:81063** *and* **Eholzer, W.; et al., 93i:81061**
Verçin, A. *see* **Dereli, T., 93h:81044**
Verstegen, Dirk *see* **Fuchs, Jürgen; et al., 93i:81062**
Walton, M. A. *see* **Mathieu, Pierre; et al., 93i:81071**; **Bégin, L.; et al., 93j:81028** *and* **Mathieu, Pierre, 93j:81032**
Wang, X.-J. *see* **Shen, Xiang, 93i:81074**
Watts, G. M. T. *see* **Kausch, H. G., 93m:81045**
Wipf, Andreas *see* **O'Raifeartaigh, Lochlainn; et al., 93b:81097**
Wu, Yong Shi¹ *see* **Yu, Feng, 93i:81075a**; **93i:81075b** *and* **93m:81047**
Xu, K. W. *see* **Pope, C. N.; et al., 93g:81039**
Yamada, Yasuhiko *see* **Awata, Hidetoshi, 93i:81058**
Yu, Feng The super KP origin of the super $W_{1+\infty}$ algebra and its topological version. **93h:81048**
— (*with* Wu, Yong Shi¹) An infinite number of commuting quantum $\widehat{W}_\infty$ charges in the SL(2, **R**)/U(1) coset model. (English summary) **93m:81047**
— (*with* Wu, Yong Shi¹) Nonlinear $\widehat{W}_\infty$ current algebra in the SL(2, **R**)/U(1) coset model. **93i:81075a**
— (*with* Wu, Yong Shi¹) Errata: "Nonlinear $\widehat{W}_\infty$ current algebra in the SL(2, **R**)/U(1) coset model". **93i:81075b**
Yuan, Ka Jia *see* **Pope, C. N.; et al., 93g:81039**
Yur'ev, D. V. The algebra Vert(Cvir, c) of vertex operators for the Virasoro algebra. (Russian) **93d:81075**
— Noncommutative geometry, chiral anomaly in the quantum projective [sl(2, **C**)-invariant] field theory and jl(2, **C**)-invariance. **93e:81042**
— On the representation of operator algebras of the quantum conformal field theory. **93i:81076**
Zachos, Cosmas Hamiltonian flows, SU(∞), SO(∞), USp(∞), and strings. **93d:81076**
Zakkari, M. *see* **Saidi, E. H., 93c:81068** *and* **93j:81034**
Zhang, Yao Zhong On classical exchange algebra of the affine (two-loop) WZNW model. (English summary) **93k:81081**
Zimerman, A. H. *see* **Ferreira, L. A.; et al., 93b:81093**; **93g:81036** *and* **Aratyn, Henrik; et al., 93j:81027**
Zoh, S. W. *see* **Cho, Y. M., 93g:81035** *and* **93j:81029**
Zuber, J.-B. *see* **Bauer, Michel; et al., 93c:81062**

Items with secondary classifications in 81R10

Abdalla, Elcio (*with* Forger, M.) Current algebra of WZNW models at and away from criticality. (English summary) **93g:81136**
Aharony, O. (*with* Sonnenschein, Jacob; Yankielowicz, Shimon) G/G models and W_N strings. (English summary) **93g:81137**
Ahn, Changrim (*with* Chung, Stephen-wei; Tye, S.-H. Henry) New parafermion, SU(2) coset and $N = 2$ superconformal field theories. **93a:81162**
— (*with* Shigemoto, Kazuyasu) One-point functions of loops and constraint equations of the multi-matrix models at finite N. **93d:81146**
Alekseev, A. Yu. (*with* Faddeev, L. D.; Semenov-Tyan-Shanskii, M. A.) Hidden quantum groups inside Kac-Moody algebra. (English summary) **93j:17017**
Ali, Abbas (*with* Kumar, Alok²; Maharana, Jnanadeva; Sengupta, Gautam) Algebraic structure of topological superconformal field theory on Riemann surfaces. (English summary) **93f:81123**
Alvarez, Orlando (*with* Singer, I. M.; Windey, Paul) The supersymmetric σ-model and the geometry of the Weyl-Kac character formula. **93f:58224**
Alvarez-Gaumé, Luis (*with* Zaugg, Ph.) Structure constants in the $N = 1$ superoperator algebra. **93b:81235**

Andreev, O. D. Modular invariant one-point correlation functions for SU(2) Wess-Zumino model. (English summary) **93i:81204**

Aoki, Kenichiro (*with* Montano, David; Sonnenschein, Jacob) The role of the contact algebra in multimatrix models. **93f:81125**

Aratyn, Henrik A geometric approach to the string BRS cohomology. **93h:81141**

— (*with* Constantinidis, C. P.; Ferreira, L. A.; Gomes, J. F.; Zimerman, A. H.) Higher spin symmetries and w_∞ algebra in the conformal affine Toda model. **93b:81238**

Askeri, V. M. (*with* Bugrii, A. I.; Shadura, V. N.) The effect of boundary conditions on the operator content of the two-dimensional Ising model: the results of an exact solution. (Russian. English, Russian and Ukrainian summaries) **93i:82010**

Asorey, Manuel Conformal invariance in quantum field theory and statistical mechanics. **93c:81002**

Avan, Jean (*with* Jevicki, Antal) Classical integrability and higher symmetries of collective string field theory. **93e:58078**

— Generalized Toda and Volterra models. (English summary) **93i:81205**

— (*with* Jevicki, Antal) String field actions from W_∞. **93a:81148**

Awata, Hidetoshi (*with* Tsuchiya, Akihiro; Yamada, Yasuhiko) Integral formulas for the WZNW correlation functions. **93h:81105**

— (*with* Yamada, Yasuhiko) Fusion rules for the q-vertex operators of $U_q(\widehat{\mathrm{sl}(2)})$. (English summary) **93j:17020**

Baaquie, Belal E. Path integral derivation of the U(1) Kac-Moody characters and of the Weyl-Kac denominator. **93h:17055**

Bailin, David (*with* Dunbar, David C.; Love, Alex) Generations in irreducible $N = 2$ superconformal coset theories. **93e:81089**

Bajnok, Z. (*with* Palla, L.; Takács, G.) A_2 Toda theory in reduced WZNW framework and the representations of the W-algebra. (English summary) **93k:81189**

Bakas, Ioannis Area-preserving diffeomorphisms and higher spin fields in two dimensions. (*see* **93g:81003**)

— (*with* Depireux, Didier A.) The origin of gauge symmetries in integrable systems of the KdV type. **93b:58061**

Balachandran, A. P. (*with* Bimonte, G.; Gupta, K. S.; Stern, Allen Bruce) Conformal edge currents in Chern-Simons theories. (English summary) **93i:81130**

Balog, J. (*with* Dąbrowski, Ludwik; Fehér, László) Nonstandard quantum group in Toda and WZNW theories. (English summary) (*see* **93f:81005**)

Banerjee, Rabin (*with* Ghosh, Subir) Algebraic approach to anomalous sigma models. **93d:81109**

Baranowski, D. (*with* Rittenberg, Vladimir; Schütz, G.) Higher symmetries in the spin-one Zamolodchikov-Fateev Hamiltonian with a finite number of sites and toroidal boundary conditions. Spectra and operator content of $N = 1$ superconformal systems. **93c:81192**

Barcelos-Neto, J. (*with* Das, Ashok; Panda, Sudhakar; Roy, Shibaji) The zero curvature formulation of the KP and the sKP equations. **93j:58057**

Bardakci, Korkut The classical parafermion algebra, its generalization and its quantization. **93a:81164**

Belov, A. A. (*with* Lozovik, Yu. E.) Renormalization-group flux on an affine-Virasoro space in connection with sporadic conformal deformations. (Russian) **93c:81193**

— (*with* Lozovik, Yu. E.) Deformations of conformal field theories with extended symmetries. (Russian) **93a:81165**

— (*with* Lozovik, Yu. E.) Exact solution of the renormalization-group equations for the two-dimensional chiral field theory. (Russian) **93f:81126**

Bergshoeff, E. A. (*with* Bilal, Adel; Stelle, K. S.) W symmetries: gauging and geometry. **93b:81240**

— (*with* de Roo, Mees) $N = 2$ w_∞ supergravity. **93i:81209**

Bespalov, Yu. N. Selfadjoint representations of Sklyanin algebras. (Russian. Ukrainian summary) **93e:16053**

Bieńkowska, Jadwiga The generalized no-ghost theorem for $N = 2$ SUSY critical strings. **93d:81136**

Bilal, Adel *see* **Bergshoeff, E. A.; et al., 93b:81240**

Bimonte, G. (*with* Salomonson, P.; Simoni, A.; Stern, Allen Bruce) Poisson bracket algebra for chiral group elements in the WZNW model. (English summary) **93k:81192**

— *see also* **Balachandran, A. P.; et al., 93i:81130**

Blasi, Alberto (*with* Collina, R.) The Chern-Simons model with boundary: a cohomological approach. **93d:81110**

Bonora, L. (*with* Rinaldi, Maurizio; Russo, Jorge G.) Algebras of the Virasoro, Neveu-Schwarz, and Ramond types on genus g Riemann surfaces. (*see* **93e:81005**)

Bougourzi, A. H. (*with* Ho-Kim, Q.; Kikuchi, Yukio; Lam, C. S.) Screening currents in free-field representations of Kac-Moody algebras. **93a:17025**

Bouwknegt, Peter (*with* McCarthy, James G.; Pilch, Krzysztof) BRST analysis of physical states for 2D gravity coupled to $c \leq 1$ matter. **93h:81143**

Bowcock, P. (*with* Watts, G. M. T.) On the classification of quantum W-algebras. **93k:17026**

Braden, H. W. (*with* Corrigan, E.; Dorey, Patrick E.; Sasaki, Ryu) Aspects of affine Toda field theory. **93h:81110**

Buchholz, Detlev (*with* Mack, Gerhard; Todorov, Ivan T.) Localized automorphisms of the U(1)-current algebra on the circle: an instructive example. (*see* **93i:81122**)

Bugrii, A. I. *see* **Askeri, V. M.; et al., 93i:82010**

Castro, Carlos The spinning membrane, super-SU(∞)-gauge theories and Moyal brackets. **93d:81137**

Chakrabarti, Ranabir (*with* Jagannathan, Ramaswamy) A (p, q)-deformed Virasoro algebra. **93e:17040**

Chang, Darwin (*with* Phillips, I.; Rozansky, L.) R-matrix approach to quantum superalgebras $\mathrm{su}_q(m|n)$. (English summary) **93i:81091**

Chao, Liu (*with* Hou, Bo Yu) A_N W-algebras and classification. (English summary) **93i:17028**

Chekhov, L. (*with* Makeenko, Yu. M.) The multicritical Kontsevich-Penner model. **93i:81176**

Chen, Yi Xin (*with* Gao, Hong Bo) Classical exchange algebra in Liouville theory on a Riemann surface. **93e:32025**

Cheng, Yi Xin Schwinger-Dyson loop equations for the multi-matrix chain model at finite N. (English summary) **93f:81131**

Cho, Y. M. (*with* Zoh, S. W.) Explicit construction of massive spin-two fields in Kaluza-Klein theory. (English summary) **93f:81095**

Chu, Meifang (*with* Goddard, Peter; Halliday, Ian; Olive, David; Schwimmer, Adam) Quantization of the Wess-Zumino-Witten model on a circle. **93c:81199**

Chung, Stephen-wei (*with* Lyman, Edwin; Tye, S.-H. Henry) Fractional supersymmetry and minimal coset models in conformal field theory. **93d:81152**

— *see also* **Ahn, Changrim; et al., 93a:81162**

Cleaver, Gerald B. (*with* Lewellen, David C.) On modular invariant partition functions for tensor product of conformal field theories. (English summary) **93m:81126**

Collina, R. *see* **Blasi, Alberto, 93d:81110**

Constantinidis, C. P. *see* **Aratyn, Henrik; et al., 93b:81238**

Cornwell, J. F. The conjugacy classes of the involutive automorphisms of affine Kac-Moody algebra $A_2^{(1)}$. **93h:17059**

— Involutive automorphisms of the affine Kac-Moody algebras $A_l^{(1)}$ for $l \geq 3$ by the matrix method. **93h:17060**

Corrigan, E. *see* **Braden, H. W.; et al., 93h:81110**

Dąbrowski, Ludwik *see* **Balog, J.; et al., (93f:81005)**

Das, Ashok *see* **Barcelos-Neto, J.; et al., 93j:58057**

Daskaloyannis, C. Generalized deformed Virasoro algebras. **93b:81110**

Deck, Thomas *see* **Ruffing, Andreas; et al., 93j:17054**

Degasperis, A. (*with* Lebedev, D. R.; Ol'shanetskiĭ, M. A.; Pakulyak, S. Z.; Perelomov, A. M.; Santini, Paolo Maria) Generalized intermediate long-wave hierarchy in zero-curvature representation with noncommutative spectral parameter. (English summary) **93i:58071**

Deguchi, Tetsuo (*with* Fujii, Akira) IRF models associated with representations of the Lie superalgebras $\mathrm{gl}(m|n)$ and $\mathrm{sl}(m|n)$. **93a:82017**

Delius, G. W. (*with* Grisaru, M. T.; Zanon, D.) Exact S-matrices for non-simply-laced affine Toda theories. (English summary) **93i:81221**

— (*with* Grisaru, M. T.; Zanon, D.) Quantum conserved currents in affine Toda theories. (English summary) **93k:81198**

Depireux, Didier A. (*with* Mathieu, Pierre) On the classical $W_N^{(l)}$ algebras. (English summary) **93j:58060**

— A note on the KP hierarchy. **93d:58066**

— *see also* **Bakas, Ioannis, 93b:58061**

Dhar, Avinash (*with* Mandal, Gautam; Wadia, Spenta R.) Nonrelativistic fermions, coadjoint orbits of W_∞ and string field theory at $c = 1$. (English summary) **93f:81105**

Di Francesco, Ph. (*with* Itzykson, Claude; Zuber, J.-B.) Classical W-algebras. **93e:17041**

Dorey, Patrick E. Root systems and purely elastic S-matrices. II. **93d:81154**

— Partition functions, intertwiners and the Coxeter element. (English summary) **93j:82020**

— *see also* **Braden, H. W.; et al., 93h:81110**

van Driel, Peter On a new hierarchy associated with the $W_3^{(2)}$ conformal algebra. **93i:58072**

Dunbar, David C. *see* **Bailin, David; et al., 93e:81089**

Durand, Stéphane Fractional superspace formulation of generalized super-Virasoro algebras. (English summary) **93k:17053**

Eguchi, Tohru (*with* Kawai, Toshiya; Mizoguchi, Shun'ya; Yang, Sung-Kil) Character formulas for coset $N = 2$ superconformal theories. (English summary) **93k:81199**

— (*with* Kanno, Hiroaki; Yang, Sung-Kil) W_∞ algebra in a two-dimensional black hole. (English summary) **93k:81200**

Ellis, Jonathan Richard (*with* Mavromatos, N. E.; Nanopoulos, D. V.) The origin of space-time as W-symmetry breaking in string theory. (English summary) **93e:81105**

Evans, Jonathan M. (*with* Hollowood, Timothy J.) Integrable $N = 2$ supersymmetric field theories. (English summary) **93i:81270**

Faddeev, L. D. *see* **Alekseev, A. Yu.; et al., 93j:17017**

Fairlie, David B. (*with* Fletcher, Paul) Infinite-dimensional algebras, a trigonometric basis for the classical Lie algebras, and SU(∞). (*see* **93g:81003**)

Fehér, László (*with* O'Raifeartaigh, Lochlainn; Ruelle, Philippe; Tsutsui, Izumi; Wipf, Andreas) On Hamiltonian reductions of the Wess-Zumino-Novikov-Witten theories. (English summary) **93i:81225**

— *see also* **Tsutsui, Izumi, 93k:81224** *and* **Balog, J.; et al., (93f:81005)**

Feigin, B. L. Conformal field theory and cohomologies of the Lie algebra of holomorphic vector fields on a complex curve. **93e:17033**

— Differential operators on the moduli space of G-bundles on algebraic curve and Lie algebra cohomologies. **93g:17038**

— (*with* Frenkel, Edward) Affine Kac-Moody algebras at the critical level and Gel'fand-Dikiĭ algebras. (English summary) **93j:17049**

— (*with* Frenkel, Edward) Erratum: "Semi-infinite Weil complex and the Virasoro algebra" [Comm. Math. Phys. **137** (1991), no. 3, 617–639; MR 92h:17028]. **93d:17031**

— (*with* Frenkel, Edward) Free field resolutions in affine Toda field theories. **93e:81106**

Felder, G. (*with* Silvotti, R.) Conformal blocks of minimal models on a Riemann surface. **93i:81227**

Ferreira, L. A. *see* **Aratyn, Henrik; et al., 93b:81238**

Figueroa-O'Farrill, José M. (*with* Ramos, Eduardo) Classical $N = 1$ W-superalgebras from Hamiltonian reduction. **93g:58059**

— (*with* Ramos, Eduardo) The classical limit of W-algebras. **93h:17067**

— (*with* Ramos, Eduardo) Erratum: "Existence and uniqueness of the universal W algebra" [J. Math. Phys. **33** (1992), no. 3, 833–839; MR 92m:17042]. **93k:17055**

Fletcher, Paul *see* **Fairlie, David B., (93g:81003)**

Font, Anamaría Automorphism fixed points and exceptional modular invariants. **93e:17035**

Forger, M. *see* **Abdalla, Elcio, 93g:81136**

Fradkin, E. S. (*with* Linetskiĭ, V. Ya.) Classification of superconformal and quasisuperconformal algebras in two dimensions. (English summary) **93h:17068**

Frenkel, Edward (*with* Kac, Victor G.; Wakimoto, Minoru) Characters and fusion rules for W-algebras via quantized Drinfel'd-Sokolov reduction. **93i:17029**

— *see also* **Feigin, B. L., 93d:17031; 93e:81106** *and* **93j:17049**

Fuchs, Jürgen WZW quantum dimensions. (English summary) **93i:81231**

Fucito, F. (*with* Martellini, Maurizio) Loop equations and KdV hierarchy in 2-D quantum gravity. **93a:81171**

Fujii, Akira *see* **Deguchi, Tetsuo, 93a:82017**

Fujishiro, Takehiko T. (*with* Hayashi, Mitsuo J.) Review of the $N = 2$ superconformal field theory. **93b:81248**

Furlan, Paolo (*with* Ganchev, Alexander Ch.; Petkova, Valentina B.) Tensor products of $q^p = 1$ quantum groups and WZW fusion rules. **93a:17012**
— (*with* Paunov, R. R.; Todorov, Ivan T.) Extended U(1) conformal field theories and Z_k-parafermions. **93c:81203**
Furutsu, Hirotoshi (*with* Nishiyama, Kyo) Realization of irreducible unitary representations of $\mathfrak{osp}(M/N;\mathbf{R})$ on Fock spaces. **93k:17005**
Ganchev, Alexander Ch. *see* **Furlan, Paolo; et al., 93a:17012**
Gao, Hong Bo *see* **Chen, Yi Xin, 93e:32025**
Garland, H. (*with* Zuckerman, Gregg J.) Representations of Heisenberg systems and vertex operators. **93k:17046**
Gato-Rivera, B. (*with* Schellekens, A. N.) Complete classification of simple current modular invariants for RCFTs with a center $(\mathbf{Z}_p)^k$. **93d:81155**
— (*with* Semikhatov, A. M.) Minimal models from W-constrained hierarchies via the Kontsevich-Miwa transform. (English summary) **93g:81148**
— (*with* Semikhatov, A. M.) $d \leq 1 \cup d \geq 25$ and W constraints from BRST invariance in the $c \neq 3$ topological algebra. (English summary) **93j:81102**
Gepner, Doron On the algebraic structure of $N = 2$ string theory. **93b:81215**
Ghosh, Subir *see* **Banerjee, Rabin, 93d:81109**
Goddard, Peter *see* **Chu, Meifang; et al., 93c:81199**
Goeree, Jacob W-constraints in 2D quantum gravity. **93e:81110**
Goldin, Gerald A. (*with* Sharp, David H.) Diffeomorphism groups and local symmetries: some applications in quantum physics. **93f:22020**
Golenishcheva-Kutuzova, M. (*with* Lebedev, D. R.) Vertex operator representation of some quantum tori Lie algebras. (English summary) **93j:17046**
Gomes, J. F. *see* **Aratyn, Henrik; et al., 93b:81238**
Gómez, César (*with* Sierra, Germán) Comments on rational conformal field theory, quantum groups and tower of algebras. **93m:81130**
Gorman, N. *see* **McGettrick, M.; et al., 93c:17043**
Govindarajan, Suresh (*with* Jayaraman, T.; John, Varghese; Majumdar, Parthasarathi) States of nonzero ghost number in $c < 1$ matter coupled to 2D gravity. **93c:81204**
Grisaru, M. T. *see* **Delius, G. W.; et al., 93i:81221** *and* **93k:81198**
Grosse, Harald (*with* Langmann, Edwin) The geometric phase and the Schwinger term in some models. (English summary) **93k:81229**
— (*with* Langmann, Edwin) A superversion of quasifree second quantization. I. Charged particles. **93h:81075**
Guadagnini, E. (*with* Martellini, Maurizio; Mintchev, M.) Chern-Simons theory, link invariants and quasi-Hopf algebras. **93g:57007**
Guha, P. (*with* Roy Chowdhury, A.) Multidimensional analogue of Virasoro algebra and quantum higher-order water wave equation. (English summary) **93k:58114**
Gupta, K. S. *see* **Balachandran, A. P.; et al., 93i:81130**
Gürsey, Feza (*with* Jiang, Wenxin) Euclidean space-time diffeomorphisms and their Fueter subgroups. **93a:22016**
— *see also* **Jiang, Wenxin, 93d:17027**
Halliday, Ian *see* **Chu, Meifang; et al., 93c:81199**
Halpern, M. B. (*with* Obers, N. A.) Superconformal constructions on two-dimensional simplicial complexes. **93j:81091**
— (*with* Obers, N. A.) Generalized graph theory on Lie g and applications in conformal field theory. **93m:81131**
Hayashi, Mitsuo J. *see* **Fujishiro, Takehiko T., 93b:81248**
Ho-Kim, Q. *see* **Bougourzi, A. H.; et al., 93a:17025**
Hollowood, Timothy J. *see* **Evans, Jonathan M., 93i:81270**
Hou, Bo Yu (*with* Shi, Kang Jie; Yue, Rui Hong) Explicit expressions for fusion and braid matrices in the unitary minimal model. (Chinese. English summary) **93e:81112**
— *see also* **Chao, Liu, 93i:17028**
Hu, Zhan Ning *see* **Wang, Pei, 93j:81097**
Imbimbo, Camillo (*with* Mahapatra, Swapna; Mukhi, Sunil) Construction of physical states of nontrivial ghost number in $c < 1$ string theory. **93k:81178**
Inami, Takeo (*with* Kanno, Hiroaki) $N = 2$ super W algebras and generalized $N = 2$ super KdV hierarchies based on Lie superalgebras. **93e:58086**
Ishibashi, Nobuyuki Extra observables in gauged WZW models. **93e:81113**
Ishizuka, Wataru *see* **Kikuchi, Yukio, 93e:81116**
Isidro, José-M. (*with* Labastida, J. M. F.; Ramallo, A. V.) Coset constructions in Chern-Simons gauge theory. **93d:81159**
Isler, Karl (*with* Lina, Jean-Marc) Canonical quantization of the induced 2D gravity. **93c:81207**
Ito, Katsushi (*with* Madsen, Jens Ole) Hamiltonian reduction and classical extended superconformal algebras. **93k:17049**
Itzykson, Claude Geometry of differential equations and projective representations of the Witt algebra. (English summary) **93j:17052**
— *see also* **Di Francesco, Ph.; et al., 93e:17041**
Ivanov, Evgenii Alekseevich² (*with* Krivonos, S. O.; Leviant, V. M.) $N = 3$ and $N = 4$ superconformal WZNW sigma models in superspace. II. The $N = 4$ case. **93c:81209**
— (*with* Krivonos, S. O.; Pichugin, A.) Nonlinear realizations of W_3 symmetry. **93e:81115**
Jagannathan, Ramaswamy *see* **Chakrabarti, Ranabir, 93e:17040**
Jayaraman, T. *see* **Govindarajan, Suresh; et al., 93c:81204**
Jevicki, Antal *see* **Avan, Jean, 93a:81148** *and* **93e:58078**
Jiang, Wenxin (*with* Gürsey, Feza) Extensions of some infinite algebras in space-time. **93d:17027**
— *see also* **Gürsey, Feza, 93a:22016**
Johannesson, Henrik Lattice Virasoro algebras, unitarity, and the eight-vertex model. **93g:82037**
John, Varghese *see* **Govindarajan, Suresh; et al., 93c:81204**
Kac, Victor G. (*with* van de Leur, Johan) On classification of superconformal algebras. **93e:17004**
— Modular invariance in mathematics and physics. **93h:17061**
— *see also* **Frenkel, Edward; et al., 93i:17029**
Kanno, Hiroaki *see* **Inami, Takeo, 93e:58086** *and* **Eguchi, Tohru; et al., 93k:81200**
Karabali, Dimitra Gauged WZW models and the coset construction of conformal field theories. **93c:81210**
Karowski, M. Yang-Baxter algebra, Bethe ansatz, conformal quantum field theories, quantum groups. (English summary) **93j:82021**
Kausch, H. G. (*with* Watts, G. M. T.) Duality in quantum Toda theory and W-algebras. (English summary) **93i:81234**
Kawai, Toshiya *see* **Eguchi, Tohru; et al., 93k:81199**
Kawakami, Norio (*with* Yang, Sung-Kil) Conformal field theory approach to one-dimensional quantum liquids. (English summary) **93k:81268**
Kent, Adrian Signature characters for the Virasoro algebra. **93d:17032**
— Projections of Virasoro singular vectors. **93e:17042**
Khoruzhii, S. S. *see* **Voronin, A. V., 93k:81242**
Kikuchi, Yukio (*with* Ishizuka, Wataru) Improved $SU(2)_k$ Wess-Zumino-Witten model. **93e:81116**
— *see also* **Bougourzi, A. H.; et al., 93a:17025**
Kowalski, Krzysztof (*with* Steeb, Willi-Hans) Symmetries and first integrals for nonlinear dynamical systems: Hilbert space approach. II. Partial differential equations. **93f:34101**
Krivonos, S. O. *see* **Ivanov, Evgenii Alekseevich²; et al., 93c:81209** *and* **93e:81115**
Kuang, Le Man $N = 2$ superconformal algebra on higher-genus Riemann surfaces. **93i:81238**
Kumar, Alok² *see* **Ali, Abbas; et al., 93f:81123**
Kurak, V. W-algebras and level-group duality. **93j:17053**
Kutasov, David (*with* Martinec, Emil J.; Seiberg, Nathan) Ground rings and their modules in 2D gravity with $c \leq 1$ matter. **93e:81119**
La, HoSeong Geometric Liouville gravity. **93g:81158**
Labastida, J. M. F. *see* **Isidro, José-M.; et al., 93d:81159**
Lam, C. S. *see* **Bougourzi, A. H.; et al., 93a:17025**
Lang, K. (*with* Rühl, W.) Field algebra for critical O(N) vector (nonlinear σ) models at $2 < d < 4$. (*see* **93f:81005**)
Langmann, Edwin *see* **Grosse, Harald, 93h:81075** *and* **93k:81229**
Lano, R. P. (*with* Rodgers, V. G. J.) Applications of W algebras to BF theories, QCD and 4D gravity. **93i:81265**
Larsson, T. A. Conformal fields: a class of representations of Vect(N). (English summary) **93h:17053**
— Central and noncentral extensions of multi-graded Lie algebras. **93c:17047**
Lashkevich, M. Yu. Bosonization of 2D conformal minimal-like field theories. (English summary) **93i:81241**
Lebedev, D. R. *see* **Degasperis, A.; et al., 93i:58071** *and* **Golenishcheva-Kutuzova, M., 93j:17046**
LeClair, André (*with* Nemeschansky, D.; Warner, N. P.) S-matrices for perturbed $N = 2$ superconformal field theory from quantum groups. (English summary) **93k:81211**
van de Leur, Johan *see* **Kac, Victor G., 93e:17004**
Leviant, V. M. *see* **Ivanov, Evgenii Alekseevich²; et al., 93c:81209**
Lewellen, David C. *see* **Cleaver, Gerald B., 93m:81126**
Liao, Li (*with* Song, Xing Chang) Quantum Lie superalgebras and "nonstandard" braid group representations. **93d:81088**
Lina, Jean-Marc (*with* Panigrahi, Prasanta K.) Lax-pair formulation of the w-gravity theories in two dimensions. (English summary) **93i:81192**
— *see also* **Isler, Karl, 93c:81207**
Linetskii, V. Ya. *see* **Fradkin, E. S., 93h:17068**
Love, Alex *see* **Bailin, David; et al., 93e:81089**
Lozovik, Yu. E. *see* **Belov, A. A., 93a:81165; 93c:81193** *and* **93f:81126**
Lu, H. (*with* Pope, C. N.; Schrans, Stany; Wang, X.-J.) New realizations of W algebras and W strings. **93c:17048**
— (*with* Pope, C. N.; Wang, X.-J.; Xu, K. W.) Anomaly freedom and realisations for super-W_3 strings. **93g:81129**
— (*with* Pope, C. N.; Schrans, Stany; Wang, X.-J.) On sibling and exceptional W-strings. **93g:81130**
Lyman, Edwin *see* **Chung, Stephen-wei; et al., 93d:81152**
Mack, Gerhard (*with* Schomerus, Volker) Endomorphisms and quantum symmetry of the conformal Ising model. (*see* **93i:81122**)
— *see also* **Buchholz, Detlev; et al., (93i:81122)**
Madsen, Jens Ole *see* **Ito, Katsushi, 93k:17049**
Mahapatra, Swapna *see* **Imbimbo, Camillo; et al., 93k:81178**
Maharana, Jnanadeva *see* **Ali, Abbas; et al., 93f:81123**
Majumdar, Parthasarathi *see* **Govindarajan, Suresh; et al., 93c:81204**
Makeenko, Yu. M. (*with* Semenoff, Gordon W.) Properties of Hermitian matrix models in an external field. **93d:81165**
— *see also* **Chekhov, L., 93i:81176**
Mandal, Gautam *see* **Dhar, Avinash; et al., 93f:81105**
Mann, Robert B. (*with* Zheng, H. B.) Perturbed W_3 conformal theories and spin-4/3 parafermionic coset models. **93b:81260**
Mansfield, P. (*with* Spence, Bill) Anomaly cancellation for super-$\mathscr{W}$-gravity. **93c:81215**
Marchetti, P. A. Anyon wave functions from anyon field operators. (English summary) **93m:81098**
Marcinek, Władysław Graded algebras and geometry based on Yang-Baxter operators. **93f:17043**
Marion, Jean Albert Construction of quasi invariant probability measures on some current groups of continuous sections of a bundle of compact semisimple Lie groups. **93g:58021**
Marshakov, A. V. (*with* Mironov, A. D.; Morozov, A. Yu.) Generalized matrix models as conformal field theories. Discrete case. **93h:81132**
Martellini, Maurizio *see* **Fucito, F., 93a:81171** *and* **Guadagnini, E.; et al., 93g:57007**
Martinec, Emil J. *see* **Kutasov, David; et al., 93e:81119**
Mathieu, Pierre Integrability off criticality and quantum integrable systems. **93b:81262**
— *see also* **Depireux, Didier A., 93j:58060**
Mathur, Samir D. Quantum Kac-Moody symmetry in integrable field theories. **93d:81167**
Matsuo, Yutaka Current algebra and extended 2D gravity with higher spin gauge field. **93b:81263**
— Classical W_n-symmetry and Grassmannian manifold. **93j:58064**
Mavromatos, N. E. *see* **Ellis, Jonathan Richard; et al., 93e:81105**
McCarthy, James G. *see* **Bouwknegt, Peter; et al., 93h:81143**

McCarthy, Patrick J. Real and complex asymptotic symmetries in quantum gravity, irreducible representations, polygons, polyhedra, and the A, D, E series. **93d:83024**

McGettrick, M. (*with* McGlinn, W. D.; Gorman, N.; O'Raifeartaigh, Lochlainn) Virasoro operators for arbitrarily twisted Kac-Moody algebras. **93c:17043**

McGlinn, W. D. *see* **McGettrick, M.; et al., 93c:17043**

Miković, Aleksandar Exactly solvable models of 2D dilaton quantum gravity. (English summary) **93f:81140**

Mintchev, M. *see* **Guadagnini, E.; et al., 93g:57007**

Mironov, A. D. *see* **Marshakov, A. V.; et al., 93h:81132**

Mizoguchi, Shun'ya (*with* Nakatsu, Toshio) BRST structure of the W_3 minimal model. **93e:81120**

— *see also* **Eguchi, Tohru; et al., 93k:81199**

Montano, David *see* **Aoki, Kenichiro; et al., 93f:81125**

Morozov, A. Yu. (*with* Niemi, Antti J.; Palo, K.) Supersymmetry and loop space geometry. **93b:81283**

— *see also* **Marshakov, A. V.; et al., 93h:81132**

Mukhi, Sunil *see* **Imbimbo, Camillo; et al., 93k:81178**

Nakanishi, Tomoki (*with* Tsuchiya, Akihiro) Level-rank duality of WZW models in conformal field theory. **93a:81181**

Nakatsu, Toshio *see* **Mizoguchi, Shun'ya, 93e:81120**

Nam, Soonkeon Superghost fields in $N = 2$ superconformal algebra. **93b:17077**

Nanopoulos, D. V. *see* **Ellis, Jonathan Richard; et al., 93e:81105**

Narganes-Quijano, Francisco J. Cyclic representations of a q-deformation of the Virasoro algebra. **93g:17046**

Nelson, Philip Virasoro model space and 2D gravity. **93h:81135**

Nemeschansky, D. *see* **LeClair, André; et al., 93k:81211**

Niedermaier, Max R. $\mathscr{W}(\mathrm{sl}(n))$: existence, Cartan basis and infinite abelian subalgebras. **93m:17016**

Niemi, Antti J. *see* **Morozov, A. Yu.; et al., 93b:81283**

van Nieuwenhuizen, Peter *see* **Ooguri, Hirosi; et al., 93c:81221**

Nishiyama, Kyo *see* **Furutsu, Hirotoshi, 93k:17005**

Nissimov, E. (*with* Pacheva, S.; Vaisburd, I. D.) Induced W_∞ gravity as a WZNW model. (English summary) **93e:81124**

Obers, N. A. *see* **Halpern, M. B., 93j:81091** *and* **93m:81131**

Odintsov, S. D. Induced two-dimensional quantum gravity with action of general form. (Russian. English and Russian summaries) **93f:81143**

Ojima, Shuichi Bosonization of chiral fermions on higher genus Riemann surfaces. **93c:81132**

Olive, David *see* **Chu, Meifang; et al., 93c:81199**

Ol'shanetskiĭ, M. A. From conformal symmetries to integrable models. (English summary) (*see* **93f:81005**)

— *see also* **Degasperis, A.; et al., 93i:58071**

Ooguri, Hirosi (*with* Schoutens, Kareljan; Sevrin, A.; van Nieuwenhuizen, Peter) The induced action of W_3 gravity. **93c:81221**

O'Raifeartaigh, Lochlainn *see* **McGettrick, M.; et al., 93c:17043** *and* **Fehér, László; et al., 93i:81225**

Osipov, È. P. Kac-Moody-Malcev and super-Kac-Moody-Malcev algebras. **93b:17088**

Pacheva, S. *see* **Nissimov, E.; et al., 93e:81124**

Pakulyak, S. Z. *see* **Degasperis, A.; et al., 93i:58071**

Palla, L. Perturbing conformal field theories with extended symmetries. (English summary) (*see* **93f:81005**)

— *see also* **Bajnok, Z.; et al., 93k:81189**

Palo, K. *see* **Morozov, A. Yu.; et al., 93b:81283**

Panda, Sudhakar *see* **Barcelos-Neto, J.; et al., 93j:58057**

Panigrahi, Prasanta K. *see* **Lina, Jean-Marc, 93i:81192**

Park, Q-Han 2D sigma model approach to 4D instantons. **93a:81182**

Parkhomenko, S. E. Extended superconformal current algebras and finite-dimensional Manin triples. (Russian) **93h:17063**

Paunov, R. R. *see* **Furlan, Paolo; et al., 93c:81203**

Perelomov, A. M. *see* **Degasperis, A.; et al., 93i:58071**

Petkova, Valentina B. *see* **Furlan, Paolo; et al., 93a:17012**

Phillips, I. *see* **Chang, Darwin; et al., 93i:81091**

Pichugin, A. *see* **Ivanov, Evgenii Alekseevich[2]; et al., 93e:81115**

Pilch, Krzysztof *see* **Bouwknegt, Peter; et al., 93h:81143**

Pope, C. N. (*with* Romans, L. J.; Stelle, K. S.) Anomaly-free W_3 gravity and critical W_3 strings. **93e:81126**

— *see also* **Lu, H.; et al., 93c:17048; 93g:81129** *and* **93g:81130**

Pugay, Ya. P. Quantum analogue of the Gel'fand-Dikiĭ bracket (via quantum Miura transformation). **93g:81170**

Ragoucy, E. (*with* Sorba, P.) Some applications of Kac-Moody algebras defined on a super manifold. (English summary) **93k:17051**

— (*with* Sorba, P.) An attempt to relate area-preserving diffeomorphisms to Kac-Moody algebras. **93e:17038**

— (*with* Sorba, P.) Extended Kac-Moody algebras and applications. **93h:17064**

Ramallo, A. V. *see* **Isidro, José-M.; et al., 93d:81159**

Ramos, Eduardo *see* **Figueroa-O'Farrill, José M., 93g:58059; 93h:17067** *and* **93k:17055**

Ravanini, F. On the possibility of Z_N exotic supersymmetry in two-dimensional conformal field theory. (English summary) **93i:81250**

Restuccia, A. (*with* Taylor, John G.) On the closure of the super Poincaré algebra for superstrings in the light cone gauge. **93c:81184**

Rinaldi, Maurizio *see* **Bonora, L.; et al., (93e:81005)**

Rittenberg, Vladimir *see* **Baranowski, D.; et al., 93c:81192**

Roberts, Patrick (*with* Terao, Haruhiko) Modular invariants of Kac-Moody algebras from self-dual lattices. **93g:17043**

Robinson, P. L. Inner Bogoliubov automorphisms of the minimal C^* Weyl algebra. **93g:46057**

— An infinite-dimensional metaplectic group. **93h:22037**

Rodgers, V. G. J. *see* **Lano, R. P., 93i:81265**

Roger, Claude Deformations and cohomology of the Lie algebra of currents. Application to the Faddeev anomaly. **93b:17066**

Romans, L. J. *see* **Pope, C. N.; et al., 93e:81126**

de Roo, Mees *see* **Bergshoeff, E. A., 93i:81209**

Roy, Shibaji *see* **Barcelos-Neto, J.; et al., 93j:58057**

Roy Chowdhury, A. (*with* Sen, D. C.) The Bäcklund transformation, Virasoro algebra, and symmetries related to the cylindrically symmetric self-dual Yang-Mills equation. **93f:58254**

— *see also* **Guha, P., 93k:58114**

Rozansky, L. (*with* Saleur, H.) Quantum field theory for the multi-variable Alexander-Conway polynomial. **93i:57012**

— *see also* **Chang, Darwin; et al., 93i:81091**

Ruelle, Philippe *see* **Fehér, László; et al., 93i:81225**

Ruffing, Andreas (*with* Deck, Thomas; Schlichenmaier, Martin) String branchings on complex tori and algebraic representations of generalized Krichever-Novikov algebras. (English summary) **93j:17054**

Rühl, W. *see* **Lang, K., (93f:81005)**

Russo, Jorge G. *see* **Bonora, L.; et al., (93e:81005)**

Rzewuski, Jan Quantization as group extension. I. **93d:81091**

Sabra, W. A. Hidden Kac-Moody symmetry and 2D quantum supergravity. **93j:81095**

Saidi, E. H. On the zero mode of the Poisson gauge theory. **93b:81166**

— Chiral rings in the $N = 4$ SU(2) conformal theory. (English summary) **93k:81219**

Salerno, Mario Quantum deformations of the discrete nonlinear Schrödinger equation. (English summary) **93i:81099**

Saleur, H. *see* **Rozansky, L., 93i:57012**

Salomonson, P. *see* **Bimonte, G.; et al., 93k:81192**

Santini, Paolo Maria *see* **Degasperis, A.; et al., 93i:58071**

Sasaki, Ryu *see* **Braden, H. W.; et al., 93h:81110**

Schellekens, A. N. *see* **Gato-Rivera, B., 93d:81155**

Schlichenmaier, Martin *see* **Ruffing, Andreas; et al., 93j:17054**

Schomerus, Volker *see* **Mack, Gerhard, (93i:81122)**

Schoutens, Kareljan *see* **Ooguri, Hirosi; et al., 93c:81221**

Schrans, Stany *see* **Lu, H.; et al., 93c:17048** *and* **93g:81130**

Schütz, G. *see* **Baranowski, D.; et al., 93c:81192**

Schweigert, Christoph On the classification of $N = 2$ superconformal coset theories. (English summary) **93j:81096**

Schwimmer, Adam *see* **Chu, Meifang; et al., 93c:81199**

Sciuto, Stefano Conformal field theories on Riemann surfaces. (English summary) **93g:81174**

Seiberg, Nathan *see* **Kutasov, David; et al., 93e:81119**

Semenoff, Gordon W. *see* **Makeenko, Yu. M., 93d:81165**

Semenov-Tyan-Shanskiĭ, M. A. *see* **Alekseev, A. Yu.; et al., 93j:17017**

Semikhatov, A. M. Virasoro algebra action on integrable hierarchies and Virasoro constraints in matrix models. Matrix models from the viewpoint of integrable hierarchies. **93f:58115**

— Higher-spin and $W_\infty(J)$ algebras in Virasoro-constrained KP and N-KdV hierarchies. **93a:17029**

— Matrix models without matrices: from integrable hierarchies to recursion relations. **93b:81200**

— *see also* **Gato-Rivera, B., 93g:81148** *and* **93j:81102**

Sen, D. C. *see* **Roy Chowdhury, A., 93f:58254**

Sengupta, Gautam *see* **Ali, Abbas; et al., 93f:81123**

Sevrin, A. *see* **Ooguri, Hirosi; et al., 93c:81221**

Sfetsos, Konstadinos Conformally exact results for $\mathrm{SL}(2,\mathbf{R}) \otimes \mathrm{SO}(1,1)^{d-2}/\mathrm{SO}(1,1)$ coset models. (English summary) **93k:81222**

Shadura, V. N. *see* **Askeri, V. M.; et al., 93i:82010**

Sharp, David H. *see* **Goldin, Gerald A., 93f:22020**

Shi, Kang Jie *see* **Hou, Bo Yu; et al., 93e:81112**

Shigemoto, Kazuyasu *see* **Ahn, Changrim, 93d:81146**

Sierra, Germán *see* **Gómez, César, 93m:81130**

Silvotti, R. *see* **Felder, G., 93i:81227**

Simoni, A. *see* **Bimonte, G.; et al., 93k:81192**

Singer, I. M. *see* **Alvarez, Orlando; et al., 93f:58224**

Smith, Eric Light-cone gauge for $1 + 1$ strings. (English summary) **93f:81144**

Song, Xing Chang *see* **Liao, Li, 93d:81088**

Sonnenschein, Jacob *see* **Aoki, Kenichiro; et al., 93f:81125** *and* **Aharony, O.; et al., 93g:81137**

Sorba, P. *see* **Ragoucy, E., 93e:17038; 93h:17064** *and* **93k:17051**

Spence, Bill $\mathscr{W}$-algebra symmetries of generalised Drinfel'd-Sokolov hierarchies. **93g:58066**

— *see also* **Mansfield, P., 93c:81215**

Steeb, Willi-Hans *see* **Kowalski, Krzysztof, 93f:34101**

Stelle, K. S. *see* **Bergshoeff, E. A.; et al., 93b:81240** *and* **Pope, C. N.; et al., 93e:81126**

Stern, Allen Bruce *see* **Balachandran, A. P.; et al., 93i:81130** *and* **Bimonte, G.; et al., 93k:81192**

Suris, Yu. B. Algebraic structure of discrete-time and relativistic Toda lattices. **93a:58093**

Takács, G. *see* **Bajnok, Z.; et al., 93k:81189**

Taylor, John G. *see* **Restuccia, A., 93c:81184**

(Teitelboim, Claudio) *see* **Quantum mechanics of fundamental systems, 93e:81005**

Terao, Haruhiko *see* **Roberts, Patrick, 93g:17043**

Todorov, Ivan T. Quantum groups as symmetries of chiral conformal algebras. (English summary) **93k:81110**

— *see also* **Furlan, Paolo; et al., 93c:81203** *and* **Buchholz, Detlev; et al., (93i:81122)**

Toppan, Francesco (*with* Zhang, Yao Zhong) Superconformal affine Liouville theory. (English summary) **93g:81178**

Torrésani, Bruno Time-frequency representations: wavelet packets and optimal decomposition. (French summary) **93e:94004**

Tsuchiya, Akihiro *see* **Nakanishi, Tomoki, 93a:81181** *and* **Awata, Hidetoshi; et al., 93h:81105**

Tsutsui, Izumi (*with* Fehér, László) On the Lagrangian realization of the WZNW reductions. (English summary) **93k:81224**

— *see also* **Fehér, László; et al., 93i:81225**

Tye, S.-H. Henry *see* **Ahn, Changrim; et al., 93a:81162** *and* **Chung, Stephen-wei; et al., 93d:81152**

Urrutia, Luis F. (*with* Waelbroeck, Henri; Zertuche, Federico) The algebra of supertraces for $(2+1)$ super de Sitter gravity. (English summary) **93f:81148**
Ushveridze, A. G. Quasi-exact solvability. New phenomenon in quantum mechanics. (*see* **93h:81003**)
Vaisburd, I. D. *see* **Nissimov, E.; et al., 93e:81124**
Verlinde, Erik *see* **Verlinde, Herman, 93c:81227**
Verlinde, Herman (*with* Verlinde, Erik) Conformal field theory and geometric quantization. **93c:81227**
Verstegen, Dirk Conformal embeddings, rank-level duality and exceptional modular invariants. **93c:17045**
Voronin, A. V. (*with* Khoruzhii, S. S.) True algebra of BRST-symmetry and the theory of its representations. (Russian. English and Russian summaries) **93k:81242**
de Vos, Koos Symmetries of integrable hierarchies and matrix model constraints. **93j:58067**
Wadia, Spenta R. *see* **Dhar, Avinash; et al., 93f:81105**
Waelbroeck, Henri *see* **Urrutia, Luis F.; et al., 93f:81148**
Wakimoto, Minoru *see* **Frenkel, Edward; et al., 93i:17029**
Wang, Pei (*with* Hu, Zhan Ning) Bosonic realization of SU(3) parafermion irreducible representation. **93j:81097**
Wang, X.-J. *see* **Lu, H.; et al., 93c:17048**; **93g:81129** *and* **93g:81130**
Ward, R. S. Infinite-dimensional gauge groups and special nonlinear gravitons. **93i:58013**
Warner, N. P. *see* **LeClair, André; et al., 93k:81211**
Watts, G. M. T. W-algebras and coset models. (English summary) (*see* **93f:81005**)
— *see also* **Kausch, H. G., 93i:81234** *and* **Bowcock, P., 93k:17026**
Wawrzyńczyk, Antoni On the infinitesimal generator of the Fourier transform. **93f:22010**
Wei, Lian Fu (*with* Xiong, Zhuang; Yin, Chun Hao) The prolongation structure and the Kac-Moody algebra for the SU(N) isotropic continuous Heisenberg model. (Chinese. English summary) **93c:82015**
Windey, Paul *see* **Alvarez, Orlando; et al., 93f:58224**
Wipf, Andreas *see* **Fehér, László; et al., 93i:81225**
Witten, Edward On holomorphic factorization of WZW and coset models. **93i:81259**
— Searching for integrability. **93i:81082**
Wu, Yong Shi[1] *see* **Yu, Feng, 93e:58097**
Xiong, Zhuang *see* **Wei, Lian Fu; et al., 93c:82015**
Xu, K. W. *see* **Lu, H.; et al., 93g:81129**
Yamada, Yasuhiko *see* **Awata, Hidetoshi; et al., 93h:81105** *and* **93j:17020**
Yamaguchi, Shun-ichi Correlation functions of $(2k-1,2)$ minimal matter coupled to 2D quantum gravity. (English summary) **93k:81226**
Yang, Sung-Kil *see* **Eguchi, Tohru; et al., 93k:81199**; **93k:81200** *and* **Kawakami, Norio, 93k:81268**
Yankielowicz, Shimon *see* **Aharony, O.; et al., 93g:81137**
Yin, Chun Hao *see* **Wei, Lian Fu; et al., 93c:82015**
Yoshida, Kensuke The origin of SL(n, C) current algebra in generalized two-dimensional gravity. (English summary) **93i:81260**
Yu, Feng (*with* Wu, Yong Shi[1]) Non-linearly deformed $\widehat{W}_\infty$ algebra and second Hamiltonian structure of KP hierarchy. **93e:58097**
Yue, Rui Hong *see* **Hou, Bo Yu; et al., 93e:81112**
Yur'ev, D. V. Local conformal field algebras. **93e:81132a**
— Erratum: "Local conformal field algebras". **93e:81132b**
(Zanelli, Jorge) *see* **Quantum mechanics of fundamental systems, 93e:81005**
Zanon, D. *see* **Delius, G. W.; et al., 93i:81221** *and* **93k:81198**
Zaugg, Ph. *see* **Alvarez-Gaumé, Luis, 93b:81235**
Zertuche, Federico *see* **Urrutia, Luis F.; et al., 93f:81148**
Zhang, Yao Zhong N-extended super-Liouville theory from OSp(N|2) WZNW model. **93d:81172**
— *see also* **Toppan, Francesco, 93g:81178**
Zheng, H. B. *see* **Mann, Robert B., 93b:81260**
Zimerman, A. H. *see* **Aratyn, Henrik; et al., 93b:81238**
Zoh, S. W. *see* **Cho, Y. M., 93f:81095**
Zuber, J.-B. Graphs, algebras, conformal field theories and integrable lattice models. **93c:81229**
— *see also* **Di Francesco, Ph.; et al., 93e:17041**
Zuckerman, Gregg J. *see* **Garland, H., 93k:17046**

Items listed otherwise than by author

Meeting:
Quantum Mechanics of Fundamental Systems ★ Quantum mechanics of fundamental systems. 2. **93e:81005**
Quantum mechanics of fundamental systems ★ Quantum mechanics of fundamental systems. 2. **93e:81005**
Santiago ★ Quantum mechanics of fundamental systems. 2. **93e:81005**

81R20 Covariant wave equations

Ahluwalia, D. V. (*with* Ernst, D. J.) Paradoxical kinematic acausality in Weinberg's equations for massless particles of arbitrary spin. **93k:81082**
Arensburg, A. (*with* Horwitz, L. P.) A first-order equation for spin in a manifestly relativistically covariant quantum theory. (English summary) **93k:81083**
Barut, Asim Orhan Dynamical symmetries of relativistic two- and many-body systems. **93c:81069**
Beckers, J. (*with* Debergh, N.; Nikitin, A. G.) Lie extended symmetries and relativistic particles. (English summary) **93j:81036**
— (*with* Debergh, N.; Nikitin, A. G.) Extended Dirac symmetries and hidden supersymmetry. **93a:81069**
Briegel, H.-J. (*with* Englert, B.-G.; Michaelis, M.; Süssmann, G.) Über die Wurzel aus der Klein-Gordon-Gleichung als Schrödinger-Gleichung eines relativistischen Spin-0-Teilchens. (English summary) [On the square-root Klein-Gordon equation as Schrödinger equation for a relativistic spin-0 particle] **93a:81070**
Brihaye, Yves (*with* Kunz, Jutta) Periodic solutions in spontaneously broken theories. **93c:81070**
Bureš, Jarolím Twistor correspondence in higher even dimensions. (English summary) (*see* **93f:00011**)
Cardoso, J. G. Real wave equations for positive-frequency electromagnetic fields and their Green's function solutions. **93e:81043**
Chandola, H. C. *see* **Negi, P. S.; et al., 93h:81050**
Chaudhary, Prakash (*with* Rajput, Balwant Singh) Role of six-current in six-space. (English summary) **93h:81049**
Debergh, N. *see* **Beckers, J.; et al., 93a:81069** *and* **93j:81036**
Defever, Filip *see* **Hasiewicz, Zbigniew; et al., 93h:81051**
Englert, B.-G. *see* **Briegel, H.-J.; et al., 93a:81070**
Ermolaev, E. A. On the mass spectrum of a particle described by the superposition of Bargmann-Wigner equations. (Russian. English summary) **93a:81071**
Ernst, D. J. *see* **Ahluwalia, D. V., 93k:81082**
Hasiewicz, Zbigniew (*with* Siemion, Przemysław; Defever, Filip) A bosonic model for particles with arbitrary spin. (English summary) **93h:81051**
Higashijima, Kiyoshi Theory of dynamical symmetry breaking. (English summary) **93g:81041**
Horwitz, L. P. *see* **Arensburg, A., 93k:81083**
Keller, Jaime (*with* Viniegra, Fermin) The multivector structure of the matter and interaction field theories. (English summary) **93i:81077**
Kireev, A. N. (*with* Takahashi, Yasushi) On the field description of conformal Galilean particle with intrinsic rotations. **93c:81071**
Krivskii, I. Yu. (*with* Simulik, V. M.) The Dirac equation and representations of spin 1, a connection with symmetries of the Maxwell equations. (Russian. English and Russian summaries) **93i:81078**
Kunz, Jutta *see* **Brihaye, Yves, 93c:81070**
Linhares, Cesar A. (*with* Mignaco, Juan A.) New symmetries for the Dirac equation. **93e:81044**
Lochak, Georges Nonlinear spinorial wave equation for a magnetic monopole. (*see* **93b:00013**)
Martínez y Romero, R. P. (*with* Salas-Brito, A. L.) Conformal invariance in a Dirac oscillator. **93k:81084**
Melek, M. Factorization of the relativistic Pauli equation in the presence of a gravitational field. (English summary) **93i:81079**
Michaelis, M. *see* **Briegel, H.-J.; et al., 93a:81070**
Mignaco, Juan A. *see* **Linhares, Cesar A., 93e:81044**
Negi, P. S. (*with* Chandola, H. C.; Rajput, Balwant Singh) Fermionic fields in six-dimensional space-time. (English summary) **93h:81050**
Nikitin, A. G. *see* **Beckers, J.; et al., 93a:81069** *and* **93j:81036**
O'Raifeartaigh, Lochlainn Some hidden aspects of hidden symmetry. (English summary) **93g:81042**
Plyushchai, M. S. The model of a free relativistic particle with fractional spin. (English summary) **93m:81048**
Rajput, Balwant Singh *see* **Chaudhary, Prakash, 93h:81049** *and* **Negi, P. S.; et al., 93h:81050**
Salas-Brito, A. L. *see* **Martínez y Romero, R. P., 93k:81084**
Shirokov, I. V. Relativistic scalar equations for a particle with arbitrary spin. (Russian. Russian summary) **93j:81037**
Shishkin, G. V. (*with* Villalba, Víctor M.) Neutrino in the presence of gravitational fields: separation of variables. **93d:81077**
Siemion, Przemysław *see* **Hasiewicz, Zbigniew; et al., 93h:81051**
Simulik, V. M. *see* **Krivskii, I. Yu., 93i:81078**
Süssmann, G. *see* **Briegel, H.-J.; et al., 93a:81070**
Takahashi, Yasushi *see* **Kireev, A. N., 93c:81071**
Vasil'ev, M. A. More on equations of motion for interacting massless fields of all spins in $3+1$ dimensions. **93g:81043**
Villalba, Víctor M. *see* **Shishkin, G. V., 93d:81077**
Viniegra, Fermin *see* **Keller, Jaime, 93i:81077**
Vlasov, P. A. Construction of squarable Lorentz-invariant equations. (Russian. Russian summary) (*see* **93g:00024**)
Zhelnorovich, V. A. On an invariant tensor description of massless spinor fields. (Russian) **93c:81072**

Items with secondary classifications in 81R20

Bagrov, V. G. (*with* Shapovalov, A. V.; Shirokov, I. V.) Identities in the enveloping algebra on solutions of conformally-invariant wave equations. (Russian. Russian summary) **93k:58237**
Batakis, Nicolaos A. (*with* Kehagias, Alexandros A.) A class of monopole vacua. **93e:81068**
Burwick, T. T. (*with* Chamseddine, A. H.; Meissner, K. A.) Matter coupling and spontaneous symmetry breaking in topological gravity. **93c:81195**
Cariñena, José F. (*with* Figueroa, H.) Moyal quantization and wave equations. (English summary) **93k:81127**
Chamseddine, A. H. *see* **Burwick, T. T.; et al., 93c:81195**
Delduc, François (*with* Ivanov, Evgenii Alekseevich[2]; Sokatchev, E. S.) Twistor-like superstrings with $D=3,4,6$ target superspace and $N=(1,0),(2,0),(4,0)$ world-sheet supersymmetry. (English summary) **93f:81104**
Fedoseev, V. G. (*with* Shapovalov, A. V.; Shirokov, I. V.) Noncommutative integration of the Dirac equation in Riemannian spaces with a group of motions. (Russian. Russian summary) **93j:58145**
Figueroa, H. *see* **Cariñena, José F., 93k:81127**
Flynn, William G. *see* **Littlejohn, Robert G., 93a:81043**
Gonera, C. (*with* Kosiński, P.) Gauge symmetries in three dimensions. **93a:81117**
Ivanov, Evgenii Alekseevich[2] *see* **Delduc, François; et al., 93f:81104**
Kaiser, Gerald (*with* Streater, Raymond F.) Windowed Radon transforms, analytic signals, and the wave equation. **93g:44008**
Kehagias, Alexandros A. *see* **Batakis, Nicolaos A., 93e:81068**
Kosiński, P. *see* **Gonera, C., 93a:81117**
Krivskii, I. Yu. (*with* Simulik, V. M.) The Dirac equation and representations of spin 1, a connection with symmetries of the Maxwell equations. (Russian. English and Russian summaries) **93i:81078**

Littlejohn, Robert G. (*with* Flynn, William G.) Phase integral theory, coupled wave equations, and mode conversion. **93a:81043**
Meissner, K. A. *see* **Burwick, T. T.; et al., 93c:81195**
Ndimubandi, J. (*with* Ntibashirakandi, L.) On relativistic oscillators through supersymmetry and Foldy-Wouthuysen transformations. (French summary) **93d:81050**
Neidhardt, Hagen Moving potentials and the completeness of wave operators. I. The propagator. **93a:47007**
Ntibashirakandi, L. *see* **Ndimubandi, J., 93d:81050**
Segal, Irving E. Is the physical vacuum really Lorentz-invariant? (English summary) **93g:81196**
Shapovalov, A. V. *see* **Fedoseev, V. G.; et al., 93j:58145** *and* **Bagrov, V. G.; et al., 93k:58237**
Shirokov, I. V. *see* **Fedoseev, V. G.; et al., 93j:58145** *and* **Bagrov, V. G.; et al., 93k:58237**
Simulik, V. M. *see* **Krivskii, I. Yu., 93i:81078**
Sokatchev, E. S. *see* **Delduc, François; et al., 93f:81104**
Song, Xing Chang Covariant differential calculus on quantum Minkowski space and the q-analogue of Dirac equation. (English summary) **93g:58013**
Streater, Raymond F. *see* **Kaiser, Gerald, 93g:44008**
Torres del Castillo, G. F. Spinors in three dimensions. (English and Spanish summaries) **93j:81039**

81R25 Spinor and twistor methods [see also 32L25]

Baylis, W. E. Classical eigenspinors and the Dirac equation. **93c:81073**
Bette, Andreas Hamiltonization of the Lorentz force equation for a massive particle with spin: a twistorial approach. **93e:81045**
Boudet, Roger Les algèbres de Clifford et les transformations des multivecteurs. L'algèbre de Clifford de $\mathbf{R}(1,3)$ et la constante de Planck. (English summary) [Clifford algebras and multivector transforms. The Clifford algebra in $\mathbf{R}(1,3)$ and the Planck constant] **93k:81085**
Cardoso, J. G. Generalized mass-scattering integrals for Dirac fields and their graphical representation. **93b:81099**
— Complexified theory of positive-frequency photons. (English summary) **93m:81049**
Chisholm, J. S. R. (*with* Farwell, R. S.) Tetrahedral structure of idempotents of the Clifford algebra $C_{3,1}$. (*see* **93f:00011**)
Crawford, J. P. The geometric structure of the space of fermionic physical observables. (English summary) **93j:81038**
Delduc, François (*with* Gal'perin, A. S.; Howe, P. S.; Sokatchev, E. S.) Twistor formulation of the heterotic $D = 10$ superstring with manifest $(8,0)$ world-sheet supersymmetry. (English summary) **93m:81050**
Devchand, Ch. (*with* Ogievetskiĭ, V. I.) Super-self-duality as analyticity in harmonic superspace. (English summary) **93m:81051**
Farwell, R. S. *see* **Chisholm, J. S. R., (93f:00011)**
Gal'perin, A. S. *see* **Delduc, François; et al., 93m:81050**
Howe, P. S. (*with* West, P. C.) The conformal group, point particles and twistors. (English summary) **93i:81080**
— *see also* **Delduc, François; et al., 93m:81050**
Huggett, S. A. Recent work in twistor field theory. **93a:81072**
Keller, Jaime (*with* Rodríguez, Adán) Geometric superalgebra and the Dirac equation. **93a:81073**
Lounesto, Pertti Clifford algebra calculations with a microcomputer. (English summary) (*see* **93f:00011**)
Marx, Egon Spinor equations in relativistic quantum mechanics. **93h:81052**
Morris, Randall *see* **Reifler, Frank, 93d:81079**
Ogievetskiĭ, V. I. *see* **Devchand, Ch., 93m:81051**
Pilato, A. M. Super twistor realization of unitary super representations of $U(p,q|N)$. **93e:81046**
Plyushchaĭ, M. S. Spin from isospin: the model of a superparticle in a non-Grassmannian approach. **93d:81078**
Reifler, Frank (*with* Morris, Randall) Unobservability of bispinor two-valuedness in Minkowski space-time. **93d:81079**
Rodríguez, Adán *see* **Keller, Jaime, 93a:81073**
Sokatchev, E. S. *see* **Delduc, François; et al., 93m:81050**
Soroka, V. A. (*with* Sorokin, D. P.; Tkach, V. I.; Volkov, D. V.) On a twistor shift in particle and string dynamics. (English summary) **93m:81052**
— (*with* Sorokin, D. P.; Tkach, V. I.; Volkov, D. V.) A generalized twistor dynamics of relativistic particles and strings. (English summary) **93i:81081**
Sorokin, D. P. *see* **Soroka, V. A.; et al., 93i:81081** *and* **93m:81052**
Tkach, V. I. *see* **Soroka, V. A.; et al., 93i:81081** *and* **93m:81052**
Torres del Castillo, G. F. Spinors in three dimensions. (English and Spanish summaries) **93j:81039**
Volkov, D. V. *see* **Soroka, V. A.; et al., 93i:81081** *and* **93m:81052**
West, P. C. *see* **Howe, P. S., 93i:81080**
Witten, Edward Searching for integrability. **93i:81082**

Items with secondary classifications in 81R25

Aoyama, Shogo (*with* Pasti, P.; Tonin, M.) The GS and NRS heterotic strings from twistor-string models. **93j:81078**
Bailey, T. N. The space of leaves of a shear-free congruence, multipole expansions, and Robinson's theorem. **93a:83025**
Bandos, I. A. (*with* Zheltukhin, A. A.) 11-dimensional supermembrane in a spinor moving repère formalism. (English summary) **93m:83079**
Bérard, Alain *see* **Charlier, Alphonse; et al., 93g:15018**
Berkovits, Nathan Lorentz-covariant Green-Schwarz superstring amplitudes. (English summary)
(Boudet, Roger) *see* **Clifford algebras and their applications in mathematical physics, 93f:00011**
Bureš, Jarolím (*with* Souček, Vladimír) The Penrose transform and Clifford analysis. **93b:32049**
Cardoso, J. G. Real wave equations for positive-frequency electromagnetic fields and their Green's function solutions. **93e:81043**
Casanova, Gaston Théorie relativiste du nucléon et du doublet Ξ. (English summary) [Relativistic theory of the nucleon and of the doublet Ξ] (*see* **93f:00011**)
Charlier, Alphonse (*with* Bérard, Alain; Charlier, Marie-France; Fristot, Danièle) ★ Tensors and the Clifford algebra. **93g:15018**
Charlier, Marie-France *see* **Charlier, Alphonse; et al., 93g:15018**
Chikalov, V. (*with* Pashnev, A.) Twistor-like type II superstring and bosonic string. (English summary) **93m:81114**
Cordani, Bruno The Kepler problem half century after Fock. **93a:81061**
Crumeyrolle, A. Supergravity, supersymmetry: a geometric unitary spinor theory. (English summary) **93m:83081**
— Supergravity, supersymmetry: a geometric unitary spinor theory. (English summary) **93m:83082**
(Dąbrowski, Ludwik) *see* **DeWitt-Morette, Cécile, 93a:22017**
Defever, Filip (*with* Troost, W.; Hasiewicz, Zbigniew) Superconformal algebras with $N = 5, 6, 7, 8$. I, II. **93c:81065**
De La Jara F., J. (*with* Tabensky, Romualdo) Spinor operators. (English summary) **93i:22015**
DeWitt-Morette, Cécile (*with* Gwo, Shang-Jr) One Spin group; two Pin groups. **93a:22017**
Eastwood, Michael G. (*with* Pilato, A. M.) On the density of twistor elementary states. **93e:22027a**
— (*with* LeBrun, Claude) Fattening complex manifolds: curvature and Kodaira-Spencer maps. **93d:32048**
— (*with* Pilato, A. M.) Correction to: "On the density of twistor elementary states". **93e:22027b**
Eisenberg, Yeshayahu A consistent covariant quantization of the Brink-Schwarz superparticle. **93b:81287**
Foot, R. (*with* Joshi, G. C.) An application of the division algebras, Jordan algebras and split composition algebras. (English summary) **93m:17018**
Fristot, Danièle *see* **Charlier, Alphonse; et al., 93g:15018**
Gal'perin, A. S. (*with* Howe, P. S.; Stelle, K. S.) The superparticle and the Lorentz group. **93c:81170**
— (*with* Sokatchev, E. S.) Twistorlike $D = 10$ superparticle action with manifest $N = 8$ world-line supersymmetry. **93i:81271**
Gwo, Shang-Jr *see* **DeWitt-Morette, Cécile, 93a:22017**
Harnad, John (*with* Shnider, Steven) Isotropic geometry and twistors in higher dimensions. I. The generalized Klein correspondence and spinor flags in even dimensions. (English summary) **93j:32037**
Hasiewicz, Zbigniew *see* **Defever, Filip; et al., 93c:81065**
(Helmstetter, J.) *see* **Clifford algebras and their applications in mathematical physics, 93f:00011**
Howe, P. S. *see* **Gal'perin, A. S.; et al., 93c:81170**
Ito, Kei Topological field theory of four-dimensional self-dual target space and twisted harmonic superspace. **93d:81176**
Joshi, G. C. *see* **Foot, R., 93m:17018**
Kovacheva, Ralitza Krumova *see* **Lawrynowicz, Julian, 93b:30045**
Kuusk, P. The Brink-Schwarz superparticle and octonions. (Russian summary) **93a:81154**
Lawrynowicz, Julian (*with* Kovacheva, Ralitza Krumova) Quasi-regular extension and approximation of dualities generated by the generalized Hurwitz problem. **93b:30045**
LeBrun, Claude *see* **Eastwood, Michael G., 93d:32048**
Marcus, Neil (*with* Oz, Yaron; Yankielowicz, Shimon) Harmonic space, self-dual Yang-Mills and the $N = 2$ string. **93g:81096**
Mason, Lionel (*with* Sparling, George A. J.) Twistor correspondences for the soliton hierarchies. **93d:58075**
(Micali, Artibano) *see* **Clifford algebras and their applications in mathematical physics, 93f:00011**
Nelson, Jeanette (*with* Regge, T.) The mapping class group for genus 2. **93k:57036**
Oz, Yaron *see* **Marcus, Neil; et al., 93g:81096**
Oziewicz, Z. (*with* Sitarczyk, Cz.) Parallel treatment of Riemannian and symplectic Clifford algebras. (English summary) **93m:15045**
Parashar, D. Gordon decomposition of Dirac spinors in gravitational background. **93c:83082**
Park, Q-Han 2D sigma model approach to 4D instantons. **93a:81182**
Pashnev, A. *see* **Chikalov, V., 93m:81114**
Pasti, P. *see* **Aoyama, Shogo; et al., 93j:81078**
Pilato, A. M. *see* **Eastwood, Michael G., 93e:22027a** *and* **93e:22027b**
Popov, A. D. (*with* Sergeev, A. G.) ★ Bosonic strings, ghosts and geometric quantization. (English. English and Russian summaries) **93m:81072**
Regge, T. *see* **Nelson, Jeanette, 93k:57036**
Sergeev, A. G. *see* **Popov, A. D., 93m:81072**
Shnider, Steven *see* **Harnad, John, 93j:32037**
Sitarczyk, Cz. *see* **Oziewicz, Z., 93m:15045**
Sokatchev, E. S. *see* **Gal'perin, A. S., 93i:81271**
Song, Xing Chang Spinor analysis for the quantum group $SU_q(2)$. **93e:81054**
Souček, Vladimír *see* **Bureš, Jarolím, 93b:32049**
Sparling, George A. J. *see* **Mason, Lionel, 93d:58075**
Stelle, K. S. *see* **Gal'perin, A. S.; et al., 93c:81170**
Strachan, I. A. B. Some integrable hierarchies in $(2+1)$ dimensions and their twistor description. (English summary) **93m:58055**
Tabensky, Romualdo *see* **De La Jara F., J., 93i:22015**
Tonin, M. *see* **Aoyama, Shogo; et al., 93j:81078**
Troost, W. *see* **Defever, Filip; et al., 93c:81065**
Yankielowicz, Shimon *see* **Marcus, Neil; et al., 93g:81096**
Zheltukhin, A. A. *see* **Bandos, I. A., 93m:83079**

Items listed otherwise than by author

Clifford algebras and their applications in mathematical physics ★ Clifford algebras and their applications in mathematical physics. **93f:00011**
Montpellier ★ Clifford algebras and their applications in mathematical physics. **93f:00011**
Workshop:
Clifford Algebras and their Applications in Mathematical Physics ★ Clifford algebras and

Workshop: (*cont'd.*)
their applications in mathematical physics. **93f:00011**

81R30 Coherent states [see also 22E45]

(Abe, Sumiyoshi) *see* **Maamache, M.; et al., 93d:81083**
Adam, P. *see* **Földesi, I.; et al., 93j:81040**
Ali, S. Twareque (*with* Antoine, Jean-P.; Gazeau, Jean-Pierre) Square integrability of group representations on homogeneous spaces and generalized coherent states. **93d:81080**
Antoine, Jean-P. *see* **Ali, S. Twareque; et al., 93d:81080**
Aragone, C. (*with* Mundarain, D.) Comparing quantum entropies and uncertainties for two-mode squeezed, coherent and intelligent spin states. **93a:81074**
Basu, Debabrata[2] The Barut-Girardello coherent states. **93a:81075**
— The Clebsch-Gordan problem of the SL(2, **R**) coherent states. (English summary) **93k:81086**
Berceanu, S. (*with* Gheorghe, Alexandru Cezar) On equations of motion on compact Hermitian symmetric spaces. **93a:81076**
Campigotto, C. *see* **Drăgănescu, Gh. E.; et al., 93m:81054**
Celeghini, E. (*with* Rasetti, Mario; Vitiello, G.) Damping and thermal quantum field theory. **93b:81100**
Chaichian, M. (*with* Ellinas, D.; Prešnajder, Peter) Path integrals and supercoherent states. **93c:81074**
Chernyak, V. Ya. The most general representation of spin operators via boson operators. **93b:81101**
Chiranov, M. Thermal states with variances smaller than vacuum variances. (*see* **93e:81158**)
Cini, Marcello (*with* Serva, Maurizio) Phase space representation of quantum mechanics in terms of coherent states. (English summary) **93f:81048**
Combescure, M. The squeezed state approach of the semiclassical limit of the time-dependent Schrödinger equation. (English summary) **93i:81083**
Daboul, Jamil *see* **Mizrahi, Salomon S., 93k:81088**
De Bièvre, Stephan (*with* El Gradechi, Amine M.) Quantum mechanics and coherent states on the anti-de Sitter spacetime and their Poincaré contraction. (English and French summaries) **93m:81053**
Drăgănescu, Gh. E. (*with* Campigotto, C.; Kibler, Maurice) On a generalized Aharonov-Bohm plus Coulomb system. (English summary) **93m:81054**
D'Souza, Richard (*with* Mishra, Adya Prasad) Quasiprobability distributions of negative binomial states. **93b:81102**
El Gradechi, Amine M. *see* **De Bièvre, Stephan, 93m:81053**
Ellinas, D. *see* **Chaichian, M.; et al., 93c:81074**
Fan, Hong Yi[1] The technique of inner integration for regular products and generalized quantum rotations. (Chinese. Chinese summary) **93g:81044**
— Similarity transformation for Fermi operators. Addendum: "Similarity transformations in one- and two-mode Fock space" [J. Phys. A **24** (1991), no. 11, 2529–2538; MR 92d:81057] by Fan and J. VanderLinde. (English summary) **93g:81045**
— *see also* **Zhang, Zhong Xi, 93b:81104**
Földesi, I. (*with* Adam, P.; Janszky, J.) Antisymmetric straight line superposition of coherent states. (English summary) **93j:81040**
Gazeau, Jean-Pierre *see* **Ali, S. Twareque; et al., 93d:81080**
Ge, Mo Lin *see* **Pang, Lin; et al., 93m:81056**
Gerry, Christopher C. *see* **Hach, Edwin E., III**
Gheorghe, Alexandru Cezar *see* **Berceanu, S., 93a:81076**
Gong, Ren Shan The coherent-state method of normally ordering multimode exponential operators. (English summary)
— Path integral formalism for $SU_q(2)$ coherent states. (English summary) **93i:81084**
Gromov, N. A. (*with* Man'ko, V. I.) Group quantum systems in the representation of coherent and correlated states. (Russian) **93d:81081**
Hach, Edwin E., III (*with* Gerry, Christopher C.) Four-photon coherent states. Properties and generation. (English summary)
Honegger, Reinhard (*with* Rieckers, Alfred) First order coherent boson states. (English summary) **93m:81055**
— (*with* Rieckers, Alfred) On higher-order coherent states of the Weyl algebra. **93d:81082**
Ingarden, Roman S. A new definition and generalization of squeezed states. (English summary) (*see* **93e:81158**)
Janszky, J. *see* **Földesi, I.; et al., 93j:81040**
Jin, Wei Mu The coherent state and the squeezed state in Wigner phase spaces. (Chinese. English summary) **93c:81075**
Kibler, Maurice *see* **Tuszyński, J. A., 93f:81051** *and* **Drăgănescu, Gh. E.; et al., 93m:81054**
Klauder, John R. (*with* Tomé, Wolfgang A.) The universal propagator for affine [or SU(1, 1)] coherent states. (English summary) **93i:81085**
Lee, Chang Jae Covariance and uniqueness of the canonical fermion coherent state. (English summary) **93i:81086**
Lisowski, Tomasz Expectation values of squeezing Hamiltonians in the SU(1, 1) coherent states. (English summary) **93k:81087**
Liu, Wen Sen (*with* Tombesi, P.) Eigenstates of a time-dependent quadratic Hamiltonian, a kind of generalized squeezed number states. (English summary) **93f:81049**
Maamache, M. (*with* Provost, J.-P.; Vallée, G.) Comment on: "Adiabatic holonomy and evolution of fermionic coherent state" [Phys. Rev. D (3) **39** (1989), no. 8, 2327–2331; MR 90h:81063] by S. Abe. **93d:81083**
Man'ko, V. I. *see* **Gromov, N. A., 93d:81081**
Martens, Craig C. Quantum qualitative dynamics. **93e:81047**
Mehta, C. L. *see* **Roy, Anil K., (93e:81158)**
Mishra, Adya Prasad *see* **D'Souza, Richard, 93b:81102**
Mizrahi, Salomon S. (*with* Daboul, Jamil) Squeezed states, generalized Hermite polynomials and pseudo-diffusion equation. (English summary) **93k:81088**
Mundarain, D. *see* **Aragone, C., 93a:81074**
Orłowski, Arkadiusz A new quasi-probability approach to the squeezing of quantum fluctuations. **93f:81050**
Pang, Lin (*with* Sun, Chang Pu; Ge, Mo Lin) Topological action for one-dimensional antiferromagnet as superposition of Berry's phase for coherent states. (English summary) **93m:81056**
Prešnajder, Peter *see* **Chaichian, M.; et al., 93c:81074**
Próchniak, Leszek (*with* Szpikowski, Stanisław) Boson expansion method of the Dyson-Maleev type for the fermion algebra sp(6). (Polish summary) **93e:81048**
Provost, J.-P. *see* **Maamache, M.; et al., 93d:81083**
Rasetti, Mario *see* **Celeghini, E.; et al., 93b:81100**
Rieckers, Alfred *see* **Honegger, Reinhard, 93d:81082** *and* **93m:81055**
Roy, Anil K. (*with* Mehta, C. L.) Generalized quadratic generator of squeezed states. (English summary) (*see* **93e:81158**)
Sanders, Barry C. Superpositions of distinct phase states by a nonlinear evolution. **93b:81103**
Sarkar, Sarben Supercoherent states for the *t-J* model. **93a:81077**
Serva, Maurizio *see* **Cini, Marcello, 93f:81048**
Sun, Chang Pu *see* **Pang, Lin; et al., 93m:81056**
Szpikowski, Stanisław *see* **Próchniak, Leszek, 93e:81048**
Tombesi, P. *see* **Liu, Wen Sen, 93f:81049**
Tomé, Wolfgang A. *see* **Klauder, John R., 93i:81085**
Tsue, Yasuhiko Maslov phase as geometric phase in the time-dependent variational approach with squeezed coherent states. (English summary) **93m:81057**
Tuszyński, J. A. (*with* Kibler, Maurice) The formation of coherent structures in strongly interacting *q*-boson systems. **93f:81051**
Vallée, G. *see* **Maamache, M.; et al., 93d:81083**
(VanderLinde, J.) *see* **Fan, Hong Yi[1], 93g:81045**
Vitiello, G. *see* **Celeghini, E.; et al., 93b:81100**
Yeh, Leehwa Generalization of the integration-within-ordered-product technique to *n*-mode operator ordering. **93a:81078**
Zhang, Zhong Xi (*with* Fan, Hong Yi[1]) Properties of states generated by excitations on a squeezed vacuum state. **93b:81104**

Items with secondary classifications in 81R30

Ahmad, Mubarak (*with* Hanna, M. H.; Tikoo, S. K.; Raina, T. K.) Coherent state in the roton region of superfluid helium-4. **93a:82063**
Ali, S. Twareque (*with* Antoine, Jean-P.; Gazeau, Jean-Pierre) Square integrability of group representations on homogeneous spaces. I. Reproducing triples and frames. (French summary) **93a:22002**
— (*with* Antoine, Jean-P.; Gazeau, Jean-Pierre) Square integrability of group representations on homogeneous spaces. II. Coherent and quasi-coherent states. The case of the Poincaré group. (French summary) **93a:22003**
Aliaga, J. (*with* Crespo, G.; Proto, A. N.) Squeezing in the SU(1, 1) group. (English summary) (*see* **93b:00027**)
— (*with* Crespo, G.; Proto, A. N.) Information-theoretic and Wigner-function approaches to the nonclassical state dynamics for the variable-frequency harmonic oscillator. (English summary)
Ališauskas, Sigitas Comment on: "The matrix representation of U_4 in the $U_2 \times U_2$ basis and some isoscalar factors for $U_{p+q} \supset U_p \times U_q$" [J. Math. Phys. **31** (1990), no. 6, 1333–1339; MR 91d:81040] by F. Pan. **93c:81058**
Anandan, J. *see* **Sudarshan, E. C. G.; et al., 93j:81024**
Antoine, Jean-P. *see* **Ali, S. Twareque; et al., 93a:22002** *and* **93a:22003**
Ashtekar, Abhay (*with* Rovelli, Carlo) A loop representation for the quantum Maxwell field. **93h:83021**
Baseia, B. *see* **Dantas, Célia M. A.; et al., 93a:81031** *and* **de Brito, A. L., 93g:81215**
Baskoutas, S. (*with* Jannussis, A.) Quantum mechanics of the inverted Caldirola-Kanai oscillator. **93b:81041**
Bergeron, Mario Coherent state path integral for the harmonic oscillator and a spin particle in a constant magnetic field. **93b:81132**
Bogolyubov, N. M. (*with* Bullough, R. K.) Completely integrable model of interacting *q*-bosons. (English summary) **93i:82011**
Bohnke, G. Treillis d'ondelettes associés aux groupes de Lorentz. (English summary) [Tight frames associated with Lorentz groups] **93c:22020**
de Brito, A. L. (*with* Baseia, B.) Squeezing in the Schrödinger picture: normal ordering technique to solve the mass-varying oscillator. (English summary) **93g:81215**
Buendía, G. M. (*with* Trias, A.) Coherent states and other basic states of quantum electrodynamics formulated in the loop space. (English summary) **93g:81202**
Bullough, R. K. *see* **Bogolyubov, N. M., 93i:82011**
Bužek, Vladimír The Jaynes-Cummings model with a *q* analogue of a coherent state. **93b:81315**
Caurier, E. (*with* Drożdż, S.; Okołowicz, J.; Płoszajczak, M.) Geometrical quantization in dynamical variational approach. **93a:81089**
Celeghini, E. (*with* Rasetti, Mario; Vitiello, G.) Quantum dissipation. **93c:81253**
Chakrabarti, Ranabir (*with* Jagannathan, Ramaswamy) A two-parameter deformation of the Jaynes-Cummings model: path integral representation. (English summary) **93k:81092**
Chang, Zhe Generalized Holstein-Primakoff realizations and quantum group-theoretic coherent states. (English summary) **93h:81063**
— The quantum multiboson algebra and generalized coherent states of $SU_q(1, 1)$. **93c:81078**
Chaturvedi, S. *see* **Shanta, P.; et al., 93b:81324** *and* **Kumari, M. Krishna; et al., 93e:81051**
Combescure, M. A generalized coherent state approach of the quantum dynamics for suitable time-dependent Hamiltonians. **93m:81040**
Crespo, G. *see* **Aliaga, J.; et al.** *and* **(93b:00027)**
Dantas, Célia M. A. (*with* Pedrosa, I. A.; Baseia, B.) Harmonic oscillator with time-dependent mass and frequency and a perturbative potential. **93a:81031**
Daskaloyannis, C. (*with* Ypsilantis, K.) A deformed oscillator with Coulomb energy spectrum. (English summary) **93h:81058**
Drobný, Gabriel *see* **Jex, Igor, 93b:81319**
Drożdż, S. *see* **Caurier, E.; et al., 93a:81089**
Fan, Hong Yi[1] General formalism for mapping of two-mode classical canonical transformations to quantum unitary operators. (English summary) **93i:81097**
— (*with* Weng, Hai Guang) Simple approach for discussing the properties of displaced Fock states. (English summary)
Feichtinger, Hans G. (*with* Gröchenig, Karlheinz) Nonorthogonal wavelet and Gabor expansions, and group representations. **93k:42017**
Feinsilver, Philip Orthogonal polynomials and coherent states. **93a:22018**

Filippakis, P. *see* **Filippakis, T.; et al., 93b:81130**
Filippakis, T. (*with* Filippakis, P.; Vavougios, D.; Jannussis, A.) Positive Wigner distribution function as the common base of new creation and annihilation operators in phase space. **93b:81130**
Galetti, D. (*with* de Toledo Piza, A. F. R.) Discrete quantum phase spaces and the mod N invariance. (English summary) **93h:81070**
Gazeau, Jean-Pierre *see* **Ali, S. Twareque; et al., 93a:22002** *and* **93a:22003**
Govindarajan, T. R. *see* **Sudarshan, E. C. G.; et al., 93j:81024**
Góźdź, Andrzej (*with* Rogatko, Marek) The algebraic generator coordinate method for locally compact Lie groups. (English summary) **93k:81071**
Gröchenig, Karlheinz *see* **Feichtinger, Hans G., 93k:42017**
Hanna, M. H. *see* **Ahmad, Mubarak; et al., 93a:82063**
Jagannathan, Ramaswamy *see* **Chakrabarti, Ranabir, 93k:81092**
Jannussis, A. *see* **Baskoutas, S., 93b:81041** *and* **Filippakis, T.; et al., 93b:81130**
Jex, Igor (*with* Drobný, Gabriel) SU(1, 1) and SU(2) squeezing in trilinear optical processes. **93b:81319**
Kaiser, Gerald Wavelet electrodynamics. (English summary) **93f:78006**
Kakazu, Kiyotaka Equivalence classes and generalized coherent states in quantum measurement. **93b:81026**
— *see also* **Kudaka, Shoju, 93a:81026**
Karasëv, V. P. (*with* Puzyrevskiĭ, V. I.) Generalized coherent states in quantum optics. (Russian. English summary) **93c:81280**
Kuang, Le Man The q-supercoherent states of the q-deformed su(2) superalgebra. (English summary) **93j:81046**
— *see also* **Wang, Fa Bo, 93h:81062** *and* **93m:81067**
Kudaka, Shoju (*with* Kakazu, Kiyotaka) The Wigner-Araki-Yanase theorem and its extension in quantum measurement with generalized coherent states. **93a:81026**
Kumari, M. Krishna (*with* Shanta, P.; Chaturvedi, S.; Srinivasan, V.) On q-deformed para oscillators and para-q oscillators. (English summary) **93e:81051**
Lee, Ching Tsung Moment problem for a density matrix and a biorthogonal set of operator bases. (English summary) **93k:81259**
Luis, A. (*with* Sánchez-Soto, L. L.) Phase and statistical properties of multiphoton states. (English summary)
Lynch, R. (*with* Mavromatis, H. A.) Consideration of the general state which minimizes the Nth order minimum uncertainty product. (English summary) **93m:81168**
MacDowell, Samuel W. Realization of the discrete series of unitary representations of Sl(2, **R**) in terms of creation and annihilation operators. **93b:22027**
Mann, Ady (*with* Oz-Vogt, J.; Revzen, M.) Thermofield dynamics for quantum systems with a finite number of levels. (English summary) **93h:82005**
Mavromatis, H. A. *see* **Lynch, R., 93m:81168**
Mlak, Włodzimierz (*with* Stochel, Jan) A note on coherent states related to weighted shifts. **93k:47070**
Ohya, Masanori (*with* Suyari, Hiroki) Rigorous derivation of error probability in coherent optical communication. (English summary) **93i:81315**
Okołowicz, J. *see* **Caurier, E.; et al., 93a:81089**
Oz-Vogt, J. *see* **Mann, Ady; et al., 93h:82005**
(Pan, Feng) *see* **Ališauskas, Sigitas, 93c:81058**
Paprzycka, M. (*with* Tanaś, R.) Discrete superpositions of coherent states and phase properties of the m-photon anharmonic oscillator. (English summary)
Pedrosa, I. A. *see* **Dantas, Célia M. A.; et al., 93a:81031**
Płoszajczak, M. *see* **Caurier, E.; et al., 93a:81089**
Proto, A. N. *see* **Aliaga, J.; et al.** *and* **(93b:00027)**
Puzyrevskiĭ, V. I. *see* **Karasëv, V. P., 93c:81280**
Raina, T. K. *see* **Ahmad, Mubarak; et al., 93a:82063**
Rasetti, Mario *see* **Celeghini, E.; et al., 93c:81253**
Rawnsley, John Deformation quantization of Kähler manifolds. **93e:58075**
Revzen, M. *see* **Mann, Ady; et al., 93h:82005**
Rogatko, Marek *see* **Góźdź, Andrzej, 93k:81071**
Rovelli, Carlo *see* **Ashtekar, Abhay, 93h:83021**
Sánchez-Soto, L. L. *see* **Luis, A.**
Schempp, Walter Bohr's indeterminacy principle in quantum holography, self-adaptive neural networks, cortical self-organization, molecular computers, magnetic resonance imaging, and solitonic nanotechnology.
Seip, Kristian Addendum to: "Curves of maximum modulus in coherent state representations" [Ann. Inst. H. Poincaré Phys. Théor. **51** (1989), no. 4, 335–350; MR 91a:30018]. (English and French summaries) **93m:30035**
Shanta, P. (*with* Chaturvedi, S.; Srinivasan, V.) A model which interpolates between the Jaynes-Cummings model and the Buck-Sukumar model. **93b:81324**
— *see also* **Kumari, M. Krishna; et al., 93e:81051**
Srinivasan, V. *see* **Shanta, P.; et al., 93b:81324** *and* **Kumari, M. Krishna; et al., 93e:81051**
Stochel, Jan *see* **Mlak, Włodzimierz, 93k:47070**
Sudarshan, E. C. G. (*with* Anandan, J.; Govindarajan, T. R.) A group-theoretic treatment of the geometric phase. **93j:81024**
Suyari, Hiroki *see* **Ohya, Masanori, 93i:81315**
Takagi, Shin Quantum dynamics and noninertial frames of reference. II. Harmonic oscillators. **93c:81035**
Tanaś, R. *see* **Paprzycka, M.**
Tikoo, S. K. *see* **Ahmad, Mubarak; et al., 93a:82063**
de Toledo Piza, A. F. R. *see* **Galetti, D., 93h:81070**
Torrésani, Bruno Time-frequency representations: wavelet packets and optimal decomposition. (French summary) **93e:94004**
Trias, A. *see* **Buendía, G. M., 93g:81202**
Unterberger, A. Quantification relativiste. (English summary) [Relativistic quantization] **93d:58163**
Vavougios, D. *see* **Filippakis, T.; et al., 93b:81130**
Vitiello, G. *see* **Celeghini, E.; et al., 93c:81253**
Wang, Fa Bo (*with* Kuang, Le Man) Even and odd q-coherent state representations of the quantum Heisenberg-Weyl algebra. (English summary) **93h:81062**
— (*with* Kuang, Le Man) Even and odd q-coherent states and their optical statistics properties. (English summary) **93m:81067**
Watanabe, Noboru Efficiency of optical modulations with coherent state. (English summary) **93i:81317**
Weng, Hai Guang *see* **Fan, Hong Yi[1]**
Wünsche, Alfred Eigenvalue problem for arbitrary linear combinations of a boson annihilation and creation operator. **93m:81071**
Xu, Bo Wei (*with* Zeng, Qi) Coherent states of hydrogen atoms. (Chinese. English summary) **93b:81312**
Xu, Cai (*with* Zhou, Zhuo Mei) Temperature effect and coherent effect in supersymmetry. **93c:81055**
Yeh, Leehwa Generalization of the integration-within-ordered-product technique to n-mode operator ordering. **93a:81078**
Ypsilantis, K. *see* **Daskaloyannis, C., 93h:81058**
Zeng, Qi *see* **Xu, Bo Wei, 93b:81312**
Zhan, You Bang Amplitude-squared squeezing in the Dicke model. **93c:81283**
Zhong, Zai Zhe A remark on the classical realization of the double quantum group $SU_q(\eta, J)$. **93h:17050**
Zhou, Zhuo Mei *see* **Xu, Cai, 93c:81055**

81R40 Symmetry breaking

Doebner, Heinz-Dietrich (*with* Tolar, J.) Algebras and symmetries—quantum mechanical symmetry breaking. **93c:81076**
Kostelecký, V. Alan (*with* Samuel, Stuart) Gravity and Lorentz breakdown in higher-dimensional theories and strings. (*see* **93a:00022**)
March-Russell, John (*with* Preskill, John; Wilczek, Frank) Internal frame dragging and a global analog of the Aharonov-Bohm effect. **93a:81079**
Preskill, John Semilocal defects. (English summary) **93i:81087**
— (*with* Vilenkin, Alexander) Decay of metastable topological defects. (English summary) **93m:81058**
— *see also* **March-Russell, John; et al., 93a:81079**
Salmhofer, M. (*with* Seiler, Erhard) Erratum: "Proof of chiral symmetry breaking in strongly coupled lattice gauge theory" [Comm. Math. Phys. **139** (1991), no. 2, 395–432; MR 92g:81079]. **93c:81077**
Samuel, Stuart *see* **Kostelecký, V. Alan, (93a:00022)**
Seiler, Erhard *see* **Salmhofer, M., 93c:81077**
Tolar, J. *see* **Doebner, Heinz-Dietrich, 93c:81076**
Vilenkin, Alexander *see* **Preskill, John, 93m:81058**
Wilczek, Frank *see* **March-Russell, John; et al., 93a:81079**
Yukalov, V. I. Methods for breaking the symmetry of statistical systems. (Russian) (*see* **93d:58002**)

Items with secondary classifications in 81R40

Boyanovsky, Daniel Gauge invariance and broken symmetries in anyon superfluids. (English summary) **93g:82106**
Bucher, Martin (*with* Lo, Hoi-Kwong; Preskill, John) Topological approach to Alice electrodynamics. (English summary) **93k:81138**
— (*with* Lee, Kai-Ming; Preskill, John) On detecting discrete Cheshire charge. (English summary) **93k:81139**
Cho, Y. M. (*with* Zoh, S. W.) Gauge theory of Virasoro-Kac-Moody group. (English summary) **93g:81035**
— (*with* Zoh, S. W.) Virasoro invariance and theory of internal string. (English summary) **93j:81029**
Decker, Roger *see* **Genz, Henning, 93a:81001**
Fehér, László (*with* O'Raifeartaigh, Lochlainn; Ruelle, Philippe; Tsutsui, Izumi) Rational versus polynomial character of W_n^l-algebras. **93k:17054**
Ferretti, G. Chiral symmetry breaking in matrix quantum mechanics. **93g:81030**
Genz, Henning (*with* Decker, Roger) ★ Symmetrie und Symmetriebrechung in der Physik. (German) [Symmetry and symmetry-breaking in physics] **93a:81001**
Goto, Toru (*with* Okada, Yasuhiro) Nonlinear σ models and supersymmetry-breaking effects in supergravity. **93b:83062**
Heil, Alions Anton (*with* Kersch, A.; Papadopoulos, N. A.; Reifenhäuser, B.) Abelian charges in a nonabelian Yang-Mills theory from the stratification of the space of gauge potentials. (English summary) **93h:58032**
Imbrie, John Z. Supersymmetry breaking in Wess-Zumino models. (*see* **93g:81074**)
Ito, Ikuo (*with* Kon, Tadashi) Thermal properties of parasupersymmetric oscillator. (English summary) **93e:81056**
Ito, Masatoshi (*with* Morita, Katsusada) Spontaneous breakdown of symmetry in stochastic quantization. **93a:81094**
Jarvis, P. D. (*with* McAnally, David S.) Unified models from gauged supergroups. II. Exceptional series $D(2, 1; \alpha)$, $G(3)$, $F(4)$. **93b:81306**
Kersch, A. *see* **Heil, Alions Anton; et al., 93h:58032**
Kon, Tadashi *see* **Ito, Ikuo, 93e:81056**
Lee, Kai-Ming *see* **Bucher, Martin; et al., 93k:81139**
Lo, Hoi-Kwong *see* **Bucher, Martin; et al., 93k:81138**
Lüst, Dieter (*with* Muñoz, Carlos) Duality-invariant gaugino condensation and one-loop corrected Kähler potentials in string theory. **93a:81156**
Maharana, Jnanadeva Spontaneous symmetry breaking in 4-dimensional heterotic string. (*see* **93a:00022**)
McAnally, David S. *see* **Jarvis, P. D., 93b:81306**
McKeon, D. G. C. An extended Gross-Neveu model. (Ukrainian. English, Russian and Ukrainian summaries)
Morita, Katsusada *see* **Ito, Masatoshi, 93a:81094**
Morozov, A. Yu. (*with* Niemi, Antti J.; Palo, K.) Geometric approach to supersymmetry. (English summary) **93i:81273**
Moschella, U. A note on gauge symmetry breaking. **93i:81141**
Muñoz, Carlos *see* **Lüst, Dieter, 93a:81156**
Niemi, Antti J. *see* **Morozov, A. Yu.; et al., 93i:81273**
Nojiri, Shin'ichi $N = \frac{1}{2}$ superstring in zero dimension and the spontaneous breakdown of the supersymmetry. (English summary) **93i:81198**
Okada, Yasuhiro *see* **Goto, Toru, 93b:83062**

O'Raifeartaigh, Lochlainn *see* **Fehér, László; et al., 93k:17054**
Palo, K. *see* **Morozov, A. Yu.; et al., 93i:81273**
Papadopoulos, N. A. *see* **Heil, Alions Anton; et al., 93h:58032**
Preskill, John Quantum hair. **93f:83051**
— *see also* **Bucher, Martin; et al., 93k:81138** *and* **93k:81139**
Reifenhäuser, B. *see* **Heil, Alions Anton; et al., 93h:58032**
Ruelle, Philippe *see* **Fehér, László; et al., 93k:17054**
Sardanashvili, G. A. On the geometry of spontaneous symmetry breaking. **93d:53093**
Sartori, G. (*with* Talamini, V.) Universality in orbit spaces of compact linear groups. **93a:58051**
— Geometric invariant theory: a model-independent approach to spontaneous symmetry and/or supersymmetry breaking. **93f:58037**
Semenoff, Gordon W. (*with* Wijewardhana, L. C. R.) Dynamical violation of parity and chiral symmetry in three-dimensional four-Fermi theory. **93h:81148**
Song, He Shan *see* **Xu, Guang Nan**
Suzuki, Masuo Emerging broken symmetry in space and time. **93b:82049**
Talamini, V. *see* **Sartori, G., 93a:58051**
Talmadge, Andy A geometric formulation of the Higgs mechanism. **93a:81214**
Tsutsui, Izumi *see* **Fehér, László; et al., 93k:17054**
Turbiner, A. V. Errata: "A new phenomenon of nonanalyticity and spontaneous supersymmetry 'breaking' " [Phys. Lett. B **276** (1992), no. 1-2, 95–102; MR 92m:81066]. **93i:81046**
Wheeler, James T. SU(3) × SU(2) × U(1): the residual symmetry of conformal gravity. **93k:81261**
Wijewardhana, L. C. R. *see* **Semenoff, Gordon W., 93h:81148**
Xu, Guang Nan (*with* Song, He Shan) Dynamical breaking of supersymmetry by fermion pair condensation. (English summary)
Zhang, Huazhong Dynamical supersymmetry breaking and gauge anomalies. **93a:81194**
— Quantum aspects of zero modes, topological vacua and dynamical supersymmetry breaking in nonabelian gauge theories. **93d:81120**
Zoh, S. W. *see* **Cho, Y. M., 93g:81035** *and* **93j:81029**

81R50 Quantum groups and related algebraic methods [see also 16W30, 17B37]

Ahmed, Elsayed Mohamed (*with* Hegazi, A. S.) Finite temperature infinitesimally deformed classical and quantum gravity. (English summary) **93i:81088**
Akutsu, Yasuhiro *see* **Deguchi, Tetsuo, 93b:81111**
Aref'eva, I. Ya. (*with* Volovich, I. V.) Quantum group particles and non-Archimedean geometry. **93a:81080**
— (*with* Volovich, I. V.) Quantum group chiral fields and differential Yang-Baxter equations. **93d:81084**
Arnaudon, Daniel New fusion rules and $\mathcal{R}$-matrices for $SL(N)_q$ at roots of unity. **93d:81085**
Avancini, S. S. *see* **Menezes, D. P.; et al., 93i:81094**
de Azcárraga, J. A. *see* **Chaichian, M.; et al., 93i:81090**
Ballesteros, Angel (*with* Negro, Javier) A characterization of functional realizations of three-dimensional quantum groups. (English summary) **93k:81089**
Basu Mallick, B. (*with* Kundu, A.) Single q-oscillator mode realization of quantum group through canonical bosonizations of $SU(2)_q$ and q-oscillators. **93h:81053**
— (*with* Kundu, A.) Spectral parameter-dependent approach to quantized algebra, its multiparameter deformations and their q-oscillator realizations. (English summary) **93h:81054**
— (*with* Kundu, A.) Hidden quantum group structure in a relativistic quantum integrable model. (English summary) **93f:81052**
Beckers, J. (*with* Debergh, N.) On a general framework for q-particles, paraparticles and q-paraparticles through deformations. **93g:81046**
Biedenharn, L. C. A q-boson realization of the quantum group $SU_q(2)$ and the theory of q-tensor operators. (English summary) **93i:81089**
— (*with* Lohe, M. A.) Symmetries of quantum group coupling coefficients. (English summary) (*see* **93c:81004**)
— *see also* **Nomura, Masao, 93k:81104**
Bogush, A. A. On the composition of the parameters of the quantum group $GL_q(2, \mathbf{C})$. (Russian. English and Russian summaries) **93h:81055**
Bonatsos, Dennis (*with* Faessler, Amand; Raïchev, P. P.; Roussev, R. P.; Smirnov, Yu. F.) An exactly soluble nuclear model with $SU_q(3) \supset SU_q(2) \supset SO_q(2)$ symmetry. **93b:81105**
— (*with* Daskaloyannis, C.; Kokkotas, K.) Classical potentials for q-deformed anharmonic oscillators. **93b:81106**
Borisov, N. V. (*with* Il'inskiĭ, K. N.; Uzdin, V. M.) Quantum group particles and parastatistical excitations. (English summary) **93k:81090**
Bracken, Anthony J. *see* **Gould, M. D.; et al., 93g:81049**
Brodimas, G. (*with* Jannussis, A.; Mignani, R.) Bose realization of a noncanonical Heisenberg algebra. **93b:81107**
Butler, Philip H. *see* **Lienert, Cindy R., 93a:81083**
Carow-Watamura, Ursula (*with* Schlieker, Michael; Scholl, Marcus; Watamura, Satoshi) A quantum Lorentz group. **93a:81081**
Celeghini, E. Coherence and quantum groups. (*see* **93e:00025**)
— Nonsemisimple quantum algebras. **93j:81041**
Chaichian, M. (*with* Kulish, P. P.) Quantum superalgebras, q-oscillators and applications. **93k:81091**
— (*with* de Azcárraga, J. A.; Prešnajder, Peter; Ródenas, F.) Oscillator realization of the q-deformed anti-de Sitter algebra. (English summary) **93i:81090**
Chakrabarti, Ranabir (*with* Jagannathan, Ramaswamy) A two-parameter deformation of the Jaynes-Cummings model: path integral representation. (English summary) **93k:81092**
Chang, Darwin (*with* Phillips, I.; Rozansky, L.) R-matrix approach to quantum superalgebras $su_q(m|n)$. (English summary) **93i:81091**
Chang, Zhe The quantum multiboson algebra and generalized coherent states of $SU_q(1, 1)$. **93c:81078**
— Quantum group realized in a symmetric-top system. **93b:81108**
Chaturvedi, S. *see* **Kumari, M. Krishna; et al., 93e:81051**
Chernyak, V. Ya. (*with* Grigorishin, K. I.; Ogievetskiĭ, E. I.) Triangle equation and quantum algebra representations. **93g:81047**
Chryssomalakos, Chryss Coproduct of vector fields on the quantum Lorentz group. (English summary) **93k:81093**
Codriansky, Simón $SU(2)_q$ in a Hilbert space of analytic functions. **93h:81056**
Cornwell, J. F. Multiparameter deformations of the universal enveloping algebras of the simple Lie algebras A_l for all $l \geq 2$ and the Yang-Baxter equation. (English summary) **93j:81042b**
— A two-parameter deformation of the universal enveloping algebra of $sl(3, \mathbf{C})$. (English summary) **93j:81042a**
Couture, Michel Josaphat Quantum symmetries associated with the Perk-Schultz model. **93b:81109**
Damaskinskiĭ, E. V. (*with* Kulish, P. P.) Hermite q-polynomials and q-oscillators. (Russian. English summary) **93h:81057**
Daskaloyannis, C. Generalized deformed oscillator corresponding to the modified Pöschl-Teller energy spectrum. **93d:81086**
— (*with* Ypsilantis, K.) A deformed oscillator with Coulomb energy spectrum. (English summary) **93h:81058**
— Generalized deformed Virasoro algebras. **93b:81110**
— *see also* **Bonatsos, Dennis; et al., 93b:81106**
Debergh, N. *see* **Beckers, J., 93g:81046**
Deguchi, Tetsuo (*with* Akutsu, Yasuhiro) Colored braid matrices from infinite-dimensional representations of $U_q(g)$. **93b:81111**
Djemaï, A. E. F. Quantum mechanical Galilei group and q-planes. (English summary) **93j:81043**
Duan, Yi Shi *see* **Zhang, Sheng Li², 93j:81048**
Ewen, H. (*with* Ogievetskiĭ, O. V.; Wess, Julius) Quantum matrices in two dimensions. **93b:81112**
Faddeev, L. D. Quantum symmetry in conformal field theory by Hamiltonian methods. **93k:81094**
Faessler, Amand *see* **Bonatsos, Dennis; et al., 93b:81105**
Filippov, A. T. (*with* Isaev, A. P.; Kurdikov, A. B.) Para-Grassmann analysis and quantum groups. **93m:81059**
Floreanini, Roberto (*with* Vinet, Luc) q-conformal quantum mechanics and q-special functions. **93b:81113**
Frappat, L. (*with* Sciarrino, A.) A quasi-parafermionic realization of G_2 and $U_q(G_2)$. **93d:81087**
Freidel, Laurent (*with* Maillet, Jean-Michel) The universal R-matrix and its associated quantum algebra as functionals of the classical r-matrix. The sl_2 case. (English summary) **93k:81095**
Furlan, Paolo (*with* Ganchev, Alexander Ch.; Petkova, Valentina B.) Fusion rules, quantum groups and the Coulomb gas. (*see* **93f:81005**)
Ganchev, Alexander Ch. *see* **Furlan, Paolo; et al., (93f:81005)**
Gangopadhyay, Debashis On canonical q-transformations with two q-oscillators. **93g:81048**
Ge, Mo Lin (*with* Sun, Chang Pu; Xue, Kang) Construction of general colored R matrices for the Yang-Baxter equation and q-boson realization of quantum algebra $sl_q(2)$ when q is a root of unity. (English summary) **93k:81096**
— (*with* Wu, A. C. T.) Quantum groups constructed from the nonstandard braid group representations in the Faddeev-Reshetikhin-Takhtajan approach. II. **93h:81059**
— (*with* Liu, Xu Feng) A new kind of R-matrix associated with the Hopf algebra $U_q(A_2(\mu))$. **93i:81092**
— *see also* **Sun, Chang Pu; et al., 93a:81084**
Giller, S. (*with* Kosiński, P.; Majewski, Michał; Maślanka, P.; Kunz, Jutta) More about the q-deformed Poincaré algebra. (English summary) **93e:81049**
Gould, M. D. (*with* Links, J. R.; Bracken, Anthony J.) Matrix elements and Wigner coefficients for $U_q[gl(n)]$. **93g:81049**
— Reduced Wigner coefficients for $U_q[gl(n)]$. **93g:81050**
Grakhovskaya, O. B. *see* **Granovskiĭ, Ya. I.; et al., 93c:81079**
Granovskiĭ, Ya. I. (*with* Zhedanov, A. S.) "Twisted" Clebsch-Gordan coefficients for $SU_q(2)$. (English summary) **93e:81050**
— (*with* Zhedanov, A. S.; Grakhovskaya, O. B.) Addition rule for nonlinear algebras. **93c:81079**
Greenberg, O. W. Interactions of particles having small violations of statistics. **93h:81060**
Grigorishin, K. I. *see* **Chernyak, V. Ya.; et al., 93g:81047**
Hayashi, Takahiro An algebra related to the fusion rules of Wess-Zumino-Witten models. **93b:81114**
Hegazi, A. S. *see* **Ahmed, Elsayed Mohamed, 93i:81088**
Hirayama, Minoru Gauge field theory of the quantum group $SU_q(2)$. (English summary) **93j:81044**
Iida, Shinji (*with* Kuratsuji, Hiroshi) Quantum algebra near $q = 1$ and a deformed symplectic structure. (English summary) **93f:81053**
Il'inskiĭ, K. N. *see* **Borisov, N. V.; et al., 93k:81090**
Isaev, A. P. (*with* Popowicz, Ziemowit) q-trace for quantum groups and q-deformed Yang-Mills theory. **93i:81093**
— *see also* **Filippov, A. T.; et al., 93m:81059**
Itoyama, H. Quantum groups, braiding matrices and coset models. **93c:81080**
Ivanov, I. T. (*with* Uglov, D. B.) R-matrices for the semicyclic representations of $U_q\widehat{sl}(2)$. **93j:81045**
Jagannathan, Ramaswamy (*with* Sridhar, Raghavendra; Vasudevan, R.; et al.) On the number operators of multimode systems of deformed oscillators covariant under quantum groups. (English summary) **93m:81061**
— *see also* **Chakrabarti, Ranabir, 93k:81092**
Jannussis, A. *see* **Brodimas, G.; et al., 93b:81107**
Jing, Si Cong The Jordan-Schwinger realization of two-parametric quantum group $sl_{q,s}(2)$. (English summary) **93k:81097**
Kachurik, I. I. Asymptotic relations in the q-analogue of the quantum theory of angular momentum. (Russian. English, Russian and Ukrainian summaries) **93k:81098**
Kashaev, R. M. (*with* Mangazeev, V. V.) $N^{n(n-1)/2}$-state intertwiner related to $U_q(sl(n))$ algebra at $q^{2N} = 1$. (English summary) **93k:81099**
Kempf, Achim Quantum group-symmetric Fock spaces with Bargmann-Fock representation.

(English summary) **93k:81100**
— Quantum group symmetric Bargmann-Fock space: integral kernels, Green functions, driving forces. (English summary) **93m:81062**
Khadzhiivanov, L. K. (*with* Paunov, R. R.; Todorov, Ivan T.) U_q covariant oscillators and vertex operators. **93a:81082**
Kharitonov, Yu. I. *see* **Smirnov, Yu. F.; et al., 93d:81090**
Kibler, Maurice (*with* Négadi, Tidjani) On quantum groups and their potential use in mathematical chemistry. (English summary) **93k:81101**
— *see also* **Négadi, Tidjani, 93b:81116**
Kokkotas, K. *see* **Bonatsos, Dennis; et al., 93b:81106**
Kosiński, P. *see* **Giller, S.; et al., 93e:81049**
Kuang, Le Man The q-supercoherent states of the q-deformed su(2) superalgebra. (English summary) **93j:81046**
— *see also* **Wang, Fa Bo, 93b:81062** *and* **93m:81067**
Kulish, P. P. *see* **Damaskinskiĭ, E. V., 93b:81057** *and* **Chaichian, M., 93k:81091**
Kumari, M. Krishna (*with* Shanta, P.; Chaturvedi, S.; Srinivasan, V.) On q-deformed para oscillators and para-q oscillators. (English summary) **93e:81051**
Kundu, A. *see* **Basu Mallick, B., 93f:81052; 93h:81053** *and* **93h:81054**
Kunz, Jutta *see* **Giller, S.; et al., 93e:81049**
Kuratsuji, Hiroshi *see* **Iida, Shinji, 93f:81053**
Kurdikov, A. B. *see* **Filippov, A. T.; et al., 93m:81059**
LeClair, André (*with* Smirnov, F. A.) Infinite quantum group symmetry of fields in massive 2D quantum field theory. **93h:81061**
Liao, Li (*with* Song, Xing Chang) Quantum Lie superalgebras and "nonstandard" braid group representations. **93d:81088**
— *see also* **Song, Xing Chang, 93b:81117**
Lienert, Cindy R. (*with* Butler, Philip H.) Racah-Wigner algebra for q-deformed algebras. **93a:81083**
Links, J. R. *see* **Gould, M. D.; et al., 93g:81049**
Liu, Xu Feng *see* **Sun, Chang Pu; et al., 93a:81084** *and* **Ge, Mo Lin, 93i:81092**
Lohe, M. A. *see* **Biedenharn, L. C., (93c:81004)**
López-Peña, R. (*with* Urrutia, Luis F.; Zertuche, Federico) Realizations for $SU(2)_q$ and $SU(1,1)_q$ in terms of underlying Lie algebras. (English and Spanish summaries) **93j:81047**
Macfarlane, A. J. (*with* Majid, Shahn) Spectrum generating quantum group of the harmonic oscillator. (English summary) **93m:81063**
Mack, Gerhard (*with* Schomerus, Volker) Quasi Hopf quantum symmetry in quantum theory. **93c:81081**
MacKay, N. J. New factorized S-matrices associated with $SO(N)$. **93b:81115**
— The fusion of R-matrices using the Birman-Wenzl-Murakami algebra. **93f:81054**
Maekawa, Takayoshi On the Wigner and the Racah coefficients of $su_q(2)$ and $su_q(1,1)$. **93e:81052**
Maillet, Jean-Michel *see* **Freidel, Laurent, 93k:81095**
Majewski, Michał *see* **Giller, S.; et al., 93e:81049**
Majid, Shahn *see* **Macfarlane, A. J., 93m:81063**
Mangazeev, V. V. *see* **Kashaev, R. M., 93k:81099**
Marchiafava, Stefano (*with* Rembieliński, Jakub) Quantum quaternions. **93g:81051**
Martin, Paul Purdon (*with* McAnally, David S.) On commutants, dual pairs and non-semisimple algebras from statistical mechanics. (English summary) **93k:81102**
Maślanka, P. *see* **Giller, S.; et al., 93e:81049**
Matheus-Valle, J. L. (*with* Rego Monteiro, M. A.) Quantum group generalization of the classical supersymmetric point particle. (English summary) **93k:81103**
— (*with* Rego Monteiro, M. A.) Quantum group generalization of the heterotic QFT. (English summary) **93m:81060**
Matsuzaki, T. (*with* Suzuki, Takashi) A representation of $U_q(su(1,1))$ on the space of quasi-primary fields and correlation functions. (English summary) **93m:81064**
McAnally, David S. *see* **Martin, Paul Purdon, 93k:81102**
Menezes, D. P. (*with* Avancini, S. S.; Providência, C.) Quantum algebraic description of the Moszkowski model. (English summary) **93i:81094**
Mignani, R. *see* **Brodimas, G.; et al., 93b:81107**
Négadi, Tidjani (*with* Kibler, Maurice) A q-deformed Aufbau Prinzip. **93b:81116**
— *see also* **Kibler, Maurice, 93k:81101**
Negro, Javier *see* **Ballesteros, Angel, 93k:81089**
Nomura, Masao Co- and contra-variant tensors of a general rank in quantum matrix algebras $su_q(2)$ expressed by creation-annihilation operators. II. **93e:81053**
— (*with* Biedenharn, L. C.) On the q-symplecton realization of the quantum group $SU_q(2)$. (English summary) **93k:81104**
— Covariant exchange algebras and quantum groups. I. **93i:81095**
Ogievetskiĭ, E. I. *see* **Chernyak, V. Ya.; et al., 93g:81047**
Ogievetskiĭ, O. V. *see* **Ewen, H.; et al., 93b:81112**
Pan, Feng Quantum deformations of SU(3) and subalgebras. (English summary) **93m:81065**
Paunov, R. R. *see* **Khadzhiivanov, L. K.; et al., 93a:81082**
Petkova, Valentina B. *see* **Furlan, Paolo; et al., (93f:81005)**
Phillips, I. *see* **Chang, Darwin; et al., 93i:81091**
Podleś, Piotr Quantization enforces interaction. Quantum mechanics of two particles on a quantum sphere. (English summary) **93k:81105**
Popowicz, Ziemowit *see* **Isaev, A. P., 93i:81093**
Prešnajder, Peter *see* **Chaichian, M.; et al., 93i:81090**
Providência, C. *see* **Menezes, D. P.; et al., 93i:81094**
Pusz, W. (*with* Woronowicz, S. L.) Twisted second quantization. **93c:81082**
Quesne, C. Complementarity of $su_q(3)$ and $u_q(2)$ and q-boson realization of the $su_q(3)$ irreducible representations. (English summary) **93k:81106**
Raichev, P. P. *see* **Bonatsos, Dennis; et al., 93b:81105**
Rego Monteiro, M. A. *see* **Matheus-Valle, J. L., 93k:81103** *and* **93m:81060**
Rembieliński, Jakub Noncommutative relativistic kinematics. (English summary) **93g:81052**
— *see also* **Marchiafava, Stefano, 93g:81051**
Ródenas, F. *see* **Chaichian, M.; et al., 93i:81090**
Roussev, R. P. *see* **Bonatsos, Dennis; et al., 93b:81105**
Rozansky, L. *see* **Chang, Darwin; et al., 93i:81091**
Schlieker, Michael *see* **Carow-Watamura, Ursula; et al., 93a:81081**
Schmidke, W. B. (*with* Wess, Julius; Zumino, Bruno) A q-deformed Lorentz algebra. **93d:81089**
Scholl, Marcus *see* **Carow-Watamura, Ursula; et al., 93a:81081**
Schomerus, Volker *see* **Mack, Gerhard, 93c:81081**
Sciarrino, A. q-oscillators realization of $F_q(4)$ and $G_q(3)$. **93f:81055**
— *see also* **Frappat, L., 93d:81087**
Shabanov, S. V. The Poisson bracket for q-deformed systems. (English summary) **93k:81107**
Shanta, P. *see* **Kumari, M. Krishna; et al., 93e:81051**
Shibukawa, Youichi (*with* Ueno, Kimio) Completely **Z** symmetric R matrix. (English summary) **93m:81066**
Shiraishi, Jun'ichi Free boson representation of $U_q(\hat{sl}_2)$. (English summary) **93k:81108**
Smirnov, F. A. *see* **LeClair, André, 93h:81061**
Smirnov, Yu. F. (*with* Tolstoĭ, V. N.; Kharitonov, Yu. I.) Projection operator method and q-analog of angular momentum theory. **93d:81090**
— (*with* Tolstoĭ, V. N.) On complementary relations between the unitary quantum algebras. (English summary) (*see* **93e:81150**)
— (*with* Wehrhahn, Rodolfo) The Clebsch-Gordan coefficients for the two-parameter quantum algebra $SU_{p,q}(2)$ in the Löwdin-Shapiro approach. (English summary) **93k:81109**
— *see also* **Bonatsos, Dennis; et al., 93b:81105**
Song, Xing Chang (*with* Liao, Li) The quantum Schrödinger equation and the q-deformation of the hydrogen atom. **93b:81117**
— Spinor analysis for the quantum group $SU_q(2)$. **93e:81054**
— *see also* **Liao, Li, 93d:81088**
Soni, S. K. Classical spin dynamics and quantum algebras. **93c:81083**
Spiridonov, V. P. Exactly solvable potentials and quantum algebras. **93c:81084**
Sridhar, Raghavendra *see* **Jagannathan, Ramaswamy; et al., 93m:81061**
Srinivasan, V. *see* **Kumari, M. Krishna; et al., 93e:81051**
Sun, Chang Pu (*with* Xue, Kang; Liu, Xu Feng; Ge, Mo Lin) Boson realization of nongeneric $sl_q(2)$-R matrices for the Yang-Baxter equation. **93a:81084**
— *see also* **Ge, Mo Lin; et al., 93k:81096**
Suzuki, Takashi *see* **Matsuzaki, T., 93m:81064**
Todorov, Ivan T. Quantum groups as symmetries of chiral conformal algebras. (English summary) **93k:81110**
— *see also* **Khadzhiivanov, L. K.; et al., 93a:81082**
Tolstoĭ, V. N. *see* **Smirnov, Yu. F.; et al., 93d:81090** *and* **(93e:81150)**
Ueno, Kimio *see* **Shibukawa, Youichi, 93m:81066**
Uglov, D. B. *see* **Ivanov, I. T., 93j:81045**
Urrutia, Luis F. *see* **López-Peña, R.; et al., 93j:81047**
Uzdin, V. M. *see* **Borisov, N. V.; et al., 93k:81090**
Vasudevan, R. *see* **Jagannathan, Ramaswamy; et al., 93m:81061**
Vinet, Luc *see* **Floreanini, Roberto, 93b:81113**
Volovich, I. V. *see* **Arefʹeva, I. Ya., 93a:81080** *and* **93d:81084**
Wang, Fa Bo (*with* Kuang, Le Man) Even and odd q-coherent state representations of the quantum Heisenberg-Weyl algebra. (English summary) **93h:81062**
— (*with* Kuang, Le Man) Even and odd q-coherent states and their optical statistics properties. (English summary) **93m:81067**
Watamura, Satoshi *see* **Carow-Watamura, Ursula; et al., 93a:81081**
Wehrhahn, Rodolfo *see* **Smirnov, Yu. F., 93k:81109**
Wess, Julius *see* **Ewen, H.; et al., 93b:81112** *and* **Schmidke, W. B.; et al., 93d:81089**
Woronowicz, S. L. *see* **Pusz, W., 93c:81082**
Wu, A. C. T. *see* **Ge, Mo Lin, 93h:81059**
Xue, Kang *see* **Sun, Chang Pu; et al., 93a:81084** *and* **Ge, Mo Lin; et al., 93k:81096**
Yan, Hong Solutions to the q-deformed oscillator system and q-oscillator algebra. (Chinese. English summary) **93c:81085**
— On q-deformed oscillator systems and the q-oscillator algebra $H_q(4)$. **93a:81085**
Ypsilantis, K. *see* **Daskaloyannis, C., 93h:81058**
Yu, Zu Rong Some realizations of the quantum algebra $U_q(su(2))$. **93b:81118**
Zachos, Cosmas Altering the symmetry of wave functions in quantum algebras and supersymmetry. **93a:81086**
Zertuche, Federico *see* **López-Peña, R.; et al., 93j:81047**
Zhang, R. B. A two-parameter quantization of osp(4/2). (English summary) **93e:81055**
Zhang, Sheng Li² (*with* Duan, Yi Shi) The quantum group $SU_q(2)$ and q-analogue of angular momenta in classical mechanics. (English summary) **93j:81048**
Zhedanov, A. S. "Nonclassical" q-oscillator realization of the quantum SU(2) algebra. **93c:81086**
— Bogoliubov q-transformation and Clebsch-Gordan coefficients for a q-oscillator. **93b:81119**
— *see also* **Granovskiĭ, Ya. I.; et al., 93c:81079** *and* **93e:81050**
Zumino, Bruno Deformation of the quantum mechanical phase space with bosonic or fermionic coordinates. **93a:81087**
— *see also* **Schmidke, W. B.; et al., 93d:81089**

Items with secondary classifications in 81R50

Aldaya, Víctor (*with* Navarro-Salas, José; Navarro, Miguel) Hidden symmetries in field theory. (English summary) **93j:81084**
Alekseev, A. Yu. (*with* Faddeev, L. D.) $(T^*G)_t$: a toy model for conformal field theory. **93g:81138**
— (*with* Faddeev, L. D.; Semenov-Tyan-Shanskiĭ, M. A.) Hidden quantum groups inside Kac-Moody algebras. **93i:17013**
— (*with* Faddeev, L. D.; Semenov-Tyan-Shanskiĭ, M. A.) Hidden quantum groups inside Kac-Moody algebra. (English summary) **93j:17017**
Altschüler, D. *see* **Saleur, H., 93b:17051**
Andersen, Henning Haahr (*with* Polo, Patrick; Wen, Ke Xin) Injective modules for quantum algebras. **93j:17018**
— (*with* Wen, Ke Xin) Representations of quantum algebras. The mixed case. **93j:17019**

Andruskiewitsch, Nicolás (*with* Enriquez, Benjamin) Examples of compact matrix pseudogroups arising from the twisting operation. (English summary) **93k:17022**

Aref'eva, I. Ya. Quantum group gauge fields. (*see* **93h:81003**)

Arik, Metin (*with* Mungan, Muhittin) q-oscillators and relativistic position operators. **93b:81120**

— (*with* Demircan, E.; Turgut, T.; Ekinci, L.; Mungan, Muhittin) Fibonacci oscillators. (English summary) **93g:81069**

Arnaudon, Daniel On periodic representations of quantum groups. (English summary) **93k:17024**

Awata, Hidetoshi (*with* Yamada, Yasuhiko) Fusion rules for the q-vertex operators of $U_q(\widehat{\mathrm{sl}(2)})$. (English summary) **93j:17020**

Baez, John C. Differential calculi on quantum vector spaces with Hecke-type relations. **93c:58019**

Bántay, P. Orbifolds and Hopf algebras. (*see* **93f:81005**)

— Orbifolds, Hopf algebras, and the Moonshine. **93e:17012**

Basu Mallick, B. *see* **Kundu, A., 93i:82033** *and* **93j:58063**

Batchelor, Murray T. $U_q[\mathrm{SU}(2)]$-invariant spin chains, related algebras and finite-size corrections. (English summary) **93g:82032**

Baxter, Rodney James *see* **Bazhanov, V. V., 93j:82016**

Bazhanov, V. V. (*with* Kashaev, R. M.; Mangazeev, V. V.; Stroganov, Yu. G.) $(Z_N\times)^{n-1}$ generalization of the chiral Potts model. **93d:82019**

— (*with* Baxter, Rodney James) New solvable lattice models in three dimensions. (English summary) **93j:82016**

Bednář, M. (*with* Burdík, Č.; Couture, Michel Josaphat; Hlavatý, Ladislav) On the quantum symmetries associated with the two parameter free fermion model. **93c:17023**

Bégin, L. (*with* Mathieu, Pierre; Walton, M. A.) $\widehat{\mathrm{su}}(3)_k$ fusion coefficients. (English summary) **93j:81028**

Belavin, A. A direct calculation of the spectrum of masses in an integrable model from the Hopf-algebra symmetry. **93h:81106**

Bernard, Denis Quantum Lie algebras and differential calculus on quantum groups. (English summary) **93g:58007**

— (*with* LeClair, André) Quantum group symmetries and nonlocal currents in 2D QFT. **93d:81148**

— (*with* LeClair, André) Nonlocal currents in 2D QFT: an alternative to the quantum inverse scattering method. **93i:81210**

— À propos du calcul différentiel sur les groupes quantiques. (English and French summaries) [Concerning the differential calculus on quantum groups] **93h:58010**

Biedenharn, L. C. (*with* Lohe, M. A.) Induced representations and tensor operators for quantum groups. (English summary) **93j:17021**

— (*with* Lohe, M. A.) An extension of the Borel-Weil construction to the quantum group $\mathrm{U}_q(n)$. **93h:17023**

Bogolyubov, N. M. (*with* Bullough, R. K.) A q-deformed completely integrable Bose gas model. **93f:81164**

— (*with* Bullough, R. K.) Completely integrable model of interacting q-bosons. (English summary) **93i:82011**

Bonatsos, Dennis Quantum algebras in nuclear physics. (English summary) (*see* **93e:81150**)

— (*with* Daskaloyannis, C.; Kokkotas, K.) WKB equivalent potentials for q-deformed harmonic and anharmonic oscillators. (English summary) **93f:81034**

— (*with* Faessler, Amand; Raichev, P. P.; Roussev, R. P.; Smirnov, Yu. F.) $B(\mathrm{E2})$ transition probabilities in the q-rotator model with $\mathrm{SU}_q(2)$ symmetry. **93b:81308**

— (*with* Daskaloyannis, C.) Generalized deformed oscillators for vibrational spectra of diatomic molecules. **93d:81195**

Bonechi, F. (*with* Celeghini, E.; Giachetti, Riccardo; Sorace, E.; Tarlini, M.) Heisenberg XXZ model and quantum Galilei group. (English summary) **93f:82018**

Bonneau, Philippe (*with* Flato, Moshé; Pinczon, Georges) A natural and rigid model of quantum groups. (English summary) **93k:17025**

Bourdeau, Michelle Hilda (*with* Mlawer, Eli J.; Riggs, Harold; Schnitzer, Howard J.) The quasi-rational fusion structure of $\mathrm{SU}(m|n)$ Chern-Simons and WZW theories. **93i:81267**

Bożejko, Marek A q-deformed probability, Nelson's inequality and central limit theorems. **93a:81098**

Bracken, Anthony J. *see* **Gould, M. D.; et al., 93f:17022**

Brzeziński, Tomasz (*with* Dąbrowski, H.; Rembieliński, Jakub) On the quantum differential calculus and the quantum holomorphicity. **93c:58020**

— (*with* Rembieliński, Jakub) q-integrals on the quantum complex plane. **93c:58021**

— (*with* Majid, Shahn) A class of bicovariant differential calculi on Hopf algebras. (English summary) **93k:58010**

Bullough, R. K. *see* **Bogolyubov, N. M., 93f:81164** *and* **93i:82011**

Burdík, Č. (*with* Havlíček, M.; Vančura, A.) Irreducible highest weight representations of quantum groups $U_q(\mathrm{gl}(n,\mathbf{C}))$. (English summary) **93i:17014**

— (*with* Hellinger, Petr) The universal R-matrix and the Yang-Baxter equation with parameters. (English summary) **93j:82019**

— *see also* **Bednář, M.; et al., 93c:17023**

Burroughs, Nigel The quantum group methods of quantising the special linear group $\mathrm{SL}(2,\mathbf{C})$. **93a:17010**

Bužek, Vladimír The Jaynes-Cummings model with a q analogue of a coherent state. **93b:81315**

Caldi, D. G. Classical SU(2) invariance of quantum SU(2)-invariant Hamiltonians. (English summary) **93h:82006**

Campigotto, C. *see* **Drăgănescu, Gh. E.; et al., 93m:81054**

Carow-Watamura, Ursula (*with* Schlieker, Michael; Watamura, Satoshi; Weich, Wolfgang) Bicovariant differential calculus on quantum groups $\mathrm{SU}_q(N)$ and $\mathrm{SO}_q(N)$. **93c:58022**

Caselle, M. (*with* Ponzano, G.; Ravanini, F.) Towards a classification of fusion rule algebras in rational conformal field theories. (English summary) **93j:81087**

Castellani, Leonardo Bicovariant differential calculus on the quantum $D=2$ Poincaré group. **93c:58023**

— Gauge theories of quantum groups. (English summary) **93f:81080**

Celeghini, E. (*with* Giachetti, Riccardo; Sorace, E.; Tarlini, M.) Contractions of quantum groups. **93j:17022**

— *see also* **Bonechi, F.; et al., 93f:82018**

Chaichian, M. (*with* Prešnajder, Peter) Sugawara construction and the q-deformation of Virasoro algebra. (English summary) **93k:17027**

— (*with* Prešnajder, Peter) Sugawara construction and the q-deformation of Virasoro (super)algebra. **93d:17030**

Chair, Noureddine (*with* Zhu, Chuan Jie) Tetrahedra and polynomial equations in topological field theory. **93b:81242**

Chakrabarti, Ranabir (*with* Jagannathan, Ramaswamy) On the representations of $\mathrm{GL}_{p,q}(2)$, $\mathrm{GL}_{p,q}(1|1)$ and noncommutative spaces. **93a:17011**

— (*with* Jagannathan, Ramaswamy) A (p,q)-deformed Virasoro algebra. **93e:17040**

Chang, Zhe Generalized Holstein-Primakoff realizations and quantum group-theoretic coherent states. (English summary) **93h:81063**

— (*with* Guo, Han Ying; Yan, Hong) The q-Hermite polynomial and the representations of Heisenberg and quantum Heisenberg algebras. **93a:33032**

— The quantum q-deformed symmetric top: an exactly solved model. **93c:81027**

— Minimum-uncertainty states, a two-photon system, and quantum-group symmetry. (English summary) **93k:81273**

— Dynamics of generalized photonic fields interacting with atoms. (English summary) **93k:81274**

Chari, Vyjayanthi (*with* Pressley, Andrew) Introduction to quantum groups. **93f:17019**

Chaturvedi, S. *see* **Shanta, P.; et al., 93b:81324**

Chen, Jin Quan *see* **Pan, Feng, 93g:17030**

Chernyak, V. Ya. (*with* Grigorishin, K. I.; Ogievetskiĭ, E. I.) Universal R-matrix and representation theory for quantum groups. **93e:17013**

— (*with* Grigorishin, K. I.; Ogievetskiĭ, E. I.) Quantum group bootstrap approach and infinite-dimensional factorized scattering matrices. **93e:17014**

— (*with* Grigorishin, K. I.; Ogievetskiĭ, E. I.) Quantum group bootstrap approach. Application to the extended Heisenberg group. **93e:17015**

Chryssomalakos, Chryss (*with* Drabant, Bernhard; Schlieker, Michael; Weich, Wolfgang; Zumino, Bruno) Vector fields on complex quantum groups. (English summary) **93j:17023**

Couture, Michel Josaphat *see* **Bednář, M.; et al., 93c:17023**

Cremmer, Eugène (*with* Gervais, Jean-Loup) The quantum strip: Liouville theory for open strings. **93i:81214**

Curtright, Thomas Quantum Bäcklund transformations and conformal algebras. **93c:81064**

— *see also* **Quantum field theory, statistical mechanics, quantum groups and topology, 93m:81007**

Dąbrowski, H. *see* **Brzeziński, Tomasz; et al., 93c:58020**

Dąbrowski, Ludwik (*with* Wang, Lu Yu) Two-parameter quantum deformation of GL(1|1). **93e:17016**

Daskaloyannis, C. *see* **Bonatsos, Dennis, 93d:81195** *and* **93f:81034**

De Concini, Corrado (*with* Kac, Victor G.; Procesi, Claudio) Quantum coadjoint action. **93f:17020**

Demidov, E. E. (*with* Manin, Yu. I.; Mukhin, E. E.; Zhdanovich, D. V.) Nonstandard quantum deformations of $\mathrm{GL}(n)$ and constant solutions of the Yang-Baxter equation. **93g:17022**

Demircan, E. *see* **Arik, Metin; et al., 93g:81069**

Destri, C. (*with* de Vega, H. J.) Bethe ansatz and quantum groups: the light-cone lattice approach. I. Six vertex and SOS models. **93h:82016**

Dobrev, V. K. Classification and characters of $U_q(\mathrm{sl}(3,\mathbf{C}))$ representations. (English summary) **93m:17009**

— Characters of the $U_q(\mathrm{sl}(3,\mathbf{C}))$ highest weight modules. (English summary) **93f:17021**

— Representations of quantum groups. **93h:17024**

— Duality for the matrix quantum group $\mathrm{GL}_{p,q}(2,\mathbf{C})$. (English summary) **93h:17025**

(Doebner, Heinz-Dietrich) *see* **Quantum groups, 93h:00020**

Drabant, Bernhard (*with* Schlieker, Michael; Weich, Wolfgang; Zumino, Bruno) Complex quantum groups and their dual Hopf algebras. (English summary) **93m:17010**

— (*with* Schlieker, Michael; Weich, Wolfgang; Zumino, Bruno) Complex quantum groups and their quantum enveloping algebras. (English summary) **93i:17015**

— (*with* Jurčo, Branislav; Schlieker, Michael; Weich, Wolfgang; Zumino, Bruno) The Hopf algebra of vector fields on complex quantum groups. (English summary) **93h:17026**

— *see also* **Chryssomalakos, Chryss; et al., 93j:17023**

Drăgănescu, Gh. E. (*with* Campigotto, C.; Kibler, Maurice) On a generalized Aharonov-Bohm plus Coulomb system. (English summary) **93m:81054**

(Drinfel'd, V. G.) *see* **Schmid, Rudolf, 93i:01023**

Egusquiza, I. L. Quantum group invariance in quantum sphere valued statistical models. **93a:82018**

Ekinci, L. *see* **Arik, Metin; et al., 93g:81069**

Enriquez, Benjamin *see* **Andruskiewitsch, Nicolás, 93k:17022**

Faddeev, L. D. *see* **Alekseev, A. Yu., 93g:81138; 93i:17013** *and* **93j:17017**

Faessler, Amand *see* **Bonatsos, Dennis; et al., 93b:81308**

Fateev, V. A. (*with* Luk'yanov, S. L.) Vertex operators and representations of quantum universal enveloping algebras. **93g:17024**

Felder, G. (*with* Wieczerkowski, C.) Topological representations of the quantum group $U_q(\mathrm{sl}_2)$. **93c:17024**

— (*with* LeClair, André) Restricted quantum affine symmetry of perturbed minimal conformal models. (English summary) **93i:81226**

Filk, Thomas Field theory on the quantum plane. (English summary) **93i:81229**

— Noncommutative random walks. **93d:82046**

Fivel, Daniel I. Errata: "Interpolation between Fermi and Bose statistics using generalized commutators" [Phys. Rev. Lett. **65** (1990), no. 27, 3361–3364; MR 91m:81108].

Flato, Moshé *see* **Bonneau, Philippe; et al., 93k:17025**

Floratos, E. G. The many-body problem for q-oscillators. **93a:81221**

Foda, Omar (*with* Miwa, Tetsuji) Corner transfer matrices and quantum affine algebras. (English summary) **93k:82014**

Fröhlich, Jürg (*with* Gabbiani, F.; Marchetti, P. A.) Braid statistics in three-dimensional local quantum theory. **93a:81112**

— (*with* Gabbiani, F.; Marchetti, P. A.) Braid statistics in three-dimensional local quantum theory. (*see* **93i:81122**)

Fronsdal, C. $\mathrm{gl}_q(n)$ and quantum monodromy. **93f:58098**

Fu, Hong Chen (*with* Ge, Mo Lin) Verma module of the quantum group $\mathrm{GL}(n)_q$ and its q-boson and Heisenberg-Weyl relation realizations. **93i:17016**

— (*with* Ge, Mo Lin) q-boson realization of quadratic algebra $\mathscr{A}_3$ and its representations. (English summary) **93j:17024**

— (*with* Ge, Mo Lin) Construction of cyclic representations of quantum algebras at $q^p = 1$ from their regular representations. (English summary) **93k:17028**

Fuchs, Jürgen WZW quantum dimensions. (English summary) **93i:81231**

Furlan, Paolo (*with* Ganchev, Alexander Ch.; Petkova, Valentina B.) Remarks on the quantum group structure of the rational $c < 1$ conformal theories. **93h:81117**

— (*with* Khadzhiivanov, L. K.; Todorov, Ivan T.) Quantum deformation of the ladder representations of U(1, 1) for $|q| = 1$. (English summary) **93j:17025**

Gabbiani, F. *see* **Fröhlich, Jürg; et al., 93a:81112** *and* **(93i:81122)**

Ganchev, Alexander Ch. *see* **Furlan, Paolo; et al., 93h:81117**

Ge, Mo Lin (*with* Liu, Xu Feng; Sun, Chang Pu) New boson representations of the $\mathrm{sl}_q(2)$ with multiplicity two and new solutions to the Yang-Baxter equation at $q^p = 1$. **93b:17042**

— (*with* Liu, Xu Feng; Sun, Chang Pu) Representations of quantum matrix algebra $M_q(2)$ and its q-boson realization. **93e:17017**

— (*with* Jing, Nai Huan; Liu, G.-Q.) On quantum groups for Z_N models. **93d:82031**

— (*with* Liu, Xu Feng; Sun, Chang Pu) The cyclic representations of the quantum algebra $U_q(\mathrm{osp}(2, 1))$ in terms of the Z^n-algebra. **93j:17026**

— (*with* Sun, Chang Pu; Xue, Kang) New R-matrices for the Yang-Baxter equation associated with the representations of the quantum superalgebra $U_q\mathrm{osp}(1, 2)$ with q a root of unity. **93d:17020**

— *see also* **Fu, Hong Chen, 93i:17016; 93j:17024; 93k:17028; Sun, Chang Pu, 93k:17038** *and* **Su, Gang, 93k:82008**

Gekhtman, M. I. On the selfadjointness of operators for the representation of the quantum $*$-algebras $\mathrm{sl}_t(N + 1, \mathbf{R})$. (Russian. Russian summary) **93j:17027**

(Gerstenhaber, Murray) *see* **Deformation theory and quantum groups with applications to mathematical physics, 93e:17001**

Gervais, Jean-Loup Solving the strongly coupled 2D gravity. I. Unitary truncation and quantum group structure. **93b:81249**

— (*with* Rostand, Bruno) On two-dimensional supergravity and the quantum super-Möbius group. **93h:81119**

— Quantum group symmetry of 2D gravity. (English summary) **93h:81120**

— 2D gravity-matter couplings from quantum group. (English summary) **93e:81109**

— *see also* **Cremmer, Eugène, 93i:81214**

Giachetti, Riccardo *see* **Bonechi, F.; et al., 93f:82018** *and* **Celeghini, E.; et al., 93j:17022**

Gómez, César (*with* Sierra, Germán) Comments on rational conformal field theory, quantum groups and tower of algebras. **93m:81130**

— (*with* Sierra, Germán) Integrability and uniformization in Liouville theory: the geometrical origin of quantized symmetries. **93h:81122**

— (*with* Sierra, Germán) Integrability and quantum symmetries [MR 92i:81279]. (*see* **93b:00028**)

Gong, Ren Shan Path integral formalism for $\mathrm{SU}_q(2)$ coherent states. (English summary) **93i:81084**

González-Ruiz, A. (*with* Ibort, Luis A.) Induction of quantum group representations. (English summary) **93j:17029**

Gora, Jolanta Two models of a q-deformed hydrogen atom. (English summary) **93j:81113**

Gould, M. D. (*with* Zhang, R. B.; Bracken, Anthony J.) Generalized Gel'fand invariants and characteristic identities for quantum groups. **93f:17022**

— Quantum groups and diagonalization of the braid generator. **93h:17028**

— *see also* **Zhang, R. B., 93b:17060** *and* **Links, J. R., 93k:57018**

Grigorishin, K. I. *see* **Chernyak, V. Ya.; et al., 93e:17013; 93e:17014** *and* **93e:17015**

Guadagnini, E. (*with* Martellini, Maurizio; Mintchev, M.) Chern-Simons field theory and quantum groups. (English summary) **93i:81137**

Guo, Han Ying *see* **Chang, Zhe; et al., 93a:33032**

Gupta, Virendra *see* **Rajagopal, A. K., 93m:81070**

Gurevich, D. I. (*with* Rubtsov, V. V.) Équation de Yang-Baxter et S-traces. (English summary) [The Yang-Baxter equation and S-traces] **93m:17011**

— (*with* Rubtsov, V. V.) Yang-Baxter equation and deformation of associative and Lie algebras. (English summary) **93j:17030**

Havlíček, M. *see* **Burdík, Č.; et al., 93i:17014**

Hellinger, Petr *see* **Burdík, Č., 93j:82019**

(Hennig, J. D.) *see* **Quantum groups, 93h:00020**

Hlavatý, Ladislav On solutions of the Yang-Baxter equations without additivity. **93b:82024**

— *see also* **Bednář, M.; et al., 93c:17023**

Horikawa, Eiji Contiguity relations for q-hypergeometric function and related quantum group. **93j:33009**

Hou, Bo Yu (*with* Shi, Kang Jie; Yang, Zhong Xia; Yue, Rui Hong) Integrable quantum chain and the representation of the quantum group $\mathrm{SU}_q(2)$. **93d:82033**

— (*with* Hou, Bo Yuan; Ma, Zhong Qi) Quantum Clebsch-Gordan coefficients for nongeneric q values. **93b:17044**

Hou, Bo Yuan (*with* Ma, Zhong Qi) Solutions to the Yang-Baxter equation for the spinor representations of q-B_l. **93a:17013**

— *see also* **Hou, Bo Yu; et al., 93b:17044**

Iachello, F. q-algebras as spectrum generating algebras. (English summary) (*see* **93e:81150**)

Ibort, Luis A. *see* **González-Ruiz, A., 93j:17029**

Ikeda, Kaoru The Hamiltonian systems on the Poisson structure of the quasi-classical limit of $\mathrm{GL}_q(\infty)$. **93d:58073**

Iotov, Mihail S. (*with* Todorov, Ivan T.) On the universal R-matrix for $U_q(\mathrm{sl}_{r+1})$. **93a:17014**

Isaev, A. P. (*with* Malik, R. P.) Deformed traces and covariant quantum algebras for quantum groups $\mathrm{GL}_{qp}(2)$ and $\mathrm{GL}_{qp}(1|1)$. **93g:17026**

Jagannathan, Ramaswamy *see* **Chakrabarti, Ranabir, 93a:17011** *and* **93e:17040**

Jarvis, P. D. (*with* Warner, Roland C.; Yung, C. M.; Zhang, R. B.) BRST cohomology for $U_q(\mathrm{sl}(2))$ representations. **93e:17019**

Jeyakumar, A. V. (*with* Sarasija, P. B.) Socles of Verma modules in quantum groups. (English summary) **93k:17029**

Jimbo, Michio Solvable lattice models and quantum groups. **93g:82036**

Jiménez Lorenzo, Fernando The quantized symmetries of $N = 2$ superconformal field theories. **93a:81173**

Jing, Nai Huan *see* **Ge, Mo Lin; et al., 93d:82031**

(Jones, Vaughan F. R.) *see* **Schmid, Rudolf, 93i:01023**

Jurčo, Branislav *see* **Drabant, Bernhard; et al., 93h:17026**

Kac, Victor G. *see* **De Concini, Corrado; et al., 93f:17020**

Kajiwara, Kenji (*with* Satsuma, Junkichi) q-difference version of the two-dimensional Toda lattice equation. **93m:39005**

Kalnins, E. G. (*with* Manocha, H. L.; Miller, Willard, Jr.) Models of q-algebra representations: tensor products of special unitary and oscillator algebras. **93d:17021**

Karowski, M. Yang-Baxter algebra, Bethe ansatz, conformal quantum field theories, quantum groups. (English summary) **93j:82021**

Kashaev, R. M. (*with* Mangazeev, V. V.; Stroganov, Yu. G.) N^3-state R-matrix related with $U_q(\mathrm{sl}(3))$ algebra at $q^{2N} = 1$. (English summary) **93m:82008**

— *see also* **Bazhanov, V. V.; et al., 93d:82019**

Kassel, Christian ★ Cours sur les groupes quantiques. 1ière Partie. (French) [Course on quantum groups. Part 1] **93k:17030**

Kato, Mitsuhiro Flat connection, conformal field theory and quantum group. **93d:81162**

Katriel, Jacob (*with* Kibler, Maurice) Normal ordering for deformed boson operators and operator-valued deformed Stirling numbers. **93b:81083**

Kauffman, Louis H. (*with* Saleur, H.) Free fermions and the Alexander-Conway polynomial. **93d:57017**

Keller, Georg Fusion rules of $U_q(\mathrm{sl}(2, \mathbf{C}))$, $q^m = 1$. **93a:17016**

Khadzhiivanov, L. K. *see* **Stanev, Ya. S.; et al., 93c:81226** *and* **Furlan, Paolo; et al., 93j:17025**

Kharitonov, Yu. I. *see* **Smirnov, Yu. F.; et al., 93a:17019**

Khoroshkin, S. M. (*with* Tolstoĭ, V. N.) The uniqueness theorem for the universal R-matrix. **93e:17020**

Kibler, Maurice *see* **Katriel, Jacob, 93b:81083; Tuszyński, J. A., 93f:81051** *and* **Drăgănescu, Gh. E.; et al., 93m:81054**

Kirillov, A. N. *see* **Liskova, N. A., 93i:17017**

Klimyk, A. U. (*with* Smirnov, Yu. F.) The Wigner-Eckart theorem in the quantum algebra $U_q(\mathrm{su}_2)$ and the quantum group $\mathrm{SU}_q(2)$. (Ukrainian. English, Russian and Ukrainian summaries) **93f:17023**

— (*with* Pakulyak, S. Z.) Representations of the quantum algebras $\mathscr{U}_q(u_{r,s})$ and $\mathscr{U}_q(u_{r+s})$ related to the quantum hyperboloid and sphere. **93h:17032**

— Wigner-Eckart theorem for the quantum group $\mathrm{U}_q(n)$. **93h:17033**

Kobayashi, Ken-ichiro (*with* Uematsu, Tsuneo) S-matrix of $N = 2$ supersymmetric sine-Gordon theory. **93h:81126**

Koelink, H. T. Quantum group-theoretic proof of the addition formula for continuous q-Legendre polynomials. (*see* **93e:17001**)

Kokkotas, K. *see* **Bonatsos, Dennis; et al., 93f:81034**

Koornwinder, T. H. q-special functions and their occurrence in quantum groups. (*see* **93e:17001**)

Kulish, P. P. (*with* Sklyanin, E. K.) Algebraic structures related to reflection equations. (English summary) **93k:17032**

— *see also* **Quantum groups, 93d:00038**

Kundu, A. (*with* Basu Mallick, B.) Quantum group structures in action: generation of quantum integrable models. (English summary) **93j:58063**

— (*with* Basu Mallick, B.) Construction of integrable quantum lattice models through Sklyanin-like algebras. **93i:82033**

Kuniba, Atsuo (*with* Nakanishi, Tomoki) Fusion RSOS models and rational coset models. (English summary) **93i:82034**

Kupershmidt, Boris A. The quantum group $T_h\mathrm{GL}(n)$. (English summary) **93h:17034**

— Trace formulae for the quantum group $\mathrm{GL}_q(2)$. (English summary) **93h:17035**

— The quantum group $\mathrm{GL}_h(2)$. (English summary) **93k:16056**

Lang, K. (*with* Rühl, W.) Field algebra for critical O(N) vector (nonlinear σ) models at $2 < d < 4$. (*see* **93f:81005**)

Larsson, T. A. Universal solutions to the simplex equations. (English summary) **93i:82035**

LeClair, André q-deformation of SU(1, 1) conformal Ward identities and q-strings. **93d:81141**

— Integrable restrictions of quantum soliton theory and minimal conformal series. **93a:81176**

— (*with* Nemeschansky, D.; Warner, N. P.) S-matrices for perturbed $N = 2$ superconformal field theory from quantum groups. (English summary) **93k:81211**

— *see also* **Bernard, Denis, 93d:81148; 93i:81210** *and* **Felder, G., 93i:81226**

Lee, Chin Rong (*with* Yu, Jyh Ping) On q-deformed free electron gases. **93c:82007**

Lee, Hoong Chien Tangles, links and twisted quantum groups. **93h:17036**

Lenczewski, Romuald (*with* Podgórski, Krzysztof) A q-analog of the quantum central limit theorem for $\mathrm{SU}_q(2)$. **93m:81082**

Liao, Li *see* **Song, Xing Chang, 93k:58014**

Links, J. R. (*with* Gould, M. D.) Two variable link polynomials from quantum supergroups. (English summary) **93k:57018**

Liskova, N. A. (*with* Kirillov, A. N.) Clebsch-Gordan and Racah-Wigner coefficients for $U_q(\mathrm{SU}(1, 1))$. (English summary) **93i:17017**

Liu, G.-Q. *see* **Ge, Mo Lin; et al., 93d:82031**

Liu, Ke Qin The quantum Witt algebra and quantizations of some Witt-modules. **93e:17022**

Liu, Xu Feng *see* **Ge, Mo Lin; et al., 93b:17042; 93e:17017** *and* **93j:17026**

Lohe, M. A. *see* **Biedenharn, L. C., 93h:17023** *and* **93j:17021**

Lu, Zhi Cheng Star-products and phase space realizations of quantum groups. (English summary) **93h:17037**

Lūdde, Mirko Yang-Baxter deformations of semisimple Lie algebras. (English summary) **93j:17032**

Lukierski, Jerzy (*with* Nowicki, Anatol; Ruegg, Henri) Real forms of complex quantum anti-de Sitter algebra $U_q(\mathrm{Sp}(4; \mathbf{C}))$ and their contraction schemes. **93a:17018**

— (*with* Nowicki, Anatol) Real forms of $U_q(\mathrm{OSp}(1|2))$ and quantum $D = 2$ supersymmetry algebras. **93e:17023**

— (*with* Nowicki, Anatol) Quantum deformations of $D = 4$ Poincaré and Weyl algebra from q-deformed $D = 4$ conformal algebra. **93g:17029**

Luk'yanov, S. L. *see* **Fateev, V. A., 93g:17024**

Ma, Zhong Qi *see* **Hou, Bo Yuan, 93a:17013** *and* **Hou, Bo Yu; et al., 93b:17044**

Mack, Gerhard (*with* Schomerus, Volker) Endomorphisms and quantum symmetry of the conformal Ising model. (*see* **93i:81122**)

— (*with* Schomerus, Volker) Action of truncated quantum groups on quasi-quantum planes

and a quasi-associative differential geometry and calculus. (English summary) **93j:58011**

Majid, Shahn Examples of braided groups and braided matrices. **93i:17019**

— Braided groups and duals of monoidal categories. (English summary) **93j:18005**

— *see also* **Brzeziński, Tomasz, 93k:58010**

Malik, R. P. *see* **Isaev, A. P., 93g:17026**

Malikov, F. G. Quantum groups: singular vectors and BGG resolution. (English summary) **93k:17034**

Mangazeev, V. V. *see* **Bazhanov, V. V.; et al., 93d:82019** *and* **Kashaev, R. M.; et al., 93m:82008**

Manin, Yu. I. *see* **Demidov, E. E.; et al., 93g:17022**

Manocha, H. L. *see* **Kalnins, E. G.; et al., 93d:17021**

Marchetti, P. A. *see* **Fröhlich, Jürg; et al., 93a:81112** *and* **(93i:81122)**

Martellini, Maurizio *see* **Guadagnini, E.; et al., 93i:81137** *and* **Topological and quantum group methods in field theory and condensed matter physics, 93e:81008**

Martin, Paul Purdon (*with* Rittenberg, Vladimir) A template for quantum spin chain spectra. (English summary) **93j:82023**

Masuda, Tetsuya (*with* Mimachi, Katsuhisa; Nakagami, Yoshiomi; Noumi, Masatoshi; Ueno, Kimio) Representations of the quantum group $SU_q(2)$ and the little q-Jacobi polynomials. **93c:17027**

— *see also* **Ueno, Kimio; et al., 93e:17030**

Mathieu, Pierre *see* **Bégin, L.; et al., 93j:81028**

Mayer, Meinhard E. From Poisson groupoids to quantum groupoids and back. **93e:58207**

Mezincescu, Luca (*with* Nepomechie, Rafael I.) Fusion procedure for open chains. **93j:82025**

— *see also* **Quantum field theory, statistical mechanics, quantum groups and topology, 93m:81007**

Miller, Willard, Jr. *see* **Kalnins, E. G.; et al., 93d:17021**

Mimachi, Katsuhisa *see* **Masuda, Tetsuya; et al., 93c:17027** *and* **Ueno, Kimio; et al., 93e:17030**

Mintchev, M. *see* **Guadagnini, E.; et al., 93i:81137**

Miwa, Tetsuji *see* **Foda, Omar, 93k:82014**

Mizoguchi, Shun'ya (*with* Tada, Tsukasa) Three-dimensional gravity from the Turaev-Viro invariant. **93a:83012**

Mlawer, Eli J. *see* **Bourdeau, Michelle Hilda; et al., 93i:81267**

Moreno, Carlos (*with* Valero, Luis) Star products and quantization of Poisson-Lie groups. (English summary) **93k:16058**

Mukhin, E. E. *see* **Demidov, E. E.; et al., 93g:17022**

Müller, Andreas Classifying spaces for quantum principal bundles. (English summary) **93j:58012**

Müller-Hoissen, Folkert Differential calculi on the quantum group $GL_{p,q}(2)$. **93e:58010**

Mungan, Muhittin *see* **Arik, Metin, 93b:81120** *and* **93g:81069**

Nakagami, Yoshiomi *see* **Masuda, Tetsuya; et al., 93c:17027** *and* **Ueno, Kimio; et al., 93e:17030**

Nakanishi, Tomoki *see* **Kuniba, Atsuo, 93i:82034**

Nakawaki, Yuji An infinite volume formulation of the quantum inverse scattering method for the nonlinear Schrödinger model of spin-1/2 particles with attractive coupling. **93d:81188**

Narganes-Quijano, Francisco J. Cyclic representations of a q-deformation of the Virasoro algebra. **93g:17046**

Navarro, Miguel *see* **Aldaya, Víctor; et al., 93j:81084**

Navarro-Salas, José *see* **Aldaya, Víctor; et al., 93j:81084**

Nazarov, M. L. Yangians of the "strange" Lie superalgebras. (English summary) **93j:17005**

Nelson, Jeanette (*with* Regge, T.) $SU(2)_q$ and $2+1$ quantum gravity. (English summary) **93e:81122**

Nemeschansky, D. *see* **LeClair, André; et al., 93k:81211**

Nepomechie, Rafael I. *see* **Mezincescu, Luca, 93j:82025** *and* **Quantum field theory, statistical mechanics, quantum groups and topology, 93m:81007**

Nešković, P. V. (*with* Urošević, B. V.) Quantum oscillators: applications in statistical mechanics. **93e:82007**

Noumi, Masatoshi *see* **Masuda, Tetsuya; et al., 93c:17027** *and* **Ueno, Kimio; et al., 93e:17030**

Nowicki, Anatol *see* **Lukierski, Jerzy; et al., 93a:17018; 93e:17023** *and* **93g:17029**

Ogievetskiĭ, E. I. *see* **Chernyak, V. Ya.; et al., 93e:17013; 93e:17014** *and* **93e:17015**

Ogievetskiĭ, O. V. (*with* Schmidke, W. B.; Wess, Julius; Zumino, Bruno) Six generator q-deformed Lorentz algebra. **93e:58011**

— Differential operators on quantum spaces for $GL_q(n)$ and $SO_q(n)$. **93d:58011**

— (*with* Zumino, Bruno) Reality in the differential calculus on q-Euclidean spaces. (English summary) **93g:58012**

Ohn, Ch. A $*$-product on SL(2) and the corresponding nonstandard quantum-$U(sl(2))$. (English summary) **93h:17038**

Okado, Masato (*with* Yamane, Hiroyuki) R-matrices with gauge parameters and multi-parameter quantized enveloping algebras. **93f:17025**

Ol'shanskiĭ, G. I. Quantized universal enveloping superalgebra of type Q and a super-extension of the Hecke algebra. **93i:17004**

Pakuliak, S. Z. *see* **Klimyk, A. U., 93h:17032**

Pan, Feng (*with* Chen, Jin Quan) Symmetric irreducible representations of $SU(3)_q$ in the $SU(2)_q \times U(1)$ basis and some extensions to $SU(N)_q \supset SU(N-1)_q \times U(1)$. **93g:17030**

Parashar, Preeti (*with* Soni, S. K.) Quantum deformation of classical Grassmann algebras. (English summary) **93m:58012**

— (*with* Soni, S. K.) Covariant differential calculus on the quantum exterior vector space. **93c:58025**

Petkova, Valentina B. *see* **Furlan, Paolo; et al., 93h:81117**

Pinczon, Georges *see* **Bonneau, Philippe; et al., 93k:17025**

Podgórski, Krzysztof *see* **Lenczewski, Romuald, 93m:81082**

Podleś, Piotr The classification of differential structures on quantum 2-spheres. (English summary) **93k:58012**

Polo, Patrick *see* **Andersen, Henning Haahr; et al., 93j:17018**

Ponzano, G. *see* **Caselle, M.; et al., 93j:81087**

Prešnajder, Peter *see* **Chaichian, M., 93d:17030** *and* **93k:17027**

Pressley, Andrew *see* **Chari, Vyjayanthi, 93f:17019**

Procesi, Claudio *see* **De Concini, Corrado; et al., 93f:17020**

Raichev, P. P. *see* **Bonatsos, Dennis; et al., 93h:81308**

Rajagopal, A. K. (*with* Gupta, Virendra) Uncertainty principle, squeezing, and quantum groups. (English summary) **93m:81070**

Rajeswari, V. (*with* Srinivasa Rao, K.) Generalized basic hypergeometric functions and the q-analogues of 3-j and 6-j coefficients. **93g:33018**

Rama, S. Kalyana (*with* Sen, Siddhartha[1]) 3D manifolds, graph invariants and Chern-Simons theory. **93i:57027**

Ramírez Romero, Cupatitzio (*with* Ruegg, Henri; Ruiz-Altaba, M.) The contour picture of quantum groups: conformal field theories. **93c:81224**

(Rasetti, Mario) *see* **Topological and quantum group methods in field theory and condensed matter physics, 93e:81008**

Ravanini, F. *see* **Caselle, M.; et al., 93j:81087**

Regge, T. *see* **Nelson, Jeanette, 93e:81122**

Rembieliński, Jakub (*with* Tybor, W.) Polar decomposition of the twisted de Rham complex for $\mathbf{C}_q$. (English summary)

— Quantum inhomogenous groups related to Manin's plane. (English summary) **93j:17034**

— *see also* **Brzeziński, Tomasz; et al., 93c:58020** *and* **93c:58021**

Rideau, Guy On the representations of quantum oscillator algebra. **93c:17028**

Rieffel, M. A. Some solvable quantum groups. **93i:46132**

Riggs, Harold *see* **Bourdeau, Michelle Hilda; et al., 93i:81267**

Ringel, Claus Michael From representations of quivers via Hall and Loewy algebras to quantum groups. (English summary) **93h:17065**

Rittenberg, Vladimir *see* **Martin, Paul Purdon, 93j:82023**

Rodríguez-Plaza, M. J. Casimir operators of $U_q$sl(3). **93c:17029**

Rosenberg, Alexander L. The spectrum of the algebra of skew differential operators and the irreducible representations of the quantum Heisenberg algebra. **93e:17025**

Rosso, Marc Représentations des groupes quantiques. [Representations of quantum groups] **93b:17050**

Rostand, Bruno *see* **Gervais, Jean-Loup, 93h:81119**

Roussev, R. P. *see* **Bonatsos, Dennis; et al., 93b:81308**

Rozansky, L. (*with* Saleur, H.) Quantum field theory for the multi-variable Alexander-Conway polynomial. **93i:57012**

Rubtsov, V. V. *see* **Gurevich, D. I., 93j:17030** *and* **93m:17011**

Ruegg, Henri Polynomial basis for $SU(2)_q$ and Clebsch-Gordan coefficients. (English summary) **93m:17012**

— *see also* **Lukierski, Jerzy; et al., 93a:17018** *and* **Ramírez Romero, Cupatitzio; et al., 93c:81224**

Rühl, W. *see* **Lang, K., (93f:81005)**

Ruiz-Altaba, M. *see* **Ramírez Romero, Cupatitzio; et al., 93c:81224**

Saburi, Y. *see* **Ueno, Kimio; et al., 93e:17030**

Saleur, H. Virasoro and Temperley Lieb algebras. **93f:81047**

— (*with* Zuber, J.-B.) Integrable lattice models and quantum groups. **93m:82009**

— (*with* Altschüler, D.) Level-rank duality in quantum groups. **93b:17051**

— *see also* **Kauffman, Louis H., 93d:57017** *and* **Rozansky, L., 93i:57012**

Sarasija, P. B. *see* **Jeyakumar, A. V., 93k:17029**

Satsuma, Junkichi *see* **Kajiwara, Kenji, 93m:39005**

Scheunert, M. Serre-type relations for special linear Lie superalgebras. **93d:17006**

Schlieker, Michael (*with* Weich, Wolfgang; Weixler, R.) Inhomogeneous quantum groups. **93b:16074**

— *see also* **Carow-Watamura, Ursula; et al., 93c:58022**; **Drabant, Bernhard; et al., 93h:17026; 93i:17015**; **Chryssomalakos, Chryss; et al., 93j:17023** *and* **Drabant, Bernhard; et al., 93m:17010**

Schmid, Rudolf Strings, knots, and quantum groups: a glimpse at three 1990 Fields medalists. (English summary) **93i:01023**

Schmidke, W. B. *see* **Ogievetskiĭ, O. V.; et al., 93e:58011**

Schnitzer, Howard J. *see* **Bourdeau, Michelle Hilda; et al., 93i:81267**

Schomerus, Volker *see* **Mack, Gerhard, 93j:58011** *and* **(93i:81122)**

Schupp, Peter (*with* Watts, Paul; Zumino, Bruno) Differential geometry on linear quantum groups. (English summary) **93h:58011**

Schwenk, J. (*with* Wess, Julius) A q-deformed quantum mechanical toy model. (English summary) **93h:81066**

Semenov-Tyan-Shanskiĭ, M. A. Monodromy mapping and classical r-matrices. (Russian. English and Russian summaries) **93i:58078**

— *see also* **Alekseev, A. Yu.; et al., 93i:17013** *and* **93j:17017**

Sen, Siddhartha[1] *see* **Rama, S. Kalyana, 93i:57027**

Shabanov, S. V. Path integral for the q-deformed oscillator and its interpretation. (English summary) **93i:81100**

Shanta, P. (*with* Chaturvedi, S.; Srinivasan, V.) A model which interpolates between the Jaynes-Cummings model and the Buck-Sukumar model. **93b:81324**

Shi, Kang Jie *see* **Hou, Bo Yu; et al., 93d:82033**

Shibukawa, Youichi Clebsch-Gordan coefficients for $\mathcal{U}_q(\mathrm{su}(1,1))$ and $\mathcal{U}_q(\mathrm{sl}(2))$, and linearization formula of matrix elements. (English summary) **93k:17036**

— *see also* **Ueno, Kimio, 93j:17037**

Sierra, Germán *see* **Gómez, César, 93h:81122; 93m:81130** *and* **(93b:00028)**

Siopsis, George On the quantum group structure in WZW models and Chern-Simons theories. **93d:81170**

Sklyanin, E. K. *see* **Kulish, P. P., 93k:17032**

Smirnov, Yu. F. (*with* Tolstoĭ, V. N.; Kharitonov, Yu. I.) The quantum algebra $u_q(3)$. (Russian) **93a:17019**

— *see also* **Bonatsos, Dennis; et al., 93b:81308** *and* **Klimyk, A. U., 93f:17023**

Soĭbel'man, Ya. S. Quantum Weyl group and some [of] its applications. **93d:17022**

— Selected topics in quantum groups. (English summary) **93j:17035**

Song, Xing Chang (*with* Liao, Li) New type covariant differential calculus on the quantum planes. (English summary) **93k:58014**

— Covariant differential calculus on quantum Minkowski space and the q-analogue of Dirac equation. (English summary) **93g:58013**

Soni, S. K. *see* **Parashar, Preeti, 93c:58025** *and* **93m:58012**

Sorace, E. *see* **Bonechi, F.; et al., 93f:82018** *and* **Celeghini, E.; et al., 93j:17022**

Spiridonov, V. P. Deformed conformal and supersymmetric quantum mechanics. **93c:81054**

Srinivasan, V. *see* **Shanta, P.; et al., 93b:81324**
Srinivasa Rao, K. *see* **Rajeswari, V., 93g:33018**
Stachura, Piotr Bicovariant differential calculi on $S_\mu U(2)$. (English summary) **93j:58013**
Stanciu, Sonia The energy operator for infinite statistics. **93i:81106**
Stanev, Ya. S. (*with* Todorov, Ivan T.; Khadzhiivanov, L. K.) Braid invariant rational conformal models with a quantum group symmetry. **93c:81226**
Stasheff, J. D. Drinfel'd's quasi-Hopf algebras and beyond. **93h:17044**
— Differential graded Lie algebras, quasi-Hopf algebras and higher homotopy algebras. **93j:17055**
— *see also* **Deformation theory and quantum groups with applications to mathematical physics, 93e:17001**
Stroganov, Yu. G. *see* **Bazhanov, V. V.; et al., 93d:82019** *and* **Kashaev, R. M.; et al., 93m:82008**
Su, Gang (*with* Ge, Mo Lin) Thermodynamic characteristics of the q-deformed ideal Bose gas. (English summary) **93k:82008**
Sun, Chang Pu (*with* Ge, Mo Lin) q-deformed boson representations of universal enveloping algebras in the case where q is a root of unity. (English summary) **93k:17038**
— *see also* **Ge, Mo Lin; et al., 93b:17042; 93d:17020; 93e:17017** *and* **93j:17026**
Sun, Xiao Dong (*with* Wang, Shi Kun) Bicovariant differential calculus on the two-parameter quantum group $GL_{p,q}(2)$. (English summary) **93g:58014**
Suris, Yu. B. Algebraic structure of discrete-time and relativistic Toda lattices. **93a:58093**
Tada, Tsukasa *see* **Mizoguchi, Shun'ya, 93a:83012**
Taft, Earl J. (*with* Towber, Jacob) Quantum deformation of flag schemes and Grassmann schemes. I. A q-deformation of the shape-algebra for $GL(n)$. **93e:17028**
Takhtajan, L. A. Lectures on quantum groups. **93c:17031**
Tanisaki, Toshiyuki Killing forms, Harish-Chandra isomorphisms, and universal R-matrices for quantum algebras. (English summary) **93k:17040**
Tarlini, M. *see* **Bonechi, F.; et al., 93f:82018** *and* **Celeghini, E.; et al., 93j:17022**
Tjin, T. Introduction to quantized Lie groups and algebras. (English summary) **93i:17021**
Todorov, Ivan T. *see* **Iotov, Mihail S., 93a:17014; Stanev, Ya. S.; et al., 93c:81226** *and* **Furlan, Paolo; et al., 93j:17025**
Tolstoĭ, V. N. *see* **Smirnov, Yu. F.; et al., 93a:17019** *and* **Khoroshkin, S. M., 93e:17020**
Towber, Jacob *see* **Taft, Earl J., 93e:17028**
Tsukada, Haruo Functional realization of quantum affine algebras. (English summary) **93k:17041**
Turgut, T. *see* **Arik, Metin; et al., 93g:81069**
Tuszyński, J. A. (*with* Kibler, Maurice) The formation of coherent structures in strongly interacting q-boson systems. **93f:81051**
Tybor, W. *see* **Rembieliński, Jakub**
Ubriaco, Marcelo R. Noncommutative differential calculus and q-analysis. **93c:58027**
— Quantum deformations of quantum mechanics. (English summary) **93k:81113**
Uematsu, Tsuneo *see* **Kobayashi, Ken-ichiro, 93h:81126**
Ueno, Kimio (*with* Masuda, Tetsuya; Mimachi, Katsuhisa; Nakagami, Yoshiomi; Noumi, Masatoshi; Saburi, Y.) Matrix elements of unitary representation of the quantum group $SU_q(1,1)$ and the basic hypergeometric functions. **93e:17030**
— (*with* Shibukawa, Youichi) Character table of Hecke algebra of type A_{N-1} and representations of the quantum group $U_q(gl_{n+1})$. (English summary) **93j:17037**
— *see also* **Masuda, Tetsuya; et al., 93c:17027**
Urošević, B. V. *see* **Nešković, P. V., 93e:82007**
Urrutia, Luis F. (*with* Waelbroeck, Henri; Zertuche, Federico) The algebra of supertraces for $(2+1)$ super de Sitter gravity. (English summary) **93f:81148**
Vainerman, L. I. Relations between compact quantum groups and Kac algebras. **93h:17049**
Valero, Luis *see* **Moreno, Carlos, 93k:16058**
Valtancoli, Paolo Monodromy properties of conformal field theories and quantum groups. **93e:81130**
Vančura, A. *see* **Burdík, Č.; et al., 93i:17014**
Van der Jeugt, J. The q-boson operator algebra and q-Hermite polynomials. **93f:33022**
de Vega, H. J. Quantum groups, integrable theories, and conformal models. (*see* **93e:81005**)
— Yang-Baxter algebras, integrable theories and quantum groups. **93i:17023**
— Yang-Baxter algebras, integrable theories and Bethe ansatz. (English summary) **93k:82021**
— *see also* **Destri, C., 93h:82016**
Vokos, Stamatis P. Multiparameter deformations of $GL(N)$ and Jordan-Schwinger constructions. **93b:17057**
Waelbroeck, Henri *see* **Urrutia, Luis F.; et al., 93f:81148**
Walton, M. A. *see* **Bégin, L.; et al., 93j:81028**
Wang, Jian Pan A survey of the theory of quantum groups. (Chinese. English summary) **93a:17020**
Wang, Lu Yu *see* **Dąbrowski, Ludwik, 93e:17016**
Wang, Shi Kun *see* **Sun, Xiao Dong, 93g:58014**
Warner, N. P. *see* **LeClair, André; et al., 93k:81211**
Warner, Roland C. *see* **Jarvis, P. D.; et al., 93e:17019**
Watamura, Satoshi *see* **Carow-Watamura, Ursula; et al., 93c:58022**
Watts, Paul *see* **Schupp, Peter; et al., 93h:58011**
Weich, Wolfgang *see* **Schlieker, Michael; et al., 93b:16074; Carow-Watamura, Ursula; et al., 93c:58022; Drabant, Bernhard; et al., 93b:17026; 93i:17015; Chryssomalakos, Chryss; et al., 93j:17023** *and* **Drabant, Bernhard; et al., 93m:17010**
Weinstein, Alan (*with* Xu, Ping) Classical solutions of the quantum Yang-Baxter equation. (English summary) **93k:58102**
Weixler, R. *see* **Schlieker, Michael; et al., 93b:16074**
Wen, Ke Xin *see* **Andersen, Henning Haahr; et al., 93j:17018** *and* **93j:17019**
Wess, Julius *see* **Ogievetskii, O. V.; et al., 93e:58011** *and* **Schwenk, J., 93h:81066**
van de Wetering, J. F. W. H. Knot invariants and universal R-matrices from perturbative Chern-Simons theory in the almost axial gauge. **93g:81179**
Wieczerkowski, C. *see* **Felder, G., 93c:17024**
(Witten, Edward) *see* **Schmid, Rudolf, 93i:01023**
Woronowicz, S. L. Quantum $E(2)$ group and its Pontryagin dual. **93b:17058**
— New quantum deformation of $SL(2,\mathbf{C})$. Hopf algebra level. (English summary) **93i:16054**
— Operator equalities related to the quantum $E(2)$ group. **93d:46124**
Xu, Ping *see* **Weinstein, Alan, 93k:58102**
Xue, Kang *see* **Ge, Mo Lin; et al., 93d:17020**
Yamada, Yasuhiko *see* **Awata, Hidetoshi, 93j:17020**
Yamane, Hiroyuki *see* **Okado, Masato, 93f:17025**
Yan, Hong *see* **Chang, Zhe; et al., 93a:33032**
Yang, Guang Can The number of energy levels and the dissociation energy of diatomic molecules described by a q-deformed oscillator model. (Chinese. English and Chinese summaries)
Yang, Zhong Xia *see* **Hou, Bo Yu; et al., 93d:82033**
Yu, Jyh Ping *see* **Lee, Chin Rong, 93c:82007**
Yue, Rui Hong *see* **Hou, Bo Yu; et al., 93d:82033**
Yung, C. M. *see* **Jarvis, P. D.; et al., 93e:17019**
Zagier, Don Realizability of a model in infinite statistics. **93i:81105**
Zertuche, Federico *see* **Urrutia, Luis F.; et al., 93f:81148**
Zhang, R. B. Graded representations of the Temperley-Lieb algebra, quantum supergroups, and the Jones polynomial. **93b:17059**
— Graded representations of the Temperley-Lieb algebra, quantum supergroups, and the Jones polynomial. **93b:17059**
— (*with* Gould, M. D.) Universal R-matrices and invariants of quantum supergroups. **93b:17060**
— Universal L operator and invariants of the quantum supergroup $U_q(gl(m/n))$. **93j:17038**
— Finite-dimensional representations of $U_q(osp(1/2n))$ and its connection with quantum $so(2n+1)$. (English summary) **93k:17042**
— *see also* **Jarvis, P. D.; et al., 93e:17019** *and* **Gould, M. D.; et al., 93f:17022**
Zhang, You Jin A remark on the representation theory of the algebra $U_q(sl(n))$ when q is a root of unity. **93b:17061**
Zhdanovich, D. V. *see* **Demidov, E. E.; et al., 93g:17022**
Zhedanov, A. S. Quantum $SU_q(2)$ algebra: "Cartesian" version and overlaps. **93f:17027**
Zhong, Zai Zhe A remark on the classical realization of the double quantum group $SU_q(\eta, J)$. **93h:17050**
Zhu, Chuan Jie *see* **Chair, Noureddine, 93b:81242**
Zuber, J.-B. *see* **Saleur, H., 93m:82009**
Zumino, Bruno *see* **Ogievetskii, O. V.; et al., 93e:58011; 93g:58012; Drabant, Bernhard; et al., 93h:17026; Schupp, Peter; et al., 93h:58011; Drabant, Bernhard; et al., 93i:17015; Chryssomalakos, Chryss; et al., 93j:17023** *and* **Drabant, Bernhard; et al., 93m:17010**

Items listed otherwise than by author

Amherst, MA ★ Deformation theory and quantum groups with applications to mathematical physics. **93e:17001**
Clausthal ★ Quantum groups. **93h:00020**
Conference:
Deformation Theory of Algebras and Quantization with Applications to Physics ★ Deformation theory and quantum groups with applications to mathematical physics. **93e:17001**
Contemporary Mathematics ★ Deformation theory and quantum groups with applications to mathematical physics. **93e:17001**
Coral Gables, FL ★ Quantum field theory, statistical mechanics, quantum groups and topology. **93m:81007**
Deformation theory and quantum groups with applications to mathematical physics ★ Deformation theory and quantum groups with applications to mathematical physics. **93e:17001**
Lecture Notes in Mathematics ★ Quantum groups. **93d:00038**
Lecture Notes in Physics ★ Quantum groups. **93h:00020**
Leningrad ★ Quantum groups. **93d:00038**
NATO Advanced Research Workshop:
Quantum Field Theory, Statistical Mechanics, Quantum Groups and Topology ★ Quantum field theory, statistical mechanics, quantum groups and topology. **93m:81007**
Quantum field theory, statistical mechanics, quantum groups and topology ★ Quantum field theory, statistical mechanics, quantum groups and topology. **93m:81007**
Quantum groups ★ Quantum groups. **93h:00020**
— ★ Quantum groups. **93d:00038**
Special Issue:
Topological and quantum group methods in field theory and condensed matter physics ★ Topological and quantum group methods in field theory and condensed matter physics. **93e:81008**
Topological and quantum group methods in field theory and condensed matter physics ★ Topological and quantum group methods in field theory and condensed matter physics. **93e:81008**
Workshop:
Mathematical Physics ★ Quantum groups. **93h:00020**
Quantum Groups ★ Quantum groups. **93d:00038**

81R99 None of the above, but in this section

Items with secondary classifications in 81R99

Balachandran, A. P. (*with* Daughton, A.; Gu, Z.-C.; Marmo, Giuseppe; Sorkin, R. D.; Srivastava, A. M.) A topological spin-statistics theorem or a use of the antiparticle. **93c:81099**
Daughton, A. *see* **Balachandran, A. P.; et al., 93c:81099**
Decker, Roger *see* **Genz, Henning, 93a:81001**
Genz, Henning (*with* Decker, Roger) ★ Symmetrie und Symmetriebrechung in der Physik. (German) [Symmetry and symmetry-breaking in physics] **93a:81001**
Gu, Z.-C. *see* **Balachandran, A. P.; et al., 93c:81099**
Lõhmus, Jaak (*with* Paal, Eugen; Sorgsepp, Leo) Nonassociativity in mathematics and physics. (Russian. English summary) **93b:17082**
Margolin, A. È. (*with* Strazhev, V. I.) Noncompact groups of internal symmetry in the theory of gauge fields. (Russian) (*see* **93d:58002**)
Marmo, Giuseppe *see* **Balachandran, A. P.; et al., 93c:81099**
Paal, Eugen *see* **Lõhmus, Jaak; et al., 93b:17082**

Papadopoulos, George J. Topology, unitary representations and charged particles. **93c:81152**
Sabinin, L. V. Quasigroups, geometry and physics. (Russian summary) **93d:20125**
Sorgsepp, Leo *see* **Lõhmus, Jaak; et al., 93b:17082**
Sorkin, R. D. *see* **Balachandran, A. P.; et al., 93c:81099**
Srivastava, A. M. *see* **Balachandran, A. P.; et al., 93c:81099**
Strazhev, V. I. *see* **Margolin, A. È., (93d:58002)**
Sun, Jing *see* **Wu, Lian Ao; et al., 93j:81052**
Tomiya, Mitsuyoshi Comment on generalized parasupersymmetric quantum mechanics. (English summary) **93k:81062**
Wu, Lian Ao (*with* Wu, Zhao Yan; Sun, Jing) New statistics for mixing system of bosons and fermions. (English summary) **93j:81052**
Wu, Zhao Yan *see* **Wu, Lian Ao; et al., 93j:81052**

81Sxx General quantum mechanics and problems of quantization

81S05 Commutation relations

Aneziris, Charilaos N. Statistics of linked strings. (English summary) **93k:81111**
Arik, Metin (*with* Mungan, Muhittin) q-oscillators and relativistic position operators. **93b:81120**
de Azeredo Campos, R. Dirac quantization of higher order systems with odd variables. (French summary) **93a:81088**
— Canonical quantization of supersymmetric second-order systems. **93b:81121**
Birman, Joseph L. Many-body Green functions of q-deformed oscillators. **93c:81087**
Chang, Zhe Generalized Holstein-Primakoff realizations and quantum group-theoretic coherent states. (English summary) **93h:81063**
Cho, Kyung-Hyun (*with* Rim, Chaiho; Soh, D. S.) Exact wavefunctions for free anyons: ladder operator approach. **93c:81088**
Chou, Chihong Generalized quantum statistics. (English summary) **93f:81056**
Corichi, Alejandro Comment on: "Hamiltonian formulation of a theory with constraints" [J. Math. Phys. **33** (1992), no. 2, 633–638; MR 92m:81116] by U. Kulshreshta. (English summary) **93j:81049**
Fairlie, David B. (*with* Nuyts, Jean) Alternative Hamiltonian quantization. **93b:81122**
— (*with* Nuyts, Jean) Neutral and charged quommutators with and without symmetries. (English summary) **93i:81096**
Fan, Hong Yi[1] General formalism for mapping of two-mode classical canonical transformations to quantum unitary operators. (English summary) **93i:81097**
Finkelstein, Robert J. q deformations of the oscillator. (English summary) **93j:81050**
Fivel, Daniel I. Errata: "Interpolation between Fermi and Bose statistics using generalized commutators" [Phys. Rev. Lett. **65** (1990), no. 27, 3361–3364; MR 91m:81108].
Ge, Y. F. Hidden topological Z_n symmetry and fractional statistics. **93f:81057**
Govorkov, A. B. Does the existence of antiparticles forbid violations of statistics? (English summary) **93g:81053**
Greenberg, O. W. Small violations of particle statistics. (*see* **93h:81003**)
Gupta, Virendra *see* **Rajagopal, A. K., 93m:81070**
Hansson, T. H. (*with* Leinaas, J. M.; Myrheim, J.) Dimensional reduction in anyon systems. (English summary) **93g:81054**
Ikegami, Mitsuhiro (*with* Nagaoka, Yosuke; Takagi, Shin; Tanzawa, Tôru) Quantum mechanics of a particle on a curved surface—comparison of three different approaches. (English summary) **93i:81098**
Isakov, S. B. Statistics in one dimension: Heisenberg and Schrödinger quantizations. (English summary) **93h:81064**
Ito, Ikuo (*with* Kon, Tadashi) Thermal properties of parasupersymmetric oscillator. (English summary) **93e:81056**
Kirillov, A. I. Two mathematical problems of canonical quantization. III. Stochastic vacuum mechanics. (Russian. English and Russian summaries) **93k:81112**
Kon, Tadashi *see* **Ito, Ikuo, 93e:81056**
Kravchuk, N. V. Canonical variables in quantum statistics and structures associated with them. (Ukrainian. Russian and Ukrainian summaries) **93g:81055**
(Kulshreshta, Usha) *see* **Corichi, Alejandro, 93j:81049**
Leinaas, J. M. *see* **Hansson, T. H.; et al., 93g:81054**
Mishra, A. K. (*with* Rajasekaran, G.) Quantum field theory of orthofermions and orthobosons. (English summary) **93j:81051**
Mungan, Muhittin *see* **Arik, Metin, 93b:81120**
Myrheim, J. *see* **Hansson, T. H.; et al., 93g:81054**
Nagaoka, Yosuke *see* **Ikegami, Mitsuhiro; et al., 93i:81098**
Nuyts, Jean *see* **Fairlie, David B., 93b:81122** *and* **93i:81096**
Ohnuki, Yoshio (*with* Watanabe, Shuji) Selfadjointness of the operators in Wigner's commutation relations. (English summary) **93h:81065**
Parks, A. D. The Fermi and Bose congruences for free semigroups on two generators. (English summary) **93m:81068**
Popov, V. N. (*with* Yarunin, V. S.) Quantum states of the oscillator phase operator. (Russian) **93m:81069**
Rajagopal, A. K. (*with* Gupta, Virendra) Uncertainty principle, squeezing, and quantum groups. (English summary) **93m:81070**
Rajasekaran, G. *see* **Mishra, A. K., 93j:81051**
Ralchenko, Yu. V. q-deformed paracommutation relations. (English summary) **93g:81056**
Rim, Chaiho *see* **Cho, Kyung-Hyun; et al., 93c:81088**
Rzewuski, Jan Quantization as group extension. I. **93d:81091**
Salerno, Mario Quantum deformations of the discrete nonlinear Schrödinger equation. (English summary) **93i:81099**
Schwenk, J. (*with* Wess, Julius) A q-deformed quantum mechanical toy model. (English summary) **93h:81066**
Shabanov, S. V. Path integral for the q-deformed oscillator and its interpretation. (English summary) **93i:81100**
Soh, D. S. *see* **Cho, Kyung-Hyun; et al., 93c:81088**
Sun, Jing *see* **Wu, Lian Ao; et al., 93j:81052**
Takagi, Shin *see* **Ikegami, Mitsuhiro; et al., 93i:81098**
Tanzawa, Tôru *see* **Ikegami, Mitsuhiro; et al., 93i:81098**
Ubriaco, Marcelo R. Quantum deformations of quantum mechanics. (English summary) **93k:81113**
Watanabe, Shuji *see* **Ohnuki, Yoshio, 93h:81065**
Wess, Julius *see* **Schwenk, J., 93h:81066**
Wu, Lian Ao (*with* Wu, Zhao Yan; Sun, Jing) New statistics for mixing system of bosons and fermions. (English summary) **93j:81052**
Wu, Zhao Yan *see* **Wu, Lian Ao; et al., 93j:81052**
Wünsche, Alfred Eigenvalue problem for arbitrary linear combinations of a boson annihilation and creation operator. **93m:81071**
Yarunin, V. S. *see* **Popov, V. N., 93m:81069**
Zelenov, E. I. Representations of commutations relations for p-adic systems of infinitely many degrees of freedom. **93f:81058**

Items with secondary classifications in 81S05

Aldrovandi, R. Two-dimensional quantum gas. (English summary) **93j:82003**
Anderson, Robert Leonard *see* **Rideau, Guy; et al., 93d:81101**
Arai, Asao Momentum operators with gauge potentials, local quantization of magnetic flux, and representation of canonical commutation relations. (English summary) **93h:81025**
Aringazin, A. K. Validity of Pauli's principle in the exterior branch of hadronic mechanics. **93d:81049a**
— Supersymmetric hadronic mechanical harmonic oscillator. **93d:81049b**
Arovas, Daniel P. Fractional statistics in quantum mechanics. (*see* **93j:81003**)
Basu Mallick, B. (*with* Kundu, A.) Hidden quantum group structure in a relativistic quantum integrable model. (English summary) **93f:81052**
Belavkin, V. P. Quantum continual measurements and a posteriori collapse on CCR. **93j:81006**
Ben-Aryeh, Y. (*with* Lukš, A.; Peřinová, V.) The concept of equal space commutators in quantum optics. **93d:81189**
Bhaduri, R. K. *see* **Murthy, M. V. N.; et al., 93k:81043**
Bonatsos, Dennis (*with* Daskaloyannis, C.; Kokkotas, K.) WKB equivalent potentials for q-deformed harmonic and anharmonic oscillators. (English summary) **93f:81034**
Borisov, N. V. (*with* Il'inskiĭ, K. N.; Uzdin, V. M.) Quantum group particles and parastatistical excitations. (English summary) **93k:81090**
Boukas, Andreas An example of a quantum exponential process. **93g:81061**
Brink, L. (*with* Hansson, T. H.; Vasil'ev, M. A.) Explicit solution to the N-body Calogero problem. (English summary) **93d:81029**
Brodimas, G. (*with* Jannussis, A.; Mignani, R.) Bose realization of a noncanonical Heisenberg algebra. **93b:81107**
Celeghini, E. (*with* Rasetti, Mario; Vitiello, G.) Damping and thermal quantum field theory. **93b:81100**
Chaichian, M. (*with* Kulish, P. P.) Quantum superalgebras, q-oscillators and applications. **93k:81091**
Chaturvedi, S. *see* **Kumari, M. Krishna; et al., 93e:81051** *and* **Shanta, P.; et al., 93f:82007**
Chernyak, V. Ya. The most general representation of spin operators via boson operators. **93b:81101**
Chiu, Shao-Hsuan (*with* Gray, Robert W.; Nelson, Charles A.) The q-analogue quantized radiation field and its uncertainty relations. **93b:81316**
Coburn, L. A. Deformation estimates for the Berezin-Toeplitz quantization. (English summary) **93j:47038**
Daskaloyannis, C. *see* **Bonatsos, Dennis; et al., 93f:81034**
Date, G. *see* **Murthy, M. V. N.; et al., 93k:81043**
Fichtner, Karl-Heinz (*with* Freudenberg, Wolfgang) Characterization of states of infinite boson systems. I. On the construction of states of boson systems. **93a:81056**
Freudenberg, Wolfgang *see* **Fichtner, Karl-Heinz, 93a:81056**
Görnitz, Thomas The role of para-Bose-statistics in making abstract quantum theory concrete. **93a:81012**
Gray, Robert W. *see* **Chiu, Shao-Hsuan; et al., 93b:81316**
Greenberg, O. W. Interactions of particles having small violations of statistics. **93h:81060**
Hansson, T. H. *see* **Brink, L.; et al., 93d:81029**
Hebda, Piotr W. *see* **Rideau, Guy; et al., 93d:81101**
Iengo, Roberto (*with* Lechner, Kurt; Li, Dingping) Chern-Simons-Maxwell theory on the torus. **93h:81086**
— (*with* Lechner, Kurt) Anyon quantum mechanics and Chern-Simons theory. **93e:81073**
Il'inskiĭ, K. N. *see* **Borisov, N. V.; et al., 93k:81090**
Janas, Jan Note on generalized commutation relations. **93e:47027**
Jannussis, A. *see* **Brodimas, G.; et al., 93b:81107**
Jing, Si Cong The Jordan-Schwinger realization of two-parametric quantum group $sl_{q,s}(2)$. (English summary) **93k:81097**
Kapoor, Ashok K. *see* **Shanta, P.; et al., 93f:82007**
Kempf, Achim Quantum group-symmetric Fock spaces with Bargmann-Fock representation. (English summary) **93k:81100**
— Quantum group symmetric Bargmann-Fock space: integral kernels, Green functions, driving forces. (English summary) **93m:81062**
Kokkotas, K. *see* **Bonatsos, Dennis; et al., 93f:81034**
Kowalski, Krzysztof (*with* Steeb, Willi-Hans) Symmetries and first integrals for nonlinear dynamical systems: Hilbert space approach. I. Ordinary differential equations. **93f:34100**
Kuang, Le Man *see* **Wang, Fa Bo, 93m:81067**
Kulish, P. P. *see* **Chaichian, M., 93k:81091**
Kumari, M. Krishna (*with* Shanta, P.; Chaturvedi, S.; Srinivasan, V.) On q-deformed para oscillators and para-q oscillators. (English summary) **93e:81051**
Kundu, A. *see* **Basu Mallick, B., 93f:81052**
Law, J. *see* **Murthy, M. V. N.; et al., 93k:81043**
Lechner, Kurt *see* **Iengo, Roberto, 93e:81073** *and* **93h:81086**
Lee, Chang Jae Covariance and uniqueness of the canonical fermion coherent state. (English summary) **93i:81086**
Li, Dingping *see* **Iengo, Roberto; et al., 93h:81086**
Lukš, A. *see* **Ben-Aryeh, Y.; et al., 93d:81189**

Mignani, R. *see* **Brodimas, G.; et al., 93b:81107**
Murthy, M. V. N. (*with* Law, J.; Bhaduri, R. K.; Date, G.) On a class of noninterpolating solutions of the many-anyon problem. (English summary) **93k:81043**
Nelson, Charles A. *see* **Chiu, Shao-Hsuan; et al., 93b:81316**
Perinová, V. *see* **Ben-Aryeh, Y.; et al., 93d:81189**
Pusz, W. (*with* Woronowicz, S. L.) Twisted second quantization. **93c:81082**
Rasetti, Mario *see* **Celeghini, E.; et al., 93b:81100**
Rideau, Guy (*with* Anderson, Robert Leonard; Hebda, Piotr W.) Canonical quantization of the Bateman-Morse-Feshbach damped oscillator. **93d:81101**
Robinson, P. L. Inner Bogoliubov automorphisms of the minimal C^* Weyl algebra. **93g:46057**
Rosewarne, David (*with* Sarkar, Sarben) Rigorous theory of photon localizability. (English summary) **93j:81110**
Royer, Antoine Ehrenfest's theorem reinterpreted and extended with Wigner's function. **93m:81087**
Sarkar, Sarben *see* **Rosewarne, David, 93j:81110**
Schaflitzel, Reinhard Decomposition of particle representations of the canonical commutation relations. **93f:46097**
Sen, Diptiman Some supersymmetric features in the spectrum of anyons in a harmonic potential. (English summary) **93e:81028**
Shabanov, S. V. The Poisson bracket for q-deformed systems. (English summary) **93k:81107**
Shanta, P. (*with* Chaturvedi, S.; Kapoor, Ashok K.; Srinivasan, V.) Parastatistical systems at finite temperatures in thermofield dynamics. **93f:82007**
— *see also* **Kumari, M. Krishna; et al., 93e:81051**
Speicher, Roland A noncommutative central limit theorem. **93a:46125**
Srinivasan, V. *see* **Kumari, M. Krishna; et al., 93e:81051** *and* **Shanta, P.; et al., 93f:82007**
Steeb, Willi-Hans *see* **Kowalski, Krzysztof, 93f:34100**
Stochel, J. B. Subnormality of generalized creation operators on Bargmann's space of an infinite order. (English summary) **93j:47051**
Turovskaya, L. B. Representations of a class of quadratic $*$-algebras with three generators. (Russian. Russian summary) **93k:46044**
Uzdin, V. M. *see* **Borisov, N. V.; et al., 93k:81090**
Van der Jeugt, J. The q-boson operator algebra and q-Hermite polynomials. **93f:33022**
Vasil'ev, M. A. *see* **Brink, L.; et al., 93d:81029**
Vitiello, G. *see* **Celeghini, E.; et al., 93b:81100**
Wang, Fa Bo (*with* Kuang, Le Man) Even and odd q-coherent states and their optical statistics properties. (English summary) **93m:81067**
Woronowicz, S. L. *see* **Pusz, W., 93c:81082**
Zhedanov, A. S. Bogoliubov q-transformation and Clebsch-Gordan coefficients for a q-oscillator. **93b:81119**
Zumino, Bruno Deformation of the quantum mechanical phase space with bosonic or fermionic coordinates. **93a:81087**

81S10 Geometric quantization, symplectic methods [see also 58F06]

Aldaya, Víctor (*with* Navarro-Salas, José) Higher-order polarizations on the Virasoro group and anomalies. **93e:81057**
Bao, De Hai (*with* Zhu, Zhong Yuan) Ordering problem in geometrical quantization. **93i:81101**
Barcelos-Neto, J. (*with* Wotzasek, Clovis) Faddeev-Jackiw quantization and constraints. (English summary) **93j:81053**
— (*with* Wotzasek, Clovis) Symplectic quantization of constrained systems. **93e:81058**
Cantoni, V. (*with* Mistrangioli, L.) Three-point phase, symplectic measure, and Berry phase. **93i:81102**
Castro, Carlos On Weyl geometry, random processes, and geometric quantum mechanics. **93e:81059**
Caurier, E. (*with* Drożdż, S.; Okołowicz, J.; Płoszajczak, M.) Geometrical quantization in dynamical variational approach. **93a:81089**
Dito, Joseph Star-products and nonstandard quantization for Klein-Gordon equation. **93d:81092**
Drożdż, S. *see* **Caurier, E.; et al., 93a:81089**
Duval, C. (*with* Elhadad, J.) Geometric quantization and localization of relativistic spin systems. (English summary) **93i:81103**
Elhadad, J. *see* **Duval, C., 93i:81103**
Imbimbo, Camillo Quantization ambiguities for Chern-Simons topological theories. **93a:81090**
Ktorides, C. N. (*with* Papaloucas, L. C.) A geometric realization of van Hove's quantization prescription. **93g:81057**
Linden, Noah Inequivalent quantisations of the Neumann model. (English summary) **93i:81104**
Liu, Zhang Ju Quantization and quantum integrability of the Neumann system. (Chinese. English and Chinese summaries) **93d:81093**
Maraner, P. (*with* Onofri, E.; Tecchiolli, G. P.) Klauder's quantization in the almost-Kaehler case. **93b:81123**
Mistrangioli, L. *see* **Cantoni, V., 93i:81102**
Mladenov, Ivailo M. Geometric quantization of the five-dimensional Kepler problem. **93c:81089**
Montgomery, R. Heisenberg and isoholonomic inequalities. **93g:81058**
Navarro-Salas, José *see* **Aldaya, Víctor, 93e:81057**
Nesterenko, V. V. Torsion in the action of the relativistic particle. **93a:81091**
Oh, Phillial Symplectic structure of isospin particles in Yang-Mills fields. **93e:81060**
Okołowicz, J. *see* **Caurier, E.; et al., 93a:81089**
Onofri, E. *see* **Maraner, P.; et al., 93b:81123**
Papaloucas, L. C. *see* **Ktorides, C. N., 93g:81057**
Płoszajczak, M. *see* **Caurier, E.; et al., 93a:81089**
Popov, A. D. (*with* Sergeev, A. G.) ★ Bosonic strings, ghosts and geometric quantization. (English. English and Russian summaries) **93m:81072**
Sergeev, A. G. *see* **Popov, A. D., 93m:81072**
Sławianowska, Anna K. (*with* Sławianowski, Jan J.) Quantization of affinely rigid body in n-dimensions. (English summary) **93h:81067**
Sławianowski, Jan J. *see* **Sławianowska, Anna K., 93h:81067**
Stanciu, Sonia The energy operator for infinite statistics. **93i:81106**
Tecchiolli, G. P. *see* **Maraner, P.; et al., 93b:81123**
Tuynman, G. M. What are the rules of the game called BRST? **93m:81073**
Wotzasek, Clovis Faddeev-Jackiw quantization of Siegel's chiral oscillator. (English summary) **93f:81059**
— *see also* **Barcelos-Neto, J., 93e:81058** *and* **93j:81053**
Zagier, Don Realizability of a model in infinite statistics. **93i:81105**
Zhu, Zhong Yuan *see* **Bao, De Hai, 93i:81101**

Items with secondary classifications in 81S10

Aldaya, Víctor (*with* Navarro-Salas, José; Navarro, Miguel) Hidden symmetries in field theory. (English summary) **93j:81084**
— (*with* Navarro-Salas, José; Bisquert, J.; Loll, R.) Symmetry and quantization: higher-order polarization and anomalies. (English summary) **93h:81037**
Balachandran, A. P. (*with* Marmo, Giuseppe; Simoni, A.; Sparano, G.) Quantum bundles and their symmetries. **93f:58086**
Balbinot, Roberto (*with* El Gradechi, Amine M.; Gazeau, Jean-Pierre; Giorgini, Bruno) Phase spaces for quantum elementary systems in anti-de Sitter and Minkowski space-times. **93j:81058**
Bandyopadhyay, Pratul *see* **Hajra, K., 93g:81059**
Barcelos-Neto, J. (*with* Cheb-Terrab, E. S.) Faddeev-Jackiw quantization in superspace. **93g:81184**
Bisquert, J. *see* **Aldaya, Víctor; et al., 93h:81037**
Blattner, Robert J. Some remarks on quantization. **93a:58070**
Bogdanov, E. I. Quantization of Lagrange classical mechanics. (Russian. English and Russian summaries) **93h:58050**
Bordemann, Martin (*with* Hoppe, Jens; Schaller, Peter; Schlichenmaier, Martin) gl(∞) and geometric quantization. **93c:58077**
Cahen, Michel (*with* Gutt, Simone; Rawnsley, John) Quantization of Kähler manifolds. II. (English summary) **93i:58063**
Cariñena, José F. (*with* Gracia-Bondía, José M.; Ibort, Luis A.; López Lacasta, Carlos; Várilly, Joseph C.) Distinguished Hamiltonian theorem for homogeneous symplectic manifolds. **93i:58051**
Carlip, S. (*with* Gegenberg, J.) Gravitating topological matter. **93c:81196**
Cheb-Terrab, E. S. *see* **Barcelos-Neto, J., 93g:81184**
Dhar, Avinash (*with* Mandal, Gautam; Wadia, Spenta R.) Nonrelativistic fermions, coadjoint orbits of W_∞ and string field theory at $c = 1$. (English summary) **93f:81105**
Dorfman, I. Ya. (*with* Mokhov, O. I.) Local symplectic operators and structures related to them. **93a:58056**
Duval, C. (*with* Elhadad, J.; Tuynman, G. M.) Pukanszky's condition and symplectic induction. (English summary) **93j:58056**
El Gradechi, Amine M. *see* **Balbinot, Roberto; et al., 93j:81058**
Elhadad, J. *see* **Duval, C.; et al., 93j:58056**
Fawcett, R. J. B. Compact classical systems: so(n) systems. **93f:58087**
Gazeau, Jean-Pierre (*with* Hussin, V.) Poincaré contraction of SU(1, 1) Fock-Bargmann structure. **93k:81128**
— *see also* **Balbinot, Roberto; et al., 93j:81058**
Gegenberg, J. *see* **Carlip, S., 93c:81196**
Giorgini, Bruno *see* **Balbinot, Roberto; et al., 93j:81058**
Gracia-Bondía, José M. Generalized Moyal quantization on homogeneous symplectic spaces. **93j:81060**
— *see also* **Cariñena, José F.; et al., 93i:58051**
Guillemin, Victor (*with* Sternberg, Shlomo) ★ Variations on a theme by Kepler. **93a:58071**
Gutt, Simone *see* **Cahen, Michel; et al., 93i:58063**
Hajra, K. (*with* Bandyopadhyay, Pratul) Equivalence of stochastic, Klauder and geometric quantization. **93g:81059**
Hoppe, Jens *see* **Bordemann, Martin; et al., 93c:58077**
Howe, P. S. (*with* West, P. C.) The conformal group, point particles and twistors. (English summary) **93i:81080**
Hussin, V. *see* **Gazeau, Jean-Pierre, 93k:81128**
Ibort, Luis A. *see* **Cariñena, José F.; et al., 93i:58051**
Ishibashi, Nobuyuki Extra observables in gauged WZW models. **93e:81113**
Kachkachi, M. (*with* Saidi, E. H.) On the symplectic structure of harmonic superspace. (English summary) **93m:58043**
Kalau, Wolfgang On Gupta-Bleuler quantization of systems with second-class constraints. (English summary) **93k:81238**
Karasëv, M. V. (*with* Maslov, V. P.) ★ Нелинейные скобки Пуассона. Геометрия и квантование. (Russian) [Nonlinear Poisson brackets. Geometry and quantization] **93a:58062**
— Simple quantization formula. **93b:58060**
— *see also* **Vorob'ev, Yu. M., 93m:58045**
(Kepler, Johannes) *see* **Guillemin, Victor, 93a:58071**
Killingback, T. P. Quantization of SL(2, R) Chern-Simons theory. **93f:58090**
Littlejohn, Robert G. The Van Vleck formula, Maslov theory, and phase space geometry. **93h:81024**
Loll, R. *see* **Aldaya, Víctor; et al., 93h:81037**
López Lacasta, Carlos *see* **Cariñena, José F.; et al., 93i:58051**
Maeda, Yoshiaki *see* **Omori, Hideki; et al., 93j:58149**
Mandal, Gautam *see* **Dhar, Avinash; et al., 93f:81105**
Manojlović, Nenad (*with* Miković, Aleksandar) Ashtekar formulation of (2 + 1)-dimensional gravity on a torus. (English summary) **93m:83035**
Marmo, Giuseppe *see* **Balachandran, A. P.; et al., 93f:58086**
Maslov, V. P. *see* **Karasëv, M. V., 93a:58062**
Merkulov, S. A. On the geometric quantization of bosonic string. (English summary) **93k:58104**
Miković, Aleksandar *see* **Manojlović, Nenad, 93m:83035**

Mokhov, O. I. *see* **Dorfman, I. Ya., 93a:58056**
Navarro, Miguel *see* **Aldaya, Víctor; et al., 93j:81084**
Navarro-Salas, José *see* **Aldaya, Víctor; et al., 93h:81037** *and* **93j:81084**
Omori, Hideki (*with* Maeda, Yoshiaki; Yoshioka, Akira) Deformation quantization of Poisson algebras. **93j:58149**
Penna, Vittorio (*with* Spera, Mauro) On coadjoint orbits of rotational perfect fluids. **93e:58074**
Puta, Mircea Dirac constrained mechanical systems and geometric prequantization.
— Reduction and geometric prequantization at the cotangent level. (*see* **93e:81007**)
Rawnsley, John Quantization on Kähler manifolds. **93d:58061**
— Deformation quantization of Kähler manifolds. **93e:58075**
— *see also* **Cahen, Michel; et al., 93i:58063**
Robbins, Jonathan Winding number formula for Maslov indices. **93f:58083**
Saidi, E. H. *see* **Kachkachi, M., 93m:58043**
Schaller, Peter *see* **Bordemann, Martin; et al., 93c:58077**
Schlichenmaier, Martin *see* **Bordemann, Martin; et al., 93c:58077**
Simoni, A. *see* **Balachandran, A. P.; et al., 93f:58086**
Souriau, Jean-Marie Des particules aux ondes: quantification géométrique. [From particles to waves: geometric quantization] **93k:58106**
Sparano, G. *see* **Balachandran, A. P.; et al., 93f:58086**
Spera, Mauro *see* **Penna, Vittorio, 93e:58074**
Stasheff, J. D. Homological (ghost) approach to constrained Hamiltonian systems. **93j:81105**
Sternberg, Shlomo *see* **Guillemin, Victor, 93a:58071**
Tuynman, G. M. *see* **Duval, C.; et al., 93j:58056**
Vaisman, Izu On the geometric quantization of Poisson manifolds. **93e:58076**
Várilly, Joseph C. *see* **Cariñena, José F.; et al., 93i:58051**
Verlinde, Erik *see* **Verlinde, Herman, 93c:81227**
Verlinde, Herman (*with* Verlinde, Erik) Conformal field theory and geometric quantization. **93c:81227**
Vorob'ev, Yu. M. (*with* Karasëv, M. V.) Quasimodes generated by characters of a dynamical group, and deformation of the Kirillov form. (Russian) **93m:58045**
Wadia, Spenta R. *see* **Dhar, Avinash; et al., 93f:81105**
Weinstein, Alan (*with* Xu, Ping) Classical solutions of the quantum Yang-Baxter equation. (English summary) **93k:58102**
West, P. C. *see* **Howe, P. S., 93i:81080**
Xu, Ping *see* **Weinstein, Alan, 93k:58102**
Yoshioka, Akira *see* **Omori, Hideki; et al., 93j:58149**

81S20 Stochastic quantization

Ambjørn, Jan (*with* Johnson, Clifford V.; Morris, Tim R.) Stochastic quantization vs. KdV flows in two-dimensional quantum gravity. **93m:81074**
Bandyopadhyay, Pratul *see* **Banerjee, Dipti, 93a:81092** *and* **Hajra, K., 93g:81059**
Banerjee, Dipti (*with* Bandyopadhyay, Pratul) Topological aspects of a fermion, chiral anomaly, and Berry phase. **93a:81092**
Cibils, M. B. *see* **Gisin, Nicolas, 93j:81055**
Garbaczewski, Piotr Relativistic problem of random flights and Nelson's stochastic mechanics. **93j:81054**
Gikhman, Il. I. Probabilistic representation of quantum evolutions. (Russian. Russian and Ukrainian summaries) **93k:81114**
Gisin, Nicolas (*with* Cibils, M. B.) Quantum diffusions, quantum dissipation and spin relaxation. (English summary) **93j:81055**
Haba, Zbigniew Solutions of quantum mechanics and field theory in terms of stochastic (partial) differential equations. **93b:81124**
Hajra, K. Stochastic quantization of a dissipative dynamical system and its hydrodynamical interpretation. **93i:81107**
— (*with* Bandyopadhyay, Pratul) Equivalence of stochastic, Klauder and geometric quantization. **93g:81059**
Houard, Jean-Claude (*with* Irac-Astaud, Michèle) Stochastic quantization for quantum mechanics and conditional probabilities. **93a:81093**
Ignatyuk, I. A. (*with* Malyshev, V. A.; Sidoravičius, V.) Convergence of the stochastic quantization method. **93d:81094**
Ikegami, Kenji (*with* Kimura, Tadahiko; Mochizuki, Riuji) Treatment of constraints in the stochastic quantization method and covariantized Langevin equation. (English summary) **93m:81075**
Irac-Astaud, Michèle *see* **Houard, Jean-Claude, 93a:81093**
Ito, Masatoshi (*with* Morita, Katsusada) Spontaneous breakdown of symmetry in stochastic quantization. **93a:81094**
Johnson, Clifford V. *see* **Ambjørn, Jan; et al., 93m:81074**
Kanenaga, Masahiko *see* **Tanaka, Satoshi; et al., 93g:81060**
(Kapoor, Ashok K.) *see* **Namiki, Mikio, 93m:81076**
Kim, Yoonbai Chiral anomalies of higher-derivative theories from stochastic quantization. (English summary) **93k:81115**
Kimura, Tadahiko *see* **Ikegami, Kenji; et al., 93m:81075**
Kolsrud, Torbjörn (*with* Zambrini, Jean-Claude) The general mathematical framework of Euclidean quantum mechanics, an outline. **93c:81090**
— (*with* Zambrini, Jean-Claude) An introduction to the semiclassical limit of Euclidean quantum mechanics. **93a:81095**
Komoike, Nobuyuki *see* **Tanaka, Satoshi; et al., 93g:81060**
Lee, Hai Woong Wigner trajectories of a Gaussian wave packet perturbed by a weak potential. (English summary)
Malyshev, V. A. *see* **Ignatyuk, I. A.; et al., 93d:81094**
Mateos Guilarte, Juan Sphalerons and instantons in two-dimensional field theory. **93i:81108**
McKeon, D. G. C. (*with* Ord, G. N.) Time reversal in stochastic processes and the Dirac equation. **93d:81095**
Mizutani, Masashi *see* **Tanaka, Satoshi; et al., 93g:81060**
Mochizuki, Riuji *see* **Ikegami, Kenji; et al., 93m:81075**
Morato, L. M. A new approach to the problem of relativistic kinematics in stochastic mechanics and a derivation of Klein-Gordon equation. (English summary) (*see* **93g:81002**)
Morita, Katsusada *see* **Ito, Masatoshi, 93a:81094**
Morris, Tim R. *see* **Ambjørn, Jan; et al., 93m:81074**
Nakamura, Atsushi[1] Stochastic quantization of nonabelian antisymmetric tensor fields. **93a:81096**
(Nakazato, Hiromichi) *see* **Namiki, Mikio, 93m:81076**
Nakazawa, Naohito Comment on the trace anomaly in stochastic quantization. **93a:81097**
Namiki, Mikio ★ Stochastic quantization. **93m:81076**
— *see also* **Tanaka, Satoshi; et al., 93g:81060**
Ohba, Ichiro *see* **Tanaka, Satoshi; et al., 93g:81060** *and* **Namiki, Mikio, 93m:81076**
(Okano, Keisuke) *see* **Namiki, Mikio, 93m:81076**
Ord, G. N. *see* **McKeon, D. G. C., 93d:81095**
Ramanathan, R. Derivation of the Klein-Gordon equation from a generalized Markov principle. **93f:81060**
Sidoravičius, V. *see* **Ignatyuk, I. A.; et al., 93d:81094**
Tanaka, Satoshi (*with* Namiki, Mikio; Ohba, Ichiro; Mizutani, Masashi; Komoike, Nobuyuki; Kanenaga, Masahiko) Stochastic quantization of bottomless systems based on a kerneled Langevin equation. (English summary) **93g:81060**
— *see also* **Namiki, Mikio, 93m:81076**
(Yamanaka, Yoshiya) *see* **Namiki, Mikio, 93m:81076**
Yoshida, M. A generalization of Nelson's conservative diffusion. **93m:81077**
Zambrini, Jean-Claude *see* **Kolsrud, Torbjörn, 93a:81095** *and* **93c:81090**

Items with secondary classifications in 81S20

Albeverio, Sergio (*with* Iwata, Koichiro; Kolsrud, Torbjörn) Conformally invariant random fields and processes—old and new. **93h:81145**
Bandyopadhyay, Pratul *see* **Roy, Ashim, 93b:81278**
Bralić, Ninoslav Random walk quantization of scalar fields. (English summary) (*see* **93b:81004**)
Das, Sumit R. (*with* Mandal, Gautam; Wadia, Spenta R.) Stochastic quantization on two-dimensional theory space and Morse theory. **93b:81180**
Dell'Antonio, Gianfausto Two results on Nelson diffusions. (*see* **93e:60007**)
— (*with* Posilicano, Andrea) Convergence of Nelson diffusions. **93e:60063**
Garbaczewski, Piotr (*with* Vigier, Jean-Pierre) Brownian motion and its descendants according to Schrödinger. **93i:81018**
Huang, Wung Hong Adiabatic regularization of the quantum stress-energy tensor in curved spacetimes: stochastic quantization method. (English summary)
Iwata, Koichiro *see* **Albeverio, Sergio; et al., 93h:81145**
Kolsrud, Torbjörn *see* **Albeverio, Sergio; et al., 93h:81145**
Landim, C. Large fluctuations for Markov processes: an application to interacting particle systems. (English summary) **93m:82026**
Mandal, Gautam *see* **Das, Sumit R.; et al., 93b:81180**
Morozov, A. Yu. (*with* Niemi, Antti J.; Palo, K.) Supersymplectic geometry of supersymmetric quantum field theories. **93e:81137**
Nakazawa, Naohito BRS symmetry in stochastic quantization of gravity. **93c:83054**
Niemi, Antti J. *see* **Morozov, A. Yu.; et al., 93e:81137**
Ohsumi, Akira Derivation of the Schrödinger equations from stochastic control theory. (English summary) (*see* **93g:93006**)
Palo, K. *see* **Morozov, A. Yu.; et al., 93e:81137**
Posilicano, Andrea *see* **Dell'Antonio, Gianfausto, 93e:60063**
Prugovečki, Eduard ★ Quantum geometry. **93b:81019**
Röckner, Michael (*with* Zhang, Tu Sheng) Uniqueness of generalized Schrödinger operators and applications. **93d:47092**
Roy, Ashim (*with* Bandyopadhyay, Pratul) Topological aspects of Liouville field theory and conformal anomaly. **93b:81278**
Vigier, Jean-Pierre *see* **Garbaczewski, Piotr, 93i:81018**
Wadia, Spenta R. *see* **Das, Sumit R.; et al., 93b:81180**
Zambrini, Jean-Claude Euclidean quantum mechanics and semiclassical limit. **93f:81026**
Zhang, Tu Sheng *see* **Röckner, Michael, 93d:47092**

81S25 Quantum stochastic calculus

Accardi, Luigi A new class of quantum states: examples and applications. (*see* **93e:81158**)
— (*with* Korolyuk, D. V.) Quantum Markov chains: the recurrence problem. **93h:81068**
— (*with* Lu, Yun Gang) Squeezing noises as weak coupling limit of Hamiltonian system. **93c:81091**
— (*with* Frigerio, Alberto; Lu, Yun Gang) On the relation between the singular and the weak coupling limits. **93i:81109**
— (*with* Fagnola, Franco; Quaegebeur, J.) A representation free quantum stochastic calculus. **93e:81061**
— (*with* Lu, Yun Gang) The low density limit in finite temperature case. **93j:81056**
Alicki, Robert (*with* Rudnicki, S.; Sadowski, S.) Quantum stochastic differential equations. (English summary)
Applebaum, David Unitary evolutions and horizontal lifts in quantum stochastic calculus. **93f:81061**
Barchielli, Alberto Quantum stochastic calculus: applications to quantum optics. **93b:81125**
— Detection theory in quantum optics and quantum stochastic calculus. (*see* **93e:81158**)
Belavkin, V. P. Stochastic posterior equations for quantum nonlinear filtering. **93b:81126**
— Continuous nondemolition observation quantum filtering and optimal estimation. (English summary) **93i:81110**
— A quantum posterior stochastics and spontaneous collapse. (English summary) **93i:81111**
— Chaotic states and stochastic integration in quantum systems. (Russian) **93k:81116**
— The unified Itô formula has the pseudo-Poisson structure $df(x) = [f(x+b) - f(x)]^{\mu}_{\nu} da^{\nu}_{\mu}$. (English summary) **93m:81078**
Bhat, B. V. Rajarama (*with* Parthasarathy, Kalyanapuram Rangachari) Generalized harmonic oscillators in quantum probability. **93k:81117**
Biane, Philippe Some properties of quantum Bernoulli random walks. **93b:81127**
Boukas, Andreas An example of a quantum exponential process. **93g:81061**

Bożejko, Marek A q-deformed probability, Nelson's inequality and central limit theorems. **93a:81098**

Castrigiano, Domenico P. L. (*with* Stärk, Florian) Intrinsic clock as a tool for path integration: an example. **93b:81128**

Chebotarëv, A. M. Minimal solutions in classical and quantum stochastics. **93m:81079**

Cortés, Emilio Extremal trajectories for stochastic equations obtained directly from the Langevin differential operator. II. First integrals. **93c:81092**

De Angelis, G. F. Relativistic Feynman-Kac-Itô formulas. (English summary) (*see* **93g:81002**)

Dermoune, A. Opérateurs d'échange et quelques applications des méthodes de noyaux. [Exchange operators and some applications of kernel methods] **93k:81118**

— Une remarque sur le processus: $\alpha a(f) + \overline{\alpha} a^+(f) + \lambda a^0(f)$. [A remark on the process $\alpha a(f) + \overline{\alpha} a^+(f) + \lambda a^0(f)$] **93k:81119**

Ekhaguere, G. O. S. Lipschitzian quantum stochastic differential inclusions. (English summary) **93k:81120**

Fagnola, Franco Pure birth and pure death processes as quantum flows in Fock space. (English summary) **93m:81080**

— Unitarity of solutions to quantum stochastic differential equations and conservativity of the associated semigroups. (English summary) **93m:81081**

— *see also* **Accardi, Luigi; et al., 93e:81061**

Frigerio, Alberto *see* **Accardi, Luigi; et al., 93i:81109**

Gudder, Stanley (*with* Schindler, C.) Quasi-discrete quantum Markov processes. (French summary) **93f:81062**

Hegerfeldt, Gerhard C. A quantum characterization of Gaussianness. (English summary) **93k:81121**

Hudson, R. L. Quantum stochastic flows. **93d:81096**

— (*with* Shepperson, P. A.) Structure relations for fermionic flows. **93k:81122**

Jaekel, M. T. Stochastic lengths. **93a:81099**

Kholevo, A. S. Statistical inference for quantum processes. (*see* **93e:81158**)

— Time-ordered exponentials in quantum stochastic calculus. **93k:81123**

Korolyuk, D. V. *see* **Accardi, Luigi, 93h:81068**

Kupsch, J. A probabilistic formulation of bosonic and fermionic integration. **93a:81100**

Lenczewski, Romuald (*with* Podgórski, Krzysztof) A q-analog of the quantum central limit theorem for $SU_q(2)$. **93m:81082**

Lindsay, J. Martin Independence for quantum stochastic integrators. **93f:81063**

Lu, Yun Gang The boson and fermion Brownian motion as quantum central limits of the quantum Bernoulli processes. (Italian summary) **93f:81064**

— *see also* **Accardi, Luigi, 93c:81091; 93i:81109** *and* **93j:81056**

Mohari, Anilesh (*with* Sinha, Kalyan B.) Quantum stochastic flows with infinite degrees of freedom and countable state Markov processes. (English summary) **93i:81112**

— Quantum stochastic differential equations with unbounded coefficients and dilations of Feller's minimal solution. (English summary) **93m:81083**

Oprea, Ana Gabriela A method of generalising the Itô-Clifford integral. (English and Romanian summaries) **93m:81084**

Ord, G. N. Quantum interference from charge conservation. (English summary) **93m:81085**

Parthasarathy, Kalyanapuram Rangachari ★ An introduction to quantum stochastic calculus. **93g:81062**

— *see also* **Bhat, B. V. Rajarama, 93k:81117** *and* **Errata: "A generalized Biane process", 93i:81113**

Petz, Dénes Entropy, the central limit theorem and the algebra of the canonical commutation relation. **93g:81063**

Podgórski, Krzysztof *see* **Lenczewski, Romuald, 93m:81082**

Quaegebeur, J. *see* **Accardi, Luigi; et al., 93e:81061**

Reinhard, P.-G. (*with* Suraud, E.) Stochastic TDHF and the Boltzman-Langevin equation. **93g:81064**

Rudnicki, S. *see* **Alicki, Robert; et al.**

Sadowski, S. *see* **Alicki, Robert; et al.**

Schindler, C. *see* **Gudder, Stanley, 93f:81062**

Schürmann, Michael Realization of unitary q-white noise on Fock space. (English summary) **93j:81057**

— The Azéma martingales as components of quantum independent increment processes. **93k:81124**

Shepperson, P. A. *see* **Hudson, R. L., 93k:81122**

Sinha, Kalyan B. *see* **Mohari, Anilesh, 93i:81112**

Speicher, Roland White noises fulfilling certain relations. **93k:81125**

Stärk, Florian *see* **Castrigiano, Domenico P. L., 93b:81128**

Suraud, E. *see* **Reinhard, P.-G., 93g:81064**

Items listed otherwise than by author

Errata:

"A generalized Biane process" Correction: "A generalized Biane process" [in *Séminaire de Probabilités, XXIV, 1988/89*, 345–348, Lecture Notes in Math., 1426, Springer, Berlin, 1990; MR 92a:81093] by K. R. Parthasarathy. (French) **93i:81113**

Items with secondary classifications in 81S25

Accardi, Luigi (*with* Lu, Yun Gang) The low density limit and the quantum Poisson process. **93i:46122**

— (*with* Lu, Yun Gang) On the weak coupling limit for quantum electrodynamics. (English summary) **93i:81293**

— *see also* **Quantum probability & related topics, 93e:81006**

Attal, Stéphane Représentation des endomorphismes de l'espace de Wiener qui préservent les martingales. (English and French summaries) [Representation of martingale-preserving endomorphisms of Wiener space] **93m:60111**

Barnett, Chris (*with* Lindsay, J. Martin; Wilde, Ivan F.) Quantum stochastic integrals as belated integrals. **93e:46091**

Belavkin, V. P. Pseudo-Euclidean representation of conditionally positive mappings. (Russian) **93i:46114**

— Quantum continual measurements and a posteriori collapse on CCR. **93j:81006**

— Quantum stochastic calculus and quantum nonlinear filtering. (English summary) **93m:81013**

Biane, Philippe Quantum random walk on the dual of SU(n). **93a:46119**

Bradshaw, W. S. Stochastic cocycles as a characterisation of quantum flows. (French summary) **93c:46116**

Chruściński, Dariusz (*with* Staszewski, P.) On the asymptotic solutions of Belavkin's stochastic wave equation. **93d:81018**

DeWitt-Morette, Cécile Quantum mechanics in curved spacetimes—stochastic processes on frame bundles. (*see* **93d:83003**)

Fagnola, Franco A Lévy theorem for free noises. **93a:46120**

— (*with* Lu, Yun Gang) The weak coupling limit for free noise. (English summary) **93j:82048**

Gardiner, C. W. (*with* Parkins, A. S.; Zoller, P.) Wave-function quantum stochastic differential equations and quantum-jump simulation methods. (English summary) **93k:81277**

Gisin, Nicolas (*with* Percival, Ian C.) Wave-function approach to dissipative processes: are there quantum jumps? **93h:81007**

Glockner, Peter (*with* Schürmann, Michael; Speicher, Roland) Realization of free white noises. **93e:46075**

Gudder, Stanley Schrödinger and Dirac quantum random walks. (English summary) **93m:82016**

Ignatyuk, I. A. (*with* Malyshev, V. A.; Sidoravičius, V.) Convergence of the stochastic quantization method. **93d:81094**

Kümmerer, Burkhard (*with* Speicher, Roland) Stochastic integration on the Cuntz algebra O_∞. **93d:46109**

Landim, C. Large fluctuations for Markov processes: an application to interacting particle systems. (English summary) **93m:82026**

Lindsay, J. Martin On set convolutions and integral-sum kernel operators. **93c:47087**

— *see also* **Barnett, Chris; et al., 93e:46091**

Lu, Yun Gang *see* **Accardi, Luigi, 93i:46122; 93i:81293** *and* **Fagnola, Franco, 93j:82048**

Malyshev, V. A. *see* **Ignatyuk, I. A.; et al., 93d:81094**

Meyer, P.-A. (*with* Yan, Jia An) Les "fonctions caractéristiques" des distributions sur l'espace de Wiener. [The "characteristic functions" of distributions on Wiener space] **93m:60115**

— *see also* **Errata: "Elements of quantum probabilities. IX. Antisymmetric and 'supersymmetric' calculi in probability theory", 93h:46092**

Ohya, Masanori (*with* Suyari, Hiroki) Rigorous derivation of error probability in coherent optical communication. (English summary) **93i:81315**

Parkins, A. S. *see* **Gardiner, C. W.; et al., 93k:81277**

Parthasarathy, Kalyanapuram Rangachari Discrete time quantum stochastic flows, Markov chains and chaos expansions. **93c:46118**

— A quantum stochastic approach to Itô's formula for Lévy processes. (English and French summaries) **93k:60163**

Percival, Ian C. *see* **Gisin, Nicolas, 93h:81007**

Picci, Giorgio Markovian representation of linear Hamiltonian systems. (English summary) (*see* **93g:81002**)

Schmüdgen, Konrad Commutative and noncommutative moment problems. **93i:47016**

Schürmann, Michael *see* **Glockner, Peter; et al., 93e:46075**

Sidoravičius, V. *see* **Ignatyuk, I. A.; et al., 93d:81094** *and* **Statulevičius, Vytautas, 93f:46099**

Speicher, Roland *see* **Kümmerer, Burkhard, 93d:46109** *and* **Glockner, Peter; et al., 93e:46075**

Staszewski, P. *see* **Chruściński, Dariusz, 93d:81018**

Statulevičius, Vytautas (*with* Sidoravičius, V.) Convergence to the Poisson law on algebras with canonical commutative relations and canonical anticommutative relations. (Russian) **93f:46099**

Suyari, Hiroki *see* **Ohya, Masanori, 93i:81315**

Voiculescu, Dan Free noncommutative random variables, random matrices and the II_1 factors of free groups. **93c:46119**

Wilde, Ivan F. *see* **Barnett, Chris; et al., 93e:46091**

Yan, Jia An *see* **Meyer, P.-A., 93m:60115**

Zoller, P. *see* **Gardiner, C. W.; et al., 93k:81277**

Items listed otherwise than by author

Errata:

"Elements of quantum probabilities. IX. Antisymmetric and 'supersymmetric' calculi in probability theory" Correction: "Elements of quantum probabilities. IX. Antisymmetric and 'supersymmetric' calculi in probability theory" [in *Séminaire de Probabilités, XXII*, 101–123, Lecture Notes in Math., 1321, Springer, Berlin, 1988; MR 91b:46063] by P.-A. Meyer. (French) **93h:46092**

Quantum probability & related topics ★ Quantum probability & related topics. **93e:81006**

81S30 Phase space methods including Wigner distributions, etc.

Balbinot, Roberto (*with* El Gradechi, Amine M.; Gazeau, Jean-Pierre; Giorgini, Bruno) Phase spaces for quantum elementary systems in anti-de Sitter and Minkowski space-times. **93j:81058**

Ban, Masashi Relative number state representation and phase operator for physical systems. **93e:81062**

Bertrand, Jacqueline (*with* Bertrand, Pierre) A class of affine Wigner functions with extended covariance properties. **93k:81126a**

— (*with* Bertrand, Pierre) Erratum: "A class of affine Wigner functions with extended covariance properties". **93k:81126b**

Bertrand, Pierre *see* **Bertrand, Jacqueline, 93k:81126a** *and* **93k:81126b**

Bijedić, N. *see* **Lalović, D.; et al., 93g:81066; 93g:81067** *and* **93h:81071**

Cariñena, José F. (*with* Figueroa, H.) Moyal quantization and wave equations. (English summary) **93k:81127**

Chandler, Colston (*with* Cohen, Leon; Lee, C.; Scully, M.; Wódkiewicz, K.) Quasi-probability distribution for spin-$\frac{1}{2}$ particles. (English summary) **93i:81114**

Cohen, Leon Multipart wave functions. **93m:81086**

— *see also* **Chandler, Colston; et al., 93i:81114**

Davidović, D. M. (*with* Lalović, D.) On one controversy about the smoothed Wigner function. **93f:81065**
— (*with* Marić, Z.) A note on smoothed quasidistributions. **93b:81129**
— *see also* **Lalović, D.; et al., 93g:81066**; **93g:81067** *and* **93h:81071**
Dodonov, V. V. (*with* Man'ko, V. I.; Osipov, D. L.) A gradient-invariant Weyl representation. An oscillator in a nonuniform magnetic field. (Russian. Russian summary) **93h:81069**
Drechsler, W. Quantized fiber dynamics for extended elementary objects involving gravitation. (English summary) **93j:81059**
El Gradechi, Amine M. *see* **Balbinot, Roberto; et al., 93j:81058**
Evtimova, E. N. (*with* Georgiev, Vladimir) Critical points of the "entropy"-like functional for the quantum distribution functions. (English summary) **93i:81115**
Fairlie, David B. (*with* Manogue, Corinne A.) The formulation of quantum mechanics in terms of phase space functions—the third equation. **93d:81097**
Figueroa, H. *see* **Cariñena, José F., 93k:81127**
Filippakis, P. *see* **Filippakis, T.; et al., 93b:81130**
Filippakis, T. (*with* Filippakis, P.; Vavougios, D.; Jannussis, A.) Positive Wigner distribution function as the common base of new creation and annihilation operators in phase space. **93b:81130**
Galetti, D. (*with* de Toledo Piza, A. F. R.) Discrete quantum phase spaces and the mod N invariance. (English summary) **93h:81070**
Gazeau, Jean-Pierre (*with* Hussin, V.) Poincaré contraction of SU(1, 1) Fock-Bargmann structure. **93k:81128**
— *see also* **Balbinot, Roberto; et al., 93j:81058**
Georgiev, Vladimir *see* **Evtimova, E. N., 93i:81115**
Giorgini, Bruno *see* **Balbinot, Roberto; et al., 93j:81058**
Gracia-Bondía, José M. Generalized Moyal quantization on homogeneous symplectic spaces. **93j:81060**
Hussin, V. *see* **Gazeau, Jean-Pierre, 93k:81128**
Jannussis, A. *see* **Filippakis, T.; et al., 93b:81130**
Kim, Chang-Ho (*with* Kim, Y. S.) Space-time geometry of relativistic particles in four-dimensional phase space. **93g:81065**
Kim, Y. S. *see* **Kim, Chang-Ho, 93g:81065**
Krüger, J. Condition for a bivariate normal probability distribution in phase space to be a quantum state. (English summary) **93i:81116**
Kunstatter, G. On the inequivalence between Dirac and reduced phase space quantization. **93d:81098**
Lalović, D. (*with* Davidović, D. M.; Bijedić, N.) Quantum mechanics in terms of nonnegative distribution functions. **93h:81071**
— (*with* Davidović, D. M.; Bijedić, N.) Quantum mechanics in terms of a two-parameter generalized Wigner function. **93g:81066**
— (*with* Davidović, D. M.; Bijedić, N.) Quantum mechanics in terms of nonnegative smoothed Wigner functions. (English summary) **93g:81067**
— *see also* **Davidović, D. M., 93f:81065**
Lee, C. *see* **Chandler, Colston; et al., 93i:81114**
Man'ko, V. I. *see* **Dodonov, V. V.; et al., 93h:81069**
Manogue, Corinne A. *see* **Fairlie, David B., 93d:81097**
Marić, Z. *see* **Davidović, D. M., 93b:81129**
Muga, J. G. (*with* Snider, R. F.) Violation of the pure-state condition by the classically evolved Wigner function. (English summary)
Nieto, Luis M. Green's function for crossed time-dependent electric and magnetic fields. Phase-space quantum mechanics approach. **93j:81061**
Osipov, D. L. *see* **Dodonov, V. V.; et al., 93h:81069**
Polubarinov, I. V. ★ Phase space representations and quantum probability theory. **93c:81093**
Royer, Antoine Ehrenfest's theorem reinterpreted and extended with Wigner's function. **93m:81087**
Scully, M. *see* **Chandler, Colston; et al., 93i:81114**
Simon, Barry The Weyl transform and L^p functions on phase space. **93b:81131**
Snider, R. F. *see* **Muga, J. G.**
de Toledo Piza, A. F. R. *see* **Galetti, D., 93h:81070**
Vavougios, D. *see* **Filippakis, T.; et al., 93b:81130**
Wódkiewicz, K. *see* **Chandler, Colston; et al., 93i:81114**

Items with secondary classifications in 81S30

Abe, Sumiyoshi Super Wigner function. **93f:81042**
Agarwal, G. S. (*with* Home, D.; Schleich, W.) Einstein-Podolsky-Rosen correlation—parallelism between the Wigner function and the local hidden variable approaches. (English summary) **93k:81011**
Arsen'ev, A. A. An initial-boundary value problem for the quantum Liouville equation. (Russian. Russian summary) **93j:81019**
Bonci, Luca *see* **Roncaglia, Roberto; et al., 93c:81281**
Cândido Ribeiro, M. A. *see* **Galetti, D., 93b:81068**
Chu, G. (*with* José, Jorge V.) The semiclassical limit of a quantum Fermi accelerator. **93d:81047**
Cini, Marcello (*with* Serva, Maurizio) Phase space representation of quantum mechanics in terms of coherent states. (English summary) **93f:81048**
— (*with* Serva, Maurizio) Measurement in quantum mechanics and classical statistical mechanics. **93h:81015**
Galetti, D. (*with* Cândido Ribeiro, M. A.) A semiclassical description of nonlocal effects on barrier transmission. **93b:81068**
Grigolini, Paolo *see* **Roncaglia, Roberto; et al., 93c:81281**
Grigoryan, G. V. (*with* Grigoryan, R. P.; Tyutin, I. V.) Equivalence of Lagrangian and Hamiltonian BRST quantizations: the general case. **93d:81181**
Grigoryan, R. P. *see* **Grigoryan, G. V.; et al., 93d:81181**
Home, D. *see* **Agarwal, G. S.; et al., 93k:81011**
José, Jorge V. *see* **Chu, G., 93d:81047**
Kärtner, F. (*with* Schack, R.; Schenzle, A.) Consistent linearization for quasi-probabilities. **93b:81320**
Ktorides, C. N. (*with* Papaloucas, L. C.) A geometric realization of van Hove's quantization prescription. **93g:81057**
Littlejohn, Robert G. The Van Vleck formula, Maslov theory, and phase space geometry. **93h:81024**
Neri, Filippo *see* **Rangarajan, Govindan, 93b:17025**
Papaloucas, L. C. *see* **Ktorides, C. N., 93g:81057**
Rangarajan, Govindan (*with* Neri, Filippo) Canonical representations of $\mathrm{sp}(2n, \mathbf{R})$. **93b:17025**
Roncaglia, Roberto (*with* Bonci, Luca; Grigolini, Paolo; West, Bruce J.) Chaos and quantum irreversibility. **93c:81281**
Schack, R. *see* **Kärtner, F.; et al., 93b:81320**
Schenzle, A. *see* **Kärtner, F.; et al., 93b:81320**
Schleich, W. *see* **Agarwal, G. S.; et al., 93k:81011**
Serva, Maurizio *see* **Cini, Marcello, 93f:81048** *and* **93h:81015**
Strachan, I. A. B. The Moyal algebra and integrable deformations of the self-dual Einstein equations. **93f:58117**
Tyutin, I. V. *see* **Grigoryan, G. V.; et al., 93d:81181**
West, Bruce J. *see* **Roncaglia, Roberto; et al., 93c:81281**
Zumino, Bruno Deformation of the quantum mechanical phase space with bosonic or fermionic coordinates. **93a:81087**

81S40 Path integrals [see also 58D30]

Albeverio, Sergio (*with* Brzeźniak, Zdzisław) Infinite-dimensional oscillatory integrals: finite-dimensional approach and some applications. (English summary) **93h:81072**
Aoyama, Hideaki (*with* Tamra, Arihiro M.) Path integral for quantum tunneling. (English summary) **93h:81073**
Bergeron, Mario Coherent state path integral for the harmonic oscillator and a spin particle in a constant magnetic field. **93b:81132**
Blum, Thomas (*with* Goldschmidt, Yadin Y.) Directed paths with random phases. (English summary) **93c:81094**
Brzeźniak, Zdzisław *see* **Albeverio, Sergio, 93h:81072**
Cadavid, A. C. (*with* Nakashima, Martin M.) The star exponential and path integrals on compact groups. **93h:81074**
Carreau, Michel The functional integral for a free particle on a half-plane. (English summary) **93k:81129**
DeWitt-Morette, Cécile (*with* Foong, See Kit) Kac's solution of the telegrapher equation, revisited. I. **93c:81095a**
— Quantum mechanics in curved spacetimes—stochastic processes on frame bundles. (*see* **93d:83003**)
Djehiche, Boualem Bernstein processes and spin-$\frac{1}{2}$ particles. (English summary) **93i:81117**
Efimov, G. V. Functional integrals, variational method and some problems of stochastical physics. **93f:81066**
Egorov, A. D. Wick monomials, diagrams, and a formula for the infinitesimal substitution of a moment function for quasimeasures. (Russian. English and Russian summaries) **93f:81067**
Farhi, Edward (*with* Gutmann, Sam) The functional integral constructed directly from the Hamiltonian. **93c:81096**
de Faria, M. (*with* Potthoff, Jürgen; Streit, Ludwig) The Feynman integrand as a Hida distribution. **93f:81068**
Ferraro, Rafael Path integral for the relativistic particle in curved space. **93i:81118**
Fesseha, K. Evaluation of the propagator for a quadratic Hamiltonian with arbitrary ordering. **93b:81133**
Fischer, Werner (*with* Leschke, Hajo; Müller, Peter) Changing dimension and time: two well-founded and practical techniques for path integration in quantum physics. **93j:81062**
Foong, See Kit Kac's solution of the telegrapher equation, revisited. II. **93c:81095b**
— *see also* **DeWitt-Morette, Cécile, 93c:81095a**
Forte, Stefano Relativistic particles with fractional spin and statistics. **93c:81097**
Fradkin, E. S. (*with* Gitman, D. M.) Path-integral representation for the relativistic particle propagators and BFV quantization. **93b:81134**
Gitman, D. M. *see* **Fradkin, E. S., 93b:81134**
Goldschmidt, Yadin Y. *see* **Blum, Thomas, 93c:81094**
Gozzi, E. (*with* Reuter, M.; Thacker, W. D.) Symmetries of the classical path integral on a generalized phase-space manifold. **93e:81063**
— (*with* Reuter, M.; Thacker, W. D.) Erratum: "Symmetries of the classical path integral on a generalized phase-space manifold" [Phys. Rev. D (3) **46** (1992), no. 2, 757–765; MR 93e:81063]. **93e:81063**
Grosche, Christian The $\mathrm{SU}(u, v)$-group path integration. **93a:81101**
— Path integral solution of a nonisotropic Coulomb-like potential. **93g:81068**
Guo, Ben Hong *see* **Liang, Jiu Qing; et al., 93a:81104**
Gutmann, Sam *see* **Farhi, Edward, 93c:81096**
Hoang Ngoc Long Path integral on non-simply connected space and problem with zero boundary condition. (English and French summaries) **93f:81069**
Inamoto, Tadashi *see* **Shimizu, A.; et al., 93m:81088**
Janke, Wolfhard (*with* Sauer, T.) Properties of higher-order Trotter formulas. **93b:81135**
Karanikas, A. I. (*with* Ktorides, C. N.) Field theoretical origin of excitation path integrals. **93a:81102**
Khandekar, Dinkar C. White-noise analysis as a tool in computing Feynman integrals. **93a:81103**
Kleinert, Hagen ★ Path integrals in quantum mechanics, statistics, and polymer physics. **93f:81070**
— Improving the variational approach to path integrals. **93b:81136**
Ktorides, C. N. *see* **Karanikas, A. I., 93a:81102**
Kuratsuji, Hiroshi Canonical phases and quantum connection. (English summary)
Leschke, Hajo *see* **Fischer, Werner; et al., 93j:81062**
Le Van Hoang On the Green function for the MIC-Kepler problem. (Russian. English and Russian summaries) **93k:81130**
Liang, Jiu Qing (*with* Guo, Ben Hong; Morandi, G.) Extended Feynman formula for harmonic oscillator and its application. **93a:81104**
Mądrecki, A. (*with* Rybaczuk, M.) On a Feynman-Kac type formula. **93b:81137**

Miyazaki, Tadashi *see* **Shimizu, A.; et al., 93m:81088**
Morandi, G. *see* **Liang, Jiu Qing; et al., 93a:81104**
Müller, Peter *see* **Fischer, Werner; et al., 93j:81062**
Nakashima, Martin M. *see* **Cadavid, A. C., 93h:81074**
Ord, G. N. Classical analog of quantum phase. **93f:81071**
Ordóñez, C. R. (*with* Pons, J. M.) Equivalence of reduced, Polyakov, Faddeev-Popov, and Faddeev path-integral quantization of gauge theories. **93d:81099**
Pons, J. M. *see* **Ordóñez, C. R., 93d:81099**
Potthoff, Jürgen *see* **de Faria, M.; et al., 93f:81068**
Redmount, Ian H. (*with* Suen, Wai-Mo) Path integration in relativistic quantum mechanics. (English summary)
Reuter, M. *see* **Gozzi, E.; et al., 93e:81063**
Rivers, R. J. ★ Path integral methods in quantum field theory. **93c:81098**
Roncadelli, Marco New path integral representation of the quantum mechanical propagator. (English summary) **93f:81072**
Rozansky, L. Path integral calculation of Green's function for Schrödinger equation in unitary gauge. (English summary)
Rybaczuk, M. *see* **Mądrecki, A., 93b:81137**
Sauer, T. *see* **Janke, Wolfhard, 93b:81135**
Shimizu, A. (*with* Inamoto, Tadashi; Miyazaki, Tadashi) Path integral quantization of a nonrelativistic particle constrained on a general hypersurface. (English summary) **93m:81088**
Smirnov, V. V. The Feynman principle for fermions with an odd covariant Hamiltonian symbol. (Russian. English summary) **93i:81119**
de Souza Dutra, Álvaro On the quantum mechanical propagator for driven coupled harmonic oscillators. (English summary) **93f:81073**
Streit, Ludwig *see* **de Faria, M.; et al., 93f:81068**
Suen, Wai-Mo *see* **Redmount, Ian H.**
Tamra, Arihiro M. *see* **Aoyama, Hideaki, 93h:81073**
Thacker, W. D. *see* **Gozzi, E.; et al., 93e:81063**
Zhao, Zu Sen Modified Zassenhaus formula and Stratonovich stochastic integrals. **93m:81089**

Items with secondary classifications in 81S40

Banquie, Belal E. Path integral derivation of the U(1) Kac-Moody characters and of the Weyl-Kac denominator. **93h:17055**
Barcelos-Neto, J. (*with* Natividade, C. P.) Observations on the path integral quantization of gauge theories.
Bartalini, G. *see* **Moretti, P., 93i:81035**
Blau, Matthias (*with* Thompson, George) Quantum Yang-Mills theory on arbitrary surfaces. **93k:81193**
Chaichian, M. (*with* Ellinas, D.; Prešnajder, Peter) Path integrals and supercoherent states. **93c:81074**
Chakrabarti, Ranabir (*with* Jagannathan, Ramaswamy) A two-parameter deformation of the Jaynes-Cummings model: path integral representation. (English summary) **93k:81092**
Chang, Kun Soo Wiener integrals and Feynman integrals. (Korean) **93g:28010**
Chung, Dong Myung Conditional Feynman integrals for the Fresnel class of functions on abstract Wiener spaces. **93c:28013**
Damgaard, P. H. (*with* Nielsen, Holger Bech; Sollacher, R.) Smooth bosonization: the Cheshire cat revisited. (English summary) **93g:81195**
De Jonghe, F. (*with* Siebelink, R.; Troost, W.; Vandoren, S.; van Nieuwenhuizen, Peter; Van Proeyen, Antoine) The regularized BRST Jacobian of pure Yang-Mills theory. (English summary) **93e:81070**
Dobrakov, Ivan Feynman type integrals as multilinear integrals. I. **93j:28018**
Dotsenko, Vladimir S. *see* **Parisi, Giorgio, 93g:82057**
Dubin, A. Yu. Path-integral quantization of the straight-line string. (Russian) **93k:81175**
Durhuus, Bergfinnur (*with* Jónsson, Thórdur) On subdivision invariant actions for random surfaces. (English summary) **93k:81243**
Edwards, S. F. Localisation via the Edwards model. **93h:82029**
Egikyan, R. S. (*with* Ktitarev, D. V.) The Feynman formula in phase space for systems of pseudodifferential equations with analytic symbols. (Russian. Russian summary) **93g:35154**
Ellinas, D. *see* **Chaichian, M.; et al., 93c:81074**
Epp, R. J. (*with* Kunstatter, G.; Toms, David J.) Path-integral quantization of scalar QED. (English summary) **93k:81258**
Farina de Souza, Carlos (*with* Gamboa, Jorge) The Faddeev-Popov method for the relativistic Landau problem. **93b:81293**
Fedotov, S. A. *see* **Popov, V. N., 93a:82014**
Foong, See Kit (*with* van Kolck, U.) Poisson random walk for solving wave equations. **93b:81043**
Fujiwara, Daisuke The stationary phase method with an estimate of the remainder term on a space of large dimension. **93d:58166**
Gamboa, Jorge *see* **Farina de Souza, Carlos, 93b:81293**
Ge, Mo Lin *see* **Pang, Lin; et al., 93m:81056**
Gong, Ren Shan Path integral formalism for $SU_q(2)$ coherent states. (English summary) **93i:81084**
Halliwell, Jonathan J. (*with* Hartle, James B.) Wave functions constructed from an invariant sum-over-histories satisfy constraints: three derivations of the Wheeler-DeWitt equation. **93g:83049**
Hartle, James B. *see* **Halliwell, Jonathan J., 93g:83049**
Hashimoto, Takashi (*with* Ogura, Kazunori; Okamoto, Kiyosato; Sawae, Ryuichi) Kirillov-Kostant theory and Feynman path integrals on coadjoint orbits of SU(2) and SU(1, 1). (English summary) **93j:58022**
Hu, B. L. (*with* Paz, Juan Pablo; Zhang, Yuhong) Quantum Brownian motion in a general environment: exact master equation with nonlocal dissipation and colored noise. **93g:82062**
Iso, Satoshi Phase-space and symplectic structure of the fractional quantum Hall effect. **93b:81313**
Jagannathan, Ramaswamy *see* **Chakrabarti, Ranabir, 93k:81092**
Jaroszewicz, T. (*with* Kurzepa, P. S.) Polyakov spin factors and Laplacians on homogeneous spaces. **93b:58152**
Jefferies, Brian On the additivity of unbounded set functions. **93b:28037**
Joglekar, Satish D. (*with* Saini, Gaitri) Compact argument for family of anomalies in path-integral formulation. **93a:81188**
Jónsson, Thórdur *see* **Durhuus, Bergfinnur, 93k:81243**
Kapitonov, V. S. (*with* Popov, V. N.) The functional approach to the theory of Coulomb crystals. (Russian) **93a:82057**
Khandekar, Dinkar C. (*with* Streit, Ludwig) Constructing the Feynman integrand. **93a:60081**
Khrennikov, A. Yu. The Trotter formula for the heat equation and the Schrödinger equation on a non-Archimedean superspace. (Russian) **93f:46114**
Klauder, John R. (*with* Tomé, Wolfgang A.) The universal propagator for affine [or SU(1, 1)] coherent states. (English summary) **93i:81085**
Kokado, Akira (*with* Konisi, Gaku; Takahasi, Wataru) Path-integral quantization of para-gauge field theory. **93a:81209**
van Kolck, U. *see* **Foong, See Kit, 93b:81043**
Konisi, Gaku *see* **Kokado, Akira; et al., 93a:81209**
Korzeniowski, Andrzej Quantum mechanical simulation of the hydrogen molecule. **93a:81034**
Ktitarev, D. V. *see* **Egikyan, R. S., 93g:35154**
Kunstatter, G. Dirac versus reduced quantization: a geometrical approach. **93d:81100**
— *see also* **Epp, R. J.; et al., 93k:81258**
Kurzepa, P. S. *see* **Jaroszewicz, T., 93b:58152**
Moretti, P. (*with* Bartalini, G.) On the semi-classical expression of the quantum-mechanical propagator. **93i:81035**
Natividade, C. P. *see* **Barcelos-Neto, J.**
Nielsen, Holger Bech *see* **Damgaard, P. H.; et al., 93g:81195**
van Nieuwenhuizen, Peter *see* **De Jonghe, F.; et al., 93e:81070**
Ogura, Kazunori *see* **Hashimoto, Takashi; et al., 93j:58022**
Okamoto, Kiyosato *see* **Hashimoto, Takashi; et al., 93j:58022**
Pang, Lin (*with* Sun, Chang Pu; Ge, Mo Lin) Topological action for one-dimensional antiferromagnet as superposition of Berry's phase for coherent states. (English summary) **93m:81056**
Parisi, Giorgio (*with* Dotsenko, Vladimir S.) Random magnetic fields and instantons in replica space. **93g:82057**
Paz, Juan Pablo *see* **Hu, B. L.; et al., 93g:82062**
Popov, V. N. The theory of model Hamiltonians and the functional integration method. (Russian) **93a:82004**
— (*with* Fedotov, S. A.) The diagram technique for ferromagnetic systems with spin 1/2. (Russian) **93a:82014**
— *see also* **Kapitonov, V. S., 93a:82057**
Prešnajder, Peter *see* **Chaichian, M.; et al., 93c:81074**
Saini, Gaitri *see* **Joglekar, Satish D., 93a:81188**
Saitô, Kimiaki Itô's formula and Lévy's Laplacian. II. **93c:60057**
Sawae, Ryuichi *see* **Hashimoto, Takashi; et al., 93j:58022**
Schaposnik, Fidel A. Symmetries and anomalies in fermionic theories. (*see* **93e:81005**)
Segal, Graeme Geometric aspects of quantum field theory. **93f:81002**
Shavgulidze, E. T. *see* **Smolyanov, O. G., 93k:58040**
Shevchenko, O. Yu. *see* **Sisakyan, A. N.; et al., 93g:81099**
Shimizu, Katsutaro (*with* Wada, Sumio) BRST invariance of a discretized path integral and operator ordering of the Wheeler-DeWitt equation in a one-variable minisuperspace model. **93c:83057**
Siebelink, R. *see* **De Jonghe, F.; et al., 93e:81070**
Sisakyan, A. N. (*with* Solovtsov, I. L.; Shevchenko, O. Yu.) δ^2-quantization of gauge fields. (English summary) **93g:81099**
Smolyanov, O. G. (*with* Shavgulidze, E. T.) ★ Континуальные интегралы. (Russian) [Path integrals] **93k:58040**
Sollacher, R. *see* **Damgaard, P. H.; et al., 93g:81195**
Solovtsov, I. L. *see* **Sisakyan, A. N.; et al., 93g:81099**
Streit, Ludwig White noise analysis theory and applications. (*see* **93e:81006**)
— *see also* **Khandekar, Dinkar C., 93a:60081**
Sun, Chang Pu *see* **Pang, Lin; et al., 93m:81056**
Takagi, Shin *see* **Yamada, Norifumi, 93g:81015**
Takahasi, Wataru *see* **Kokado, Akira; et al., 93a:81209**
Thompson, George *see* **Blau, Matthias, 93k:81193**
Tomé, Wolfgang A. *see* **Klauder, John R., 93i:81085**
Toms, David J. *see* **Epp, R. J.; et al., 93k:81258**
Troost, W. *see* **De Jonghe, F.; et al., 93e:81070**
Vandoren, S. *see* **De Jonghe, F.; et al., 93e:81070**
Van Proeyen, Antoine *see* **De Jonghe, F.; et al., 93e:81070**
Vasilevich, D. V. Path integral measure for Hamiltonian QED in curved space.
Wada, Sumio *see* **Shimizu, Katsutaro, 93c:83057**
Yamada, Norifumi (*with* Takagi, Shin) Spacetime probabilities in nonrelativistic quantum mechanics. **93g:81015**
Yasunaga, Hisatoshi Kirillov-Kostant theory and Feynman path integrals on coadjoint orbits. II. **93g:58023**
Yeh, Leehwa Generalization of the integration-within-ordered-product technique to n-mode operator ordering. **93a:81078**
Zhang, Yuhong *see* **Hu, B. L.; et al., 93g:82062**

81S99 None of the above, but in this section

Anderson, Robert Leonard *see* **Rideau, Guy; et al., 93d:81101**
Arik, Metin (*with* Demircan, E.; Turgut, T.; Ekinci, L.; Mungan, Muhittin) Fibonacci oscillators. (English summary) **93g:81069**
Balachandran, A. P. (*with* Daughton, A.; Gu, Z.-C.; Marmo, Giuseppe; Sorkin, R. D.; Srivastava, A. M.) A topological spin-statistics theorem or a use of the antiparticle. **93c:81099**
Ban, Masashi Relaxation of physical systems in relative-number state representation.

Bunchaft, Rosa *see* **Plácido, Hebe Q.; et al.**
Büttner, H. *see* **Huber, H., 93e:81064**
Chepilko, N. M. Conservation laws in quantum mechanics on a Riemannian manifold. (Russian) **93a:81105**
Daughton, A. *see* **Balachandran, A. P.; et al., 93c:81099**
Demircan, E. *see* **Arik, Metin; et al., 93g:81069**
Ekinci, L. *see* **Arik, Metin; et al., 93g:81069**
Forte, Stefano Relativistic theories of particles and fields with fractional spin and statistics. **93a:81106**
Fujii, Kanji (*with* Ogawa, Naohisa) Quantization of chiral solitons in collective-coordinate approach. (English summary) **93k:81131**
Gu, Z.-C. *see* **Balachandran, A. P.; et al., 93c:81099**
Handy, Carlos R. (*with* Lee, Patricia) Positivity and the energy quantization of physical systems: the C-shift moment method. **93a:81107**
Hatsugai, Yasuhiro (*with* Kohmoto, Mahito; Wu, Yong Shi[1]) Braid groups, anyons and gauge invariance: on topologically nontrivial surfaces. (English summary) **93m:81090**
Hebda, Piotr W. *see* **Rideau, Guy; et al., 93d:81101**
Hegerfeldt, Gerhard C. An alternative approach to the quantization of linear relativistic field equations. (English summary) **93g:81070**
Huber, H. (*with* Büttner, H.) On a classical constrained system and its quantum mechanical counterpart. (English summary) **93e:81064**
Kohmoto, Mahito *see* **Hatsugai, Yasuhiro; et al., 93m:81090**
Kunstatter, G. Dirac versus reduced quantization: a geometrical approach. **93d:81100**
Lee, Patricia *see* **Handy, Carlos R., 93a:81107**
Li, Bo Zang (*with* Wu, Jian Hua[4]) A simple algebraic method for deriving the second quantization representation. (Chinese. English and Chinese summaries)
Lusanna, Luca Classical observables of gauge theories from the multitemporal approach. **93m:81091**
Marmo, Giuseppe *see* **Balachandran, A. P.; et al., 93c:81099**
Mochizuki, Riuji $(D+1)$-dimensional formulation for D-dimensional constrained systems. (English summary) **93i:81120**
Mungan, Muhittin *see* **Arik, Metin; et al., 93g:81069**
Ogawa, Naohisa *see* **Fujii, Kanji, 93k:81131**
Plácido, Hebe Q. (*with* Bunchaft, Rosa; Santana, Ademir E.) On the quantization of generalized Hamiltonian dynamics. (English summary)
Popov, V. N. (*with* Yarunin, V. S.) A photon phase operator. (Russian. English summary) **93a:81108**
Rideau, Guy (*with* Anderson, Robert Leonard; Hebda, Piotr W.) Canonical quantization of the Bateman-Morse-Feshbach damped oscillator. **93d:81101**
Roger, Claude Déformations algébriques et applications à la physique. [Algebraic deformations and applications to physics] **93k:81132**
Santana, Ademir E. *see* **Plácido, Hebe Q.; et al.**
Semenoff, Gordon W. Anyons and Chern-Simons theory: a review. **93c:81100**
Seriu, Masafumi On the group quantization of constrained systems. A simple nontrivial model. **93a:81109**
Sorkin, R. D. *see* **Balachandran, A. P.; et al., 93c:81099**
Srivastava, A. M. *see* **Balachandran, A. P.; et al., 93c:81099**
Tolar, J. Borel quantization and the origin of topological effects in quantum mechanics. (English summary) **93g:81071**
Turgut, T. *see* **Arik, Metin; et al., 93g:81069**
Uhlmann, Armin A gauge field governing parallel transport along mixed states. **93f:81074**
Volkov, A. Yu. Quantum Volterra model. **93g:81072**
Wu, Jian Hua[4] *see* **Li, Bo Zang**
Wu, Yong Shi[1] *see* **Hatsugai, Yasuhiro; et al., 93m:81090**
Yarunin, V. S. *see* **Popov, V. N., 93a:81108**

Items with secondary classifications in 81S99

Arnal, Didier (*with* Cahen, Michel; Gutt, Simone; Zahir, H.) A Moyal type * product on Hermitian symmetric spaces. (English summary) **93i:81052**
Balachandran, A. P. (*with* Sorkin, R. D.; McGlinn, W. D.; O'Raifeartaigh, Lochlainn; Sen, Siddhartha[1]) The spin-statistics connection from homology groups of configuration space and an anyon Wess-Zumino term. (English summary) **93m:81124**
— (*with* McGlinn, W. D.; O'Raifeartaigh, Lochlainn; Sen, Siddhartha[1]; Sorkin, R. D.; Srivastava, A. M.) Topological spin-statistics theorems for strings. **93g:81116**
Bender, Carl M. *see* **Rivers, R. J.; et al., 93h:81097**
Bhaduri, R. K. *see* **Law, J.; et al., 93b:81299**
Bohm, Arno (*with* Boya, Luis J.; Kendrick, Brian) On the uniqueness of the Berry connection. **93d:81052**
Boya, Luis J. *see* **Bohm, Arno; et al., 93d:81052**
Cahen, Michel *see* **Arnal, Didier; et al., 93i:81052**
Chebotarëv, A. M. The theory of dynamical semigroups and its applications. **93i:60139**
Datta, Nilanjana (*with* Ghosh, Gautam) Berry's phase for anharmonic oscillators. (English summary) **93j:81013**
De Bièvre, Stephan Oscillator eigenstates concentrated on classical trajectories. (French summary) **93h:81021**
Dunne, Gerald (*with* Lerda, Alberto; Sciuto, Stefano; Trugenberger, Carlo A.) Exact multi-anyon wave functions in a magnetic field. **93c:81028**
Fuda, Michael G. Angular momentum and light-front scattering theory. **93a:81205**
Gamboa, Jorge General covariance, topological quantum field theories and fractional statistics. **93h:81084**
Ghosh, Gautam *see* **Datta, Nilanjana, 93j:81013**
Grigorenko, A. N. Geometry of projective Hilbert space. (English summary) **93m:58008**
Gurevich, D. I. (*with* Rubtsov, V. V.; Zobin, N. M.) Quantization of Poisson pairs: the R-matrix approach. **93f:58088**
Gutt, Simone *see* **Arnal, Didier; et al., 93i:81052**
Hensel, M. (*with* Korsch, H. J.) Dissipative quantum dynamics: solution of the generalized von Neumann equation for the damped harmonic oscillator. **93g:81032**
Hiai, Fumio (*with* Petz, Dénes) The proper formula for relative entropy and its asymptotics in quantum probability. **93b:46122**
Kendrick, Brian *see* **Bohm, Arno; et al., 93d:81052**
Khare, Avinash *see* **Law, J.; et al., 93b:81299**
Kim, Yong Duk *see* **Kwon, Ohjong; et al., 93j:81015**
Korsch, H. J. *see* **Hensel, M., 93g:81032**
Królikowski, Wiesław Anisotropic complex structure on the pseudo-Euclidean Hurwitz pairs. **93d:15040**
Kwon, Ohjong (*with* Kim, Yong Duk; Lee, Chahn) Berry's phase in a moving boundary problem. (English summary) **93j:81015**
Law, J. (*with* Srivastava, M. K.; Bhaduri, R. K.; Khare, Avinash) Mott scattering of anyons: some exact results. **93b:81299**
Lee, Chahn *see* **Kwon, Ohjong; et al., 93j:81015**
Lerda, Alberto *see* **Dunne, Gerald; et al., 93c:81028**
Li, Jian Ming (*with* Wu, Zhao Yan) Geometry of quantal adiabatic evolution for systems with a degenerate Hamiltonian. (English summary) **93k:81064**
McGlinn, W. D. *see* **Balachandran, A. P.; et al., 93g:81116** *and* **93m:81124**
Mitra, Parthasarathi Siegel gauge invariance and quantization. (English summary) **93g:81131**
Nagase, Michihiro (*with* Umeda, Tomio) The nonrelativistic limit for the Weyl quantized Hamiltonians and pseudo-differential operators. **93j:35202**
Nelson, Edward Clock space. (English summary) **93i:81167**
O'Raifeartaigh, Lochlainn *see* **Balachandran, A. P.; et al., 93g:81116** *and* **93m:81124**
Petz, Dénes *see* **Hiai, Fumio, 93b:46122**
Rivers, R. J. (*with* Wong, Chi Chung; Bender, Carl M.) Derivative expansions for affinely quantized field theories. II. Scale-invariant quantization. **93h:81097**
Rubtsov, V. V. *see* **Gurevich, D. I.; et al., 93f:58088**
Schmeelk, John Infinite order differential operators in generalized Fock spaces. **93c:46062**
— Multiplication and mixed differentiation in generalized Fock spaces. **93c:46063**
Sciuto, Stefano *see* **Dunne, Gerald; et al., 93c:81028**
Sen, Diptiman Spectrum of three anyons in a harmonic potential and the third virial coefficient. **93a:81055**
Sen, Siddhartha[1] *see* **Balachandran, A. P.; et al., 93g:81116** *and* **93m:81124**
Sorkin, R. D. *see* **Balachandran, A. P.; et al., 93g:81116** *and* **93m:81124**
Srivastava, A. M. *see* **Balachandran, A. P.; et al., 93g:81116**
Srivastava, M. K. *see* **Law, J.; et al., 93b:81299**
Suyarov, U. S. The Vlasov kinetic equation and its algebraic structure. (Russian. Russian summary) **93m:82048a**
Trugenberger, Carlo A. *see* **Dunne, Gerald; et al., 93c:81028**
Umeda, Tomio *see* **Nagase, Michihiro, 93j:35202**
Unterberger, A. Quantification relativiste. (English summary) [Relativistic quantization] **93d:58163**
Wong, Chi Chung *see* **Rivers, R. J.; et al., 93h:81097**
Wu, Zhao Yan *see* **Li, Jian Ming, 93k:81064**
Zahir, H. *see* **Arnal, Didier; et al., 93i:81052**
Zobin, N. M. *see* **Gurevich, D. I.; et al., 93f:58088**

81Txx Quantum field theory; related classical field theories

81T05 Axiomatic quantum field theory; operator algebras

Acerbi, F. (*with* Morchio, G.; Strocchi, F.) Algebraic fermion bosonization. (English summary) **93k:81133**
Ashtekar, Abhay (*with* Isham, Chris J.) Inequivalent observable algebras. Another ambiguity in field quantisation. **93a:81110**
Borchers, H.-J. Imitation of symmetries in local quantum field theory (on the interplay between locality and spectrum condition). **93b:81138**
— (*with* Schumann, Rainer) A nuclearity condition for charged states. **93a:81111**
— (*with* Yngvason, Jakob) From quantum fields to local von Neumann algebras. (English summary) **93m:81092**
— *see also* **Wiesbrock, Hans-Werner, 93h:81076**
Buchholz, Detlev (*with* Mack, Gerhard; Todorov, Ivan T.) Localized automorphisms of the U(1)-current algebra on the circle: an instructive example. (*see* **93i:81122**)
D'Antoni, C. Technical properties of the quasi-local algebra. (*see* **93i:81122**)
Doplicher, Sergio Local observables and the structure of quantum field theory. (*see* **93i:81122**)
— Abstract compact group duals, operator algebras and quantum field theory. **93e:81065**
— Progress and problems in algebraic quantum field theory. (*see* **93e:00034**)
Durdević, Mićo Quantum field theory and local contextual extensions. **93c:81101**
Fredenhagen, Klaus Structure of superselection sectors in low-dimensional quantum field theory. **93e:81066**
— Localizability of particle states. (*see* **93i:81122**)
— Generalizations of the theory of superselection sectors. (*see* **93i:81122**)
Fröhlich, Jürg (*with* Gabbiani, F.; Marchetti, P. A.) Superselection structure and statistics in three-dimensional local quantum theory. **93c:81102**
— (*with* Gabbiani, F.; Marchetti, P. A.) Braid statistics in three-dimensional local quantum theory. **93a:81112**
— (*with* Gabbiani, F.; Marchetti, P. A.) Braid statistics in three-dimensional local quantum theory. (*see* **93i:81122**)
Gabbiani, F. *see* **Fröhlich, Jürg; et al., 93a:81112; 93c:81102** *and* **(93i:81122)**
Grosse, Harald (*with* Langmann, Edwin) A superversion of quasifree second quantization. I. Charged particles. **93h:81075**
Guido, Daniele (*with* Longo, Roberto) Relativistic invariance and charge conjugation in quantum field theory. (English summary) **93i:81121**
Iagolnitzer, D. Causality in local quantum field theory: some general results. **93c:81103**
Isham, Chris J. *see* **Ashtekar, Abhay, 93a:81110**
Jakóbczyk, Lech Irreducibility and reducing subspaces for Krein space representations of field algebra. **93c:81104**

Kastler, Daniel (*with* Mebkhout, Mohammed; Rehren, Karl-Henning) Introduction to the algebraic theory of superselection sectors (space-time dimension = 2; strictly localized morphisms). (*see* **93i:81122**)
— A list of papers on algebraic field theory and related subjects. (*see* **93i:81122**)
— *see also* **Algebraic theory of superselection sectors, 93i:81122**
Khrennikov, A. Yu. Generalized functions on infinite-dimensional spaces of sources. (Russian) **93d:81102**
Langmann, Edwin *see* **Grosse, Harald, 93h:81075**
Longo, Roberto *see* **Guido, Daniele, 93i:81121**
Mack, Gerhard (*with* Schomerus, Volker) Endomorphisms and quantum symmetry of the conformal Ising model. (*see* **93i:81122**)
— *see also* **Buchholz, Detlev; et al., (93i:81122)**
Majid, Shahn Some physical applications of category theory. **93c:81105**
Marchetti, P. A. *see* **Fröhlich, Jürg; et al., 93a:81112; 93c:81102** *and* **(93i:81122)**
Mebkhout, Mohammed *see* **Kastler, Daniel; et al., (93i:81122)**
Morchio, G. *see* **Acerbi, F.; et al., 93k:81133**
Moschella, U. (*with* Strocchi, F.) The choice of test functions in gauge quantum field theories. **93m:81093**
Narnhofer, Heide *see* **Thirring, W., 93m:81094**
Rehren, Karl-Henning Braid group statistics and their superselection rules. (*see* **93i:81122**)
— Braid group statistics. **93f:81075**
— *see also* **Kastler, Daniel; et al., (93i:81122)**
Roberts, John E. Lectures on algebraic quantum field theory. (*see* **93i:81122**)
Schomerus, Volker *see* **Mack, Gerhard, (93i:81122)**
Schroer, Bert Algebraic QFT as a framework for classification and model-building. A heretic view of the new kinematics. (*see* **93i:81122**)
Schumann, Rainer *see* **Borchers, H.-J., 93a:81111**
Sen, Rathindra Nath Is it possible to do canonical quantum field theory rigorously? (*see* **93a:00022**)
Solov'ev, M. A. Causality and nonlocal field theories. (*see* **93h:81003**)
Streater, Raymond F. The energy of a Weyl soliton. (English summary) **93k:81134**
Strocchi, F. *see* **Acerbi, F.; et al., 93k:81133** *and* **Moschella, U., 93m:81093**
Strube, Dieter Translationally invariant global charges in a local collision theory for massless particles. **93a:81113**
(Swieca, Jorge André) *see* **Algebraic theory of superselection sectors, 93i:81122**
Thirring, W. (*with* Narnhofer, Heide) Covariant QED without indefinite metric. (English summary) **93m:81094**
Todorov, Ivan T. *see* **Buchholz, Detlev; et al., (93i:81122)**
Wiesbrock, Hans-Werner A comment on a recent work of H.-J. Borchers: "The CPT-theorem in two-dimensional theories of local observables" [Comm. Math. Phys. **143** (1992), no. 2, 315–332; MR 92m:46104]. (English summary) **93h:81076**
Wollenberg, M. Scaling limits and type of local algebras over curved space-time. **93m:81095**
Yngvason, Jakob *see* **Borchers, H.-J., 93m:81092**

Items listed otherwise than by author

Algebraic theory of superselection sectors ★ The algebraic theory of superselection sectors. **93i:81122**
Bibliography:
Swieca, Jorge André ★ The algebraic theory of superselection sectors. **93i:81122**
Conference:
Algebraic Theory of Superselection Sectors and Field Theory ★ The algebraic theory of superselection sectors. **93i:81122**
Palermo ★ The algebraic theory of superselection sectors. **93i:81122**

Items with secondary classifications in 81T05

Abe, Mitsuo (*with* Nakanishi, Noboru) Wightman functions in covariant operator formalism of two-dimensional quantum gravity. III. New definition. **93e:83033**
Baez, John C. (*with* Segal, Irving E.; Zhou, Zheng-Fang) ★ Introduction to algebraic and constructive quantum field theory. **93m:81002**
Dijkgraaf, Robbert (*with* Verlinde, Herman; Verlinde, Erik) Notes on topological string theory and 2D quantum gravity. **93c:81202**
Dimock, J. Quantized electromagnetic field on a manifold. **93h:81094**
Donald, Matthew J. A priori probability and localized observers. (English summary) **93h:81013**
Ekhaguere, G. O. S. Partial W^*-dynamical systems. **93m:46080**
Fichtner, Karl-Heinz (*with* Freudenberg, Wolfgang) Characterization of states of infinite boson systems. I. On the construction of states of boson systems. **93a:81056**
Freudenberg, Wolfgang *see* **Fichtner, Karl-Heinz, 93a:81056**
Fuchs, Jürgen (*with* Ganchev, Alexander Ch.; Vecsernyés, Peter) Level 1 WZW superselection sectors. **93e:81108**
Ganchev, Alexander Ch. *see* **Fuchs, Jürgen; et al., 93e:81108**
Görnitz, Thomas (*with* Graudenz, Dirk; von Weizsäcker, Carl-Friedrich) Quantum field theory of binary alternatives. (English summary) **93k:81016**
Graudenz, Dirk *see* **Görnitz, Thomas; et al., 93k:81016**
Hertle, Jochen (*with* Honegger, Reinhard) Limiting Gibbs states and dynamics for thermal photons. **93c:82005**
Hofmann, Gerald On topological tensor-algebras. (German summary) **93e:46085**
— On algebraic $\frac{1}{2}$-cones in topological tensor-algebras. I. Basic properties and normality. (English summary) **93i:46133**
Honegger, Reinhard *see* **Hertle, Jochen, 93c:82005**
Jorgensen, Palle E. T. (*with* Price, Geoffrey L.) Index theory and second quantization of boundary value problems. **93i:46121**
Kastler, Daniel Algebraic field theory: recollections and thoughts about the future. (English summary) **93k:81004**
Kay, Bernard S. (*with* Wald, Robert M.) Theorems on the uniqueness and thermal properties of stationary, nonsingular, quasifree states on spacetimes with a bifurcate Killing horizon. **93b:81189**
— The principle of locality and quantum field theory on (non-globally hyperbolic) curved spacetimes. (English summary) **93k:81157**
Kireev, A. N. (*with* Takahashi, Yasushi) On the field description of conformal Galilean particle with intrinsic rotations. **93c:81071**
Kupsch, J. A probabilistic formulation of bosonic and fermionic integration. **93a:81100**
Landsman, N. P. (*with* Linden, Noah) Superselection rules from Dirac and BRST quantisation of constrained systems. **93g:81193**
Linden, Noah *see* **Landsman, N. P., 93g:81193**
Longo, Roberto Index theory of subfactors and braid group statistics. (*see* **93i:81122**)
— Minimal index and braided subfactors. (English summary) **93i:46109**
Majid, Shahn Braided groups and algebraic quantum field theories. **93b:16071**
Nakanishi, Noboru *see* **Abe, Mitsuo, 93e:83033**
Price, Geoffrey L. *see* **Jorgensen, Palle E. T., 93i:46121**
Rédei, Miklós Bell's inequalities, relativistic quantum field theory and the problem of hidden variables. **93a:81018**
Schroer, Bert New kinematics (statistics and symmetry) in low-dimensional QFT with applications to conformal QFT_2. **93g:81173**
Segal, Irving E. *see* **Baez, John C.; et al., 93m:81002**
Takahashi, Yasushi *see* **Kireev, A. N., 93c:81071**
Todorov, Todor S. On the notion of partial commutants for unbounded operator *-representations. **93b:46107**
Vecsernyés, Peter *see* **Fuchs, Jürgen; et al., 93e:81108**
Verlinde, Erik *see* **Dijkgraaf, Robbert; et al., 93c:81202**
Verlinde, Herman *see* **Dijkgraaf, Robbert; et al., 93c:81202**
Wald, Robert M. Correlations beyond the horizon. (English summary) **93k:83042**
— *see also* **Kay, Bernard S., 93b:81189**
von Weizsäcker, Carl-Friedrich *see* **Görnitz, Thomas; et al., 93k:81016**
Wiesbrock, Hans-Werner A note on the construction of the C^*-algebra of bosonic strings. **93i:81202**
Zhou, Zheng-Fang *see* **Baez, John C.; et al., 93m:81002**

81T08 Constructive quantum field theory

Alhendi, H. (*with* Taha, M. O.) Massless φ^4 theory is not asymptotically free. (English summary) **93k:81135**
Baez, John C. (*with* Zhou, Zheng-Fang) On quantum fields satisfying a given wave equation. **93f:81076**
Bałaban, Tadeusz Constructive gauge theory. II. (*see* **93g:81074**)
Feldman, Joel Introduction to constructive quantum field theory. **93i:81123**
Ghosh, Subir (*with* Mitra, Parthasarathi) Manifest and nonmanifest Lorentz invariance for gauged self-dual bosons. **93b:81139**
Gielerak, Roman Vacuum energy densities in the $\mathscr{I}(\varphi)_2$ Euclidean field theory. (English summary) **93m:81096**
— Verification of the global Markov property for strongly coupled trigonometric interactions. (English summary) (*see* **93e:00034**)
Grimm, G. (*with* Hailer, B.; Stumpf, Harald) State representations for renormalized energy equations in quantum field theory. (German summary) **93g:81073**
Hailer, B. *see* **Grimm, G.; et al., 93g:81073**
Imbrie, John Z. (*with* Janowsky, Steven A.; Weitsman, Jonathan) Space-dependent Dirac operators and effective quantum field theory for fermions. **93b:81140**
Janowsky, Steven A. (*with* Weitsman, Jonathan) A vanishing theorem for supersymmetric quantum field theory and finite size effects in multiphase cluster expansions. **93i:81124**
— *see also* **Imbrie, John Z.; et al., 93b:81140**
Kumlin, Peter Analyticity of the scattering operator for the nonlinear Klein-Gordon equation with cubic nonlinearity. **93a:81114**
Kusuoka, Shigeo Høegh-Krohn's model of quantum fields and the absolute continuity of measures. **93m:81097**
Lehmann, Detlef A probabilistic approach to Euclidean Dirac fields. **93b:81141**
Marchetti, P. A. Anyon wave functions from anyon field operators. (English summary) **93m:81098**
Mitra, Parthasarathi *see* **Ghosh, Subir, 93b:81139**
Nill, Florian A constructive quantum field-theoretic approach to Chern-Simons theory. (English summary) **93m:81099**
Pedersen, J. (*with* Segal, Irving E.; Zhou, Zheng-Fang) Massless φ^q_d quantum field theories and the nontriviality of φ^4_4. **93m:81100**
Segal, Irving E. *see* **Pedersen, J.; et al., 93m:81100**
Stumpf, Harald *see* **Grimm, G.; et al., 93g:81073**
Taha, M. O. *see* **Alhendi, H., 93k:81135**
(Velo, G.) *see* **Constructive quantum field theory, 93g:81074**
Weitsman, Jonathan *see* **Imbrie, John Z.; et al., 93b:81140** *and* **Janowsky, Steven A., 93i:81124**
Wightman, Arthur S. Remarks on what we have learned. (*see* **93g:81074**)
— The present state of quantum field theory. **93c:81106**
— *see also* **Constructive quantum field theory, 93g:81074**
Zhou, Zheng-Fang *see* **Baez, John C., 93f:81076** *and* **Pedersen, J.; et al., 93m:81100**

Items listed otherwise than by author

Constructive quantum field theory ★ Constructive quantum field theory. II. **93g:81074**
Erice ★ Constructive quantum field theory. II. **93g:81074**
NATO Advanced Study Institute:
Constructive Quantum Field Theory ★ Constructive quantum field theory. II. **93g:81074**
School:
Mathematical Physics ★ Constructive quantum field theory. II. **93g:81074**

Items with secondary classifications in 81T08

Albeverio, Sergio Mathematical physics and stochastic analysis. (English summary) **93m:60128**
Baez, John C. (*with* Segal, Irving E.; Zhou, Zheng-Fang) ★ Introduction to algebraic and constructive quantum field theory. **93m:81002**
— (*with* Zhou, Zheng-Fang) Renormalized oscillator Hamiltonians. **93e:81020**
Haba, Zbigniew Solutions of quantum mechanics and field theory in terms of stochastic (partial) differential equations. **93b:81124**

(Holický, P.) *see* **Malyshev, V. A., 93i:82003**
Janowsky, Steven A. (*with* Weitsman, Jonathan) The phase structure of the two-dimensional $N = 2$ Wess-Zumino model. **93f:81077**
Kolk, Johan A. C. (*with* Varadarajan, V. S.) Lorentz invariant distributions supported on the forward light cone. **93a:22010**
(Kotecký, Roman) *see* **Malyshev, V. A., 93i:82003**
Malyshev, V. A. (*with* Minlos, R. A.) ★ Gibbs random fields. **93i:82003**
Mel'nik, N. O. A class of isotropic random vectors that have the Lee-Yang property. (Russian) **93e:82004**
Minlos, R. A. *see* **Malyshev, V. A., 93i:82003**
Moschella, U. The Wick-ordered exponential of the dipole field as a field of type $\mathscr{S}$. (English summary) **93k:81137**
Nishimura, Takashi Exterior product bundle over complex abstract Wiener space. **93f:58251**
Rivasseau, Vincent ★ From perturbative to constructive renormalization. **93i:81004**
Segal, Irving E. *see* **Baez, John C.; et al., 93m:81002**
Sengupta, Ambar The Yang-Mills measure for S^2. (English summary) **93k:58037**
Varadarajan, V. S. *see* **Kolk, Johan A. C., 93a:22010**
Weitsman, Jonathan *see* **Janowsky, Steven A., 93f:81077**
Zhou, Zheng-Fang *see* **Baez, John C., 93e:81020** *and* **93m:81002**

81T10 Model quantum field theories

Abraham, E. R. C. Nonlinear sigma models and their Q-lump solutions. **93a:81115**
Aitchison, I. J. R. *see* **Mehta, Manish A.; et al., 93b:81148**
do Amaral, R. L. P. G. (*with* Marino, E. C.) Canonical quantization of theories containing fractional powers of the d'Alembertian operator. (English summary) **93i:81125**
Ananias Neto, Jorge *see* **Ferreira, Erasmo, 93g:81077**
Bandelloni, Giuseppe Renormalization of gauge coset models. **93g:81075**
Belova, T. I. Resonance structures in $(3 + 1)$-dimensional $\lambda\varphi^4$ field theory and their stability. (Russian) **93k:81136**
Berger, Thilo Siegel's chiral boson and the chiral Schwinger model. (English summary)
Bergeron, Mario (*with* Semenoff, Gordon W.; Douglas, R. R.) Canonical structure of the CP^1 model in three dimensions. **93d:81104**
Bhamathi, G. *see* **Chiu, Charles B.; et al., 93g:81076**
Boschi Filho, H. (*with* Natividade, C. P.) Chiral Schwinger model at finite temperature. (English summary)
Brunelli, J. C. Stochastic quantization of fermionic theories: renormalization of the massive Thirring model. (English summary)
Calucci, Giorgio Casimir effect for moving bodies. **93c:81107**
Chiu, Charles B. (*with* Sudarshan, E. C. G.; Bhamathi, G.) Cascade model: a solvable field theory. (English summary) **93g:81076**
Cho, H. S. (*with* Kim, J. D.; Koh, In Gyu) D_5 affine Toda field theory. **93d:81105**
Cooper, Fred (*with* Simmons, L. M., Jr.; Sodano, Pasquale) Topological kinks in φ^{2n} field theories: a variational approach. **93a:81116**
Davies, J. A. *see* **Mehta, Manish A.; et al., 93b:81148**
Davis, John E. Schwinger-Dyson analysis of an exactly solvable model. (English summary)
DeWitt, Bryce S. Nonlinear sigma models in 4 dimensions: a lattice definition. (*see* **93d:83003**)
Douglas, R. R. *see* **Bergeron, Mario; et al., 93d:81104**
Efimov, G. V. (*with* Nedelko, S. N.) Phase structure of three- and four-dimensional φ^4 field theory. (English summary) **93d:81106**
— (*with* Nedelko, S. N.) Phase structure of the two-dimensional φ^4 field theory within thermofield dynamics. **93b:81142**
Ferreira, Erasmo (*with* Ananias Neto, Jorge) Movable singularities in sigma and Skyrme models. **93g:81077**
Filippov, A. T. (*with* Gangopadhyay, Debashis; Isaev, A. P.) Quantum discrete gauge models with bosonic and fermionic degrees of freedom. **93c:81108**
Fröhlich, Jürg (*with* Marchetti, P. A.) Superselection sectors in quantum field models: kinks in Φ^4_2 and charged states in lattice $(Q.E.D.)_4$. (*see* **93i:81122**)
Gangopadhyay, Debashis *see* **Filippov, A. T.; et al., 93c:81108**
Gonera, C. (*with* Kosiński, P.) Gauge symmetries in three dimensions. **93a:81117**
Goshtasbpour, Mehrdad On some calculations of effective action and Fujikawa regularized anomaly in the chiral Schwinger model. **93a:81118a**
— Errata: "On some calculations of effective action and Fujikawa regularized anomaly in the chiral Schwinger model". **93a:81118b**
Griffin, Paul A. Transverse lattice construction of $2 + 1$ Chern-Simons theory. **93b:81143**
Grosse, Harald (*with* Madore, J.) A noncommutative version of the Schwinger model. **93g:81078**
Hagen, C. R. Comment on: "Soliton solutions to the gauged nonlinear Schrödinger equation on the plane" [Phys. Rev. Lett. **64** (1990), no. 25, 2969–2972; MR 91k:81085] by R. Jackiw and S.-Y. Pi. **93d:81107**
Iagolnitzer, D. Multiparticle structure and Wilson short-distance expansion in field theories. (*see* **93g:81074**)
Imbrie, John Z. Supersymmetry breaking in Wess-Zumino models. (*see* **93g:81074**)
Isaev, A. P. *see* **Filippov, A. T.; et al., 93c:81108**
Itoyama, H. (*with* Korepin, V. E.; Thacker, H. B.) Fredholm determinant representation of quantum correlation function for sine-Gordon at special value of coupling constant. (English summary) **93g:81079**
Jackiw, R. (*with* Pi, So-Young) Time-dependent Chern-Simons solitons and their quantization. **93d:81108**
— *see also* **Hagen, C. R., 93d:81107**
Janowsky, Steven A. (*with* Weitsman, Jonathan) The phase structure of the two-dimensional $N = 2$ Wess-Zumino model. **93f:81077**
Jaroszewicz, T. (*with* Kurzepa, P. S.) Geometry of spacetime propagation of spinning particles. **93i:81126**
Keszthelyi, Bettina (*with* Kleppe, Gary) Renormalizability of $D = 3$ topologically massive gravity. **93b:81144**
Khrennikov, A. Yu. The infinite-dimensional Liouville equation. (Russian) **93m:81101**
Kim, J. D. *see* **Cho, H. S.; et al., 93d:81105**
Kleppe, Gary *see* **Keszthelyi, Bettina, 93b:81144**
Koh, In Gyu *see* **Cho, H. S.; et al., 93d:81105**
Korepin, V. E. *see* **Itoyama, H.; et al., 93g:81079**
Kosiński, P. *see* **Gonera, C., 93a:81117**
Krewald, S. (*with* Nakayama, K.) A new interpretation of dimensional regularization. **93b:81145**
Krive, I. V. (*with* Malomed, B. A.; Rozhavskii, A. S.) Tunnelling in "massless" quantum mechanics. **93b:81146**
Kurzepa, P. S. *see* **Jaroszewicz, T., 93i:81126**
Lang, K. (*with* Rühl, W.) The scalar ancestor of the energy-momentum field in critical σ-models at $2 < d < 4$. **93a:81119**
Liang, Jiu Qing (*with* Müller-Kirsten, H. J. W.; Tchrakian, D. H.) Solitons, bounces and sphalerons on a circle. **93a:81120**
Madore, J. *see* **Grosse, Harald, 93g:81078**
Majumdar, Bimal Kumar (*with* Roychoudhury, Rajkumar) $O(N)$ symmetric finite-temperature φ^4 theory in $2 + 1$ dimensions. (English summary) **93g:81080**
Malomed, B. A. *see* **Krive, I. V.; et al., 93b:81146**
Marchetti, P. A. *see* **Fröhlich, Jürg, 93i:81122**)
Marino, E. C. *see* **do Amaral, R. L. P. G., 93i:81125**
Masperi, Luis Nontopological solitons and their stability. (English summary) (*see* **93b:81004**)
McKeon, D. G. C. The Freedman-Townsend model in two and three dimensions. **93b:81147**
Mehta, Manish A. (*with* Davies, J. A.; Aitchison, I. J. R.) Stable soliton solution of the CP^1 model with a Chern-Simons term. **93b:81148**
Miao, Yan Gang Canonical quantization of the gauge-invariant version of the minimal chiral Schwinger model. (English summary) **93j:81063**
Mitra, Parthasarathi Chiral Schwinger model with a Faddeevian regularization. **93c:81109**
Moschella, U. The Wick-ordered exponential of the dipole field as a field of type $\mathscr{S}$. (English summary) **93k:81137**
Müller-Kirsten, H. J. W. *see* **Liang, Jiu Qing; et al., 93a:81120** *and* **Tchrakian, D. H., 93c:81114**
Nakayama, K. *see* **Krewald, S., 93b:81145**
Natividade, C. P. *see* **Boschi Filho, H.**
Nedelko, S. N. *see* **Efimov, G. V., 93b:81142** *and* **93d:81106**
Peyrard, Michel (*with* Piette, Bernard; Zakrzewski, Wojciech J.) Soliton scattering in the Skyrme model in $(2 + 1)$ dimensions. I. Soliton-soliton case. **93a:81121a**
— (*with* Piette, Bernard; Zakrzewski, Wojciech J.) Soliton scattering in the Skyrme model in $(2 + 1)$ dimensions. II. More general systems. **93a:81121b**
Pi, So-Young *see* **Jackiw, R., 93d:81108** *and* **Hagen, C. R., 93d:81107**
Piette, Bernard *see* **Peyrard, Michel; et al., 93a:81121a** *and* **93a:81121b**
Polonyi, Janos Topology renormalized. **93c:81110**
Roychoudhury, Rajkumar *see* **Majumdar, Bimal Kumar, 93g:81080** *and* **Sinha, Anjana, 93i:81128**
Rozhavskii, A. S. *see* **Krive, I. V.; et al., 93b:81146**
Rühl, W. *see* **Lang, K., 93a:81119**
Sachs, I. (*with* Wipf, Andreas) Finite temperature Schwinger model. (English summary) **93i:81127**
Saradzhev, F. M. The chiral Schwinger model. Nonintegrable phase dynamics. **93c:81111**
Semenoff, Gordon W. *see* **Bergeron, Mario; et al., 93d:81104**
Shtykov, N. N. *see* **Vasilevich, D. V., 93h:81078**
Simmons, L. M., Jr. *see* **Cooper, Fred; et al., 93a:81116**
Sinha, Anjana (*with* Roychoudhury, Rajkumar) Time-dependent variational method for sine-Gordon quantum field theory. (English summary) **93i:81128**
Smirnov, F. A. Lectures on integrable massive models of quantum field theory. **93b:81149**
Sodano, Pasquale *see* **Cooper, Fred; et al., 93a:81116**
de Souza Dutra, Álvaro New remarks on chiral bosonization. **93c:81112**
— On the meaning of the minimal Wess-Zumino term. (English summary) **93c:81113**
Stoyanov, D. Ts. On the connection between spin and statistics for the massless spinor field. (English summary) **93g:81081**
Sudarshan, E. C. G. *see* **Chiu, Charles B.; et al., 93g:81076**
Suranyi, P. Critical behavior from Schrödinger representation. **93g:81082**
Sutcliffe, Paul M. Nontrivial soliton scattering in an integrable chiral model in $(2 + 1)$-dimensions. **93g:81083**
Takebe, Takashi On the uniqueness of formfactors for the reduced sine-Gordon model. (Russian. English summary) **93h:81077**
Tchrakian, D. H. (*with* Müller-Kirsten, H. J. W.) A class of $(2 + 1)$-dimensional models with instanton and sphaleron-like solutions. **93c:81114**
— *see also* **Liang, Jiu Qing; et al., 93a:81120**
Thacker, H. B. *see* **Itoyama, H.; et al., 93g:81079**
Vasilevich, D. V. (*with* Shtykov, N. N.) Geometry, topology and vacuum energy. (Russian. English summary) **93h:81078**
Weitsman, Jonathan *see* **Janowsky, Steven A., 93f:81077**
Wipf, Andreas *see* **Sachs, I., 93i:81127**
Zakrzewski, Wojciech J. Soliton-like scattering in the O(3) σ-model in $(2 + 1)$ dimensions. **93b:81150**
— *see also* **Peyrard, Michel; et al., 93a:81121a** *and* **93a:81121b**
Zarembo, K. L. The $\exp(-\frac{1}{2}\lambda\varphi^2)$ model of quantum field theory. (Russian. English and Russian summaries) **93i:81129**
Zhitnitskii, A. R. Nonperturbative effects and long range order in the $(2 + 1)$-dimensional CP^1 model. **93b:81151**
Zhu, Chuan Jie $2 + 1$ topological term, anyons and their possible application in high T_c superconductivity. (*see* **93g:81003**)

Items with secondary classifications in 81T10

Abdullaev, Zh. I. (*with* Lakaev, S. N.) On the spectral properties of the matrix-valued Friedrichs model. **93e:47098**
Abouelsaood, Ahmed Equivalence of the quadratic Lagrangians for chiral bosons. (English summary) **93d:81179**

Alfaro, Jorge (*with* Damgaard, P. H.) BRST symmetry of field redefinitions. (English summary) **93k:81236**
Baez, John C. Link invariants of finite type and perturbation theory. (English summary) **93k:57006**
Barashenkov, I. V. (*with* Getmanov, B. S.; Kovtun, V. E.) The unified approach to integrable relativistic equations: soliton solutions over nonvanishing backgrounds. **93i:58067**
Bender, Carl M. (*with* Cooper, Fred; Milton, Kimball A.; Moshe, Moshe; Pinsky, Stephen S.; Simmons, L. M., Jr.) δ expansion for local gauge theories. I. A one-dimensional model. **93g:81085**
— *see also* **Rivers, R. J.; et al., 93h:81097**
Bernard, Denis On symmetries of some massless 2D field theories. **93e:81101**
Bochkarev, A. I. Trace identities and analytical evaluation of the functional determinants. (English summary) **93k:81052**
Borgs, Christian First order phase transitions in large N lattice Higgs models and Pirogov Sinai theory. A short summary. (*see* **93g:81074**)
Campostrini, Massimo (*with* Rossi, Paolo[1]) CP^{N-1} models in the $1/N$ expansion. **93b:81179**
Caputo, J. G. (*with* Flytzanis, N.) Collective coordinates by a variational approach: problems for sine-Gordon and φ^4 models. (English summary) (*see* **93e:00025**)
Cooper, Fred *see* **Bender, Carl M.; et al., 93g:81085**
Curtright, Thomas Quantum Bäcklund transformations and conformal algebras. **93c:81064**
Damgaard, P. H. *see* **Alfaro, Jorge, 93k:81236**
Degiovanni, P. Moore and Seiberg's equations and 3D topological field theory. **93k:81197**
Demarco, G. L. (*with* Fosco, C.; Trinchero, R. C.) Nonlinear σ model as a local polynomial field theory. **93a:81131**
Destri, C. (*with* de Vega, H. J.) New thermodynamic Bethe ansatz equations without strings. (English summary) **93h:82017**
Di Vecchia, Paolo (*with* Kato, Mitsuhiro; Ohta, Nobuyoshi) Double scaling limit in O(N) vector models in D dimensions. **93b:81197**
Ezawa, Hiroshi *see* **Watanabe, Keiji; et al., 93b:82051**
Flytzanis, N. *see* **Caputo, J. G., (93e:00025)**
Fosco, C. *see* **Demarco, G. L.; et al., 93a:81131**
Fröhlich, Jürg (*with* Gabbiani, F.; Marchetti, P. A.) Superselection structure and statistics in three-dimensional local quantum theory. **93c:81102**
Fujita, T. *see* **Tomachi, T.**
Gabbiani, F. *see* **Fröhlich, Jürg; et al., 93c:81102**
Getmanov, B. S. *see* **Barashenkov, I. V.; et al., 93i:58067**
Ho, Choon Lin (*with* Hosotani, Yutaka) Operator algebra in Chern-Simons theory on a torus. (English summary) **93m:81103**
Hosotani, Yutaka *see* **Ho, Choon Lin, 93m:81103**
Ivanova, T. A. Euler equations in models of theoretical physics. (Russian. Russian summary) **93i:58032**
(Kastler, Daniel) *see* **Algebraic theory of superselection sectors, 93i:81122**
Kato, Mitsuhiro *see* **Di Vecchia, Paolo; et al., 93b:81197**
Khoruzhii, S. S. (*with* Voronin, A. V.) BRST quantization of the Schwinger model. **93i:81280**
Kim, Kee Yong *see* **Kim, Yong-Wan; et al., 93k:81239**
Kim, Seung-Kook *see* **Kim, Yong-Wan; et al., 93k:81239**
Kim, Won-Tae *see* **Kim, Yong-Wan; et al., 93k:81239**
Kim, Yong Duk *see* **Kim, Yong-Wan; et al., 93k:81239**
Kim, Yong-Wan (*with* Kim, Seung-Kook; Kim, Won-Tae; Park, Young-Jai; Kim, Kee Yong; Kim, Yong Duk) Chiral Schwinger model based on the Batalin-Fradkin-Vilkovisky formalism. (English summary) **93k:81239**
Kovtun, V. E. *see* **Barashenkov, I. V.; et al., 93i:58067**
Lakaev, S. N. *see* **Abdullaev, Zh. I., 93e:47098**
Langmann, Edwin On Schwinger terms in (3 + 1) dimensions. **93b:81096**
Leal, Lorenzo Quantum kinematics of the Chern-Simons field with matter in the loop representation. (English summary) **93i:81153**
Lechtenfeld, Olaf Semiclassical approach to finite-N matrix models. (English summary) **93i:81242**
LeClair, André Integrable restrictions of quantum soliton theory and minimal conformal series. **93a:81176**
Lykken, Joseph D. (*with* Sonnenschein, Jacob; Weiss, Nathan) The theory of anyonic superconductivity: a review. **93b:81314**
Marchetti, P. A. Quantum solitons. (*see* **93g:81074**)
— *see also* **Fröhlich, Jürg; et al., 93c:81102**
de Mello, J. C. *see* **Santos, M. A.; et al., 93j:81068**
Milton, Kimball A. *see* **Bender, Carl M.; et al., 93g:81085**
Miyake, Shogo (*with* Shizuya, K.) Consistency and current algebras of a nonabelian chiral gauge theory in four dimensions. **93b:81276**
Morchio, G. (*with* Pierotti, D.; Strocchi, F.) Infrared and vacuum structure in two-dimensional models of local quantum field theory. II. Fermion bosonization. **93h:81134**
Moschella, U. A note on gauge symmetry breaking. **93i:81141**
— (*with* Strocchi, F.) The choice of test functions in gauge quantum field theories. **93m:81093**
Moshe, Moshe *see* **Bender, Carl M.; et al., 93g:81085**
Nakamura, Koichi[2] *see* **Watanabe, Keiji; et al., 93b:82051**
Nill, Florian The Coleman-Weinberg mechanism in the abelian lattice Higgs model. (*see* **93g:81074**)
Ohta, Nobuyoshi *see* **Di Vecchia, Paolo; et al., 93b:81197**
O'Raifeartaigh, Lochlainn (*with* Ruelle, Philippe; Tsutsui, Izumi) Quantum equivalence of constrained WZNW and Toda theories. **93b:81269**
Ovrut, Burt A. (*with* Thomas, Steven) Theory of vortices and monopoles on a sphere. **93a:82023**
Park, Young-Jai *see* **Kim, Yong-Wan; et al., 93k:81239**
Pedersen, J. (*with* Segal, Irving E.; Zhou, Zheng-Fang) Massless φ^6_d quantum field theories and the nontriviality of φ^4_4. **93m:81100**
Pierotti, D. *see* **Morchio, G.; et al., 93h:81134**
Pinsky, Stephen S. *see* **Bender, Carl M.; et al., 93g:81085**
Pitanga, P. *see* **Santos, M. A.; et al., 93j:81068**
Rivers, R. J. (*with* Wong, Chi Chung; Bender, Carl M.) Derivative expansions for affinely quantized field theories. II. Scale-invariant quantization. **93h:81097**
Rossi, Paolo[1] *see* **Campostrini, Massimo, 93b:81179**
Ruelle, Philippe *see* **O'Raifeartaigh, Lochlainn; et al., 93b:81269**
Samols, T. M. Vortex scattering. **93d:58035**
Santos, M. A. (*with* de Mello, J. C.; Pitanga, P.) Physical variables in gauge theories. (English summary) **93j:81068**
Sasakura, Naoki Tensor model for gravity and orientability of manifold. **93b:83019**
Segal, Irving E. *see* **Pedersen, J.; et al., 93m:81100**
Semenoff, Gordon W. Anyons and Chern-Simons theory: a review. **93c:81100**
Shizuya, K. *see* **Miyake, Shogo, 93b:81276**
Simmons, L. M., Jr. *see* **Bender, Carl M.; et al., 93g:81085**
Smailagic, A. (*with* Spallucci, Euro) Gravitational and Schwinger model anomalies: how far can the analogy go? **93c:81233**
Solov'ev, O. A. Nonabelian chiral conformal Thirring models and nonperturbative aspects of spinless string modes. (Russian) **93a:81136**
Sonnenschein, Jacob *see* **Lykken, Joseph D.; et al., 93b:81314**
Spallucci, Euro *see* **Smailagic, A., 93c:81233**
Strocchi, F. *see* **Morchio, G.; et al., 93h:81134** *and* **Moschella, U., 93m:81093**
(Swieca, Jorge André) *see* **Algebraic theory of superselection sectors, 93i:81122**
Thomas, Steven *see* **Ovrut, Burt A., 93a:82023**
Tomachi, T. (*with* Fujita, T.) Fermion condensate and the spectrum of massive Schwinger model in Bogoliubov transformed vacuum. (English summary)
Trinchero, R. C. *see* **Demarco, G. L.; et al., 93a:81131**
Tsutsui, Izumi *see* **O'Raifeartaigh, Lochlainn; et al., 93b:81269**
de Vega, H. J. *see* **Destri, C., 93h:82017**
Voronin, A. V. *see* **Khoruzhii, S. S., 93i:81280**
Watanabe, Keiji (*with* Nakamura, Koichi[2]; Ezawa, Hiroshi) Quantum field theory of thermal diffusion. **93b:82051**
Weiss, Nathan *see* **Lykken, Joseph D.; et al., 93b:81314**
Wong, Chi Chung *see* **Rivers, R. J.; et al., 93h:81097**
Zhou, Zheng-Fang *see* **Pedersen, J.; et al., 93m:81100**

Items listed otherwise than by author

Algebraic theory of superselection sectors ★ The algebraic theory of superselection sectors. **93i:81122**
Bibliography:
Swieca, Jorge André ★ The algebraic theory of superselection sectors. **93i:81122**
Conference:
Algebraic Theory of Superselection Sectors and Field Theory ★ The algebraic theory of superselection sectors. **93i:81122**
Palermo ★ The algebraic theory of superselection sectors. **93i:81122**

81T13 Yang-Mills and other gauge theories [see also 53C07, 58E15]

Abud, Mario (*with* Ader, Jean-Pierre; Cappiello, Luigi) Prepotentials and unconstrained BRST for Yang-Mills and p-forms. **93c:81115**
Ader, Jean-Pierre *see* **Abud, Mario; et al., 93c:81115**
Agnese, A. G. (*with* La Camera, M.) Gravitational field of a gauge monopole. (English summary)
Ahn, Chang-Jun (*with* Kim, Won-Tae; Park, Young-Jai; Kim, Kee Yong; Kim, Yong Duk) Equivalence of light-cone and conformal gauges in two-dimensional quantum gravity. (English summary) **93e:81067**
Aldrovandi, R. Extended gauge theories. **93h:81079**
An, Ying *see* **Song, He Shan; et al., 93k:81146**
Aragão de Carvalho, C. (*with* Baulieu, Laurent) Local BRST symmetry and superfield formulation of the Donaldson-Witten theory. **93b:81152**
Aref'eva, I. Ya. Quantum group gauge fields. (*see* **93h:81003**)
Asanov, G. S. Finslerian fibered extension of gauge field theory: Lie-invariance fibres and effective Lagrangian. **93c:81116**
— (*with* Kiselev, M. V.) Comparing the Finslerian gauge approach with the SU(3) × SU(2) × U(1)-model. **93c:81117**
Aulakh, C. S. Charged topological solitons in (4 + 1)-dimensional YMCS theory. (English summary)
Avdeev, L. V. (*with* Grigoryev, G. V.; Kazakov, D. I.) Renormalizations in abelian Chern-Simons field theories with matter. (English summary) **93g:81084**
Baaquie, Belal E. (*with* Rajeev, S. G.) Long distance behavior of the four-dimensional nonlinear sigma model with anomaly. (English summary)
Bais, F. Alexander (*with* van Driel, Peter; de Wild Propitius, Mark) Quantum symmetries in discrete gauge theories. **93b:81153**
Balachandran, A. P. (*with* Bimonte, G.; Gupta, K. S.; Stern, Allen Bruce) Conformal edge currents in Chern-Simons theories. (English summary) **93i:81130**
Balakrishna, B. S. (*with* Gürsey, Feza; Wali, Kameshwar C.) Towards a unified treatment of Yang-Mills and Higgs fields. **93h:81080**
Bandyopadhyay, Pratul *see* **Goswami, Gautam, 93c:81124**
Banerjee, Rabin (*with* Ghosh, Subir) Algebraic approach to anomalous sigma models. **93d:81109**
Barcelos-Neto, J. (*with* Natividade, C. P.) Observations on the path integral quantization of gauge theories.
Barnich, Glenn (*with* Henneaux, Marc) Comments on unitarity in the antifield formalism. (English summary) **93f:81078**
Barriola, Manuel *see* **Vachaspati, Tanmay, 93e:81080**
Batakis, Nicolaos A. (*with* Kehagias, Alexandros A.) A class of monopole vacua. **93e:81068**
— (*with* Kehagias, Alexandros A.) On certain topological aspects of the family problem. **93a:81122**
Bauer, G. (*with* Ottitsch, M.; Piguet, Olivier; Schweda, M.) Quartic ghost terms, nonlinear symmetries and gauge (in)dependence of pure Yang-Mills theories. **93b:81154**
Baulieu, Laurent *see* **Aragão de Carvalho, C., 93b:81152**

Becerril, Ricardo *see* **Matos, Tonatiuh; et al., 93i:81140**

Bender, Carl M. (*with* Cooper, Fred; Milton, Kimball A.; Moshe, Moshe; Pinsky, Stephen S.; Simmons, L. M., Jr.) δ expansion for local gauge theories. I. A one-dimensional model. **93g:81085**

— (*with* Milton, Kimball A.; Moshe, Moshe) δ expansion for local gauge theories. II. Nonperturbative calculation of the anomaly in the Schwinger model. **93g:81086**

Bimonte, G. *see* **Balachandran, A. P.; et al., 93i:81130**

Birmingham, Danny (*with* Gibbs, Richard L.; Mokhtari, Soussan) A Kallosh theorem for BF-type topological field theory. **93a:81123**

Blasi, Alberto (*with* Collina, R.) The Chern-Simons model with boundary: a cohomological approach. **93d:81110**

— (*with* Maggiore, N.; Sorella, Silvio P.) Nonrenormalization properties of the Chern-Simons action coupled to matter. **93d:81111**

Bonacina, Giuseppe (*with* Martellini, Maurizio; Nelson, Jeanette) Generalized link-invariants on 3-manifolds $\Sigma_h \times [0, 1]$ from Chern-Simons gauge and gravity theories. **93d:81112**

Brekke, Lee (*with* Dykstra, Hans; Hughes, Shane J.; Imbo, Tom D.) Knots and links of nonabelian string. (English summary) **93g:81087**

Broda, B. Skein relations for any representation of any Lie group. **93c:81118**

— Quantum BF-theory is topological. **93h:81081**

Bucher, Martin (*with* Lo, Hoi-Kwong; Preskill, John) Topological approach to Alice electrodynamics. (English summary) **93k:81138**

— (*with* Lee, Kai-Ming; Preskill, John) On detecting discrete Cheshire charge. (English summary) **93k:81139**

Burzlaff, J. (*with* Chakrabarti, Amitabha; Tchrakian, D. H.) Generalised self-dual Chern-Simons vortices. (English summary) **93i:81131**

Cangemi, D. (*with* Lee, Choonkyu) Self-dual Chern-Simons solitons in $(2 + 1)$-dimensional Einstein gravity. (English summary) **93g:81088**

Capovilla, Riccardo Generally covariant gauge theories. **93g:81089**

Cappelli, Andrea Classical dynamics of point particles in $2 + 1$ gravity. (English summary) **93f:81079**

Cappiello, Luigi *see* **Abud, Mario; et al., 93c:81115**

Castellani, Leonardo Gauge theories of quantum groups. (English summary) **93f:81080**

Castro, Carlos The self-dual supermembrane and the super-Toda molecule. (English summary) **93f:81081**

Celeghini, E. (*with* Graziano, E.; Nakamura, Koichi[2]; Vitiello, G.) Finite temperature quantum field theory and gauge field. **93d:81113**

Chakrabarti, Amitabha *see* **Burzlaff, J.; et al., 93i:81131**

Chakravarty, Sarbarish (*with* Kent, Steven; Newman, Ezra T.) Diffeomorphism algebras and the Nahm and Ward equations. **93a:81124**

Chen, Wei (*with* Semenoff, Gordon W.; Wu, Yong Shi[1]) Two-loop analysis of nonabelian Chern-Simons theory. (English summary) **93i:81132**

Cho, Y. M. (*with* Kim, Jewan; Park, D. H.) Fermionic vortex solutions in Chern-Simons electrodynamics. **93a:81125**

Choquet-Bruhat, Yvonne (*with* Noutchegueme, N.) Yang-Mills Vlasov systems. (English summary) **93i:81133**

Collina, R. *see* **Blasi, Alberto, 93d:81110**

Comtet, Alain (*with* Khare, Avinash) Self-dual Maxwell-Chern-Simons vortices in the background of gravity. **93a:81126**

Cooper, Fred *see* **Bender, Carl M.; et al., 93g:81085**

Cornish, N. J. New methods in quantum nonlocal field theory. **93e:81069**

Dahmen, H. D. (*with* Marculescu, S.; Szymanowski, Lech) Currents and anomalies in topological Yang-Mills theory. (English summary) **93i:81134**

Dancer, Andrew S. Nahm data and SU(3) monopoles. (English summary) **93i:81135**

Daniel,David (*with* González-Arroyo, Antonio; Korthals-Altes, Chris P.) Small volume physics with twisted boundary conditions. **93c:81119**

Dayi, Ömer F. A general solution of the master equation for a class of first order systems. (English summary)

De Jonghe, F. (*with* Siebelink, R.; Troost, W.) Nonlocal regularisation and two-dimensional induced actions. (English summary) **93c:81120**

— (*with* Siebelink, R.; Troost, W.; Vandoren, S.; van Nieuwenhuizen, Peter; Van Proeyen, Antoine) The regularized BRST Jacobian of pure Yang-Mills theory. (English summary) **93e:81070**

Delbourgo, Roger (*with* Triyanta) Equivalence between the Fock-Schwinger gauge and the Feynman gauge. (English summary) **93e:81071**

Deser, S. Three topics in three dimensions. (*see* **93g:81003**)

— Gravity and gauge theories in three dimensions. **93c:81121**

DeWitt, Bryce S. *see* **deLyra, Jorge L.; et al.**

Diamantini, Maria Cristina (*with* Link, Robert; Sodano, Pasquale) Chern-Simons effective action for nonrelativistic planar electrons. (English summary) **93h:81082**

Ding, Shu Xue *see* **Song, He Shan; et al., 93k:81146**

Dixon, John A. (*with* Duff, M. J.; Sezgin, Ergin) The coupling of Yang-Mills to extended objects. **93d:81114**

Doktorov, E. V. (*with* Tarakanov, A. N.) Generation of soliton solutions of self-duality equations for gauge fields. (Russian) (*see* **93d:58002**)

van Driel, Peter *see* **Bais, F. Alexander; et al., 93b:81153**

Duff, M. J. *see* **Dixon, John A.; et al., 93d:81114**

Dykstra, Hans *see* **Brekke, Lee; et al., 93g:81087**

Emery, Stéphane (*with* Piguet, Olivier) Chern-Simons theory in the axial gauge: manifold with boundary. **93f:81082**

Esposito-Farese, Gilles Superconnections and noncommutative geometry at the service of the standard model. **93c:81122**

Fairlie, David B. (*with* Govaerts, Jan; Morozov, A. Yu.) Universal field equations with covariant solutions. **93d:81115**

Falbo-Kenkel, M. K. (*with* Mansouri, F.) Nonperturbative gauge-theoretic treatment of two-particle scattering in $(2 + 1)$-dimensional gravity. (English summary) **93f:81083**

Flato, Moshé *see* **Harun-ar Rashid, A. M.; et al., 93e:81072**

Foerster, A. (*with* Girotti, H. O.) Statistical transmutation in $2 + 1$ dimensions. (English summary) **93c:81123**

Foong, See Kit *see* **deLyra, Jorge L.; et al.**

Forsyth, Bruce (*with* Schmidt, Jeffrey Robert) Eigenvalues and invariants for gauged fermions in a gravitational field. (English summary) **93j:81064**

Fradkina, T. E. An operator-generalized canonical formalism and a series of general relations in the framework of quantum gauge theories. (Russian. Russian summary) **93h:81083**

Frolov, Sergei Anatol'evich (*with* Slavnov, A. A.; Sochichiu, C.) On the SO(N) symmetry of the chiral SU(N) Yang-Mills model. (English summary) **93k:81140**

Fronsdal, C. *see* **Harun-ar Rashid, A. M.; et al., 93e:81072**

Gamboa, Jorge General covariance, topological quantum field theories and fractional statistics. **93h:81084**

Gates, S. James, Jr. (*with* Solov'ev, O. A.) On universality of the SU(2) bosonized Thirring model. (English summary) **93i:81136**

Georgelin, Y. (*with* Wallet, J.-C.) On Maxwell-Chern-Simons theory with anomalous magnetic moment. **93a:81127**

Getmanov, B. S. N-monopole-soliton-type solutions of the self-dual equations for an SU(2) gauge theory in Minkowski space time. (*see* **93b:00012**)

Ghosh, Subir *see* **Banerjee, Rabin, 93d:81109**

Giavarini, G. (*with* Martín, C. P.; Ruiz Ruiz, F.) The shift of the Chern-Simons parameter beyond one loop. (English summary) (*see* **93m:81008**)

— (*with* Martín, C. P.; Ruiz Ruiz, F.) Chern-Simons theory as the large-mass limit of topologically massive Yang-Mills theory. (English summary) **93h:81085**

Gibbs, Richard L. *see* **Birmingham, Danny; et al., 93a:81123**

Girotti, H. O. *see* **Foerster, A., 93c:81123**

Goloviznin, V. V. (*with* Molodtsov, S. V.; Snigirev, A. M.) Classical solutions of the Yang-Mills equations for two sources. (Russian) **93d:81116**

Gomes, Marcelo O. C. On $(2 + 1)$-dimensional field theories with a Chern-Simons term. (English summary) (*see* **93b:81004**)

González-Arroyo, Antonio *see* **Daniel,David; et al., 93c:81119**

Goswami, Gautam (*with* Bandyopadhyay, Pratul) Fractional statistics, Z_p spin system, and XY model. **93c:81124**

Govaerts, Jan *see* **Fairlie, David B.; et al., 93d:81115**

Govindarajan, T. R. (*with* Shankar, Ramachandran; Shaji, N.; Sivakumar, M.) Is the O(3) σ model with the Hopf term exactly equivalent to a higher-spin theory? **93d:81117**

Graziano, E. *see* **Celeghini, E.; et al., 93d:81113**

Grignani, G. (*with* Nardelli, G.) Gravity in $2 + 1$ dimensions coupled to point-like sources: a flat Chern-Simons gauge theory equivalent to Einstein's. **93b:81155**

— (*with* Nardelli, G.) Chern-Simons gravity from $(3 + 1)$-dimensional gravity. (English summary) **93m:81102**

Grigoryev, G. V. *see* **Avdeev, L. V.; et al., 93g:81084**

Guadagnini, E. (*with* Martellini, Maurizio; Mintchev, M.) Chern-Simons field theory and quantum groups. (English summary) **93i:81137**

Guidry, Mike ★ Gauge field theories. **93g:81090**

Gupta, K. S. *see* **Balachandran, A. P.; et al., 93i:81130**

Gürsey, Feza *see* **Balakrishna, B. S.; et al., 93h:81080**

Gusin, Pawel Five-dimensional abelian Chern-Simons theory in terms of linking number. (English summary) **93k:81141**

Hagen, C. R. Parity conservation in Chern-Simons theories and the anyon interpretation. **93a:81128**

Harnad, John (*with* Shapiro, Joel A.; Shnider, Steven; Taylor, Cyrus C.) Symplectic reduction of the minimally coupled massless superparticle in $D = 10$. **93b:81156**

Harun-ar Rashid, A. M. (*with* Fronsdal, C.; Flato, Moshé) Three-D singletons and 2-D C.F.T. **93e:81072**

Haugset, T. (*with* Ravndal, F.) Anyon winding numbers from the Chern-Simons interaction. **93b:81157**

Henneaux, Marc (*with* Teitelboim, Claudio; Vergara, José David) Gauge invariance for generally covariant systems. (English summary) **93k:81142**

— *see also* **Barnich, Glenn, 93f:81078**

Ho, Choon Lin (*with* Hosotani, Yutaka) Operator algebra in Chern-Simons theory on a torus. (English summary) **93m:81103**

Horváthy, P. A. Monopole scattering. (*see* **93f:81005**)

Hosotani, Yutaka *see* **Ho, Choon Lin, 93m:81103**

Hu, Zhi Jin On the isovectors of the principal chiral model. **93g:81091**

Hughes, Shane J. *see* **Brekke, Lee; et al., 93g:81087**

Iengo, Roberto (*with* Lechner, Kurt; Li, Dingping) Chern-Simons-Maxwell theory on the torus. **93h:81086**

— (*with* Lechner, Kurt) Anyon mean field as a critical-field theory. (English summary) **93h:81087**

— (*with* Lechner, Kurt) Anyon quantum mechanics and Chern-Simons theory. **93e:81073**

Imai, Naoki (*with* Ishikawa, Kenzo; Tanaka, Ikuo) Quantum theory of a relativistic particle with torsion and Chern-Simons gauge theory. (English summary) **93m:81104**

Imbo, Tom D. *see* **Brekke, Lee; et al., 93g:81087**

İpekoğlu, Y. (*with* Leblanc, Martin; Thomaz, M. T.) Thermal and quantum fluctuations in supersymmetric Chern-Simons theory. **93h:81088**

Ishikawa, Kenzo *see* **Imai, Naoki; et al., 93m:81104**

Ivanov, Evgenii Alekseevich[2] Harmonic variables: results and perspectives. (*see* **93g:81003**)

Ivanova, T. A. (*with* Popov, A. D.) Self-dual Yang-Mills fields in $d = 7, 8$, octonions and Ward equations. **93g:81092**

— (*with* Popov, A. D.) Soliton equations and self-dual gauge fields. (English summary) **93j:81065**

Jackiw, R. (*with* Pi, So-Young; Weinberg, Erick J.) Topological and nontopological solitons in relativistic and nonrelativistic Chern-Simons theory. (*see* **93a:81004**)

Joy, M. P. (*with* Sabir, M.) Chaotic behaviour and order to chaos transition of 't Hooft-Polyakov monopoles. **93c:81125**

Jungman, Gerard Further topological proofs of Gribov ambiguities. **93f:81084**

Kabat, Daniel N. Canonical quantization of abelian Chern-Simons solitons. **93b:81158**

Kallosh, Renata Geometry of scattering at Planckian energies. **93c:81126**

Kapustin, A. N. (*with* Pronin, P. I.) Chern-Simons theory in axial gauge. **93a:81129**

Kar, Supriya K. (*with* Kumar, Alok[2]) Target space structure of a chiral gauged Wess-Zumino-Witten model. (English summary)

Kataoka, Hidemi *see* **Takada, Ken-Ichi; et al., 93f:81092**

Kawabe, Tetsuji Onset of chaos in SU(2) Yang-Mills-Higgs theory with monopole. **93c:81127**
Kawamoto, Noboru (*with* Watabiki, Yoshiyuki) Even-dimensional generalization of Chern-Simons action and new gauge symmetry. **93c:81128**
— (*with* Watabiki, Yoshiyuki) Topological particle field theory, general coordinate invariance and generalized Chern-Simons actions. (English summary) **93g:81093**
— (*with* Watabiki, Yoshiyuki) Graded Lie algebra and generalized Chern-Simons actions in arbitrary dimensions. **93e:81074**
Kazakov, D. I. *see* **Avdeev, L. V.; et al., 93g:81084**
Kehagias, Alexandros A. The $SU(3)/Z_3$ gauge theory in a non-simply connected spacetime. (English summary) **93g:81094**
— *see also* **Batakis, Nicolaos A., 93a:81122** *and* **93e:81068**
Kent, Steven *see* **Chakravarty, Sarbarish; et al., 93a:81124**
Khare, Avinash Countable infinite number of sum rules for the self-dual Maxwell as well as Chern-Simons vortices. **93k:81143**
— Semilocal self-dual Chern-Simons vortices. (English summary) **93h:81089**
— *see also* **Comtet, Alain, 93a:81126**
Kim, Jae Kwan *see* **Shin, Hyeonjoon; et al., 93f:81091** *and* **Kim, Won-Tae; et al., 93j:81066**
Kim, Jewan *see* **Cho, Y. M.; et al., 93a:81125**
Kim, Kee Yong *see* **Ahn, Chang-Jun; et al., 93e:81067**
Kim, Sung Ku (*with* Min, Hyunsoo) Statistical interactions between Chern-Simons vortices. **93b:81159**
— (*with* Namgung, Wuk; Soh, Kwang Sup; Yee, Jae Hyung) Zero modes of the nonrelativistic SU(2) Chern-Simons solitons. (English summary) **93g:81095**
Kim, Won-Tae (*with* Kim, Jae Kwan; Park, Young-Jai) Minimal chiral Schwinger model in the matter gauge. (English summary) **93j:81066**
— *see also* **Ahn, Chang-Jun; et al., 93e:81067** *and* **Shin, Hyeonjoon; et al., 93f:81091**
Kim, Yong Duk *see* **Ahn, Chang-Jun; et al., 93e:81067**
Kiselev, M. V. *see* **Asanov, G. S., 93c:81117**
Korthals-Altes, Chris P. *see* **Daniel,David; et al., 93c:81119**
Kronfeld, Andreas S. $SU(N)$ gauge theories with C-periodic boundary conditions. **93c:81129**
Kubyshin, Yu. A. Higgs potentials from multidimensional Yang-Mills theories. **93b:81160**
Kumar, Alok[2] *see* **Kar, Supriya K.**
Kuratsuji, Hiroshi *see* **Takada, Ken-Ichi; et al., 93f:81092**
Kuvshinov, V. I. (*with* Nguen V'en Tkho) Nonlinear chiral field Lagrangians in the vector parametrization of unitary groups. (Russian) **93e:81075**
La Camera, M. *see* **Agnese, A. G.**
Landshoff, P. V. (*with* Rebhan, A.) Covariant gauges at finite temperature. (English summary) **93f:81085**
Langmann, Edwin (*with* Semenoff, Gordon W.) Gauge theories on a cylinder. (English summary) **93i:81138**
Leblanc, Martin (*with* Thomaz, M. T.) Maxwell-Chern-Simons theory and an ambiguity in Chern-Simons perturbation theory. **93b:81161**
— *see also* **İpekoğlu, Y.; et al., 93h:81088**
Lechner, Kurt Anyons, modular invariance and anyon gauge for arbitrary rational statistics. **93j:81067**
— *see also* **Iengo, Roberto, 93e:81073**; **93h:81086** *and* **93h:81087**
Lee, Choonkyu *see* **Cangemi, D., 93g:81088**
Lee, Kai-Ming *see* **Bucher, Martin; et al., 93k:81139**
Lee, Kimyeong Charge violation by instantons in Chern-Simons theories. **93c:81130**
Leutwyler, H. Chiral effective Lagrangians. (*see* **93d:81005**)
Lévay, Péter Quaternionic gauge fields and the geometric phase. **93b:81162**
Li, Dingping *see* **Iengo, Roberto; et al., 93h:81086**
Liguori, A. (*with* Mintchev, M.; Rossi, M.) Anyon quantum fields without a Chern-Simons term. (English summary)
Link, Robert *see* **Diamantini, Maria Cristina; et al., 93h:81082**
Lo, Hoi-Kwong *see* **Bucher, Martin; et al., 93k:81138**
Lozano, Gustavo Ground state energy for nonrelativistic bosons coupled to Chern-Simons gauge fields. **93e:81076**
Lucchesi, Claudio (*with* Piguet, Olivier) Local supersymmetry of the Chern-Simons theory and finiteness. (English summary) **93k:81144**
Luperini, Cristina On the geometry of the parameter space in two-dimensional generalized $U(N)$ Thirring models. **93f:81086**
Lüscher, Martin (*with* Narayanan, Rajamani S.; Weisz, Peter; Wolff, Ulli) The Schrödinger functional—a renormalizable probe for nonabelian gauge theories. (English summary) **93f:81087**
deLyra, Jorge L. (*with* DeWitt, Bryce S.; Foong, See Kit; et al.) The quantized $O(1,2)/O(2) \times Z_2$ sigma model has no continuum limit in four dimensions. I. Theoretical framework. (English summary)
— (*with* DeWitt, Bryce S.; Foong, See Kit; et al.) The quantized $O(1,2)/O(2) \times Z_2$ sigma model has no continuum limit in four dimensions. II. Lattice simulation. (English summary)
Maggiore, N. *see* **Blasi, Alberto; et al., 93d:81111**
Malyshev, K. On the exactness of the U(1)-gauge field 1-form and on the fractional statistics generated by the Chern-Simons Lagrangian. (Russian. English summary) **93c:81131**
Mansouri, F. *see* **Falbo-Kenkel, M. K., 93f:81083**
Manton, N. S. Skyrme fields and instantons. **93h:81090**
Marculescu, S. *see* **Dahmen, H. D.; et al., 93i:81134**
Marcus, Neil (*with* Oz, Yaron; Yankielowicz, Shimon) Harmonic space, self-dual Yang-Mills and the $N = 2$ string. **93g:81096**
Margolin, A. È. (*with* Strazhev, V. I.) Noncompact groups of internal symmetry in the theory of gauge fields. (Russian) (*see* **93d:58002**)
Martellini, Maurizio *see* **Bonacina, Giuseppe; et al., 93d:81112** *and* **Guadagnini, E.; et al., 93i:81137**
Martín, C. P. *see* **Giavarini, G.; et al., 93h:81085** *and* (**93m:81008**)
Martin, Stephen P. The graph-representation approach to topological field theory in $2 + 1$ dimensions. **93h:81091**
Masperi, Luis Solitons and bubbles in models with Chern-Simons term. (English summary) **93i:81139**
Matos, Tonatiuh (*with* Rodríguez, Guadalupe; Becerril, Ricardo) Exact solutions of $SL(N, \mathbf{R})$-invariant chiral equations: one- and two-dimensional subspaces. (English summary) **93i:81140**
McKeon, D. G. C. A three-dimensional gauge theory. (English and French summaries) **93f:81088**
— An extended Gross-Neveu model. (Ukrainian. English, Russian and Ukrainian summaries)
Meetz, Kurt Geometric aspects of some hidden symmetries. **93e:81077**
de Mello, J. C. *see* **Santos, M. A.; et al., 93j:81068**
Milton, Kimball A. *see* **Bender, Carl M.; et al., 93g:81085** *and* **93g:81086**
Min, Hyunsoo *see* **Kim, Sung Ku, 93b:81159**
Mintchev, M. (*with* Rossi, M.) Gauss law and charged fields in the presence of a Chern-Simons term. **93f:81089**
— *see also* **Guadagnini, E.; et al., 93i:81137** *and* **Liguori, A.; et al.**
Mokhtari, Soussan *see* **Birmingham, Danny; et al., 93a:81123**
Molodtsov, S. V. *see* **Goloviznin, V. V.; et al., 93d:81116**
Morozov, A. Yu. *see* **Fairlie, David B.; et al., 93d:81115**
Moschella, U. A note on gauge symmetry breaking. **93i:81141**
Moshe, Moshe *see* **Bender, Carl M.; et al., 93g:81085** *and* **93g:81086**
Müller-Kirsten, H. J. W. *see* **Tchrakian, D. H.**
Nair, V. P. (*with* Schiff, Jeremy) Kähler-Chern-Simons theory and symmetries of anti-self-dual gauge fields. **93i:81142**
Nakamura, Koichi[2] *see* **Celeghini, E.; et al., 93d:81113**
Nakanishi, Noboru (*with* Ojima, Izumi) ★ Covariant operator formalism of gauge theories and quantum gravity. **93g:81097**
Namgung, Wuk *see* **Kim, Sung Ku; et al., 93g:81095**
Narayanan, Rajamani S. *see* **Lüscher, Martin; et al., 93f:81087**
Nardelli, G. *see* **Grignani, G., 93b:81155** *and* **93m:81102**
Natividade, C. P. *see* **Barcelos-Neto, J.**
Nelson, Jeanette *see* **Bonacina, Giuseppe; et al., 93d:81112**
Newman, Ezra T. *see* **Chakravarty, Sarbarish; et al., 93a:81124**
Nguen V'en Tkho *see* **Kuvshinov, V. I., 93e:81075**
van Nieuwenhuizen, Peter *see* **De Jonghe, F.; et al., 93e:81070**
Noutchegueme, N. *see* **Choquet-Bruhat, Yvonne, 93i:81133**
O'Brien, G. M. (*with* Tchrakian, D. H.) A nonabelian Higgs model with instantons and sphaleron. **93m:81105**
Odintsov, S. D. (*with* Timoshkin, A. V.) Asymptotic properties of the abelian Chern-Simons field theory with matter in curved space-time. (Russian. Russian summary) **93i:81143**
Ojima, Izumi *see* **Nakanishi, Noboru, 93g:81097**
Ojima, Shuichi Bosonization of chiral fermions on higher genus Riemann surfaces. **93c:81132**
Okubo, Susumu Existence of gauge field in any partially integrable systems. **93b:81163**
Otsu, Hideharu (*with* Sato, Toshiro[2]) "Local" versus "nonlocal" Hopf terms. Are they equivalent? **93d:81118**
Ottitsch, M. *see* **Bauer, G.; et al., 93b:81154**
Oz, Yaron *see* **Marcus, Neil; et al., 93g:81096**
Park, D. H. *see* **Cho, Y. M.; et al., 93a:81125**
Park, Seon H. Critical behavior of $(2 + 1)$-dimensional CP^{N-1} model with a Chern-Simons term. **93b:81164**
Park, Young-Jai *see* **Ahn, Chang-Jun; et al., 93e:81067**; **Shin, Hyeonjoon; et al., 93f:81091** *and* **Kim, Won-Tae; et al., 93j:81066**
Parkes, Andrew A cubic action for self-dual Yang-Mills. (English summary) **93c:81133**
Pi, So-Young *see* **Jackiw, R.; et al., (93a:81004)**
Piette, Bernard (*with* Sutcliffe, Paul M.; Zakrzewski, Wojciech J.) Soliton antisoliton scattering in $(2 + 1)$ dimensions. (English summary)
Piguet, Olivier *see* **Bauer, G.; et al., 93b:81154**; **Emery, Stéphane, 93f:81082** *and* **Lucchesi, Claudio, 93k:81144**
Pinsky, Stephen S. *see* **Bender, Carl M.; et al., 93g:81085**
Pitanga, P. *see* **Santos, M. A.; et al., 93j:81068**
Popov, A. D. Solutions of the Yang-Mills and the Yang-Mills-Higgs equations. (Russian. English summary) **93c:81134**
— Meron-type solutions of the Yang-Mills equations in $4n$ dimensions. (English summary) **93e:81078**
— Anti-self-dual solutions of the Yang-Mills equations in $4n$ dimensions. **93g:81098**
— *see also* **Ivanova, T. A., 93g:81092** *and* **93j:81065**
Preskill, John *see* **Bucher, Martin; et al., 93k:81138** *and* **93k:81139**
Pronin, P. I. *see* **Kapustin, A. N., 93a:81129**
Quackenbush, John Chiral gauge field theory in two dimensions. **93b:81165**
Rajeev, S. G. *see* **Baaquie, Belal E.**
Ravndal, F. *see* **Haugset, T., 93b:81157**
Rebhan, A. *see* **Landshoff, P. V., 93f:81085**
Rivelles, Victor O. Topological spinning particles. **93f:81090**
Rodgers, V. G. J. QCD instantons and 2D surfaces. **93e:81079**
Rodríguez, Guadalupe *see* **Matos, Tonatiuh; et al., 93i:81140**
Rossi, M. *see* **Mintchev, M., 93f:81089** *and* **Liguori, A.; et al.**
Ruiz Ruiz, F. *see* **Giavarini, G.; et al., 93h:81085** *and* (**93m:81008**)
Ryzhov, A. B. (*with* Savinkov, A. G.) Charge dynamics on U(1)-fiber bundles. (Russian. English and Russian summaries) **93k:81145**
Sabir, M. *see* **Joy, M. P., 93c:81125**
Saidi, E. H. On the zero mode of the Poisson gauge theory. **93b:81166**
Saller, H. On the nonparticle structure of gauge interactions. **93i:81144**
Santos, M. A. (*with* de Mello, J. C.; Pitanga, P.) Physical variables in gauge theories. (English summary) **93j:81068**
Sato, Toshiro[2] *see* **Otsu, Hideharu, 93d:81118**
Savinkov, A. G. *see* **Ryzhov, A. B., 93k:81145**
Schiff, Jeremy *see* **Nair, V. P., 93i:81142**
Schmidt, Jeffrey Robert *see* **Forsyth, Bruce, 93j:81064**
Schütte, D. The problem of gauge fixing for spherically symmetric Yang-Mills fields. **93c:81135**

Schweda, M. *see* **Bauer, G.; et al., 93b:81154**
Semenoff, Gordon W. *see* **Chen, Wei; et al., 93i:81132** *and* **Langmann, Edwin, 93i:81138**
Sezgin, Ergin *see* **Dixon, John A.; et al., 93d:81114**
Shaji, N. *see* **Govindarajan, T. R.; et al., 93d:81117**
Shankar, Ramachandran *see* **Govindarajan, T. R.; et al., 93d:81117**
Shapiro, Joel A. *see* **Harnad, John; et al., 93b:81156**
Shevchenko, O. Yu. *see* **Sisakyan, A. N.; et al., 93g:81099**
Shin, Hyeonjoon (*with* Kim, Won-Tae; Kim, Jae Kwan; Park, Young-Jai) BRST formulation of Chern-Simons gauge theory coupled to matter fields. (English summary) **93f:81091**
Shiraishi, Kiyoshi U(∞) gauge theory from higher dimensions. (English summary)
Shnider, Steven *see* **Harnad, John; et al., 93b:81156**
Shu, Wei-Tong Global existence of Maxwell-Higgs fields. **93h:81092**
Siebelink, R. *see* **De Jonghe, F.; et al., 93c:81120** *and* **93e:81070**
Simmons, L. M., Jr. *see* **Bender, Carl M.; et al., 93g:81085**
Sisakyan, A. N. (*with* Solovtsov, I. L.; Shevchenko, O. Yu.) δ^2-quantization of gauge fields. (English summary) **93g:81099**
Sitenko, Yu. A. On the possible unobservability of the Wu-Yang phase factor in curved space. (Russian) **93i:81145**
Sivakumar, M. *see* **Govindarajan, T. R.; et al., 93d:81117**
Slavnov, A. A. *see* **Frolov, Sergei Anatol'evich; et al., 93k:81140**
Smoller, Joel A. (*with* Wasserman, Arthur G.) Existence of particle-like solutions of the Einstein-Yang/Mills equations. **93b:81167**
Snigirev, A. M. *see* **Goloviznin, V. V.; et al., 93d:81116**
Sochichiu, C. *see* **Frolov, Sergei Anatol'evich; et al., 93k:81140**
Sodano, Pasquale *see* **Diamantini, Maria Cristina; et al., 93h:81082**
Soh, Kwang Sup *see* **Kim, Sung Ku; et al., 93g:81095**
Solov'ev, O. A. *see* **Gates, S. James, Jr., 93i:81136**
Solovtsov, I. L. *see* **Sisakyan, A. N.; et al., 93g:81099**
Song, He Shan (*with* Ding, Shu Xue; An, Ying) Chern-Simons gauge theory and Ginzburg-Landau type theories. I. Abelian cases. (English summary) **93k:81146**
Sorella, Silvio P. *see* **Blasi, Alberto; et al., 93d:81111**
de Souza Dutra, Álvaro Nonanomalous bosonized theories from a gauge principle. **93a:81130**
Stern, Allen Bruce *see* **Balachandran, A. P.; et al., 93i:81130**
Strachan, I. A. B. Low-velocity scattering of vortices in a modified abelian Higgs model. **93b:81168**
Strassler, Matthew J. Field theory without Feynman diagrams: one-loop effective actions. (English summary) **93k:81147**
Strazhev, V. I. *see* **Margolin, A. È.,** (**93d:58002**)
Sutcliffe, Paul M. Skyrmions from kinks. (English summary) **93g:81100**
— *see also* **Piette, Bernard; et al.**
Szymanowski, Lech *see* **Dahmen, H. D.; et al., 93i:81134**
Takada, Ken-Ichi (*with* Kataoka, Hidemi; Kuratsuji, Hiroshi) A dynamics of monopole in gauge space and quantization of dyon charge. (English summary) **93f:81092**
Tanaka, Ikuo *see* **Imai, Naoki; et al., 93m:81104**
Tarakanov, A. N. *see* **Doktorov, E. V.,** (**93d:58002**)
Taylor, Cyrus C. *see* **Harnad, John; et al., 93b:81156**
Tchrakian, D. H. (*with* Müller-Kirsten, H. J. W.) A (2 + 1)-dimensional model with instanton and sphaleron solutions. (English summary)
— *see also* **Burzlaff, J.; et al., 93i:81131** *and* **O'Brien, G. M., 93m:81105**
Teitelboim, Claudio *see* **Henneaux, Marc; et al., 93k:81142**
Temple-Raston, M. Dyons in topological field theories. **93b:81169**
Thomaz, M. T. *see* **Leblanc, Martin, 93b:81161** *and* **İpekoğlu, Y.; et al., 93h:81088**
Timoshkin, A. V. *see* **Odintsov, S. D., 93i:81143**
Triyanta *see* **Delbourgo, Roger, 93e:81071**
Troost, W. *see* **De Jonghe, F.; et al., 93c:81120** *and* **93e:81070**
Vachaspati, Tanmay (*with* Barriola, Manuel) A new class of defects. (English summary) **93e:81080**
Vandoren, S. *see* **De Jonghe, F.; et al., 93e:81070**
Van Proeyen, Antoine *see* **De Jonghe, F.; et al., 93e:81070**
Vasil'ev, M. A. Consistent higher spin gauge theories in 3 + 1 dimensions. (*see* **93g:81003**)
Vergara, José David *see* **Henneaux, Marc; et al., 93k:81142**
Vitiello, G. *see* **Celeghini, E.; et al., 93d:81113**
Wali, Kameshwar C. *see* **Balakrishna, B. S.; et al., 93h:81080**
Wallet, J.-C. *see* **Georgelin, Y., 93a:81127**
Wang, Sheng (*with* Yang, Yi Song) Solutions of the generalized Bogomol'nyĭ equations via monotone iterations. (English summary) **93k:81148**
Wasserman, Arthur G. *see* **Smoller, Joel A., 93b:81167**
Watabiki, Yoshiyuki *see* **Kawamoto, Noboru, 93c:81128**; **93e:81074** *and* **93g:81093**
Weinberg, Erick J. *see* **Jackiw, R.; et al., (93a:81004)**
Weisz, Peter *see* **Lüscher, Martin; et al., 93f:81087**
de Wild Propitius, Mark *see* **Bais, F. Alexander; et al., 93b:81153**
Wolff, Ulli *see* **Lüscher, Martin; et al., 93f:81087**
Wu, Yong Shi[1] Topological Chern-Simons gauge theory and "new" knot/link polynomials. **93c:81136**
— *see also* **Chen, Wei; et al., 93i:81132**
Yang, Yi Song *see* **Wang, Sheng, 93k:81148**
Yankielowicz, Shimon *see* **Marcus, Neil; et al., 93g:81096**
Yee, Jae Hyung *see* **Kim, Sung Ku; et al., 93g:81095**
Yoon, Jaihan CP^{N-1} model as reduction of gravity theories. (English summary) **93i:81146**
Yoon, Yongsung Zero modes of the nonrelativistic self-dual Chern-Simons vortices on the Toda backgrounds. **93d:81119**
Zakrzewski, Wojciech J. *see* **Piette, Bernard; et al.**
Zhang, Huazhong Quantum aspects of zero modes, topological vacua and dynamical supersymmetry breaking in nonabelian gauge theories. **93d:81120**
Zhitnitskiĭ, A. R. Nonperturbative effects in 2d CP^{N-1} model and 4d YM theory. A Z_N toron approach. **93g:81101**

Items with secondary classifications in 81T13

Ablowitz, Mark J. (*with* Clarkson, Peter A.) ★ Solitons, nonlinear evolution equations and inverse scattering. **93g:35108**
— *see also* **Chakravarty, Sarbarish; et al., 93i:58069**
Aitchison, I. J. R. *see* **Mehta, Manish A.; et al., 93b:81148**
Albeverio, Sergio (*with* Iwata, Koichiro; Kolsrud, Torbjörn) Random parallel transport on surfaces of finite type, and relations to homotopy. (English summary) (*see* **93g:81002**)
de Alfaro, Vittorio (*with* Fubini, Sergio; Furlan, Giuseppe) Why we like octonions. (Italian summary) **93d:17002**
Aliev, B. N. (*with* Leznov, A. N.) The problem of the principal chiral field with the parameters depending on free arguments and its integration. (English summary) **93i:58065**
Allen, Bruce (*with* Ottewill, Adrian C.) Gauge independence in Hadamard renormalization. **93i:81152**
Alvarez-Gaumé, Luis (*with* Labastida, J. M. F.; Ramallo, A. V.) Remarks on topological Chern-Simons theory. **93a:58030**
Amano, Kaoru (*with* Higuchi, Saburo) Topology change in ISO(2, 1) Chern-Simons gravity. **93h:58031**
Ananias Neto, Jorge *see* **Ferreira, Erasmo, 93b:81305**
Anco, Stephen C. Construction of locally-symmetric Lagrangian field theories from variational identities. (English summary) **93k:58069**
Asanov, G. S. Gauge-covariant stationary curves on Finslerian and jet fibrations and gauge extension of Lorentz force. **93c:53011**
Ashtekar, Abhay (*with* Isham, Chris J.) Representations of the holonomy algebras of gravity and nonabelian gauge theories. **93i:83042**
van Baal, Pierre Analytic methods from finite to infinite volumes. **93c:81146**
— More (thoughts on) Gribov copies. **93a:58028**
Bakas, Ioannis (*with* Depireux, Didier A.) The origin of gauge symmetries in integrable systems of the KdV type. **93b:58061**
Balakrishna, B. S. (*with* Wali, Kameshwar C.) Bogomol'nyĭ equations in the Einstein-Yang-Mills-Higgs system. (English summary) **93i:81298**
Bambusi, Dario Gauge field equation on principal fibre bundle. A Clifford algebra formulation. (*see* **93f:00011**)
Bandyopadhyay, Pratul *see* **Goswami, Gautam, 93k:82026**
Bar-Natan, Dror (*with* Witten, Edward) Perturbative expansion of Chern-Simons theory with noncompact gauge group. **93c:81244**
Barrett, J. W. Holonomy and path structures in general relativity and Yang-Mills theory. **93d:53092**
Batalin, I. A. (*with* Lavrov, P. M.; Tyutin, I. V.) Remarks on the Sp(2)-covariant Lagrangian quantization of gauge theories. **93c:81245**
Bejancu, Aurel Gauge theory on a vector bundle. II. Local gauge invariance and Lagrangians for gauge fields. **93b:58042**
Bilal, Adel All W_3 algebras from SL(3) Chern-Simons theory. **93e:81036**
Birmingham, Danny (*with* Blau, Matthias; Rakowski, Mark; Thompson, George) Topological field theory. **93c:81003**
Blau, Matthias (*with* Thompson, George) Quantum Yang-Mills theory on arbitrary surfaces. **93k:81193**
— *see also* **Birmingham, Danny; et al., 93c:81003**
Blok, B. (*with* Varchenko, A. N.) Topological conformal field theories and the flat coordinates. **93d:81149**
de Boer, Jan (*with* Goeree, Jacob) W-gravity from Chern-Simons theory. (English summary) **93j:81086**
— (*with* Goeree, Jacob) The covariant W_3 action. **93a:81166**
Bor, Gil Yang-Mills fields which are not self-dual. **93e:58030**
Bratchikov, A. V. Renormalization properties of two-dimensional homogeneous symplectic σ-models. (English summary) **93e:81103**
Broda, B. Higher-dimensional Chern-Simons theory and link invariants. **93i:57041**
Brovkin, L. Yu. Separation of the gauge-group volume, and the one-loop functional integral in quantum gravity. (Russian)
Buccella, Franco (*with* Esposito, Giampiero; Miele, Gennaro) Spontaneously broken SU(5) symmetries and 1-loop effects in the early universe. **93b:81183**
Cappelli, Andrea (*with* Ciafaloni, Marcello; Valtancoli, Paolo) Classical scattering in 2 + 1 gravity with N point sources. **93b:83050**
Carey, A. L. (*with* Hannabuss, K. C.) Temperature states on gauge groups. (English and French summaries) **93j:22034**
Castro, Carlos SU(∞) (super)gauge theories and self-dual (super)gravity. (English summary) **93j:53034**
Chakravarty, Sarbarish (*with* Mason, Lionel; Newman, Ezra T.) Canonical structures on anti-self-dual four-manifolds and the diffeomorphism group. **93a:58173**
— (*with* Ablowitz, Mark J.; Takhtajan, L. A.) Self-dual Yang-Mills equation and new special functions in integrable systems. (English summary) **93i:58069**
Chao, Liu *see* **Hou, Bo Yu, 93k:58115**
Chatterjee, Ashoke K. (*with* Sreedhar, V. V.) Perturbed Chern-Simons theory, fractional statistics, and Yang-Baxter algebra. **93b:81286**
Chau, Ling-Lie Nonlinear differential equations in physics and their geometrical integrability properties. **93c:81237**
Cho, Y. M. (*with* Zoh, S. W.) Gauge theory of Virasoro-Kac-Moody group. (English summary) **93g:81035**
— (*with* Soh, Kwang Sup; Yoon, Jaihan; Park, Q-Han) Gravitation as gauge theory of the diffeomorphism group. (English summary) **93i:83082**
— (*with* Park, D. H.) Causally spanning anyonic cosmic string. (English summary) **93g:83015**
— (*with* Zoh, S. W.) Virasoro invariance and theory of internal string. (English summary) **93j:81029**
Choquet-Bruhat, Yvonne Cosmological Yang-Mills hydrodynamics. **93a:83024**
Ciafaloni, Marcello *see* **Cappelli, Andrea; et al., 93b:83050**
Clarkson, Peter A. *see* **Ablowitz, Mark J., 93g:35108**
Cohen, Ron Chiral algebras—two examples. **93b:81091**
Cortés, J. L. (*with* Gamboa, Jorge; Velázquez, L.) Electromagnetic interaction of anyons. (English summary) **93e:81147**

Crescimanno, M. (*with* Hotes, S. A.) Monopoles, modular invariance and Chern-Simons field theory. **93i:81215**

Das, Ashok (*with* Khviengia, Zurab; Sezgin, Ergin) Self-duality in 3 + 3 dimensions and the KP equation. (English summary) **93k:58110**

Das, Sumit R. (*with* Dhar, Avinash; Mandal, Gautam; Wadia, Spenta R.) Gauge theory formulation of the $c = 1$ matrix model: symmetries and discrete states. (English summary) **93i:81217**

Davies, J. A. *see* **Mehta, Manish A.; et al., 93b:81148**

Dayi, Ömer F. Collective coordinates and constrained Hamiltonian systems. **93i:81275**

Depireux, Didier A. *see* **Bakas, Ioannis, 93b:58061**

De Sabbata, Venzo (*with* Sivaram, C.) Anyons and torsion. (English summary) **93m:81157**

Devchand, Ch. (*with* Ogievetskiĭ, V. I.) Super-self-duality as analyticity in harmonic superspace. (English summary) **93m:81051**

DeWitt, Bryce S. (*with* deLyra, Jorge L.; Foong, See Kit; Gallivan, Timothy; et al.) Lattice quantization of the $O(1,2)/O(2) \times Z_2$ sigma model in 4 dimensions. **93m:81112**

Dhar, Avinash *see* **Das, Sumit R.; et al., 93i:81217**

Dimock, J. Quantized electromagnetic field on a manifold. **93h:81094**

Dittmann, Jochen (*with* Rudolph, Gerd) On a connection governing parallel transport along 2×2 density matrices. (English summary) **93h:53024**

Donets, E. E. (*with* Gal'tsov, D. V.) Continuous family of Einstein-Yang-Mills wormholes. (English summary) **93k:83015**

Dubois-Violette, Michel (*with* Henneaux, Marc; Talon, Michel; Viallet, Claude-Michel) General solution of the consistency equation. (English summary) **93i:81276**

(Duff, M. J.) *see* **Supermembranes and physics in 2 + 1 dimensions, 93g:81003**

Dunn, K. A. (*with* Harriott, Tina A.; Williams, Jeffrey George) FLRW kinks. **93f:83010**

Dunne, Gerald (*with* Lerda, Alberto; Sciuto, Stefano; Trugenberger, Carlo A.) Exact multi-anyon wave functions in a magnetic field. **93c:81028**

Eichhorn, Jürgen Gauge theory on open manifolds of bounded geometry. (English summary) **93k:53028**

Eliezer, D. (*with* Semenoff, Gordon W.) Anyonization of lattice Chern-Simons theory. **93i:81174**

Esposito, Giampiero *see* **Buccella, Franco; et al., 93b:81183**

Euler, Norbert *see* **Steeb, Willi-Hans; et al., 93e:58092**

Ezawa, Zyun F. (*with* Iwazaki, Aiichi) Chern-Simons gauge theory for double-layer electron system. (English summary) **93h:81152**

Ferrario, Carlo (*with* Passerini, Arianna) Compatibility conditions for gauge transformations. **93e:58044**

Ferreira, Erasmo (*with* Ananias Neto, Jorge) Singularities in the solutions of the massive Skyrme model. **93b:81305**

Ferretti, G. (*with* Rajeev, S. G.) Current algebra in three dimensions. (English summary) **93e:81038**

Fine, Dana S. Quantum Yang-Mills on a Riemann surface. **93a:58034**

Foong, See Kit *see* **DeWitt, Bryce S.; et al., 93m:81112**

Freed, Daniel S. (*with* Gompf, Robert E.) Computer calculation of Witten's 3-manifold invariant. **93d:57027**

Fröhlich, Jürg (*with* Gabbiani, F.; Marchetti, P. A.) Braid statistics in three-dimensional local quantum theory. **93a:81112**

Frohman, Charles D. (*with* Nicas, Andrew) The Alexander polynomial via topological quantum field theory. **93a:57007**

Frolov, Sergei Anatol'evich BRST-quantization of gauge theories in Hamiltonian-like gauges. (Russian. English summary) **93h:81144**

Fubini, Sergio *see* **de Alfaro, Vittorio; et al., 93d:17002**

Fujii, Kanji (*with* Ogawa, Naohisa) Quantization of chiral solitons in collective-coordinate approach. (English summary) **93k:81131**

Furlan, Giuseppe *see* **de Alfaro, Vittorio; et al., 93d:17002**

Gabbiani, F. *see* **Fröhlich, Jürg; et al., 93a:81112**

Gallivan, Timothy *see* **DeWitt, Bryce S.; et al., 93m:81112**

Gal'tsov, D. V. (*with* Grats, Yu. V.; Zhukovskiĭ, V. Ch.) ★ Классические поля. (Russian) [Classical fields] **93g:70015**

— (*with* Volkov, M. S.) Instability of Einstein-Yang-Mills black holes. **93d:83044**

— *see also* **Donets, E. E., 93k:83015**

Gamboa, Jorge *see* **Cortés, J. L.; et al., 93e:81147**

Ge, Mo Lin *see* **Lü, Jing Fa; et al., 93e:17036**

Georgiev, Vladimir (*with* Schirmer, Pedro Paulo) The asymptotic behavior of Yang-Mills fields in the large. (English summary) **93j:58132**

Giddings, Steven B. Cohomological field theory from field-space cohomology. **93g:81190**

Giulini, Domenico (*with* Louko, Jorma) Gravitational theta-states in (2 + 1)-dimensional quantum cosmology. **93c:83050**

Goeree, Jacob *see* **de Boer, Jan, 93a:81166** *and* **93j:81086**

Gol'fand, Yu. A. On supergauge field theories. (Russian. Russian summary) **93g:81185**

Gompf, Robert E. *see* **Freed, Daniel S., 93d:57027**

Goswami, Gautam (*with* Bandyopadhyay, Pratul) Spin system, gauge theory, and renormalization group equation. (English summary) **93k:82026**

Govindarajan, T. R. *see* **Kaul, Romesh K., 93i:81233**

Graf, Martin *see* **Henning, Peter A.; et al., 93c:81056**

Grats, Yu. V. *see* **Gal'tsov, D. V.; et al., 93g:70015**

Griffin, Paul A. Transverse lattice construction of 2 + 1 Chern-Simons theory. **93b:81143**

Grignani, G. (*with* Nardelli, G.) Gravity and the Poincaré group. **93b:83053**

Guadagnini, E. (*with* Martellini, Maurizio; Mintchev, M.) Chern-Simons theory, link invariants and quasi-Hopf algebras. **93g:57007**

— The universal link polynomial. **93g:57008**

Guo, Ben Hong *see* **Liang, Jiu Qing; et al., 93a:81104**

Gürses, Metin Uniqueness of the solutions of sigma models in non-Riemannian background. (English summary) **93m:81109**

Gürsey, Feza *see* **Jiang, Wenxin, 93d:17027**

Habermann, Lutz A family of metrics on the moduli space of CP^2 instantons. (English summary) **93f:58025**

Hannabuss, K. C. *see* **Carey, A. L., 93j:22034**

Harriott, Tina A. *see* **Dunn, K. A.; et al., 93f:83010**

Hayashi, Masahito Classification of (2 + 1)-dimensional Chern-Simons supergravity theories. (English summary) **93k:81232**

Heil, Alions Anton (*with* Kersch, A.; Papadopoulos, N. A.; Reifenhäuser, B.; Scheck, F.) Structure of the space of reducible connections for Yang-Mills theories. **93a:58029**

Henneaux, Marc The antifield-BRST formalism for gauge theories. (*see* **93j:81003**)

— *see also* **Dubois-Violette, Michel; et al., 93i:81276**

Henning, Peter A. (*with* Graf, Martin; Matthäus, Frank) The geometry of the thermal quasi-particle transformation. **93c:81056**

Herb, Thomas The $O(N)$ nonlinear σ-model with prescribed boundary values in a belt. **93f:58044**

Heusler, Markus (*with* Straumann, Norbert) Scaling arguments for the existence of static, spherically symmetric solutions of self-gravitating systems. (English summary) **93g:83017**

Higuchi, Saburo *see* **Amano, Kaoru, 93h:58031**

Hotes, S. A. *see* **Crescimanno, M., 93i:81215**

Hou, Bo Yu (*with* Chao, Liu) Hamiltonian reductions of self-dual Yang-Mills theory. (English summary) **93k:58115**

Ikemori, Hitoshi Extended form method of antifield-BRST formalism for BF theories. (English summary) **93m:81148**

Imbimbo, Camillo Quantization ambiguities for Chern-Simons topological theories. **93a:81090**

Isaev, A. P. (*with* Popowicz, Ziemowit) q-trace for quantum groups and q-deformed Yang-Mills theory. **93i:81093**

Isham, Chris J. *see* **Ashtekar, Abhay, 93i:83042**

Ishikawa, Kenzo A mean field theory for the quantum Hall liquid. I. (English summary) **93h:82079**

Iso, Satoshi (*with* Karabali, Dimitra; Sakita, B.) One-dimensional fermions as two-dimensional droplets via Chern-Simons theory. (English summary) **93i:81309**

Ivanova, T. A. Euler equations in models of theoretical physics. (Russian. Russian summary) **93i:58032**

— Ward equations and self-dual connections in R^8. (Russian) **93i:53026**

Iwai, Toshihiro Berry connections as Yang-Mills connections on CP^2. **93g:53039**

Iwata, Koichiro *see* **Albeverio, Sergio; et al., (93g:81002)**

Iwazaki, Aiichi *see* **Ezawa, Zyun F., 93h:81152**

Jiang, Wenxin (*with* Gürsey, Feza) Extensions of some infinite algebras in space-time. **93d:17027**

Jing, Ji Liang *see* **Yu, Hong Wei; et al., 93g:83076**

Johansen, A. A. Nonrenormalizability of the topological charge as a result of the index theorem for the inverse gluon propagator. **93k:81149**

Kao, Hsien-Chung (*with* Lee, Kimyeong) Self-dual Chern-Simons Higgs systems with an $N = 3$ extended supersymmetry. (English summary) **93m:81144**

Kapetanakis, D. (*with* Zoupanos, G.) Coset-space-dimensional reduction of gauge theories. (English summary) **93m:83077**

Karabali, Dimitra *see* **Iso, Satoshi; et al., 93i:81309**

Kaul, Romesh K. (*with* Govindarajan, T. R.) Three-dimensional Chern-Simons theory as a theory of knots and links. (English summary) **93i:81233**

Kavalov, Al. R. (*with* Mkrtchyan, R. L.) The lattice topological gauge theory. Construction and observables. **93b:81194**

— (*with* Kavalov, An. R.; Mkrtchyan, R. L.) Construction of the field theory of (2 + 1)-dimensional universes filled by topological Yang-Mills fields. **93f:83042**

Kavalov, An. R. *see* **Kavalov, Al. R.; et al., 93f:83042**

Kersch, A. *see* **Heil, Alions Anton; et al., 93a:58029**

Khviengia, Zurab *see* **Das, Ashok; et al., 93k:58110**

Killingback, T. P. Quantization of SL(2, R) Chern-Simons theory. **93f:58090**

Kim, Sung Ku (*with* Soh, Kwang Sup; Yee, Jae Hyung) (1 + 1)-dimensional gravity through a dimensional reduction. (English summary) **93k:81209**

Kneipp, Marco A. C. Generalized abelian Chern-Simons theories and their connection to conformal field theories. (English summary) **93c:81211**

Kolsrud, Torbjörn *see* **Albeverio, Sergio; et al., (93g:81002)**

Kubo, Reijiro Gauss law commutators in anomalous gauge theories from a geometrical point of view. (English summary) **93k:81230**

Kumar, Alok² (*with* Maharana, Jnanadeva) Topological field theory from $N = 3$ superconformal theory. **93c:81212**

Künzle, H. P. (*with* Masood-ul-Alam, A. K. M.) Pure Yang-Mills fields on asymptotically flat curved R^3. (English summary) **93m:53027**

La, HoSeong Symmetries of the 4D self-dual Yang-Mills equation and reduction to the 2D KdV equation. **93a:58179**

Labastida, J. M. F. *see* **Alvarez-Gaumé, Luis; et al., 93a:58030**

Lahiri, Amitabha An alternative scenario for nonabelian quantum hair. (English summary) **93m:83055**

Lavrov, P. M. *see* **Batalin, I. A.; et al., 93c:81245**

Leblanc, Martin (*with* Lozano, Gustavo; Min, Hyunsoo) Extended superconformal Galilean symmetry in Chern-Simons matter systems. (English summary) **93k:81234**

— (*with* Thomaz, M. T.) Quantized and thermalized supersymmetric Maxwell-Chern-Simons theory. **93c:81239**

Lee, Hyuk-Jae (*with* Park, Jae-Suk) Complex geometrical interpretation of BRST algebra in topological Yang-Mills theory. **93b:81288**

Lee, Kimyeong *see* **Kao, Hsien-Chung, 93m:81144**

Leibbrandt, G. (*with* Martín, C. P.) Perturbative Chern-Simons theory in the light-cone gauge. The one-loop vacuum polarization tensor in a gauge-invariant formalism. **93c:81140**

Lerda, Alberto *see* **Dunne, Gerald; et al., 93c:81028**

Lerner, David E. The linear system for self-dual gauge fields in a spacetime of signature 0. **93d:81127**

Leznov, A. N. *see* **Aliev, B. N., 93i:58065**

Li, Wen Zhu Lattice approach of the antiferromagnetic Heisenberg model in 2 + 1 dimensions and the Hopf Chern-Simons terms. **93i:81178**

Li, Zi Ping Gauge symmetries and their generators. (Chinese. English summary) **93a:58063**

Liang, Jiu Qing (*with* Guo, Ben Hong; Morandi, G.) Extended Feynman formula for harmonic oscillator and its application. **93a:81104**

Link, Robert Phase holonomy of the vacuum in three-dimensional gauge theories. (English

summary) **93i:81050**

Liu, Chao *see* **Lü, Jing Fa; et al., 93e:17036**

Lledó, M. (*with* Martín, I.; Restuccia, A.; Mendoza, A.) Yang-Mills instantons over Riemann surfaces. **93f:58039**

Lõhmus, Jaak (*with* Sorgsepp, Leo) Aspect of self-duality in the hypercomplex formalism. (Russian summary) **93a:53063**

Loll, R. Canonical and BRST-quantization of constrained systems. (English summary) **93m:81149**

López, M. C. (*with* Noriega, R. J.; Schifini, C. G.) Equivalence and s-equivalence of vector-tensor Lagrangians. **93e:70007**

Louko, Jorma *see* **Giulini, Domenico, 93c:83050**

Lozano, Gustavo *see* **Leblanc, Martin; et al., 93k:81234**

Lu, H. (*with* Pope, C. N.; Shen, Xiang) Topological w_∞ and W_N gravities from flat SL(∞, **R**) connections. **93b:81258**

Lü, Jing Fa (*with* Ge, Mo Lin; Liu, Chao) On the group aspects of Riemann-Hilbert transformations. **93e:17036**

deLyra, Jorge L. *see* **DeWitt, Bryce S.; et al., 93m:81112**

Maggiore, N. (*with* Sorella, Silvio P.) Perturbation theory for antisymmetric tensor fields in four dimensions. (English summary) **93k:81150**

Maharana, Jnanadeva (*with* Schwarz, John H.) Noncompact symmetries in string theory. (English summary) **93k:81181**

— *see also* **Kumar, Alok[2], 93c:81212**

Mandal, Gautam *see* **Das, Sumit R.; et al., 93i:81217**

Marathe, Kishore B. (*with* Martucci, G.) ★ The mathematical foundations of gauge theories. **93k:58002**

Marchetti, P. A. *see* **Fröhlich, Jürg; et al., 93a:81112**

Margolin, A. È. (*with* Strazhev, V. I.) Yang-Mills field quantization with noncompact gauge group. (English summary) **93j:81104**

Martellini, Maurizio *see* **Guadagnini, E.; et al., 93g:57007**

Martín, C. P. *see* **Leibbrandt, G., 93c:81140**

Martín, I. *see* **Lledó, M.; et al., 93f:58039**

Martucci, G. *see* **Marathe, Kishore B., 93k:58002**

Mason, Lionel (*with* Sparling, George A. J.) Twistor correspondences for the soliton hierarchies. **93d:58075**

— *see also* **Chakravarty, Sarbarish; et al., 93a:58173**

Masood-ul-Alam, A. K. M. *see* **Künzle, H. P., 93m:53027**

Matthäus, Frank *see* **Henning, Peter A.; et al., 93c:81056**

Mayer, Meinhard E. Principal bundles versus Lie groupoids in gauge theory. **93c:58233**

McArthur, I. N. WZW superconformal blocks from three dimensions. **93a:81179**

McKeon, D. G. C. Yang-Mills theory and nonirreducible representations of the Lorentz group. (English and French summaries) **93h:81040**

— The Freedman-Townsend model in two and three dimensions. **93b:81147**

McLeod, J. Bryce *see* **Smoller, Joel A.; et al., 93a:58043** *and* **93a:58044**

Mehta, Manish A. (*with* Davies, J. A.; Aitchison, I. J. R.) Stable soliton solution of the CP^1 model with a Chern-Simons term. **93b:81148**

Mendoza, A. *see* **Lledó, M.; et al., 93f:58039**

Miele, Gennaro *see* **Buccella, Franco; et al., 93b:81183**

Min, Hyunsoo *see* **Leblanc, Martin; et al., 93k:81234**

Mintchev, M. *see* **Guadagnini, E.; et al., 93g:57007**

Miyake, Shogo (*with* Shizuya, K.) Consistency and current algebras of a nonabelian chiral gauge theory in four dimensions. **93b:81276**

Mkrtchyan, R. L. *see* **Kavalov, Al. R., 93b:81194** *and* **93f:83042**

Morandi, G. *see* **Liang, Jiu Qing; et al., 93a:81104**

Moss, Ian (*with* Wray, Andrew) Black holes and sphalerons. (English summary) **93f:83060**

Mulser, P. *see* **Steeb, Willi-Hans; et al., 93e:58092**

Nakamura, Atsushi[1] Stochastic quantization of nonabelian antisymmetric tensor fields. **93a:81096**

Nardelli, G. *see* **Grignani, G., 93b:83053**

Newman, Ezra T. *see* **Chakravarty, Sarbarish; et al., 93a:58173**

Nicas, Andrew *see* **Frohman, Charles D., 93a:57007**

Nill, Florian A constructive quantum field-theoretic approach to Chern-Simons theory. (English summary) **93m:81099**

Noriega, R. J. *see* **López, M. C.; et al., 93e:70007**

Nurowski, Paweł Some null solutions of the Yang-Mills equations and Cauchy-Riemann structures. **93c:83030**

Ogawa, Naohisa *see* **Fujii, Kanji, 93k:81131**

Ogievetskii, V. I. *see* **Devchand, Ch., 93m:81051**

Oh, Phillial Symplectic structure of isospin particles in Yang-Mills fields. **93e:81060**

O'Raifeartaigh, Lochlainn Some hidden aspects of hidden symmetry. (English summary) **93g:81042**

Ordóñez, C. R. (*with* Pons, J. M.) Equivalence of reduced, Polyakov, Faddeev-Popov, and Faddeev path-integral quantization of gauge theories. **93d:81099**

Ottewill, Adrian C. *see* **Allen, Bruce, 93i:81152**

Papadopoulos, N. A. *see* **Heil, Alions Anton; et al., 93a:58029**

Park, D. H. *see* **Cho, Y. M., 93g:83015**

Park, Jae-Suk *see* **Lee, Hyuk-Jae, 93b:81288**

Park, Q-Han 4-D self-dual instantons from 2-D sigma model. (English summary) **93i:81248**

— 2D sigma model approach to 4D instantons. **93a:81182**

— *see also* **Cho, Y. M.; et al., 93i:83082**

Parker, Thomas H. A Morse theory for equivariant Yang-Mills. **93e:58031**

— Nonminimal Yang-Mills fields and dynamics. **93b:58037**

Passerini, Arianna *see* **Ferrario, Carlo, 93e:58044**

Peldán, Peter Ashtekar's variables for arbitrary gauge group. (English summary) **93g:83012**

Phillips, Anthony V. (*with* Stone, D. A.) Chern-Simons on a lattice. **93e:81085**

Piguet, Olivier (*with* Sorella, Silvio P.) On the finiteness of the BRS modulo-d cocycles. (English summary) **93j:81071**

Pons, J. M. *see* **Ordóñez, C. R., 93d:81099**

Pope, C. N. *see* **Lu, H.; et al., 93b:81258** *and* **Supermembranes and physics in 2 + 1 dimensions, 93g:81003**

Popov, A. D. Solutions of the Yang-Mills equation in $d = 4n$ dimensions for an arbitrary gauge group. (Russian) **93c:58050**

Popowicz, Ziemowit *see* **Isaev, A. P., 93i:81093**

Preskill, John Quantum hair. **93f:83051**

Rajeev, S. G. *see* **Ferretti, G., 93e:81038**

Rakowski, Mark *see* **Birmingham, Danny; et al., 93c:81003**

Ramallo, A. V. *see* **Alvarez-Gaumé, Luis; et al., 93a:58030**

Rapoport Campodónico, Diego Lucio Stochastic processes in conformal Riemann-Cartan-Weyl gravitation. **93d:58188**

Reifenhäuser, B. *see* **Heil, Alions Anton; et al., 93a:58029**

Restuccia, A. *see* **Lledó, M.; et al., 93f:58039**

Roy Chowdhury, A. (*with* Sen, D. C.) The Bäcklund transformation, Virasoro algebra, and symmetries related to the cylindrically symmetric self-dual Yang-Mills equation. **93f:58254**

Rudolph, Gerd *see* **Dittmann, Jochen, 93h:53024**

Saint-Aubin, Yvan An unusual realization of a symmetry group acting on a nonlinear differential equation. **93c:58059**

Sakita, B. *see* **Iso, Satoshi; et al., 93i:81309**

Saniga, Metod On two different types of sunspots—"vortices" and "sources"—within a U(1)-symmetric Yang-Mills-Higgs system. (English summary) **93e:85001**

Sardanashvili, G. A. On the geometry of spontaneous symmetry breaking. **93d:53093**

Scheck, F. *see* **Heil, Alions Anton; et al., 93a:58029**

Schifini, C. G. *see* **López, M. C.; et al., 93e:70007**

Schirmer, Pedro Paulo *see* **Georgiev, Vladimir, 93j:58132**

Schwarz, John H. *see* **Maharana, Jnanadeva, 93k:81181**

Sciuto, Stefano *see* **Dunne, Gerald; et al., 93c:81028**

Semenoff, Gordon W. Anyons and Chern-Simons theory: a review. **93c:81100**

— *see also* **Eliezer, D., 93i:81174**

Sen, D. C. *see* **Roy Chowdhury, A., 93f:58254**

Sengupta, Ambar The Yang-Mills measure for S^2. (English summary) **93k:58037**

Sezgin, Ergin *see* **Das, Ashok; et al., 93k:58110** *and* **Supermembranes and physics in 2 + 1 dimensions, 93g:81003**

Shamir, Yigal Compensating fields and anomalies in supergravity. (English summary) **93k:81235**

Shen, Xiang *see* **Lu, H.; et al., 93b:81258**

Shizuya, K. *see* **Miyake, Shogo, 93b:81276**

Sibner, L. M. (*with* Sibner, R. J.) Classification of singular Sobolev connections by their holonomy. **93a:58042**

Sibner, R. J. *see* **Sibner, L. M., 93a:58042**

Siegel, Warren $N = 2$ (4) string theory is self-dual $N = 4$ Yang-Mills theory. (English summary) **93g:81134**

— $N = 4$ string is the same as the $N = 2$ string. (English summary) **93e:81098**

Sivaram, C. *see* **De Sabbata, Venzo, 93m:81157**

Smoller, Joel A. (*with* Wasserman, Arthur G.; Yau, Shing-Tung; McLeod, J. Bryce) Smooth static solutions of the Einstein/Yang-Mills equations. **93a:58044**

— (*with* Wasserman, Arthur G.; Yau, Shing-Tung; McLeod, J. Bryce) Smooth static solutions of the Einstein-Yang/Mills equations. **93a:58043**

Soh, Kwang Sup *see* **Cho, Y. M.; et al., 93i:83082** *and* **Kim, Sung Ku; et al., 93k:81209**

Sonnenschein, Jacob Moduli spaces and topological quantum field theories. **93f:58027**

Sorella, Silvio P. *see* **Piguet, Olivier, 93j:81071** *and* **Maggiore, N., 93k:81150**

Sorgsepp, Leo *see* **Lõhmus, Jaak, 93a:53063**

Sparling, George A. J. *see* **Mason, Lionel, 93d:58075**

Spera, Mauro Yang-Mills theory in noncommutative differential geometry. **93g:46069**

Spruck, Joel (*with* Yang, Yi Song) On multivortices in the electroweak theory. I. Existence of periodic solutions. **93g:81203**

— (*with* Yang, Yi Song) On multivortices in the electroweak theory. II. Existence of Bogomol'nyi solutions in $\mathbf{R}^2$. **93g:81204**

— (*with* Yang, Yi Song) The existence of nontopological solitons in the self-dual Chern-Simons theory. (English summary) **93i:58034**

Sreedhar, V. V. *see* **Chatterjee, Ashoke K., 93b:81286**

Steeb, Willi-Hans (*with* Euler, Norbert; Mulser, P.) A note on integrability and chaos of reduced self-dual Yang-Mills equations and Yang-Mills equations. **93e:58092**

Stone, D. A. *see* **Phillips, Anthony V., 93e:81085**

Strachan, I. A. B. Some integrable hierarchies in $(2 + 1)$ dimensions and their twistor description. (English summary) **93m:58055**

Straumann, Norbert *see* **Heusler, Markus, 93g:83017**

Strazhev, V. I. *see* **Margolin, A. È., 93j:81104**

Sudarsky, Daniel (*with* Wald, Robert M.) Extrema of mass, stationarity, and staticity, and solutions to the Einstein-Yang-Mills equations. (English summary) **93k:83008**

Tafel, Jacek 2-dimensional reductions of the self-dual Yang-Mills equations. (English summary) **93i:58079**

Takasaki, Kanehisa Hidden symmetries of integrable systems in Yang-Mills theory and Kähler geometry. **93b:58035**

Takhtajan, L. A. *see* **Chakravarty, Sarbarish; et al., 93i:58069**

Talon, Michel *see* **Dubois-Violette, Michel; et al., 93i:81276**

Thomaz, M. T. *see* **Leblanc, Martin, 93c:81239**

Thompson, George *see* **Birmingham, Danny; et al., 93c:81003** *and* **Blau, Matthias, 93k:81193**

Trugenberger, Carlo A. *see* **Dunne, Gerald; et al., 93c:81028**

Tseytlin, A. A. A class of finite two-dimensional sigma models and string vacua. (English summary) **93e:81129**

Tyutin, I. V. *see* **Batalin, I. A.; et al., 93c:81245**

Tze, Chia Hsiung Linking the Gauss-Bonnet-Chern theorem, essential Hopf maps and membrane solitons with exotic spin and statistics. **93g:55017**

Uehara, Shozo A note on gravitational and SU(2) instantons with Ashtekar variables. **93a:83009**

Uhlenbeck, Karen Applications of nonlinear analysis in topology. **93f:57043**

Urrutia, Luis F. (*with* Vergara, José David) Anomalies in the Fujikawa method using parameter-dependent regulators. **93b:81279**

Valtancoli, Paolo *see* **Cappelli, Andrea; et al., 93b:83050**

Varchenko, A. N. *see* **Blok, B., 93d:81149**

Velázquez, L. *see* **Cortés, J. L.; et al., 93e:81147**
Verbaarschot, J. J. M. Erratum: "Streamlines and conformal invariance in Yang-Mills theories" [Nuclear Phys. B 362 (1991), no. 1-2, 33–53; MR 92f:81220]. **93k:81244**
Vergara, José David *see* **Urrutia, Luis F., 93b:81279**
Viallet, Claude-Michel *see* **Dubois-Violette, Michel; et al., 93i:81276**
Volkov, M. S. *see* **Gal'tsov, D. V., 93d:83044**
Wadia, Spenta R. *see* **Das, Sumit R.; et al., 93i:81217**
Wald, Robert M. *see* **Sudarsky, Daniel, 93k:83008**
Wali, Kameshwar C. *see* **Balakrishna, B. S., 93i:81298**
Wang, Hong Yu[1] The existence of nonminimal solutions to the Yang-Mills equation with group SU(2) on $S^2 \times S^2$ and $S^1 \times S^3$. **93b:58036**
Wang, Yong Jiu *see* **Yu, Hong Wei; et al., 93g:83076**
Wasserman, Arthur G. *see* **Smoller, Joel A.; et al., 93a:58043** *and* **93a:58044**
Wiese, U.-J. Monopoles, gluons and the use of C-periodic lattice gauge fields. **93d:81129**
Wightman, Arthur S. The present state of quantum field theory. **93c:81106**
Williams, Jeffrey George *see* **Dunn, K. A.; et al., 93f:83010**
Witten, Edward On quantum gauge theories in two dimensions. **93i:58164**
— Searching for integrability. **93i:81082**
— Two-dimensional gauge theories revisited. (English summary) **93m:58017**
— (*with* Zwiebach, Barton) Algebraic structures and differential geometry in two-dimensional string theory. **93e:81139**
— The N matrix model and gauged WZW models. **93f:81145**
— *see also* **Bar-Natan, Dror, 93c:81244**
Wray, Andrew *see* **Moss, Ian, 93f:83060**
Yang, Yi Song *see* **Spruck, Joel, 93g:81203; 93g:81204** *and* **93i:58034**
Yau, Shing-Tung *see* **Smoller, Joel A.; et al., 93a:58043** *and* **93a:58044**
Yee, Jae Hyung *see* **Kim, Sung Ku; et al., 93k:81209**
Yoon, Jaihan *see* **Cho, Y. M.; et al., 93i:83082**
Yu, Hong Wei (*with* Jing, Ji Liang; Wang, Yong Jiu) The Newman-Penrose formalism of the coupled SU(5) Einstein-Yang-Mills-Higgs field equations. (English summary) **93g:83076**
Yu, Yang Zheng The Gauss-Bonnet current and topological excitations. (Chinese. English summary) **93b:53057**
Zhang, Yao Zhong N-extended super-Liouville theory from OSp(N|2) WZNW model. **93d:81172**
Zhu, Chuan Jie $2+1$ topological term, anyons and their possible application in high T_c superconductivity. (*see* **93g:81003**)
Zhukovskiĭ, V. Ch. *see* **Gal'tsov, D. V.; et al., 93g:70015**
Zoh, S. W. *see* **Cho, Y. M., 93g:81035** *and* **93j:81029**
Zoupanos, G. *see* **Kapetanakis, D., 93m:83077**
Zwanziger, Daniel Critical limit of lattice gauge theory. **93a:81146**
Zwiebach, Barton *see* **Witten, Edward, 93e:81139**

Items listed otherwise than by author

Conference:
Supermembranes and Physics in $2+1$ Dimensions ★ Supermembranes and physics in $2+1$ dimensions. **93g:81003**
Einstein metrics and Yang-Mills connections ★ Einstein keiryō to Yang-Mills setsuzoku. (Japanese) [Einstein metrics and Yang-Mills connections] **93f:53002**
Supermembranes and physics in $2+1$ dimensions ★ Supermembranes and physics in $2+1$ dimensions. **93g:81003**
Symposium:
Einstein Metrics and Yang-Mills Connections ★ Einstein keiryō to Yang-Mills setsuzoku. (Japanese) [Einstein metrics and Yang-Mills connections] **93f:53002**
Trieste ★ Supermembranes and physics in $2+1$ dimensions. **93g:81003**

81T15 Perturbative methods of renormalization

Aoyama, Hideaki Borel-summable perturbation series for theories with degenerate minima. **93b:81170**
Balasin, H. (*with* Stierle, M.) The action principle revisited. **93b:81171**
Bombelli, Luca (*with* Gunzig, Edgard; Nesteruk, A. V.) Renormalization, the trace anomaly and spacetime anisotropy. (English summary) **93g:81102**
Bordag, M. (*with* Robaschik, D.; Wieczorek, Eberhard) Problems with the ζ-function method. (English summary) **93i:81147**
Braden, H. W. (*with* Corrigan, E.; Dorey, Patrick E.; Sasaki, Ryu) Affine Toda field theory: S-matrix vs. perturbation. **93i:81148**
Corrigan, E. *see* **Braden, H. W.; et al., 93i:81148**
Demarco, G. L. (*with* Fosco, C.; Trinchero, R. C.) Nonlinear σ model as a local polynomial field theory. **93a:81131**
Dorey, Patrick E. *see* **Braden, H. W.; et al., 93i:81148**
Dunne, Gerald (*with* Rius, Nuria) A comment on the relationship between differential and dimensional renormalization. (English summary) **93j:81069**
Elizalde, E. (*with* Romeo, A.) Epstein-function analysis of the Casimir effect at finite temperature for massive fields. (English summary) **93i:81149**
Ferretti, G. (*with* Rajeev, S. G.) $\mathbf{CP}^{N-1}$ model with a Chern-Simons term. **93c:81137**
Fosco, C. *see* **Demarco, G. L.; et al., 93a:81131**
Freedman, Daniel Z. (*with* Johnson, Kenneth A.; Latorre, José Ignacio) Differential regularization and renormalization: a new method of calculation in quantum field theory. **93b:81172**
Fukuda, Reijiro *see* **Komachiya, M.**
Gallavotti, Giovanni The beta-function method for resummations in field theory. (*see* **93g:81074**)
Gunzig, Edgard *see* **Bombelli, Luca; et al., 93g:81102**
Haagensen, Peter E. Differential renormalization of the Wess-Zumino model. **93c:81138**
Hong Tuan, R. A rigorous derivation of the Gaussian representation for propagators in scalar field theories. (English summary) **93d:81121**
Johansen, A. A. Nonrenormalizability of the topological charge as a result of the index theorem for the inverse gluon propagator. **93k:81149**
Johnson, Kenneth A. *see* **Freedman, Daniel Z.; et al., 93b:81172**
Keller, Georg (*with* Kopper, C.; Salmhofer, M.) Perturbative renormalization and effective Lagrangians in Φ^4_4. **93e:81081**
Komachiya, M. (*with* Fukuda, Reijiro) On-shell expansion and different vacua.
Kopper, C. *see* **Keller, Georg; et al., 93e:81081**
Krasnikov, N. V. (*with* Kyatkin, A. B.) Three-dimensional four-fermion (vector) ⊗ (vector) model is renormalizable and ultraviolet finite. (*see* **93b:83004**)
Kucheryavii, V. I. The Bogolyubov-Parasyuk R-operation in quantum field theory (a survey). (Ukrainian. English, Russian and Ukrainian summaries) **93g:81103**
— Symmetries and anomalies of quantum field theory in the Bogolyubov-Parasyuk renormalization scheme. (Ukrainian. Russian summary) **93c:81139**
— Ward identities of triangular spinor diagrams in the Bogolyubov-Parasyuk renormalization scheme and in dimensional regularization. (Ukrainian. English, Russian and Ukrainian summaries) **93h:81093**
Kyatkin, A. B. *see* **Krasnikov, N. V., (93b:83004)**
Latorre, José Ignacio *see* **Freedman, Daniel Z.; et al., 93b:81172**
Leibbrandt, G. (*with* Martín, C. P.) Perturbative Chern-Simons theory in the light-cone gauge. The one-loop vacuum polarization tensor in a gauge-invariant formalism. **93c:81140**
Leutwyler, H. (*with* Shifman, M.) Perturbation theory in the Wess-Zumino-Novikov-Witten model. **93g:81104**
Luckock, H. C. (*with* McKane, A. J.) A nondiagrammatic method for perturbative calculations in field theory. **93b:81173**
Maggiore, N. (*with* Sorella, Silvio P.) Finiteness of the topological models in the Landau gauge. **93c:81141**
— (*with* Sorella, Silvio P.) Perturbation theory for antisymmetric tensor fields in four dimensions. (English summary) **93k:81150**
Martín, C. P. *see* **Leibbrandt, G., 93c:81140**
McKane, A. J. *see* **Luckock, H. C., 93b:81173**
McKeon, D. G. C. (*with* Sherry, T. N.) Operator regularization and the phase of one-loop determinants. (English summary) **93i:81150**
Nesteruk, A. V. *see* **Bombelli, Luca; et al., 93g:81102**
Parobii, I. S. Freedom of the choice of parameters in scheme-invariant perturbation theory. (Russian. English, Russian and Ukrainian summaries) **93g:81105**
Polivanov, M. K. *see* **Zav'yalov, O. I., 93k:81151**
Rajeev, S. G. *see* **Ferretti, G., 93c:81137**
Ricotta, Regina Maria Negative dimensions in quantum field theory. (English summary) **93e:81082**
Rius, Nuria *see* **Dunne, Gerald, 93j:81069**
Robaschik, D. *see* **Bordag, M.; et al., 93i:81147**
Romeo, A. *see* **Elizalde, E., 93i:81149**
Rosen, Lon Renormalization theory and the tree expansion. (*see* **93g:81074**)
Salmhofer, M. *see* **Keller, Georg; et al., 93e:81081**
Sasaki, Ryu *see* **Braden, H. W.; et al., 93i:81148**
Sherry, T. N. *see* **McKeon, D. G. C., 93i:81150**
Shifman, M. *see* **Leutwyler, H., 93g:81104**
Sorella, Silvio P. *see* **Maggiore, N., 93c:81141** *and* **93k:81150**
Stierle, M. *see* **Balasin, H., 93b:81171**
Stora, Raymond On Lagrangian two-dimensional conformal models. **93i:81151**
Taqqu, Murad S. *see* **Terrin, Norma, 93c:81142**
Terrin, Norma (*with* Taqqu, Murad S.) Power counting theorem in Euclidean space. **93c:81142**
Trinchero, R. C. *see* **Demarco, G. L.; et al., 93a:81131**
Wieczorek, Eberhard *see* **Bordag, M.; et al., 93i:81147**
Zav'yalov, O. I. (*with* Polivanov, M. K.) The Bogolyubov-Parasyuk R-operation and operator expansions in massless theories. (Russian. Russian and Ukrainian summaries) **93k:81151**

Items with secondary classifications in 81T15

Alfaro, Jorge (*with* Damgaard, P. H.) BRST symmetry of field redefinitions. (English summary) **93k:81236**
Avdeev, L. V. (*with* Grigoryev, G. V.; Kazakov, D. I.) Renormalizations in abelian Chern-Simons field theories with matter. (English summary) **93g:81084**
Bender, Carl M. New approach to the solution of nonlinear problems. (English summary) **93m:81037**
Blasi, Alberto (*with* Maggiore, N.) Infrared and ultraviolet finiteness of topological BF theory in two dimensions. (English summary) **93m:81145**
Campostrini, Massimo (*with* Rossi, Paolo[1]) $\mathbf{CP}^{N-1}$ models in the $1/N$ expansion. **93b:81179**
Cognola, Guido (*with* Vanzo, Luciano) Thermodynamic potential for scalar fields in space-time with hyperbolic spatial part. (English summary) **93k:81154**
Cummins, C. J. *see* **Fulling, Stephen A.; et al., 93j:53084**
Damgaard, P. H. *see* **Alfaro, Jorge, 93k:81236**
Folacci, A. Two-point functions and stress-energy tensors of p-forms in de Sitter and anti-de Sitter spaces. **93i:81164a**
— Erratum: "Two-point functions and stress-energy tensors of p-forms in de Sitter and anti-de Sitter spaces". **93i:81164b**
Friedman, John L. (*with* Papastamatiou, Nicolas J.; Simon, Jonathan Z.) Unitarity of interacting fields in curved spacetime. (English summary) **93g:81109**
Fulling, Stephen A. (*with* King, Ronald Curtis; Wybourne, B. G.; Cummins, C. J.) Normal forms for tensor polynomials. I. The Riemann tensor. **93j:53084**
Giavarini, G. (*with* Martín, C. P.; Ruiz Ruiz, F.) The shift of the Chern-Simons parameter beyond one loop. (English summary) (*see* **93m:81008**)
Green, Michael B. Temperature dependence of string theory in the presence of world-sheet boundaries. **93c:81171**
Grigoryev, G. V. *see* **Avdeev, L. V.; et al., 93g:81084**
Jack, I. (*with* Jones, D. R. T.; West, P. C.) Not the no-renormalisation theorem? **93a:81193**
Jones, D. R. T. *see* **Jack, I.; et al., 93a:81193**
Kantowski, R. (*with* Marzban, Caren) One-loop Vilkovisky-DeWitt counterterms for two-dimensional gravity plus scalar field theory. (English summary) **93k:81208**
Kapustin, A. N. (*with* Pronin, P. I.) Chern-Simons theory in axial gauge. **93a:81129**

Kazakov, D. I. *see* **Avdeev, L. V.; et al., 93g:81084**
King, Ronald Curtis *see* **Fulling, Stephen A.; et al., 93j:53084**
Landshoff, P. V. (*with* Rebhan, A.) Covariant gauges at finite temperature. (English summary) **93f:81085**
Maggiore, N. *see* **Blasi, Alberto, 93m:81145**
Martín, C. P. *see* **Giavarini, G.; et al., (93m:81008)**
Marzban, Caren *see* **Kantowski, R., 93k:81208**
McLachlan, A. Infrared divergences of toroidal effective potentials. **93b:81191**
Morozov, A. Yu. Pair correlator in the Itzykson-Zuber integral. (English summary) **93h:58021**
Ne'eman, Yuval Yang-Mills-like renormalizability of gauge-affine gravity and indirect applications. **93c:81151**
Palanques-Mestre, A. Distribution products and divergent integrals in quantum field theory. (Spanish. English summary) **93a:46075**
Papastamatiou, Nicolas J. *see* **Friedman, John L.; et al., 93g:81109**
Pronin, P. I. Renormalization of field theories in Riemann-Cartan space-time. (*see* **93d:83003**)
— *see also* **Kapustin, A. N., 93a:81129**
Rebhan, A. *see* **Landshoff, P. V., 93f:81085**
Rivasseau, Vincent ★ From perturbative to constructive renormalization. **93i:81004**
Rossi, Paolo[1] *see* **Campostrini, Massimo, 93b:81179**
Ruiz Ruiz, F. *see* **Giavarini, G.; et al., (93m:81008)**
Saitoh, Yoshihiro (*with* Shimada, Tokuzo) On the vanishing couplings in $\hat{A}\hat{D}\hat{E}$ affine Toda field theories. (English summary) **93g:81172**
Saller, H. Indefinite metric and asymptotic probabilities. **93d:81062**
Shimada, Tokuzo *see* **Saitoh, Yoshihiro, 93g:81172**
Simon, Jonathan Z. *see* **Friedman, John L.; et al., 93g:81109**
Vanzo, Luciano *see* **Cognola, Guido, 93k:81154**
West, P. C. A comment on the nonrenormalization theorem in supersymmetric theories. **93a:81192**
— *see also* **Jack, I.; et al., 93a:81193**
Wybourne, B. G. *see* **Fulling, Stephen A.; et al., 93j:53084**

81T16 Nonperturbative methods of renormalization

Allen, Bruce (*with* Ottewill, Adrian C.) Gauge independence in Hadamard renormalization. **93i:81152**
Baĭkov, P. A. (*with* Il'in, V. A.) Status of γ^5 in dimensional regularization. (Russian. English summary) **93b:81174**
Bender, Carl M. (*with* Boettcher, Stefan; Lipatov, L. N.) Almost zero-dimensional quantum field theories. (English summary) **93k:81152**
Boettcher, Stefan *see* **Bender, Carl M.; et al., 93k:81152**
Boschi Filho, H. (*with* Natividade, C. P.; Farina de Souza, Carlos) Heat-kernel expansion at finite temperature. **93a:81132**
Campostrini, Massimo (*with* Rossi, Paolo[1]) Dimensional regularization in the $1/N$ expansion. **93a:81133**
Cognola, Guido (*with* Vanzo, Luciano; Zerbini, Sergio) Regularization dependence of vacuum energy in arbitrarily shaped cavities. **93c:81143**
Cohen, Eyal (*with* Kluberg-Stern, H.; Navelet, H.) Regulated propagator on the flat torus and its Weyl properties. (English summary) **93j:81070**
Farina de Souza, Carlos *see* **Boschi Filho, H.; et al., 93a:81132**
Ibañez-Meier, R. (*with* Polley, L.; Ritschel, U.) Variational principle for effective action and prospects of nonlinear optimization. **93c:81144**
Il'in, V. A. *see* **Baĭkov, P. A., 93b:81174**
Kluberg-Stern, H. *see* **Cohen, Eyal; et al., 93j:81070**
Leal, Lorenzo Quantum kinematics of the Chern-Simons field with matter in the loop representation. (English summary) **93i:81153**
Lipatov, L. N. *see* **Bender, Carl M.; et al., 93k:81152**
Mukku, C. Resumming heat kernels. **93b:81175**
Natividade, C. P. *see* **Boschi Filho, H.; et al., 93a:81132**
Navelet, H. *see* **Cohen, Eyal; et al., 93j:81070**
Novotný, J. Supersymmetry and the four-dimensional counterpart of dimensional regularization. **93a:81134**
— One-loop topological mass in QED_{2+1} within a broad class of gauge invariant regularization schemes. (English summary)
Ottewill, Adrian C. *see* **Allen, Bruce, 93i:81152**
Polley, L. *see* **Ibañez-Meier, R.; et al., 93c:81144**
Ritschel, U. *see* **Ibañez-Meier, R.; et al., 93c:81144**
Rossi, Paolo[1] *see* **Campostrini, Massimo, 93a:81133**
Shiekh, A. Y. Finite massless quantum field theory. (English and French summaries) **93i:81154**
Svaiter, B. F. *see* **Svaiter, N. F., 93b:81176**
Svaiter, N. F. (*with* Svaiter, B. F.) The analytic regularization zeta function method and the cut-off method in the Casimir effect. **93b:81176**
Vanzo, Luciano *see* **Cognola, Guido; et al., 93c:81143**
Zerbini, Sergio *see* **Cognola, Guido; et al., 93c:81143**

Items with secondary classifications in 81T16

Actor, Alfred ζ- and η-function resummation of infinite series: general case. **93a:11073**
Ahmed, M. A. Curved-spacetime graviton vertex operator in string theory. (English summary) **93j:81076**
Bandelloni, Giuseppe Renormalization of gauge coset models. **93g:81075**
Barraza, O. (*with* Falomir, H.; Gamboa Saraví, R. E.; Santangelo, E. M.) p determinants and boundary values. **93d:58183**
Bytsenko, A. A. (*with* Vanzo, Luciano; Zerbini, Sergio) Zeta-function regularization approach to finite temperature effects in Kaluza-Klein space-times. (English summary) **93i:81160**
— (*with* Vanzo, Luciano; Zerbini, Sergio) Massless scalar Casimir effect in a class of hyperbolic Kaluza-Klein space-times. **93i:81161**
Castagnino, Mario A. (*with* Domenech, G.; Frolov, V. P.; Noriega, R. J.; Schifini, G.) Concomitants theory and renormalization in even dimensions. **93b:83030**
Domenech, G. *see* **Castagnino, Mario A.; et al., 93b:83030**
Falomir, H. *see* **Barraza, O.; et al., 93d:58183**
Frolov, V. P. *see* **Castagnino, Mario A.; et al., 93b:83030**
Gamboa Saraví, R. E. *see* **Barraza, O.; et al., 93d:58183**
Ichinose, Shoichi BRS symmetry on background-field, Kallosh theorem and renormalization. (English summary) **93m:81147**
Miramontes, J. Luis (*with* Sánchez Guillén, Joaquín) Instantons in the quantum framework of 2D gravity. (English summary) **93f:81141**
Noriega, R. J. *see* **Castagnino, Mario A.; et al., 93b:83030**
Periwal, Vipul Nonanalyticity in the large N renormalization group. (English summary) **93i:81157**
Sánchez Guillén, Joaquín *see* **Miramontes, J. Luis, 93f:81141**
Santangelo, E. M. *see* **Barraza, O.; et al., 93d:58183**
Schifini, G. *see* **Castagnino, Mario A.; et al., 93b:83030**
Vanzo, Luciano *see* **Bytsenko, A. A.; et al., 93i:81160** *and* **93i:81161**
Zerbini, Sergio *see* **Bytsenko, A. A.; et al., 93i:81160** *and* **93i:81161**

81T17 Renormalization group methods

Alfaro, Jorge (*with* Damgaard, P. H.) The $D = 1$ matrix model and the renormalization group. (English summary) **93i:81155**
Bałaban, Tadeusz (*with* O'Carroll, Michael L.; Schor, Ricardo) Properties of block renormalization group operators for Euclidean fermions in an external gauge field. **93f:81093**
Boyanovsky, Daniel (*with* Holman, R.) Renormalized density of states in conformal field theories. **93b:81177**
Brustein, Ram (*with* Roland, Kaj) Space-time versus world-sheet renormalization group equation in string theory. **93b:81178**
Campostrini, Massimo (*with* Rossi, Paolo[1]) CP^{N-1} models in the $1/N$ expansion. **93b:81179**
Damgaard, P. H. *see* **Alfaro, Jorge, 93i:81155**
Das, Sumit R. (*with* Mandal, Gautam; Wadia, Spenta R.) Stochastic quantization on two-dimensional theory space and Morse theory. **93b:81180**
Fucito, F. (*with* Martellini, Maurizio) Renormalization group flows in nonperturbative 2D quantum gravity. **93d:81122**
Gavrilik, A. M. Bifurcation behavior of Stiefel nonlinear quantum-field models and fractionalization of their effective coupling constants. (Ukrainian. English, Russian and Ukrainian summaries) **93g:81106**
Holman, R. *see* **Boyanovsky, Daniel, 93b:81177**
Jha, Pradip K. (*with* Tripathy, Kishor C.) Symmetries of the renormalization group equations. **93d:81123**
Mandal, Gautam *see* **Das, Sumit R.; et al., 93b:81180**
Martellini, Maurizio *see* **Fucito, F., 93d:81122**
Mizoguchi, Shun'ya (*with* Nakatsu, Toshio) RG flows in generalized supersymmetric and fractional supersymmetric sine-Gordon theories. **93b:81181**
Nakatsu, Toshio *see* **Mizoguchi, Shun'ya, 93b:81181**
O'Carroll, Michael L. (*with* Pereira, Emmanuel) A representation for the generating and correlation functions in the block field renormalization group formalism and asymptotic freedom. (English summary) **93i:81156**
— *see also* **Bałaban, Tadeusz; et al., 93f:81093**
Odintsov, S. D. (*with* Shapiro, I. L.) One-loop divergences in two-dimensional induced quantum gravity. (Russian) **93a:81135**
Pereira, Emmanuel *see* **O'Carroll, Michael L., 93i:81156**
Periwal, Vipul Nonanalyticity in the large N renormalization group. (English summary) **93i:81157**
Piguet, Olivier (*with* Sorella, Silvio P.) On the finiteness of the BRS modulo-d cocycles. (English summary) **93j:81071**
Roland, Kaj *see* **Brustein, Ram, 93b:81178**
Rossi, Paolo[1] *see* **Campostrini, Massimo, 93b:81179**
Schor, Ricardo *see* **Bałaban, Tadeusz; et al., 93f:81093**
Sénéor, Roland Renormalization group. (*see* **93g:81074**)
Shapiro, I. L. *see* **Odintsov, S. D., 93a:81135**
Solov'ev, O. A. Nonabelian chiral conformal Thirring models and nonperturbative aspects of spinless string modes. (Russian) **93a:81136**
Sonoda, Hidenori The rule of operator mixing. **93a:81137**
Sorella, Silvio P. *see* **Piguet, Olivier, 93j:81071**
Tripathy, Kishor C. *see* **Jha, Pradip K., 93d:81123**
Wadia, Spenta R. *see* **Das, Sumit R.; et al., 93b:81180**
Zamolodchikov, Aleksei B. From tricritical Ising to critical Ising by thermodynamic Bethe ansatz. **93b:81182**

Items with secondary classifications in 81T17

Alhendi, H. (*with* Taha, M. O.) Massless φ^4 theory is not asymptotically free. (English summary) **93k:81135**
Bailin, David (*with* Love, Alex) String unification in $Z_3 \times Z_3$ orbifold models. **93d:81133**
Bandyopadhyay, Pratul *see* **Goswami, Gautam, 93k:82026**
Belov, A. A. (*with* Lozovik, Yu. E.) Deformations of conformal field theories with extended symmetries. (Russian) **93a:81165**
Blasi, Alberto (*with* Maggiore, N.; Sorella, Silvio P.) Nonrenormalization properties of the Chern-Simons action coupled to matter. **93d:81111**
Brézin, Édouard Introduction to critical phenomena and to the renormalization group. **93e:82024**
Bukhbinder, I. L. (*with* Odintsov, S. D.; Shapiro, I. L.) ★ Effective action in quantum gravity. **93i:83044**
Drouffe, Jean-Michel *see* **Itzykson, Claude, 93k:81003a**
van Enter, Aernout C. D. (*with* Fernández, Roberto; Sokal, Alan D.) Regularity properties and pathologies of position-space renormalization-group transformations. **93d:82043**
Fernández, Roberto *see* **van Enter, Aernout C. D.; et al., 93d:82043**

Förste, Stefan Generalized conformal invariance conditions on a sigma model of the open bosonic string including the first massive mode. **93a:81153**
Goswami, Gautam (*with* Bandyopadhyay, Pratul) Spin system, gauge theory, and renormalization group equation. (English summary) **93k:82026**
Itzykson, Claude (*with* Drouffe, Jean-Michel) ★ Statistical field theory. Vol. 1. **93k:81003a**
Love, Alex *see* **Bailin, David, 93d:81133**
Lozovik, Yu. E. *see* **Belov, A. A., 93a:81165**
Maggiore, N. *see* **Blasi, Alberto; et al., 93d:81111**
Odintsov, S. D. Renormalization group, effective action and grand unification theories in curved space-time. **93f:81097**
— (*with* Shapiro, I. L.) General relativity as the low-energy limit in higher derivative quantum gravity. **93g:83054**
— *see also* **Bukhbinder, I. L.; et al., 93i:83044**
Shapiro, I. L. *see* **Odintsov, S. D., 93g:83054** *and* **Bukhbinder, I. L.; et al., 93i:83044**
Sokal, Alan D. *see* **van Enter, Aernout C. D.; et al., 93d:82043**
Sorella, Silvio P. *see* **Blasi, Alberto; et al., 93d:81111**
Taha, M. O. *see* **Alhendi, H., 93k:81135**
Tseytlin, A. A. Sigma models and renormalization of string loops. **93i:81200**
(Velo, G.) *see* **Constructive quantum field theory, 93g:81074**
(Wightman, Arthur S.) *see* **Constructive quantum field theory, 93g:81074**

Items listed otherwise than by author

Constructive quantum field theory ★ Constructive quantum field theory. II. **93g:81074**
Erice ★ Constructive quantum field theory. II. **93g:81074**
NATO Advanced Study Institute:
Constructive Quantum Field Theory ★ Constructive quantum field theory. II. **93g:81074**
School:
Mathematical Physics ★ Constructive quantum field theory. II. **93g:81074**

81T18 Feynman diagrams

Contopanagos, H. F. (*with* Einhorn, Martin B.) Interpretation of the asymptotic S matrix for massless particles. **93a:81138**
Damgaard, P. H. Stability and instability of renormalization group flows. (English summary)
Davydychev, A. I. Recursive algorithm for evaluating vertex-type Feynman integrals. (English summary) **93k:81153**
Einhorn, Martin B. *see* **Contopanagos, H. F., 93a:81138**
Gracey, J. A. On the evaluation of massless Feynman diagrams by the method of uniqueness. **93c:81145**
Hasenfratz, P. (*with* Niedermayer, F.) Exact mass gap and the thermodynamic Bethe ansatz for the O(N) σ-model. (*see* **93f:81005**)
Kotikov, A. V. Differential equations method: the calculation of vertex-type Feynman diagrams. **93a:81139**
— Calculation of massive Feynman diagrams. (Russian. English, Russian and Ukrainian summaries) **93g:81107**
Niedermayer, F. *see* **Hasenfratz, P., (93f:81005)**

Items with secondary classifications in 81T18

Ahn, Changrim RG flows of nonunitary minimal CFTs. (English summary)
Bar-Natan, Dror (*with* Witten, Edward) Perturbative expansion of Chern-Simons theory with noncompact gauge group. **93c:81244**
Belov, A. A. (*with* Lozovik, Yu. E.) Exact solution of the renormalization-group equations for the two-dimensional chiral field theory. (Russian) **93f:81126**
Braden, H. W. (*with* Corrigan, E.; Dorey, Patrick E.; Sasaki, Ryu) Affine Toda field theory: S-matrix vs. perturbation. **93i:81148**
Brézin, Édouard (*with* Zinn-Justin, Jean) Renormalization group approach to matrix models. (English summary) **93f:81128**
Corrigan, E. *see* **Braden, H. W.; et al., 93i:81148**
Dorey, Patrick E. *see* **Braden, H. W.; et al., 93i:81148**
Dunne, Gerald (*with* Rius, Nuria) A comment on the relationship between differential and dimensional renormalization. (English summary) **93j:81069**
Ferretti, G. (*with* Rajeev, S. G.) CP^{N-1} model with a Chern-Simons term. **93c:81137**
Freedman, Daniel Z. (*with* Johnson, Kenneth A.; Latorre, José Ignacio) Differential regularization and renormalization: a new method of calculation in quantum field theory. **93b:81172**
Huggett, S. A. Recent work in twistor field theory. **93a:81072**
Ichinose, Ikuo (*with* Mukaida, Hisamitsu) The U(1) gauge-Higgs model in two dimensions and topological field theory. **93g:81152**
Jaroszewicz, T. (*with* Kurzepa, P. S.) Geometry of spacetime propagation of spinning particles. **93i:81126**
Johnson, Kenneth A. *see* **Freedman, Daniel Z.; et al., 93b:81172**
Kurzepa, P. S. *see* **Jaroszewicz, T., 93i:81126**
Kutasov, David Irreversibility of the renormalization group flow in two-dimensional quantum gravity. (English summary) **93e:81118**
Latorre, José Ignacio *see* **Freedman, Daniel Z.; et al., 93b:81172**
Lozovik, Yu. E. *see* **Belov, A. A., 93f:81126**
Morozov, A. Yu. Pair correlator in the Itzykson-Zuber integral. (English summary) **93h:58021**
Mukaida, Hisamitsu *see* **Ichinose, Ikuo, 93g:81152**
Rajeev, S. G. *see* **Ferretti, G., 93c:81137**
Rius, Nuria *see* **Dunne, Gerald, 93j:81069**
Sasaki, Ryu *see* **Braden, H. W.; et al., 93i:81148**
Scadron, Michael D. ★ Advanced quantum theory and its applications through Feynman diagrams. **93b:81002**
Šoln, Josip Perturbation theory with higher derivative couplings. **93b:81295**
Strassler, Matthew J. Field theory without Feynman diagrams: one-loop effective actions. (English summary) **93k:81147**
Takahashi, Yasushi *see* **Toyoda, Tadashi, 93a:82069**
Toyoda, Tadashi (*with* Takahashi, Yasushi) Marginal Fermi-liquid model and Ward-Takahashi relations. **93a:82069**
Witten, Edward *see* **Bar-Natan, Dror, 93c:81244**
Zinn-Justin, Jean *see* **Brézin, Édouard, 93f:81128**

81T20 Quantum field theory on curved space backgrounds

Audretsch, Jürgen Mutually interacting quantum fields in curved space-times: the outcome of physical processes. (*see* **93d:83003**)
van Baal, Pierre Analytic methods from finite to infinite volumes. **93c:81146**
Bandyopadhyay, N. Partition functions for quantized fields in curved space-times. **93d:81124**
Bars, Itzhak Heterotic string models in curved spacetime. (English summary) **93j:81072**
— (*with* Sfetsos, Konstadinos) Conformally exact metric and dilaton in string theory on curved spacetime. (English summary) **93j:81073**
Behrndt, K. The tachyon in a linear expanding universe. (English summary) **93m:81106**
Bellucci, Stefano (*with* O'Reilly, D.) Wormholes and charged particles. **93e:81083**
— Supersymmetry in anti-de Sitter space. (English summary) **93f:81094**
Blencowe, Miles The consistent histories interpretation of quantum fields in curved spacetime. **93i:81158**
Boulware, David G. Quantum field theory in spaces with closed timelike curves. (English summary) **93m:81107**
Buccella, Franco (*with* Esposito, Giampiero; Miele, Gennaro) Spontaneously broken SU(5) symmetries and 1-loop effects in the early universe. **93b:81183**
Bychkov, S. A. (*with* Yur'ev, D. V.) Fubini-Veneziano fields in quantum projective field theory. (Russian) **93i:81159**
Bytsenko, A. A. (*with* Vanzo, Luciano; Zerbini, Sergio) Zeta-function regularization approach to finite temperature effects in Kaluza-Klein space-times. (English summary) **93i:81160**
— (*with* Vanzo, Luciano; Zerbini, Sergio) Massless scalar Casimir effect in a class of hyperbolic Kaluza-Klein space-times. **93i:81161**
— (*with* Vanzo, Luciano; Zerbini, Sergio) Zeta-function regularization for Kaluza-Klein finite temperature theories with chemical potentials. (English summary) **93i:81162**
Capri, A. Z. (*with* Roy, S. M.) The definition of time and quantum vacuum in 1 + 1 dimensions. (English summary) **93e:81084**
Castagnino, Mario A. (*with* Ferraro, Rafael; Sztrajman, Jorge) Hamiltonian diagonalization in curved space. **93i:81163**
Chimento, Luis P. (*with* Cossarini, Adriana E.) Self-consistent solution to the back-reaction problem for vector fields in two dimensions. **93b:81184**
Cho, Y. M. (*with* Zoh, S. W.) Explicit construction of massive spin-two fields in Kaluza-Klein theory. (English summary) **93f:81095**
Christensen, Dan (*with* Mann, Robert B.) The causal structure of two-dimensional spacetimes. **93f:81096**
Cognola, Guido (*with* Vanzo, Luciano) Thermodynamic potential for scalar fields in space-time with hyperbolic spatial part. (English summary) **93k:81154**
Cossarini, Adriana E. *see* **Chimento, Luis P., 93b:81184**
DeWitt, Bryce S. The uses and implications of curved-spacetime propagators: a personal view. **93k:81155**
Dimock, J. Quantized electromagnetic field on a manifold. **93h:81094**
Dorofeev, V. Yu. *see* **Grib, A. A., (93b:83004)**
Ebner, Dieter W. (*with* Rodríguez-Romo, Suemi) Fermions as special states of bosons. (English summary) (*see* **93f:00011**)
Elizalde, E. (*with* Odintsov, S. D.) Renormalization group equations in curved space-time with nontrivial topology. **93d:81125**
Ellwanger, U. (*with* Schnittger, J.) Local world sheet Weyl-invariance in the presence of background charges. **93a:81140**
Esposito, Giampiero *see* **Buccella, Franco; et al., 93b:81183**
Ferraro, Rafael *see* **Castagnino, Mario A.; et al., 93i:81163**
Folacci, A. Quantum field theory of p-forms in curved space-time. **93g:81108**
— Two-point functions and stress-energy tensors of p-forms in de Sitter and anti-de Sitter spaces. **93i:81164a**
— Erratum: "Two-point functions and stress-energy tensors of p-forms in de Sitter and anti-de Sitter spaces". **93i:81164b**
— Zero modes, Euclideanization, and quantization. (English summary)
Ford, L. H. Inequalities which constrain negative energy in quantum field theory. **93c:81147**
Friedman, John L. (*with* Papastamatiou, Nicolas J.; Simon, Jonathan Z.) Unitarity of interacting fields in curved spacetime. (English summary) **93g:81109**
— (*with* Papastamatiou, Nicolas J.; Simon, Jonathan Z.) Failure of unitarity for interacting fields on spacetimes with closed timelike curves. (English summary) **93g:81110**
Gasperini, M. (*with* Maharana, Jnanadeva; Veneziano, G.) Boosting away singularities from conformal string backgrounds. (English summary) **93k:81156**
Giddings, Steven B. (*with* Nelson, William M.) Quantum emission from two-dimensional black holes. (English summary) **93i:81165**
Grib, A. A. (*with* Dorofeev, V. Yu.) Quantum theory of particles with Planckean masses. (*see* **93b:83004**)
Gui, Yuan Xing Thermal properties of fermion fields in η-ξ space time. (Chinese. English summary) **93b:81185**
— Fermion fields in η-ξ spacetime. **93c:81148**
— η-ξ spacetime and thermofields. (English summary) **93g:81111**
Gürses, Metin Uniqueness of the solutions of sigma models in non-Riemannian background. (English summary) **93m:81109**
Ho, Choon Lin (*with* Hosotani, Yutaka) Anyon equation on a torus. (English summary) **93i:81166**
Hortaçsu, M. Singularities with C^0 metrics. **93b:81186**
Hosotani, Yutaka *see* **Ho, Choon Lin, 93i:81166**
Hosoya, Akio Stochastic quantum gravity—(2 + 1)-dimensional case. **93b:81187**
Huang, Wung Hong Adiabatic regularization of the quantum stress-energy tensor in curved spacetimes: stochastic quantization method. (English summary)
Iliopoulos, J. (*with* Tomaras, T. N.) Scalar fields on a Robertson-Walker background. **93b:81188a**

— (*with* Tomaras, T. N.) Erratum: "Scalar fields on a Robertson-Walker background". **93b:81188b**

Jensen, Bjørn Production of quantum particles on cones. **93c:81149**

Jermyn, I. H. Self-consistent compactification at finite temperature on $\mathbf{R} \times S^5 \times S^3$. **93c:81150**

Kay, Bernard S. (*with* Wald, Robert M.) Theorems on the uniqueness and thermal properties of stationary, nonsingular, quasifree states on spacetimes with a bifurcate Killing horizon. **93b:81189**

— The principle of locality and quantum field theory on (non-globally hyperbolic) curved spacetimes. (English summary) **93k:81157**

Kerimov, G. A. Euclidean formulation of quantum field theory in the anti-de Sitter space. (Russian) (*see* **93d:58002**)

Khrustalev, O. A. *see* **Silaev, P. K., 93i:81171**

Loskutov, Yu. M. A conjecture on the P-odd contribution to gravitational interactions and its consequences. (Russian. English and Russian summaries) **93k:81158**

Maharana, Jnanadeva *see* **Gasperini, M.; et al., 93k:81156**

Mann, Robert B. *see* **Christensen, Dan, 93f:81096**

McKeon, D. G. C. Induced Weyl gravity in two dimensions. **93b:81190**

McLachlan, A. Infrared divergences of toroidal effective potentials. **93b:81191**

Miele, Gennaro *see* **Buccella, Franco; et al., 93b:81183**

Ne'eman, Yuval Yang-Mills-like renormalizability of gauge-affine gravity and indirect applications. **93c:81151**

Nelson, Edward Clock space. (English summary) **93i:81167**

Nelson, William M. *see* **Giddings, Steven B., 93i:81165**

Odintsov, S. D. Renormalization group, effective action and grand unification theories in curved space-time. **93f:81097**

— *see also* **Elizalde, E., 93d:81125**

Ohnishi, Kouji (*with* Takagi, Shin) Rindler noise in the flat spacetime with a boundary. I. (English summary) **93k:81159**

O'Reilly, D. *see* **Bellucci, Stefano, 93e:81083**

Padmanabhan, T. (*with* Singh, Tejinder Pal) A comparison of various approaches to the back-reaction problem. (English summary) **93i:81168**

Papadopoulos, George J. Topology, unitary representations and charged particles. **93c:81152**

Papastamatiou, Nicolas J. *see* **Friedman, John L.; et al., 93g:81109** *and* **93g:81110**

Peet, Amanda (*with* Susskind, Leonard; Thorlacius, Lárus) Information loss and anomalous scattering. (English summary) **93i:81169**

Percoco, U. (*with* Villalba, Víctor M.) Particle creation in a noninertial frame associated to a nondiagonal metric. **93c:81153**

Politzer, H. David Simple quantum systems in spacetimes with closed timelike curves. (English summary) **93m:81108**

Rabello, S. J. (*with* Vaidya, A. N.) Evaluation of Schwinger-de Witt kernels for spin-$\frac{1}{2}$ fields through the SO(2, 1) Lie algebra. (English summary) **93h:81095**

Rodríguez-Romo, Suemi *see* **Ebner, Dieter W., (93f:00011)**

Roy, S. M. *see* **Capri, A. Z., 93e:81084**

Sánchez, Norma Field and string quantization in curved space-times. (*see* **93e:81005**)

— Quantum string theory in curved space-times. **93d:81126**

Schnittger, J. *see* **Ellwanger, U., 93a:81140**

Segal, Irving E. (*with* Zhou, Zheng-Fang) Convergence of nonlinear massive quantum field theory in the Einstein universe. (English summary) **93i:81170**

Sfetsos, Konstadinos *see* **Bars, Itzhak, 93j:81073**

Silaev, P. K. (*with* Khrustalev, O. A.) A connection between fields, quantized in overlapping regions, and the Unruh effect. (Russian. English and Russian summaries) **93i:81171**

Simon, Jonathan Z. *see* **Friedman, John L.; et al., 93g:81109** *and* **93g:81110**

Singh, Tejinder Pal *see* **Padmanabhan, T., 93i:81168**

Susskind, Leonard *see* **Peet, Amanda; et al., 93i:81169**

Svaiter, B. F. (*with* Svaiter, N. F.) Inertial and noninertial particle detectors and vacuum fluctuations. (English summary) **93m:81110**

Svaiter, N. F. *see* **Svaiter, B. F., 93m:81110**

Sztrajman, Jorge *see* **Castagnino, Mario A.; et al., 93i:81163**

Tagirov, È. A. Quantum mechanics in Riemannian space-time. II. Operators of observables. (Russian. English and Russian summaries) **93m:81111**

Takagi, Shin *see* **Ohnishi, Kouji, 93k:81159**

Thorlacius, Lárus *see* **Peet, Amanda; et al., 93i:81169**

Tomaras, T. N. *see* **Iliopoulos, J., 93b:81188a** *and* **93b:81188b**

Toms, David J. Bose-Einstein condensation in relativistic systems in curved space as symmetry breaking. (English summary) **93f:81098**

— Bose-Einstein condensation as symmetry breaking in curved spacetime and in spacetimes with boundaries. (English summary) **93k:81160**

Vaidya, A. N. *see* **Rabello, S. J., 93h:81095**

Vanzo, Luciano *see* **Bytsenko, A. A.; et al., 93i:81160; 93i:81161; 93i:81162** *and* **Cognola, Guido, 93k:81154**

Vasilevich, D. V. Path integral measure for Hamiltonian QED in curved space.

Veneziano, G. *see* **Gasperini, M.; et al., 93k:81156**

Villalba, Víctor M. *see* **Percoco, U., 93c:81153**

Wald, Robert M. *see* **Kay, Bernard S., 93b:81189**

Worden, K. Renormalized stress tensors on ellipses. **93i:81172**

Wu, Yong Shi[1] Braid groups, anyons and gauge invariance. (English summary) (*see* **93f:81006**)

Yur'ev, D. V. *see* **Bychkov, S. A., 93i:81159**

Zel'nikov, A. I. Nonlocal heat kernel with separated points. **93b:81192**

Zerbini, Sergio *see* **Bytsenko, A. A.; et al., 93i:81160; 93i:81161** *and* **93i:81162**

Zhou, Zheng-Fang *see* **Segal, Irving E., 93i:81170**

Zoh, S. W. *see* **Cho, Y. M., 93f:81095**

Items with secondary classifications in 81T20

Ahmed, M. A. Curved-spacetime graviton vertex operator in string theory. (English summary) **93j:81076**

Allen, Bruce (*with* McLaughlin, John G.; Ottewill, Adrian C.) Photon and graviton Green's functions on cosmic string space-times. **93c:83043**

Anderson, Warren G. (*with* Brady, Patrick R.; Camporesi, Roberto) Vacuum polarization and the black hole singularity. (English summary) **93k:83044**

Anselmi, Damiano Functional integration measure in quantum gravity. **93c:83044**

Antoniadis, Ignatios (*with* Mazur, Paweł O.; Mottola, Emil) Conformal symmetry and central charges in 4 dimensions. (English summary) **93m:81140**

Audretsch, Jürgen Quantum field theory in curved space-time. (*see* **93b:83002**)

— *see also* **Quantum mechanics in curved space-time, 93d:83003**

Bagrov, V. G. (*with* Obukhov, V. V.) New method of integration for the Dirac equation on a curved space-time. **93a:35128**

Bao, Gong *see* **Zhang, Zhen Jiu; et al., (93d:83003)**

Bars, Itzhak (*with* Sfetsos, Konstadinos) $\mathrm{SL}(2, \mathbf{R}) \otimes \mathrm{SU}(2)/\mathbf{R}^2$ string model in curved spacetime and exact conformal results. (English summary) **93k:81190**

Barvinskiĭ, A. O. (*with* Kamenshchik, A. Yu.; Karmazin, I. P.) One-loop quantum cosmology: ζ-function technique for the Hartle-Hawking wave function of the Universe. (English summary) **93k:83026**

Bastianelli, Fiorenzo (*with* van Nieuwenhuizen, Peter) Trace anomalies from quantum mechanics. (English summary) **93m:81141**

Bombelli, Luca (*with* Gunzig, Edgard; Nesteruk, A. V.) Renormalization, the trace anomaly and spacetime anisotropy. (English summary) **93g:81102**

Brady, Patrick R. *see* **Anderson, Warren G.; et al., 93k:83044**

Bukhbinder, I. L. (*with* Odintsov, S. D.; Shapiro, I. L.) ★ Effective action in quantum gravity. **93i:83044**

Bytsenko, A. A. (*with* Zerbini, Sergio) The Casimir effect for a class of hyperbolic $(D+1)$-dimensional spacetimes. **93i:83053**

Camporesi, Roberto (*with* Higuchi, Atsushi) Stress-energy tensors in anti-de Sitter spacetime. **93f:83047**

— *see also* **Anderson, Warren G.; et al., 93k:83044**

Campos, A. (*with* Verdaguer, E.) Production of spin-$\frac{1}{2}$ particles in inhomogeneous cosmologies. **93c:83065**

Castagnino, Mario A. (*with* Domenech, G.; Frolov, V. P.; Noriega, R. J.; Schifini, G.) Concomitants theory and renormalization in even dimensions. **93b:83030**

Chamseddine, A. H. Topological gravity and supergravity. **93e:83034**

Chang, Peter *see* **Dowker, J. S., 93j:83045**

Chiou-Lahanas, C. (*with* Kapella-Economou, A.; Lahanas, A. B.; Maintas, X. N.) Gravitational radiative corrections in $N = 1$ supergravity. **93c:83118**

Christodoulakis, T. (*with* Korfiatis, E.) Quantum mechanics of the general spatially homogeneous geometry coupled to a scalar field. **93i:83046**

Cognola, Guido (*with* Vanzo, Luciano; Zerbini, Sergio) Regularization dependence of vacuum energy in arbitrarily shaped cavities. **93c:81143**

Comtet, Alain (*with* Khare, Avinash) Self-dual Maxwell-Chern-Simons vortices in the background of gravity. **93a:81126**

Dai, Xian Xin *see* **Zhao, Zheng, 93f:83065**

Dehnen, H. *see* **Macías, A., 93k:83040**

(De Sabbata, Venzo) *see* **Quantum mechanics in curved space-time, 93d:83003**

Dettki, Arne (*with* Wipf, Andreas) Finite-size effects from general covariance and Weyl anomaly. **93a:81187**

Dolan, Brian P. (*with* Nash, Charles) Zeta function continuation and the Casimir energy on odd- and even-dimensional spheres. (English summary) **93f:58243**

Domenech, G. *see* **Castagnino, Mario A.; et al., 93b:83030**

Dowker, J. S. (*with* Chang, Peter) Polyhedral cosmic strings. (English summary) **93j:83045**

Dray, Tevian (*with* Kulkarni, Ravi S.; Manogue, Corinne A.) Scalar field quantization in stationary, nonstatic spacetimes. (English summary) **93j:83046**

Dubois-Violette, Michel (*with* Henneaux, Marc; Talon, Michel; Viallet, Claude-Michel) General solution of the consistency equation. (English summary) **93i:81276**

Elizalde, E. (*with* Romeo, A.) Epstein-function analysis of the Casimir effect at finite temperature for massive fields. (English summary) **93i:81149**

Elmfors, Per (*with* Skagerstam, Bo-Sture) Quantum fields at local equilibrium and distortions of the cosmic microwave background. (English summary) **93e:83039**

Ferraro, Rafael Path integral for the relativistic particle in curved space. **93i:81118**

Figueiredo, B. D. B. (*with* Soares, Ivano Damião; Tiomno, J.) Gravitational coupling of Klein-Gordon and Dirac particles to matter vorticity and spacetime torsion. **93h:83030**

Ford, L. H. (*with* Roman, Thomas A.) "Cosmic flashing" in four dimensions. (English summary) **93i:83067**

Frolov, V. P. Vacuum polarization in a locally static multiply-connected spacetime and a time machine problem. **93f:83048**

— *see also* **Castagnino, Mario A.; et al., 93b:83030**

Fulling, Stephen A. *see* **Molzahn, F. H.; et al., 93j:81020**

Giveon, Amit (*with* Roček, Martin) Generalized duality in curved string backgrounds. (English summary) **93m:81129**

Gorbar, E. V. *see* **Gusynin, V. P., 93a:58166**

Gregory, Ruth (*with* Harvey, Jeffrey A.) Quantum fermion hair. (English summary) **93f:83056**

Gunzig, Edgard *see* **Bombelli, Luca; et al., 93g:81102**

Gusynin, V. P. (*with* Gorbar, E. V.) Local heat kernel asymptotics for nonminimal differential operators. **93a:58166**

Haba, Zbigniew Solutions of quantum mechanics and field theory in terms of stochastic (partial) differential equations. **93b:81124**

Harari, Diego D. (*with* Skarzhinskiĭ, V. D.) Quantum processes in the gravitational field of a cosmic string. (*see* **93b:83004**)

Harvey, Jeffrey A. *see* **Gregory, Ruth, 93f:83056**

He, Chang Bai *see* **Zhang, Zhen Jiu; et al., (93d:83003)**

Heinrich, O. Equilibrium configurations of superconducting cosmic strings in background fields. (*see* **93b:83004**)

Henneaux, Marc *see* **Dubois-Violette, Michel; et al., 93i:81276**

Higuchi, Atsushi (*with* Matsas, G. E. A.; Sudarsky, Daniel) Bremsstrahlung and Fulling-Davies-Unruh thermal bath. (English summary) **93f:83049**

— *see also* **Camporesi, Roberto, 93f:83047**

Hořava, Petr Two-dimensional stringy black holes with one asymptotically flat domain. (English summary) **93f:81132**

Huang, Huan Ran *see* **Zhang, Zhen Jiu; et al., (93d:83003)**

Huang, Wung Hong Hawking radiation of a quantum black hole in an inflationary universe. **93f:83057**

Ikegami, Mitsuhiro (*with* Nagaoka, Yosuke; Takagi, Shin; Tanzawa, Tôru) Quantum mechanics of a particle on a curved surface—comparison of three different approaches. (English summary) **93i:81098**

Isaacson, Jeffrey A. *see* **Rogers, Barrett, 93d:83040**

Ivanov, Evgenii Alekseevich² (*with* Niederle, Jirí) $N = 1$ supergravity as a nonlinear realization. **93c:83120**

Kamenshchik, A. Yu. (*with* Mishakov, I. V.) ζ-function technique for quantum cosmology: the contributions of matter fields to the Hartle-Hawking wave function of the Universe. **93f:83041**

— *see also* **Barvinskii, A. O.; et al., 93k:83026**

Kapella-Economou, A. *see* **Chiou-Lahanas, C.; et al., 93c:83118**

Karmazin, I. P. *see* **Barvinskii, A. O.; et al., 93k:83026**

Katanaev, M. O. Conformal invariance, extremals, and geodesics in two-dimensional gravity with torsion. **93h:81124**

Katayama, Noriaki A note on a quantum-mechanical harmonic oscillator in a space of constant curvature. (English summary) **93e:81029**

Kehagias, Alexandros A. The $SU(3)/Z_3$ gauge theory in a non-simply connected spacetime. (English summary) **93g:81094**

Khare, Avinash *see* **Comtet, Alain, 93a:81126**

Kim, Sang Pyo Quantum mechanics of conformally and minimally coupled Friedmann-Robertson-Walker cosmology. (English summary) **93j:83041**

Kirsten, Klaus Inhomogeneous multidimensional Epstein zeta functions. **93a:11028**

— Connections between Kelvin functions and zeta functions with applications. (English summary) **93k:11079**

Klinkhammer, Gunnar Vacuum polarization of scalar and spinor fields near closed null geodesics. (English summary) **93i:83054**

Korfiatis, E. *see* **Christodoulakis, T., 93i:83046**

Kulkarni, Ravi S. *see* **Dray, Tevian; et al., 93j:83046**

Künzle, H. P. More colored black holes. **93c:83076**

— (*with* Masood-ul-Alam, A. K. M.) Pure Yang-Mills fields on asymptotically flat curved $\mathbf{R}^3$. (English summary) **93m:53027**

Kutasov, David (*with* Martinec, Emil J.; Seiberg, Nathan) Ground rings and their modules in 2D gravity with $c \leq 1$ matter. **93e:81119**

Kuzenko, S. M. (*with* Solov'ev, O. A.) Equations for two-point correlators on compact Riemann surfaces. (Russian. English summary) **93c:81213**

Lahanas, A. B. *see* **Chiou-Lahanas, C.; et al., 93c:83118**

Levin, Orit (*with* Peleg, Yoav; Peres, Asher) Quantum detector in an accelerated cavity. (English summary) **93m:83043**

Loustó, C. O. (*with* Sánchez, Norma) The ultrarelativistic limit of the boosted Kerr-Newman geometry and the scattering of spin-$\frac{1}{2}$ particles. (English summary) **93k:83039**

Macías, A. (*with* Dehnen, H.) Dirac field in the five-dimensional Kaluza-Klein theory with scalar field. (English summary) **93k:83040**

Maintas, X. N. *see* **Chiou-Lahanas, C.; et al., 93c:83118**

Maischak, Matthias The gravitational anomalies in de Sitter space. (English summary) **93g:81182**

Mann, Robert B. (*with* Tarasov, Lev Koozma; Zel'nikov, A. I.) Brick walls for black holes. **93f:83058**

Manogue, Corinne A. *see* **Dray, Tevian; et al., 93j:83046**

Martinec, Emil J. *see* **Kutasov, David; et al., 93e:81119**

Masood-ul-Alam, A. K. M. *see* **Künzle, H. P., 93m:53027**

Matacz, A. L. The emergence of classical behaviour in the quantum fluctuations of a scalar field in an expanding universe. (English summary) **93j:83047**

Matsas, G. E. A. *see* **Higuchi, Atsushi; et al., 93f:83049**

Mattos, Octávio A. (*with* Rivelles, Victor O.) Nonperturbative solutions of string theory in gravitational backgrounds. (English summary) **93k:81182**

Mazur, Paweł O. *see* **Antoniadis, Ignatios; et al., 93m:81140**

McAvity, D. M. (*with* Osborn, Hugh) Asymptotic expansion of the heat kernel for generalized boundary conditions. **93a:58162**

McLaughlin, John G. *see* **Allen, Bruce; et al., 93c:83043**

Mishakov, I. V. *see* **Kamenshchik, A. Yu., 93f:83041**

Molzahn, F. H. (*with* Osborn, T. A.; Fulling, Stephen A.) Multi-scale semiclassical approximations for Schrödinger propagators on manifolds. **93j:81020**

Morsink, Sharon M. Spinor particles and black holes in $1 + 1$ dimensions. **93d:81190**

Mottola, Emil *see* **Antoniadis, Ignatios; et al., 93m:81140**

Nagaoka, Yosuke *see* **Ikegami, Mitsuhiro; et al., 93i:81098**

Nash, Charles *see* **Dolan, Brian P., 93f:58243**

Nesteruk, A. V. *see* **Bombelli, Luca; et al., 93g:81102**

Niederle, Jirí *see* **Ivanov, Evgenii Alekseevich², 93c:83120**

van Nieuwenhuizen, Peter *see* **Bastianelli, Fiorenzo, 93m:81141**

Nishino, Hitoshi Does heterotic string generate Chern-Simons action in three dimensions? **93c:81180**

Noriega, R. J. *see* **Castagnino, Mario A.; et al., 93b:83030**

Obukhov, V. V. *see* **Bagrov, V. G., 93a:35128**

Odintsov, S. D. (*with* Shapiro, I. L.) General relativity as the low-energy limit in higher derivative quantum gravity. **93g:83054**

— (*with* Timoshkin, A. V.) Asymptotic properties of the abelian Chern-Simons field theory with matter in curved space-time. (Russian. Russian summary) **93i:81143**

— (*with* Shapiro, I. L.) Phase transition on the curvature in quantum R^2-gravitation and induction of Einstein gravitation. (Russian. English and Russian summaries) **93f:83072**

— *see also* **Bukhbinder, I. L.; et al., 93i:83044**

Osborn, Hugh *see* **McAvity, D. M., 93a:58162**

Osborn, T. A. *see* **Molzahn, F. H.; et al., 93j:81020**

Ottewill, Adrian C. *see* **Allen, Bruce; et al., 93c:83043**

Parashar, D. Gordon decomposition of Dirac spinors in gravitational background. **93c:83082**

Peleg, Yoav *see* **Levin, Orit; et al., 93m:83043**

Peres, Asher *see* **Levin, Orit; et al., 93m:83043**

Pimentel, Luis O. The Klein-Gordon equation in some anisotropic cosmologies. (English summary) **93k:83041**

Pollock, M. D. Dimensional reduction and the duality symmetry in the superstring theory. **93b:81228**

Pronin, P. I. Renormalization of field theories in Riemann-Cartan space-time. (*see* **93d:83003**)

Ragiadakos, C. N. Quantization of a four-dimensional generally covariant conformal model. **93b:81292**

Ramón-Medrano, M. *see* **de Vega, H. J.; et al., 93b:81233**

Red'kov, V. M. Degrees of freedom for a spin 3/2 field in the de Sitter world, and separation of variables in static coordinates. (Russian. English and Russian summaries) **93j:83048**

Rivelles, Victor O. *see* **Mattos, Octávio A., 93k:81182**

Roček, Martin *see* **Giveon, Amit, 93m:81129**

Rogers, Barrett (*with* Isaacson, Jeffrey A.) The stability of de Sitter space with a scalar quantum field. II. The linear analysis. **93d:83040**

Roman, Thomas A. *see* **Ford, L. H., 93i:83067**

Romeo, A. *see* **Elizalde, E., 93i:81149**

Sánchez, Norma Quantum strings in curved space times. (*see* **93d:83003**)

— *see also* **de Vega, H. J.; et al., 93b:81233** *and* **Loustó, C. O., 93k:83039**

Schifini, G. *see* **Castagnino, Mario A.; et al., 93b:83030**

Seiberg, Nathan *see* **Kutasov, David; et al., 93e:81119**

Semenoff, Gordon W. *see* **Szabo, Richard J., 93h:58147**

Sfetsos, Konstadinos *see* **Bars, Itzhak, 93k:81190**

Shapiro, I. L. *see* **Odintsov, S. D., 93f:83072; 93g:83054** *and* **Bukhbinder, I. L.; et al., 93i:83044**

Shiraishi, Kiyoshi Superradiance from a charged dilaton black hole. (English summary) **93j:83049**

Sitenko, Yu. A. On the possible unobservability of the Wu-Yang phase factor in curved space. (Russian) **93i:81145**

Skagerstam, Bo-Sture *see* **Elmfors, Per, 93e:83039**

Skarzhinskii, V. D. *see* **Harari, Diego D., (93b:83004)**

Soares, Ivano Damião *see* **Figueiredo, B. D. B.; et al., 93h:83030**

Solov'ev, O. A. *see* **Kuzenko, S. M., 93c:81213**

Sudarsky, Daniel *see* **Higuchi, Atsushi; et al., 93f:83049**

Sushkov, S. V. A self-consistent semiclassical solution with a throat in the theory of gravity. **93i:83052**

Szabo, Richard J. (*with* Semenoff, Gordon W.) Eta-invariants and fermion number in finite volume. **93h:58147**

Takagi, Shin *see* **Ikegami, Mitsuhiro; et al., 93i:81098**

Talon, Michel *see* **Dubois-Violette, Michel; et al., 93i:81276**

Tanzawa, Tôru *see* **Ikegami, Mitsuhiro; et al., 93i:81098**

Tarasov, Lev Koozma *see* **Mann, Robert B.; et al., 93f:83058**

Timoshkin, A. V. *see* **Odintsov, S. D., 93i:81143**

Tiomno, J. *see* **Figueiredo, B. D. B.; et al., 93h:83030**

Tolksdorf, Jürgen The generalized radiation gauge in curved space-time. **93h:83027**

Tomaschitz, Roman An alternative to wave mechanics on curved spaces. **93c:58164**

Tsuchiya, Akihiro The construction of conformal field theories. (Japanese) **93k:81223**

Unruh, W. G. Thermal bath and decoherence of Rindler spacetimes. (English summary) **93g:83057**

Vanzo, Luciano *see* **Cognola, Guido; et al., 93c:81143**

de Vega, H. J. (*with* Ramón-Medrano, M.; Sánchez, Norma) Superstring propagation through supergravitational shockwaves. **93b:81233**

Verdaguer, E. *see* **Campos, A., 93c:83065**

Viallet, Claude-Michel *see* **Dubois-Violette, Michel; et al., 93i:81276**

Wald, Robert M. Correlations beyond the horizon. (English summary) **93k:83042**

Wipf, Andreas *see* **Dettki, Arne, 93a:81187**

Wollenberg, M. Scaling limits and type of local algebras over curved space-time. **93m:81095**

Zel'nikov, A. I. *see* **Mann, Robert B.; et al., 93f:83058**

Zerbini, Sergio *see* **Cognola, Guido; et al., 93c:81143** *and* **Bytsenko, A. A., 93i:83053**

Zhang, Zhen Jiu (*with* Huang, Huan Ran; Bao, Gong; He, Chang Bai) Quantum mechanics of black holes in curved space-time. (*see* **93d:83003**)

Zhao, Wei Dong Character-valued index theorem and topological field theory. **93g:58143**

Zhao, Zheng (*with* Dai, Xian Xin) A new method dealing with Hawking effects of evaporating black holes. **93f:83065**

Items listed otherwise than by author

Erice ★ Quantum mechanics in curved space-time. **93d:83003**

NATO Advanced Research Workshop:

Quantum Mechanics in Curved Space-Time ★ Quantum mechanics in curved space-time. **93d:83003**

Quantum mechanics in curved space-time ★ Quantum mechanics in curved space-time. **93d:83003**

81T25 Quantum field theory on lattices

Albeverio, Sergio (*with* Hohler, Erling G. B.; Zegarliński, Bogusław) Ferromagneticity of simplicial fields on two-dimensional compact manifolds. **93k:81161**

Alford, Mark G. (*with* March-Russell, John) New order parameters for nonabelian gauge theories. **93b:81193**

Bérard, Alain *see* **Grandati, Y.; et al., 93g:81112**

Bérubé, D. (*with* Kröger, Helmut; Lafrance, R.; Marleau, L.) Axial anomaly on a momentum lattice. **93a:81141**

Borgs, Christian First order phase transitions in large N lattice Higgs models and Pirogov Sinaĭ theory. A short summary. (*see* **93g:81074**)

Caselle, M. (*with* D'Adda, A.; Panzeri, S.) Exact solution of $D = 1$ Kazakov-Migdal induced gauge theory. (English summary) **93i:81173**

D'Adda, A. *see* **Caselle, M.; et al., 93i:81173**

DeWitt, Bryce S. (*with* deLyra, Jorge L.; Foong, See Kit; Gallivan, Timothy; et al.) Lattice quantization of the $O(1, 2)/O(2) \times Z_2$ sigma model in 4 dimensions. **93m:81112**

Dimakis, A. (*with* Müller-Hoissen, Folkert; Striker, T.) From continuum to lattice theory via deformation of the differential calculus. (English summary) **93j:81074**
Eliezer, D. (*with* Semenoff, Gordon W.) Anyonization of lattice Chern-Simons theory. **93i:81174**
Foong, See Kit *see* **DeWitt, Bryce S.; et al., 93m:81112**
(Fukugita, M.) *see* **Lattice 91, 93d:81130**
Gallivan, Timothy *see* **DeWitt, Bryce S.; et al., 93m:81112**
Grandati, Y. (*with* Bérard, Alain; Grangé, P.) Exact partition functions of interacting lattice fermions. **93g:81112**
Grangé, P. *see* **Grandati, Y.; et al., 93g:81112**
(Heller, U. M.) *see* **Lattice 90, 93b:81195**
Hohler, Erling G. B. *see* **Albeverio, Sergio; et al., 93k:81161**
(Iwasaki, Yoichi) *see* **Lattice 91, 93d:81130**
Kalkreuter, Thomas Projective block spin transformations in lattice gauge theories. **93g:81113**
Kaplan, David B. A method for simulating chiral fermions on the lattice. (English summary) **93f:81099**
Kavalov, Al. R. (*with* Mkrtchyan, R. L.) The lattice topological gauge theory. Construction and observables. **93b:81194**
(Kennedy, A. D.) *see* **Lattice 90, 93b:81195**
Kröger, Helmut *see* **Bérubé, D.; et al., 93a:81141**
Lafrance, R. *see* **Bérubé, D.; et al., 93a:81141**
Lerner, David E. The linear system for self-dual gauge fields in a spacetime of signature 0. **93d:81127**
Loll, R. Independent SU(2)-loop variables and the reduced configuration space of SU(2)-lattice gauge theory. **93a:81142**
deLyra, Jorge L. *see* **DeWitt, Bryce S.; et al., 93m:81112**
Makeenko, Yu. M. Large-N reduction, master field and loop equations in Kazkaov-Migdal model. (English summary)
March-Russell, John *see* **Alford, Mark G., 93b:81193**
Marleau, L. *see* **Bérubé, D.; et al., 93a:81141**
Minlos, R. A. (*with* Mogil'ner, A. I.) Some problems concerning spectra of lattice models. **93c:81154**
Mkrtchyan, R. L. *see* **Kavalov, Al. R., 93b:81194**
Mogil'ner, A. I. *see* **Minlos, R. A., 93c:81154**
Müller-Hoissen, Folkert *see* **Dimakis, A.; et al., 93j:81074**
Nill, Florian The Coleman-Weinberg mechanism in the abelian lattice Higgs model. (*see* **93g:81074**)
(Okawa, M.) *see* **Lattice 91, 93d:81130**
Ooguri, Hirosi (*with* Sasakura, Naoki) Discrete and continuum approaches to three-dimensional quantum gravity. **93i:81175**
Panzeri, S. *see* **Caselle, M.; et al., 93i:81173**
Phillips, Anthony V. (*with* Stone, D. A.) Chern-Simons on a lattice. **93e:81085**
(Sanielevici, S.) *see* **Lattice 90, 93b:81195**
Sasakura, Naoki *see* **Ooguri, Hirosi, 93i:81175**
Semenoff, Gordon W. *see* **Eliezer, D., 93i:81174**
Smit, Jan Transfer operator and lattice fermions. **93c:81155**
Stone, D. A. *see* **Phillips, Anthony V., 93e:81085**
Striker, T. *see* **Dimakis, A.; et al., 93j:81074**
Suzuki, Tōru Quantized Bogoliubov transformation and the holon-spinon operator formalism. **93d:81128**
(Ukawa, A.) *see* **Lattice 91, 93d:81130**
Wiese, U.-J. Monopoles, gluons and the use of C-periodic lattice gauge fields. **93d:81129**
Zegarliński, Bogusław *see* **Albeverio, Sergio; et al., 93k:81161**

Items listed otherwise than by author

Conference:
Lattice Field Theory ★ Lattice 90. **93b:81195**
Lattice 90 ★ Lattice 90. **93b:81195**
Lattice 91 ★ Lattice 91. **93d:81130**
Symposium:
Lattice Field Theory ★ Lattice 91. **93d:81130**
Tallahassee, FL ★ Lattice 90. **93b:81195**
Tsukuba ★ Lattice 91. **93d:81130**

Items with secondary classifications in 81T25

van Baal, Pierre Analytic methods from finite to infinite volumes. **93c:81146**
Babelon, O. Integrable systems associated to the lattice version of the Virasoro algebra. I. The classical open chain. (English summary) **93k:58107**
Bałaban, Tadeusz (*with* O'Carroll, Michael L.; Schor, Ricardo) Properties of block renormalization group operators for Euclidean fermions in an external gauge field. **93f:81093**
Baranowski, D. (*with* Rittenberg, Vladimir; Schütz, G.) Higher symmetries in the spin-one Zamolodchikov-Fateev Hamiltonian with a finite number of sites and toroidal boundary conditions. Spectra and operator content of $N = 1$ superconformal systems. **93c:81192**
Basu Mallick, B. *see* **Kundu, A., 93i:82033**
Cassi, D. (*with* Pesando, I.) A new supersymmetric model for self-avoiding polymers. **93c:82074**
Coker, David A. Use of projectors for integrable models of quantum field theory. (English summary) **93i:81177**
Daniel, Muthiah *see* **Porsezian, K.; et al., 93c:82022**
DeWitt, Bryce S. Nonlinear sigma models in 4 dimensions: a lattice definition. (*see* **93d:83003**)
Drouffe, Jean-Michel *see* **Itzykson, Claude, 93k:81003a**
Fröhlich, Jürg (*with* Marchetti, P. A.) Superselection sectors in quantum field models: kinks in Φ_2^4 and charged states in lattice $(Q.E.D.)_4$. (*see* **93i:81122**)
Gross, Mark (*with* Hamber, Herbert W.) Critical properties of two-dimensional simplicial quantum gravity. **93a:83011**
Hamber, Herbert W. *see* **Gross, Mark, 93a:83011**
Ichinose, Ikuo (*with* Mukaida, Hisamitsu) The U(1) gauge-Higgs model in two dimensions and topological field theory. **93g:81152**
— (*with* Matsui, Tetsuo) Dynamics of the composite gauge boson in the CP^{N-1} model with fermion and the charge-spin separation. (English summary) **93k:81267**
Itzykson, Claude (*with* Drouffe, Jean-Michel) ★ Statistical field theory. Vol. 1. **93k:81003a**
Jónsson, Thórdur Topological lattice theories in two dimensions. **93g:81155**
Kawai, Hikaru Quantum gravity and random surfaces. (English summary) **93g:81156**
Kikukawa, Yoshio Chiral symmetry and operator mixing in lattice SU(N) Thirring model with shift symmetry. **93b:81199**
Klassen, Timothy R. (*with* Melzer, Ezer) Spectral flow between conformal field theories in $1 + 1$ dimensions. **93b:81254**
Korchemskii, G. P. Matrix model perturbed by higher order curvature terms. (English summary) **93f:81135**
Kundu, A. (*with* Basu Mallick, B.) Construction of integrable quantum lattice models through Sklyanin-like algebras. **93i:82033**
Lakshmanan, M. *see* **Porsezian, K.; et al., 93c:82022**
Lina, Jean-Marc (*with* Panigrahi, Prasanta K.) Lax-pair formulation of the w-gravity theories in two dimensions. (English summary) **93i:81192**
Marchetti, P. A. *see* **Fröhlich, Jürg, (93i:81122)**
Matsui, Tetsuo *see* **Ichinose, Ikuo, 93k:81267**
Melzer, Ezer *see* **Klassen, Timothy R., 93b:81254**
Miller, Dean (*with* Milton, Kimball A.; Siegemund-Broka, Stephan) Finite-element quantum electrodynamics: canonical formulation, unitarity, and the magnetic moment of the electron. **93c:81267**
Milton, Kimball A. *see* **Miller, Dean; et al., 93c:81267**
Mukaida, Hisamitsu *see* **Ichinose, Ikuo, 93g:81152**
Muraskin, M. Computer two-dimensional maps of loop soliton lattice systems using the new approach to the no integrability aesthetic field equations. **93c:81252**
O'Carroll, Michael L. (*with* Pereira, Emmanuel) A representation for the generating and correlation functions in the block field renormalization group formalism and asymptotic freedom. (English summary) **93i:81156**
— *see also* **Bałaban, Tadeusz; et al., 93f:81093**
Ooguri, Hirosi Topological lattice models in four dimensions. (English summary) **93h:57031**
Orland, Peter Fermionic strings and the exact solution of edge models in three dimensions. **93i:82019**
— Exact solution of a quantum gauge magnet in $2 + 1$ dimensions. **93d:82024**
Panigrahi, Prasanta K. *see* **Lina, Jean-Marc, 93i:81192**
Pereira, Emmanuel *see* **O'Carroll, Michael L., 93i:81156**
Pesando, I. *see* **Cassi, D., 93c:82074**
Porsezian, K. (*with* Daniel, Muthiah; Lakshmanan, M.) On the integrability aspects of the one-dimensional classical continuum isotropic biquadratic Heisenberg spin chain. **93c:82022**
Rittenberg, Vladimir *see* **Baranowski, D.; et al., 93c:81192**
Salmhofer, M. (*with* Seiler, Erhard) Erratum: "Proof of chiral symmetry breaking in strongly coupled lattice gauge theory" [Comm. Math. Phys. **139** (1991), no. 2, 395–432; MR 92g:81079]. **93c:81077**
Schor, Ricardo *see* **Bałaban, Tadeusz; et al., 93f:81093**
Schütz, G. *see* **Baranowski, D.; et al., 93c:81192**
Seiler, Erhard *see* **Salmhofer, M., 93c:81077**
Semenoff, Gordon W. Anyons and Chern-Simons theory: a review. **93c:81100**
Siegemund-Broka, Stephan *see* **Miller, Dean; et al., 93c:81267**
Suris, Yu. B. Algebraic structure of discrete-time and relativistic Toda lattices. **93a:58093**
Tanimura, N. (*with* Tanimura, O.) Recursion relations in U(N) integral in lattice QCD. (English summary) **93m:81156**
Tanimura, O. *see* **Tanimura, N., 93m:81156**
Zabrodin, A. V. Integrable models of field theory and scattering on quantum hyperboloids. **93d:82025**
Zegarliński, Bogusław Dobrushin uniqueness theorem and logarithmic Sobolev inequalities. **93d:58190**
Zhang, Mei Qing Explicit unitary schemes to solve quantum operator equations of motion. **93b:81052**

81T27 Continuum limits

Anderson, Arlen (*with* Myers, Robert C.; Periwal, Vipul) Branched polymers from a double-scaling limit of matrix models. **93b:81196**
Baillie, C. F. (*with* Johnston, Desmond Alexander) Strong self-avoidance and crumpling in random surfaces with extrinsic curvature. **93a:81143**
Bender, Carl M. *see* **Rivers, R. J.; et al., 93h:81097**
Capitani, Stefano Convergence of compact lattice scalar field theory to its continuum limit. **93g:81114**
Chekhov, L. (*with* Makeenko, Yu. M.) The multicritical Kontsevich-Penner model. **93i:81176**
Coker, David A. Use of projectors for integrable models of quantum field theory. (English summary) **93i:81177**
Dalley, Simon The Weingarten model à la Polyakov. **93c:81156**
— (*with* Johnson, Clifford V.; Morris, Tim R.; Wätterstam, Anders) Unitary matrix models and 2D quantum gravity. (English summary) **93j:81075**
Di Vecchia, Paolo (*with* Kato, Mitsuhiro; Ohta, Nobuyoshi) Double scaling limit in O(N) vector models in D dimensions. **93b:81197**
Fendley, Paul Excited-state thermodynamics. **93k:81162**
Imbimbo, Camillo (*with* Mukhi, Sunil) String field theory in minimal model backgrounds and nonperturbative two-dimensional gravity. **93h:81096**
It-s, A. R. (*with* Kitaev, A. V.) The continuum limit in the Hermitian Φ^6 matrix model. (Russian. English summary) **93b:81198**
Johnson, Clifford V. *see* **Dalley, Simon; et al., 93j:81075**
Johnston, Desmond Alexander *see* **Baillie, C. F., 93a:81143**
Kato, Mitsuhiro *see* **Di Vecchia, Paolo; et al., 93b:81197**

Kikukawa, Yoshio Chiral symmetry and operator mixing in lattice SU(N) Thirring model with shift symmetry. **93b:81199**
Kitaev, A. V. *see* **It·s, A. R., 93b:81198**
Kostov, Ivan K. Gauge invariant matrix model for the $\hat{A}$-$\hat{D}$-$\hat{E}$ closed strings. (English summary) **93k:81163**
Li, Wen Zhu Lattice approach of the antiferromagnetic Heisenberg model in 2 + 1 dimensions and the Hopf Chern-Simons terms. **93i:81178**
Makeenko, Yu. M. *see* **Chekhov, L., 93i:81176**
Marshakov, A. V. (*with* Mironov, A. D.; Morozov, A. Yu.) From Virasoro constraints in Kontsevich's model to $\mathscr{W}$-constraints in two-matrix models. **93i:81179**
Mironov, A. D. *see* **Marshakov, A. V.; et al., 93i:81179**
Moore, Gregory W. Double-scaled field theory at $c = 1$. **93c:81157**
Morozov, A. Yu. *see* **Marshakov, A. V.; et al., 93i:81179**
Morris, Tim R. *see* **Dalley, Simon; et al., 93j:81075**
Mukhi, Sunil *see* **Imbimbo, Camillo, 93h:81096**
Myers, Robert C. *see* **Anderson, Arlen; et al., 93b:81196**
Ohta, Nobuyoshi *see* **Di Vecchia, Paolo; et al., 93b:81197**
Periwal, Vipul *see* **Anderson, Arlen; et al., 93b:81196**
Petropoulos, P. M. S. New critical behaviors for one-Hermitian-matrix models. **93c:81158**
Rivers, R. J. (*with* Wong, Chi Chung; Bender, Carl M.) Derivative expansions for affinely quantized field theories. II. Scale-invariant quantization. **93h:81097**
Saadi, Maha (*with* Zemba, Guillermo) The cubic matrix model with imaginary coupling and 2D gravity. **93a:81144**
Schnitzer, Howard J. Concerning the double scaling limit in the O(N) vector model in four dimensions. (English summary)
Semikhatov, A. M. Matrix models without matrices: from integrable hierarchies to recursion relations. **93b:81200**
Sil'vestrov, P. G. 2D gravity from a 1D matrix model. Double scaling limit. **93a:81145**
Smirnov, F. A. A comment on A. B. Zamolodchikov's paper concerning self-avoiding polymers: "Exact S-matrix associated with self-avoiding polymer problem in two dimensions" [Modern Phys. Lett. A **6** (1991), no. 19, 1807–1813; MR 92f:81126]. **93e:81086**
Wätterstam, Anders *see* **Dalley, Simon; et al., 93j:81075**
Wong, Chi Chung *see* **Rivers, R. J.; et al., 93h:81097**
Yan, Mu Lin *see* **Zhao, Hong Kang, 93g:81115**
(Zamolodchikov, Aleksandr B.) *see* **Smirnov, F. A., 93e:81086**
Zemba, Guillermo *see* **Saadi, Maha, 93a:81144**
Zhao, Hong Kang (*with* Yan, Mu Lin) The energy-spin Green function of Ising quantum field theory in small external magnetic fields for $T > T_c$. (English summary) **93g:81115**
Zhou, Yu Kui A quantum relativistic integrable model as the continuous limit of the six-vertex model. **93b:81201**
Zwanziger, Daniel Critical limit of lattice gauge theory. **93a:81146**

Items with secondary classifications in 81T27

de Alwis, S. P. *see* **Cohn, J. D., 93c:81200**
Anagnostopoulos, Konstantinos N. (*with* Bowick, Mark J.; Schwarz, Albert) The solution space of the unitary matrix model string equation and the Sato Grassmannian. (English summary) **93m:58046**
Anderson, Arlen Symmetric space two-matrix models. (English summary) **93h:81104**
Askeri, V. M. (*with* Bugrii, A. I.; Shadura, V. N.) The effect of boundary conditions on the operator content of the two-dimensional Ising model: the results of an exact solution. (Russian. English, Russian and Ukrainian summaries) **93i:82010**
Avan, Jean Generalized Toda and Volterra models. (English summary) **93i:81205**
Bazhanov, V. V. (*with* Reshetikhin, N. Yu.) Scattering amplitudes in offcritical models and RSOS integrable models. **93i:82029**
Ben-Menahem, Shahar $D = 0$ matrix model as conjugate field theory. (English summary) **93j:81085**
Bershadskii, M. A. (*with* Kutasov, David) Scattering of open and closed strings in 1 + 1 dimensions. (English summary) **93k:81166**
Bonora, L. (*with* Xiong, Chuan Sheng) An alternative approach to KP hierarchy in matrix models. **93h:81109**
Borgs, Christian (*with* Imbrie, John Z.) Finite-size scaling and surface tension from effective one-dimensional systems. **93i:82040**
Bowick, Mark J. (*with* Marinari, Enzo) Quantum gravity, random geometry and critical phenomena. (English summary) **93i:83043**
— *see also* **Anagnostopoulos, Konstantinos N.; et al., 93m:58046**
Brézin, Édouard (*with* Hikami, Shinobu) A naive matrix-model approach to 2D quantum gravity coupled to matter of arbitrary central charge. **93c:81194**
Bugrii, A. I. *see* **Askeri, V. M.; et al., 93i:82010**
Bulatov, D. V. (*with* Kazakov, Vladimir Aleksandrovich[1]) Vortex-antivortex sector of one-dimensional string theory via the upside-down matrix oscillator. **93k:81194**
Capel, Hans W. *see* **Nijhoff, F. W.; et al., 93h:58076**
Cohn, J. D. (*with* de Alwis, S. P.) String field theory for $d \leq 1$ matrix models. **93c:81200**
Cooper, Adrian (*with* Susskind, Leonard; Thorlacius, Lárus) Two-dimensional quantum cosmology. **93c:83048**
Dalley, Simon (*with* Johnson, Clifford V.; Morris, Tim R.) Multicritical complex matrix models and nonperturbative two-dimensional quantum gravity. **93g:81143**
— (*with* Johnson, Clifford V.; Morris, Tim R.) Nonperturbative two-dimensional quantum gravity. **93g:81144**
DeWitt, Bryce S. *see* **deLyra, Jorge L.; et al.**
Di Francesco, Ph. Integrable lattice models, graphs and modular invariant conformal field theories. **93d:82027**
Duplantier, Bertrand Statistical mechanics on a 2D-random surface. (English summary) **93e:82001**
Eynard, B. (*with* Zinn-Justin, Jean) The O(n) model on a random surface: critical points and large-order behaviour. (English summary) **93k:81201**
Foong, See Kit *see* **deLyra, Jorge L.; et al.**
Fröjdh, Per (*with* Johannesson, Henrik) The two-dimensional tricritical Ising model in restricted domains with free boundaries. **93e:81107**
Fujii, Kazuyuki A relation between instantons of Grassmann σ-models and Toda equations. II. (English summary) **93k:58113**
Griffin, Paul A. Transverse lattice construction of 2 + 1 Chern-Simons theory. **93b:81143**
Hari Dass, N. D. Random surfaces. (*see* **93h:81001**)
Hasenfratz, P. (*with* Niedermayer, F.) Exact mass gap and the thermodynamic Bethe ansatz for the O(N) σ-model. (*see* **93f:81005**)
Hikami, Shinobu *see* **Brézin, Édouard, 93c:81194**
Hollowood, Timothy J. (*with* Miramontes, J. Luis; Pasquinucci, Andrea; Nappi, Chiara R.) Hermitian versus anti-Hermitian one-matrix models and their hierarchies. **93e:81111**
Ichinose, Ikuo (*with* Mukaida, Hisamitsu) The U(1) gauge-Higgs model in two dimensions and topological field theory. **93g:81152**
Imbrie, John Z. *see* **Borgs, Christian, 93i:82040**
Johannesson, Henrik *see* **Fröjdh, Per, 93e:81107**
Johnson, Clifford V. *see* **Dalley, Simon; et al., 93g:81143** *and* **93g:81144**
Kawai, Hikaru Quantum gravity and random surfaces. (English summary) **93g:81156**
Kazakov, Vladimir Aleksandrovich[1] *see* **Bulatov, D. V., 93k:81194**
Koubek, A. Interpretation of IRF models as scattering amplitudes of perturbed conformal field theories. **93d:82035**
Kumar, Alok[2] (*with* Maharana, Jnanadeva) Tetracritical Ising model coupled to the two-dimensional gravity. (English summary) **93i:81239**
Kutasov, David *see* **Bershadskii, M. A., 93k:81166**
deLyra, Jorge L. (*with* DeWitt, Bryce S.; Foong, See Kit; et al.) The quantized $O(1,2)/O(2) \times Z_2$ sigma model has no continuum limit in four dimensions. I. Theoretical framework. (English summary)
Maharana, Jnanadeva *see* **Kumar, Alok[2], 93i:81239**
Marinari, Enzo *see* **Bowick, Mark J., 93i:83043**
Marzban, Caren (*with* Viswanathan, R. Raju) Matrix models with $\gamma_{\text{string}} > 0$. **93b:81261**
Miramontes, J. Luis (*with* Sánchez Guillén, Joaquín) Universality and nonperturbative definitions of 2D quantum gravity from matrix models. (English summary) **93k:81215**
— *see also* **Hollowood, Timothy J.; et al., 93e:81111**
Morozov, A. Yu. Pair correlator in the Itzykson-Zuber integral. (English summary) **93h:58021**
Morris, Tim R. *see* **Dalley, Simon; et al., 93g:81143** *and* **93g:81144**
Mukaida, Hisamitsu *see* **Ichinose, Ikuo, 93g:81152**
Nappi, Chiara R. *see* **Hollowood, Timothy J.; et al., 93e:81111**
Niedermayer, F. *see* **Hasenfratz, P., (93f:81005)**
Nijhoff, F. W. (*with* Papageorgiou, V. G.; Capel, Hans W.) Integrable time-discrete systems: lattices and mappings. **93h:58076**
Ooguri, Hirosi Topological lattice models in four dimensions. (English summary) **93h:57031**
Orland, Peter Fermionic strings and the exact solution of edge models in three dimensions. **93i:82019**
— Six-vertex models as Fermi gases. **93j:82026**
Papageorgiou, V. G. *see* **Nijhoff, F. W.; et al., 93h:58076**
Pasquinucci, Andrea *see* **Hollowood, Timothy J.; et al., 93e:81111**
Reshetikhin, N. Yu. *see* **Bazhanov, V. V., 93i:82029**
Saleur, H. (*with* Zuber, J.-B.) Integrable lattice models and quantum groups. **93m:82009**
Sánchez Guillén, Joaquín *see* **Miramontes, J. Luis, 93k:81215**
Schwarz, Albert *see* **Anagnostopoulos, Konstantinos N.; et al., 93m:58046**
Shadura, V. N. *see* **Askeri, V. M.; et al., 93i:82010**
Smit, Dirk-Jan Summations over equilaterally triangulated surfaces and the critical string measure. **93k:14035**
Suranyi, P. Critical behavior from Schrödinger representation. **93g:81082**
Susskind, Leonard *see* **Cooper, Adrian; et al., 93c:83048**
Takasaki, Kanehisa (*with* Takebe, Takashi) SDiff(2) Toda equation—hierarchy, tau function, and symmetries. **93c:58094**
Takebe, Takashi *see* **Takasaki, Kanehisa, 93c:58094**
Thorlacius, Lárus *see* **Cooper, Adrian; et al., 93c:83048**
Viswanathan, R. Raju *see* **Marzban, Caren, 93b:81261**
Xiong, Chuan Sheng *see* **Bonora, L., 93h:81109**
Zhou, Yu Kui From inhomogeneous six-vertex lattice models to continuum quantum integrable models. (English summary) **93k:82023**
Zinn-Justin, Jean *see* **Eynard, B., 93k:81201**
Zuber, J.-B. *see* **Saleur, H., 93m:82009**

81T30 String and superstring theories; other extended objects [see also 83E30]

Abdalla, Elcio Thirring strings: use of generalized nonabelian bosonization techniques. (*see* **93e:81005**)
— (*with* Abdalla, M. C. B.; Dalmazi, D.; Harada, Koji) Correlation functions in noncritical (super) string theory. (English summary)
— (*with* Abdalla, M. C. B.; Dalmazi, D.) On the amplitudes for noncritical $N = 2$ superstrings. (English summary) **93f:81100**
Abdalla, M. C. B. *see* **Abdalla, Elcio; et al., 93f:81100**
Abel, S. A. Thermodynamic determination of the string vacuum? **93e:81087**
Ahmed, M. A. Curved-spacetime graviton vertex operator in string theory. (English summary) **93j:81076**
Aldazabal, G. (*with* Allekotte, I.; Font, Anamaría; Núñez, Carmen A.) $N = 2$ coset compactifications with nondiagonal invariants. (English summary) **93i:81180**
Alford, Mark G. (*with* Lee, Kai-Ming; March-Russell, John; Preskill, John) Quantum field theory of nonabelian strings and vortices. (English summary) **93j:81077**
Allekotte, I. *see* **Aldazabal, G.; et al., 93i:81180**
Alvarez-Gaumé, Luis Random surfaces, statistical mechanics and string theory. **93d:81131**
Ambjørn, Jan Regularized quantum gravity and string theory. (English summary) **93f:81101**
Ananthanarayan, B. A superstring model with R symmetries and low B-L breaking. (English summary) **93f:81102**
Antoniadis, Ignatios (*with* Gava, E.; Narain, K. S.) Moduli corrections to gauge and gravitational couplings in four-dimensional superstrings. (English summary) **93i:81181**

— (*with* Rizos, J.; Tamvakis, K.) Gauge symmetry breaking in the hidden sector of the flipped SU(5) × U(1) superstring model. **93a:81147**
— (*with* Gava, E.; Narain, K. S.) Moduli corrections to gravitational couplings from string loops. **93c:81159**
Aoyama, Shogo (*with* Pasti, P.; Tonin, M.) The GS and NRS heterotic strings from twistor-string models. **93j:81078**
Arefʹeva, I. Ya. Physics at the Planck length and p-adic field theories. **93d:81132**
— (*with* Zubarev, A. P.) Semi-free field representation and string field theory in 2D gravity. **93c:81160**
Argyres, Philip C. (*with* Lyman, Edwin; Tye, S.-H. Henry) Low-lying states of the six-dimensional fractional superstring. (English summary) **93i:81182**
Aurilia, Antonio (*with* Spallucci, Euro) The role of extended objects in particle theory and in cosmology. (*see* **93g:81003**)
— (*with* Spallucci, Euro) Axionic membranes. **93b:81202**
Avan, Jean Integrability properties of the collective string field theory. (*see* **93h:81002**)
— (*with* Jevicki, Antal) Algebraic structures and eigenstates for integrable collective field theories. (English summary) **93i:81183**
— (*with* Jevicki, Antal) String field actions from W_∞. **93a:81148**
Awada, M. A. The supersymmetric modified KdV hierarchy and nonperturbative spinning string theory in less than one dimension. **93e:81088**
Bailin, David (*with* Dunbar, David C.; Love, Alex) Generations in irreducible $N = 2$ superconformal coset theories. **93e:81089**
— (*with* Love, Alex) Matter field Kähler potentials for $Z_3 \times Z_3$ and Z_3 orbifold theories. (English summary) **93i:81184**
— (*with* Love, Alex; Sabra, W. A.) Twisted sector Yukawa couplings for the $Z_3 \times Z_3$ orbifold. (English summary) **93k:81164**
— (*with* Love, Alex) Errata: "Fractional charged color singlet states and string unification" [Modern Phys. Lett. A 7 (1992), no. 16, 1485–1495]. —
— (*with* Love, Alex) String unification and extra matter multiplets below the string scale. **93b:81203**
— (*with* Love, Alex) String unification in $Z_3 \times Z_3$ orbifold models. **93d:81133**
— (*with* Love, Alex) Kähler potentials for twisted sectors of Z_N orbifolds. (English summary) **93j:81079**
Balachandran, A. P. (*with* McGlinn, W. D.; O'Raifeartaigh, Lochlainn; Sen, Siddhartha[1]; Sorkin, R. D.; Srivastava, A. M.) Topological spin-statistics theorems for strings. **93g:81116**
Bandos, I. A. (*with* Zheltukhin, A. A.) Green-Schwarz superstrings in spinor moving frame formalism. (English summary) **93g:81117**
Banks, Thomas String phenomenology. (*see* **93e:81005**)
Barcelos-Neto, J. (*with* Srivastava, P. P.) Chiral bosons with Green-Schwarz supersymmetry. **93a:81149**
— (*with* Santos, D. S.) Effective Lagrangians for points, strings and membranes from the BFV formalism. **93d:81134**
Barrabès, Claude *see* **Boisseau, Bruno, 93g:81121**
Bars, Itzhak Membrane symmetries and anomalies. (*see* **93g:81003**)
— Issues of topology and the spectrum of membranes. (*see* **93g:81003**)
— (*with* Sfetsos, Konstadinos) Generalized duality and singular strings in higher dimensions. **93g:81118**
— (*with* Sfetsos, Konstadinos) Global analysis of new gravitational singularities in string and particle theories. (English summary) **93g:81119**
Barut, Asim Orhan Membranes, strings, extended elementary particles as singularities of fields. (*see* **93g:81003**)
— (*with* Pavšič, M.) A covariant canonical decomposition of the bosonic and spinning extended objects with electric charge. **93b:81204**
Berglund, Per (*with* Greene, Brian R.; Hübsch, Tristan) Classical vs. Landau-Ginzburg geometry of compactification. **93g:81120**
Berkovits, Nathan The heterotic Green-Schwarz superstring on an $N = (2, 0)$ super world-sheet. **93c:81161**
— (*with* Hatsuda, Machiko; Siegel, Warren) The big picture. **93d:81135**
— Lorentz-covariant Green-Schwarz superstring amplitudes. (English summary)
Bern, Zvi (*with* Kosower, David A.) The computation of loop amplitudes in gauge theories. **93k:81165**
Bershadskiĭ, M. A. (*with* Kutasov, David) Scattering of open and closed strings in 1 + 1 dimensions. (English summary) **93k:81166**
— (*with* Lerche, W.; Nemeschansky, D.; Warner, N. P.) A BRST operator for noncritical W-strings. (English summary) **93i:81185**
Bianchi, Massimo (*with* Pradisi, G.; Sagnotti, A.) Toroidal compactification and symmetry breaking in open-string theories. **93e:81090**
Bieńkowska, Jadwiga (*with* Lu, H.) A note on $N = 2$ superstrings. (English summary) **93k:81167**
— The generalized no-ghost theorem for $N = 2$ SUSY critical strings. **93d:81136**
Boisseau, Bruno (*with* Barrabès, Claude) Minimal surfaces in symmetric spaces and dynamics of membranes in nonabelian gauge fields. **93g:81121**
Bozhilov, P. (*with* Stoilov, M.) Critical dimension for a restricted bosonic string. (English summary) **93k:81168**
Brooks, Roger Relating scattering amplitudes in bosonic and topological string theories. (English summary) **93f:81103**
Brown, Robert W. (*with* Rains, Eric M.; Taylor, Cyrus C.) Harmonic analysis of the relativistic string in spinorial coordinates. **93c:81162**
Bugajska, Krystyna M. Some properties of P-lines. **93i:81186**
Bulatov, D. V. (*with* Kazakov, Vladimir Aleksandrovich[1]) One-dimensional string theory with vortices as the upside-down matrix oscillator. (English summary) **93k:81169**
— Infinite-tension strings at $d > 1$. (English summary) **93k:81170**
Bytsenko, A. A. (*with* Elizalde, E.; Odintsov, S. D.; Zerbini, Sergio) A finite temperature periodic structure in (super)string theory. (English summary) **93m:81113**
— *see also* **Likhttsier, I. M.; et al., 93a:81155**
Callan, Curtis G., Jr. (*with* Harvey, Jeffrey A.; Strominger, Andrew) Worldbrane actions for string solitons. **93b:81205**
Casas, J. A. (*with* Gómez Rodríguez, Faustino; Muñoz, Carlos) Complete structure of Z_n Yukawa couplings. (English summary) **93k:81171**
Castellani, Leonardo Group-geometric methods in supergravity and superstring theories. **93a:81150**
Castro, Carlos The spinning membrane, super-SU(∞)-gauge theories and Moyal brackets. **93d:81137**
Cecotti, Sergio (*with* Vafa, Cumrun) Massive orbifolds. **93d:81138**
Chamseddine, A. H. A study of noncritical strings in arbitrary dimensions. **93c:81163**
Chikalov, V. (*with* Pashnev, A.) Twistor-like type II superstring and bosonic string. (English summary) **93m:81114**
Cohn, J. D. (*with* Periwal, Vipul) $c \leq 25$ noncritical strings. **93b:81206**
Collins, Graham P. (*with* Weisberger, William I.) Surface quadrupling and regularized off-shell amplitudes for unoriented, open, bosonic strings. **93e:81091**
Colomo, F. (*with* Lusanna, Luca) Wigner theory of the Nambu string. II. The closed string. (English summary) **93k:81172**
Cristofano, Gerardo (*with* Marotta, Raffaele; Roland, Kaj) Unitarity and normalization of string amplitudes. (English summary) **93k:81173**
Dalley, Simon On loop equations in KdV exactly solvable string theory. **93b:81207**
Dalmazi, D. *see* **Abdalla, Elcio; et al., 93f:81100**
Danielsson, Ulf H. Symmetries and special states in two-dimensional string theory. (English summary) **93m:81115**
Das, Sumit R. (*with* Dhar, Avinash; Rama, S. Kalyana) Physical states and scaling properties of W gravities and W strings. **93c:81164**
Delduc, François (*with* Sokatchev, E. S.) Superparticle with extended worldline supersymmetry. **93b:81208**
— (*with* Ivanov, Evgeniĭ Alekseevich[2]; Sokatchev, E. S.) Twistor-like superstrings with $D = 3, 4, 6$ target superspace and $N = (1, 0), (2, 0), (4, 0)$ world-sheet supersymmetry. (English summary) **93f:81104**
Demeterfi, Krešimir (*with* Jevicki, Antal; Rodrigues, João P.) Scattering amplitudes and loop corrections in collective string field theory. II. **93a:81151**
Dëmichev, A. P. (*with* Iofa, M. Z.) Superharmonic gauge in string theory and double supersymmetric σ-model. **93g:81122**
Deo, Nivedita (*with* Jain, Sanjay[2]; Narayan, Onuttom; Tan, Chung I) Effect of topology on the thermodynamic limit for a string gas. **93a:81152**
Dhar, Avinash (*with* Mandal, Gautam; Wadia, Spenta R.) Nonrelativistic fermions, coadjoint orbits of W_∞ and string field theory at $c = 1$. (English summary) **93f:81105**
— (*with* Mandal, Gautam; Wadia, Spenta R.) Classical Fermi fluid and geometric action for $c = 1$. (English summary) **93k:81174**
— *see also* **Das, Sumit R.; et al., 93c:81164**
Dienes, Keith R. (*with* Tye, S.-H. Henry) Model-building for fractional superstrings. **93f:81106**
Di Francesco, Ph. (*with* Kutasov, David) World-sheet and space-time physics in two-dimensional (super)string theory. **93b:81209**
Dijkgraaf, Robbert (*with* Verlinde, Herman; Verlinde, Erik) String propagation in a black hole geometry. **93e:81092**
Dine, Michael Compactification of superstrings. **93e:81093**
Distler, Jacques (*with* Nelson, Philip) New discrete states of strings near a black hole. **93h:81098**
— (*with* Doyle, Mark D.) World-sheet supersymmetry without contact terms. (English summary) **93g:81123**
Dolan, L. (*with* Liu, James T.) Running gauge couplings and thresholds in the type-II superstring. (English summary)
Dorn, H. (*with* Otto, H.-J.) On correlation functions for noncritical strings with $c \leq 1$ but $d \geq 1$. (English summary) **93f:81107**
Doyle, Mark D. Dilaton contact terms in the bosonic and heterotic strings. (English summary) **93m:81116**
— *see also* **Distler, Jacques, 93g:81123**
Dubin, A. Yu. Path-integral quantization of the straight-line string. (Russian) **93k:81175**
Duff, M. J. (*with* Lu, Jian Xin) Duality for strings and membranes. (*see* **93g:81003**)
— (*with* Lu, Jian Xin) A duality between strings and 5-branes. **93b:81210**
Dunbar, David C. *see* **Bailin, David; et al., 93e:81089**
Elizalde, E. *see* **Bytsenko, A. A.; et al., 93m:81113**
Ellis, Jonathan Richard Four-dimensional string model-building. (*see* **93a:81004**)
— (*with* Mavromatos, N. E.; Nanopoulos, D. V.) On the connection between quantum mechanics and the geometry of two-dimensional strings. **93b:81211**
— (*with* Mavromatos, N. E.; Nanopoulos, D. V.) Measuring W-hair. **93c:81165**
— (*with* Mavromatos, N. E.; Nanopoulos, D. V.) Measuring the W-hair of string black holes. **93c:81166**
— (*with* Mavromatos, N. E.; Nanopoulos, D. V.) String theory modifies quantum mechanics. (English summary) **93i:81187**
Engberg, Niclas (*with* Nilsson, Bengt E. W.; Sundell, Per) On the use of dual Reggeon vertices for untwisted and twisted scalar fields. (English summary) **93c:81167**
Erler, J. (*with* Jungnickel, Dirk; Lauer, J.; Mas, Javier) String emission from twisted sectors: cocycle operators and modular background symmetries. (English summary) **93h:81099**
Evans, Mark (*with* Giannakis, Ioannis) Isolated states and the classical phase space of 2D string theory. **93c:81168**
Fairlie, David B. (*with* Govaerts, Jan) Universal field equations with reparametrisation invariance. **93b:81212**
Feinberg, Joshua String field theory for $d \leq 0$ matrix models via Marinari-Parisi. **93b:81213**
Ferrara, Sergio Space-time duality and gaugino condensation in superstring theory. (*see* **93a:81004**)
Filippov, A. T. (*with* Gangopadhyay, Debashis; Isaev, A. P.) Discrete "strings" and gauge model of three confined relativistic particles. **93k:81176**
Font, Anamaría *see* **Aldazabal, G.; et al., 93i:81180**
Foot, R. (*with* Joshi, G. C.) Symmetries of certain physical theories and the Jordan algebras. **93c:81169**
Förste, Stefan Generalized conformal invariance conditions on a sigma model of the open bosonic string including the first massive mode. **93a:81153**
— String amplitudes in arbitrary dimensions. (English summary) **93f:81108**
Fradkin, E. S. (*with* Linetskiĭ, V. Ya.) On the anti-de Sitter quantum (super)strings. **93f:81109**

Fujisaki, H. Comments on the thermal Virasoro amplitude. **93g:81124**
Gal'perin, A. S. (*with* Howe, P. S.; Stelle, K. S.) The superparticle and the Lorentz group. **93c:81170**
Gandhi, S. K. Fixing the light-cone gauge. (*see* **93g:81003**)
Gangopadhyay, Debashis *see* **Filippov, A. T.; et al., 93k:81176**
García-Bellido, Juan (*with* Quirós, Mariano) String effective actions and cosmological stability of scalar potentials. (English summary) **93m:81117**
Gates, S. James, Jr. (*with* Nishino, Hitoshi; Oerter, Robert N.) The first-ilk superparticle in second-order Lagrangian and backgrounds. **93b:81214**
Gava, E. *see* **Antoniadis, Ignatios; et al., 93c:81159** *and* **93i:81181**
Gepner, Doron Lectures on $N = 2$ string theory. **93e:81094**
— On the algebraic structure of $N = 2$ string theory. **93b:81215**
Ghoshal, Debashis (*with* Sen, Ashoke) Gauge and general coordinate invariance in nonpolynomial closed string field theory. (English summary) **93j:81080**
Giannakis, Ioannis *see* **Evans, Mark, 93c:81168**
Giveon, Amit (*with* Shapere, Alfred) Gauge symmetries of the $N = 2$ string. (English summary) **93k:81177**
Gómez Rodríguez, Faustino *see* **Casas, J. A.; et al., 93k:81171**
Govaerts, Jan Does duality survive background fields? (English summary)
— *see also* **Fairlie, David B., 93b:81212**
Green, Michael B. Point-like structure in string theory. (*see* **93h:81003**)
— Temperature dependence of string theory in the presence of world-sheet boundaries. **93c:81171**
Greene, Brian R. *see* **Berglund, Per; et al., 93g:81120**
Grigore, D. R. Manifest covariance condition in the Hamiltonian theory of relativistic strings. (English summary) **93g:81125**
— A derivation of the Nambu-Goto action from invariance principles. **93e:81095**
Gross, David J. Nonperturbative string theory. **93c:81172**
Güven, R. Supermembranes on black holes. (*see* **93g:81003**)
Harada, Koji *see* **Abdalla, Elcio; et al.**
Harvey, Jeffrey A. *see* **Callan, Curtis G., Jr.; et al., 93b:81205**
Hassan, S. F. (*with* Sen, Ashoke) Twisting classical solutions in heterotic string theory. **93b:81216**
Hata, Hiroyuki (*with* Maeno, Masahiro) General covariance in pre-geometrical string field theory. **93b:81217**
— Jacobi identity anomaly in closed string field theory. **93d:81139**
Hatsuda, Machiko *see* **Berkovits, Nathan; et al., 93d:81135**
Henneaux, Marc (*with* Teitelboim, Claudio) Consistent quantum mechanics of chiral p-forms. (*see* **93e:81005**)
Hořava, Petr Some exact solutions of string theory in four and five dimensions. **93f:81110**
Horne, James H. (*with* Horowitz, Gary T.) Exact black string solutions in three dimensions. **93d:81140**
— (*with* Horowitz, Gary T.; Steif, Alan R.) An equivalence between momentum and charge in string theory. **93b:81218**
Horowitz, Gary T. *see* **Horne, James H.; et al., 93b:81218** *and* **93d:81140**
Howe, P. S. (*with* Townsend, P. K.) Supermembranes and the modulus space of $d = 4$ superstrings. (*see* **93g:81003**)
— *see also* **Gal'perin, A. S.; et al., 93c:81170**
Hübsch, Tristan *see* **Berglund, Per; et al., 93g:81120**
Imbimbo, Camillo (*with* Mahapatra, Swapna; Mukhi, Sunil) Construction of physical states of nontrivial ghost number in $c < 1$ string theory. **93k:81178**
Iofa, M. Z. *see* **Dëmichev, A. P., 93g:81122**
Isaev, A. P. *see* **Filippov, A. T.; et al., 93k:81176**
Isberg, J. (*with* Lindström, U.; Sundborg, B.) Space-time symmetries of quantized tensionless strings. (English summary) **93i:81188**
Itoh, Yukihisa (*with* Tanii, Yoshiaki) Schwinger-Dyson equations of matrix models for open and closed strings. (English summary) **93f:81111**
Ivanov, Evgenii Alekseevich² (*with* Kapustnikov, A. A.) Gauge-covariant Wess-Zumino actions for super p-branes in superspace. **93c:81173**
— *see also* **Delduc, François; et al., 93f:81104**
Jain, Sanjay² *see* **Deo, Nivedita; et al., 93a:81152**
Jaskólski, Zbigniew The Polyakov path integral over bordered surfaces. II. The closed string off-shell amplitudes. **93j:81081**
— The Polyakov path integral over bordered surfaces. III. The BRST extended closed string off-shell amplitudes. **93j:81082**
Jevicki, Antal Nonperturbative collective field theory. **93f:81112**
— *see also* **Avan, Jean, 93a:81148**; **Demeterfi, Krešimir; et al., 93a:81151** *and* **Avan, Jean, 93i:81183**
Joshi, G. C. *see* **Foot, R., 93c:81169**
Jungnickel, Dirk *see* **Erler, J.; et al., 93h:81099**
Kalara, S. (*with* Lopez, Jorge L.; Nanopoulos, D. V.) Modular invariance and nonrenormalizable interactions. (English summary) **93c:81174**
Kaplunovsky, Vadim S. Erratum: "One-loop threshold effects in string unification" [Nuclear Phys. B **307** (1988), no. 1, 145–156; MR 89f:81254]. **93g:81126**
Kapustnikov, A. A. *see* **Ivanov, Evgenii Alekseevich², 93c:81173**
Kar, Supriya K. (*with* Khastgir, S. Pratik; Kumar, Alok²) An algorithm to generate classical solutions of string effective action. **93b:81219**
Karliner, Marek *see* **Susskind, Leonard; et al.,** (**93e:81005**)
Katsumi, Itoh Partially broken rigid supersymmetry on world-volume in super p-brane theories. (*see* **93g:81003**)
Kavalov, Al. R. Extrinsic geometry sensitive bosonic string theory. (Russian) **93i:81189**
Kazakov, Vladimir Aleksandrovich¹ (*with* Kostov, Ivan K.) Loop gas model for open strings. (English summary) **93m:81118**
— *see also* **Bulatov, D. V., 93k:81169**
Khastgir, S. Pratik *see* **Kar, Supriya K.; et al., 93b:81219**
Khuri, Ramzi R. Monopoles and instantons in string theory. (English summary) **93g:81127**
Kitazawa, Yoshihisa Random surfaces and the Liouville theory. **93e:81096**
Klebanov, Igor R. *see* **Susskind, Leonard; et al.,** (**93e:81005**)
Klinkhamer, Frans R. General covariance and strings. (*see* **93a:00022**)
Kogan, Ya. I. Quantum versus continuum spectrum of compactification radius in string theory. **93c:81175**
Kosower, David A. *see* **Bern, Zvi, 93k:81165**
Kostov, Ivan K. Strings with discrete target space. **93i:81190**
— (*with* Staudacher, Matthias) Multicritical phases of the O(n) model on a random lattice. (English summary) **93k:81179**
— *see also* **Kazakov, Vladimir Aleksandrovich¹, 93m:81118**
Kotikov, A. V. A new method of calculating massive Feynman diagrams; vertex-type functions. **93k:81180**
Kugo, Taichiro (*with* Zwiebach, Barton) Target space duality as a symmetry of string field theory. **93i:81191**
Kumar, Alok² Gauged string actions and O($\tilde{d}, \tilde{d}$) transformation. (English summary) **93m:81119**
— *see also* **Kar, Supriya K.; et al., 93b:81219**
Kutasov, David *see* **Di Francesco, Ph., 93b:81209** *and* **Bershadskii, M. A., 93k:81166**
Kuusk, P. The Brink-Schwarz superparticle and octonions. (Russian summary) **93a:81154**
La, HoSeong Sine-Gordon solitons as heterotic fivebranes. (English summary) **93f:81113**
Larsen, A. L. A note on dispersive versus nondispersive strings. (English summary)
Lauer, J. *see* **Erler, J.; et al., 93h:81099**
LeClair, André q-deformation of SU(1, 1) conformal Ward identities and q-strings. **93d:81141**
Lee, Jen Chi Superconformal deformation, zero-norm states and space-time symmetries of the superstring theories. **93b:81220**
Lee, Kai-Ming *see* **Alford, Mark G.; et al., 93j:81077**
Lerche, W. *see* **Bershadskii, M. A.; et al., 93i:81185**
Li, H. S. (*with* Mahanthappa, K. T.) One-loop threshold correction to the coupling of the antisymmetric tensor field and the Chern-Simons term in string theory. (English summary) **93g:81128**
Likhttsier, I. M. (*with* Odintsov, S. D.; Bytsenko, A. A.) Thermodynamic properties of open noncritical string in external electromagnetic field. **93a:81155**
— *see also* **Odintsov, S. D., 93f:81117**
Lina, Jean-Marc (*with* Panigrahi, Prasanta K.) Lax-pair formulation of the w-gravity theories in two dimensions. (English summary) **93i:81192**
Lindström, U. Weyl-invariance of membranes. (*see* **93g:81003**)
— *see also* **Isberg, J.; et al., 93i:81188**
Linetskii, V. Ya. *see* **Fradkin, E. S., 93f:81109**
Liu, James T. *see* **Dolan, L.**
Lopez, Jorge L. *see* **Kalara, S.; et al., 93c:81174**
Love, Alex *see* **Bailin, David, 93b:81203**; **93d:81133**; **93e:81089**; **93i:81184**; **93j:81079**; **93k:81164**
Lowe, David A. Unitarity relations in $c = 1$ Liouville theory. (English summary)
Lu, H. (*with* Pope, C. N.; Wang, X.-J.; Xu, K. W.) Anomaly freedom and realisations for super-W_3 strings. **93g:81129**
— (*with* Pope, C. N.; Schrans, Stany; Wang, X.-J.) On sibling and exceptional W-strings. **93g:81130**
— (*with* Pope, C. N.; Wang, X.-J.; Xu, K. W.) $N = 2$ superstrings with $(1, 2m)$ spacetime signature. **93c:81176**
— *see also* **Bieńkowska, Jadwiga, 93k:81167**
Lu, Jian Xin *see* **Duff, M. J., 93b:81210** *and* (**93g:81003**)
Lusanna, Luca *see* **Colomo, F., 93k:81172**
Lüst, Dieter (*with* Muñoz, Carlos) Duality-invariant gaugino condensation and one-loop corrected Kähler potentials in string theory. **93a:81156**
Lyman, Edwin *see* **Argyres, Philip C.; et al., 93i:81182**
Lyons, Alex Wormholes in string theory and low energy quantum gravity. **93c:81177**
Maeno, Masahiro *see* **Hata, Hiroyuki, 93b:81217**
Mahanthappa, K. T. *see* **Li, H. S., 93g:81128**
Mahapatra, Swapna *see* **Imbimbo, Camillo; et al., 93k:81178**
Maharana, Jnanadeva Spontaneous symmetry breaking in 4-dimensional heterotic string. (*see* **93a:00022**)
— (*with* Mukherji, Sudipta) Gauge transformations in string field theory and canonical transformations in string theory. **93c:81178**
— Duality and O(d, d) symmetries in string theory. (English summary)
— (*with* Schwarz, John H.) Noncompact symmetries in string theory. (English summary) **93k:81181**
Mandal, Gautam *see* **Dhar, Avinash; et al., 93f:81105** *and* **93k:81174**
March-Russell, John *see* **Alford, Mark G.; et al., 93j:81077**
Marotta, Raffaele *see* **Cristofano, Gerardo; et al., 93k:81173**
Marquard, U. Area-preserving diffeomorphisms SU(N) approximation and supermembrane Lorentz invariance. (*see* **93g:81003**)
Marrakchi, A. L. (*with* Singh, Lambodar Prasad) String dynamics in curved space-time revisited. (English summary) **93i:81193**
Marshakov, A. V. Green functions and causality in string theory. (Russian) (*see* **93d:58002**)
Martellini, Maurizio (*with* Spreafico, M.; Yoshida, Kensuke) On the black hole conformal field theory coupled to the Polyakov's string theory. A nonperturbative analysis. **93f:81114**
Martín-Delgado, M. A. (*with* Ramírez Mittelbrunn, J.) Bordered Riemann surfaces, Schottky groups and off-shell string amplitudes. **93b:81221**
Mas, Javier *see* **Erler, J.; et al., 93h:81099**
Mattos, Octávio A. (*with* Rivelles, Victor O.) Nonperturbative solutions of string theory in gravitational backgrounds. (English summary) **93k:81182**
Mavromatos, N. E. *see* **Ellis, Jonathan Richard; et al., 93b:81211**; **93c:81165**; **93c:81166** *and* **93i:81187**
McGlinn, W. D. *see* **Balachandran, A. P.; et al., 93g:81116**
Merkulov, S. A. Nonperturbative boson string and DiffS^1/SL(2, **R**). (Russian) **93b:81222**
— Nonperturbative Neveu-Schwarz superstring and SuperdiffS^1/OSp(1|2). (Russian) **93b:81223**
Mitra, Parthasarathi Siegel gauge invariance and quantization. (English summary) **93g:81131**
Miyata, Hideo (*with* Ohtsubo, Noriyasu; Sugimoto, Hiroshi) Vertex operators of Kazama-Suzuki models in parafermionic construction. (English summary) **93i:81194**

Mohammedi, Noureddine A large class of space-times from the $SL(2, \mathbf{R})/U(1)$ coset model. (English summary) **93m:81120**
Moore, Gregory W. (*with* Plesser, M. Ronen) Classical scattering in $(1 + 1)$-dimensional string theory. (English summary) **93j:81083**
Morozov, A. Yu. Perturbative methods in string theory. (Russian. English summary) **93h:81100**
Morse, Jack (*with* Schimmrigk, Rolf) Topological phases of the heterotic string. **93d:81142**
Moss, S. A. Two-stage orbifold compactifications of heterotic strings. (English summary) **93i:81195**
Mukherji, Sudipta On the interpolating solutions of string in different backgrounds. **93b:81224**
— *see also* **Maharana, Jnanadeva, 93c:81178**
Mukhi, Sunil *see* **Imbimbo, Camillo; et al., 93k:81178**
Muñoz, Carlos *see* **Lüst, Dieter, 93a:81156** *and* **Casas, J. A.; et al., 93k:81171**
Myers, Robert C. (*with* Periwal, Vipul) Conformally invariant off-shell string physics. (English summary) **93m:81121**
Nanopoulos, D. V. *see* **Ellis, Jonathan Richard; et al., 93b:81211; 93c:81165; 93c:81166; Kalara, S.; et al., 93c:81174** *and* **Ellis, Jonathan Richard; et al., 93i:81187**
Narain, K. S. *see* **Antoniadis, Ignatios; et al., 93c:81159** *and* **93i:81181**
Narayan, Onuttom *see* **Deo, Nivedita; et al., 93a:81152**
Nelipa, N. F. (*with* Pekar, M. Yu.) Topology of space-time as a corollary of the dynamics of closed bosonic strings. I. Zero and first approximations. (Russian) **93c:81179**
— (*with* Pekar, M. Yu.) Topology of space-time as a corollary of the dynamics of closed bosonic strings. II. Second approximation. (Russian) **93f:81115**
— (*with* Pekar, M. Yu.) Space-time topology as a consequence of the dynamics of closed superstrings. (Russian. Russian summary) **93i:81196**
Nelson, Jeanette (*with* Regge, T.) $(2 + 1)$-dimensional quantum gravity. **93i:81197**
Nelson, Philip *see* **Distler, Jacques, 93h:81098**
Nemeschansky, D. *see* **Bershadskii, M. A.; et al., 93i:81185**
Nicolai, H. *see* **de Wit, B., (93g:81003)**
van Nieuwenhuizen, Peter Supermembranes, superstrings, and supergravity. (*see* **93e:81005**)
Nilsson, Bengt E. W. (*with* West, P. C.) String vertices, overlap equations, τ functions and the Hirota equation. **93d:81143**
— *see also* **Engberg, Niclas; et al., 93c:81167**
Nishino, Hitoshi Does heterotic string generate Chern-Simons action in three dimensions? **93c:81180**
— *see also* **Gates, S. James, Jr.; et al., 93b:81214**
Nojiri, Shin'ichi $N = \frac{1}{2}$ superstring in zero dimension and the spontaneous breakdown of the supersymmetry. (English summary) **93i:81198**
Novikov, S. P. Quantization of finite-gap potentials and a nonlinear quasiclassical approximation that arises in nonperturbative string theory. (Russian) **93f:81116**
Núñez, Carmen A. *see* **Aldazabal, G.; et al., 93i:81180**
Odintsov, S. D. (*with* Likhttsier, I. M.) Strings at nonzero temperature. (Russian) **93f:81117**
— The free energy for noncritical superstring. **93a:81157**
— The Hagedorn temperature for the noncritical superstring. **93a:81158**
— String theory at nonzero temperature and two-dimensional gravity. **93k:81183**
— Noncritical superstrings at nonzero temperature. (Russian) **93a:81159**
— *see also* **Likhttsier, I. M.; et al., 93a:81155** *and* **Bytsenko, A. A.; et al., 93m:81113**
Oerter, Robert N. *see* **Gates, S. James, Jr.; et al., 93b:81214**
Ohtsubo, Noriyasu *see* **Miyata, Hideo; et al., 93i:81194**
Ooguri, Hirosi (*with* Vafa, Cumrun) Self-duality and $N = 2$ string magic. **93h:81101**
O'Raifeartaigh, Lochlainn *see* **Balachandran, A. P.; et al., 93g:81116**
Osorio, M. A. R. Quantum fields versus strings at finite temperature. (English summary) **93h:81102**
— (*with* Vázquez-Mozo, M. A.) Strings below the Planck scale. **93b:81225**
Otto, H.-J. *see* **Dorn, H., 93f:81107**
Ovrut, Burt A. (*with* Thomas, Steven) Vortices and monopoles on a sphere and their application to Liouville and string theory. **93c:81181**
Panigrahi, Prasanta K. *see* **Lina, Jean-Marc, 93i:81192**
Panvel, J. Higher order conformal invariance of string backgrounds obtained by $O(d, d)$ transformations. **93c:81182**
Parkes, Andrew Progress in multi-genus calculations for the spinning string. **93b:81226**
— On $N = 2$ strings and classical scattering solutions of self-dual Yang-Mills in $(2, 2)$ space-time. **93f:81118**
Parrott, Stephen The no ghost theorem in string theory. **93i:81199**
Parthasarathy, Ragavachariar *see* **Viswanathan, K. S., 93h:81103**
Pashnev, A. *see* **Chikalov, V., 93m:81114**
Pasti, P. *see* **Aoyama, Shogo; et al., 93j:81078**
Pavšič, M. *see* **Barut, Asim Orhan, 93b:81204**
Pekar, M. Yu. *see* **Nelipa, N. F., 93c:81179; 93f:81115** *and* **93i:81196**
Pekonen, Osmo Why should the number of dimensions of spacetime be 26? (Finnish. English summary) **93e:81097**
Periwal, Vipul *see* **Cohn, J. D., 93b:81206** *and* **Myers, Robert C., 93m:81121**
Pesando, I. (*with* Tollstén, A. K.) Heterotic instantons and solitons in anomaly-free supergravity. **93c:81183**
Pettorino, R. (*with* Pezzella, F.) Reparametrization ghost contribution to superstring multiloop amplitudes. **93a:81160**
Pezzella, F. *see* **Pettorino, R., 93a:81160**
Phong, D. H. Superstrings and holomorphic supergeometry. **93k:81184**
Plesser, M. Ronen *see* **Moore, Gregory W., 93j:81083**
Pohlmeyer, K. Hidden symmetries of strings and their relevance for string quantization. **93b:81227**
Pollock, M. D. Dimensional reduction and the duality symmetry in the superstring theory. **93b:81228**
— On the semi-classical approximation to the superstring theory. (English summary) **93k:81185**
Pope, C. N. *see* **Lu, H.; et al., 93c:81176; 93g:81129** *and* **93g:81130**
Pradisi, G. *see* **Bianchi, Massimo; et al., 93e:81090**
Preskill, John *see* **Alford, Mark G.; et al., 93j:81077**
Quirós, Mariano *see* **García-Bellido, Juan, 93m:81117**
Rains, Eric M. *see* **Brown, Robert W.; et al., 93c:81162**
Rama, S. Kalyana *see* **Das, Sumit R.; et al., 93c:81164**
Ramírez Mittelbrunn, J. *see* **Martín-Delgado, M. A., 93b:81221**
Ramón-Medrano, M. *see* **de Vega, H. J.; et al., 93b:81232; 93b:81233** *and* **93c:81187**
Ranganathan, K. A criterion for flatness in minimal area metrics that define string diagrams. **93g:81132**
Regge, T. *see* **Nelson, Jeanette, 93i:81197**
Restuccia, A. (*with* Taylor, John G.) On the closure of the super Poincaré algebra for superstrings in the light cone gauge. **93c:81184**
— (*with* Taylor, John G.) The $i\varepsilon$-prescription for superstrings [$i\varepsilon$]. **93f:81119**
Rivelles, Victor O. *see* **Mattos, Octávio A., 93k:81182**
Rizos, J. *see* **Antoniadis, Ignatios; et al., 93a:81147**
Rodrigues, João P. *see* **Demeterfi, Krešimir; et al., 93a:81151**
Roland, Kaj *see* **Cristofano, Gerardo; et al., 93k:81173**
Sabra, W. A. *see* **Bailin, David; et al., 93k:81164**
Sagnotti, A. *see* **Bianchi, Massimo; et al., 93e:81090**
Sánchez, Norma *see* **de Vega, H. J.; et al., 93b:81232; 93b:81233** *and* **93c:81187**
Santos, D. S. *see* **Barcelos-Neto, J., 93d:81134**
Saroja, R. (*with* Sen, Ashoke) Picture changing operators in closed fermionic string field theory. (English summary) **93d:81144**
Schimmrigk, Rolf Classical and quantum Calabi-Yau manifolds. **93g:81133**
— *see also* **Morse, Jack, 93d:81142**
Schrans, Stany *see* **Lu, H.; et al., 93g:81130**
Schubert, Christian The finite gauge transformations in closed string field theory. (English summary) **93m:81122**
Schwarz, Albert Symplectic, contact and superconformal geometry, membranes and strings. (*see* **93g:81003**)
— Universal moduli space and string theory. **93b:81229**
— Geometry of fermionic string. **93d:81145**
— (*with* Sen, Ashoke) Gluing theorem, star product and integration in open string field theory in arbitrary background fields. **93b:81230**
Schwarz, John H. *see* **Maharana, Jnanadeva, 93k:81181**
Seiberg, Nathan (*with* Shenker, Stephen) Note on background (in)dependence. **93c:81185**
Sen, Ashoke Macroscopic charged heterotic string. (English summary) **93m:81123**
— *see also* **Hassan, S. F., 93b:81216; Schwarz, Albert, 93b:81230; Saroja, R., 93d:81144** *and* **Ghoshal, Debashis, 93j:81080**
Sen, Siddhartha[1] *see* **Balachandran, A. P.; et al., 93g:81116**
Sfetsos, Konstadinos *see* **Bars, Itzhak, 93g:81118** *and* **93g:81119**
Shapere, Alfred *see* **Giveon, Amit, 93k:81177**
Shen, Jian Min Some geometric properties of strings. (English summary) **93k:81186**
Shenker, Stephen *see* **Seiberg, Nathan, 93c:81185**
Siegel, Warren $N = 2$ (4) string theory is self-dual $N = 4$ Yang-Mills theory. (English summary) **93g:81134**
— $N = 4$ string is the same as the $N = 2$ string. (English summary) **93e:81098**
— *see also* **Berkovits, Nathan; et al., 93d:81135**
Šijački, Dj. Generic curved space superextendon theories. (*see* **93g:81003**)
Silverstein, Eva Large-small equivalence in string theory. **93c:81186**
Singh, Lambodar Prasad *see* **Marrakchi, A. L., 93i:81193**
Smilga, A. V. Super-Yang-Mills quantum mechanics and supermembrane spectrum. (*see* **93g:81003**)
Sokatchev, E. S. *see* **Delduc, François, 93b:81208** *and* **93f:81104**
Sorkin, R. D. *see* **Balachandran, A. P.; et al., 93g:81116**
Spaliński, Michał Duality transformations in twisted Narain compactifications. **93f:81120**
— On the discrete symmetry group of Narain orbifolds. **93b:81231**
Spallucci, Euro *see* **Aurilia, Antonio, 93b:81202** *and* **(93g:81003)**
Spreafico, M. *see* **Martellini, Maurizio; et al., 93f:81114**
Srivastava, A. M. *see* **Balachandran, A. P.; et al., 93g:81116**
Srivastava, P. P. *see* **Barcelos-Neto, J., 93a:81149**
Staudacher, Matthias *see* **Kostov, Ivan K., 93k:81179**
Steif, Alan R. *see* **Horne, James H.; et al., 93b:81218**
Stelle, K. S. Conformal invariance from diffeomorphism invariance. (*see* **93g:81003**)
— *see also* **Gal'perin, A. S.; et al., 93c:81170**
Stoilov, M. *see* **Bozhilov, P., 93k:81168**
Strominger, Andrew *see* **Callan, Curtis G., Jr.; et al., 93b:81205**
Sugamoto, Akio Starting from strings to membranes. (*see* **93g:81003**)
Sugimoto, Hiroshi *see* **Miyata, Hideo; et al., 93i:81194**
Sundborg, B. *see* **Isberg, J.; et al., 93i:81188**
Sundell, Per *see* **Engberg, Niclas; et al., 93c:81167**
Susskind, Leonard (*with* Karliner, Marek; Klebanov, Igor R.) Strings in space. (*see* **93e:81005**)
Tamvakis, K. *see* **Antoniadis, Ignatios; et al., 93a:81147**
Tan, Chung I *see* **Deo, Nivedita; et al., 93a:81152**
Tanii, Yoshiaki *see* **Itoh, Yukihisa, 93f:81111**
Taylor, Cyrus C. *see* **Brown, Robert W.; et al., 93c:81162**
Taylor, John G. On theories of everything. (English summary)
— *see also* **Restuccia, A., 93c:81184** *and* **93f:81119**
Teitelboim, Claudio *see* **Henneaux, Marc, (93e:81005)**
Thomas, Steven *see* **Ovrut, Burt A., 93c:81181**
Tollstén, A. K. *see* **Pesando, I., 93c:81183**
Tonin, M. κ symmetry as world sheet supersymmetry in $D = 10$ heterotic superstring. (English summary)
— *see also* **Aoyama, Shogo; et al., 93j:81078**
Townsend, P. K. *see* **Howe, P. S., (93g:81003)**
Tseytlin, A. A. Sigma models and renormalization of string loops. **93i:81200**
Tye, S.-H. Henry *see* **Dienes, Keith R., 93f:81106** *and* **Argyres, Philip C.; et al., 93i:81182**
Vafa, Cumrun *see* **Cecotti, Sergio, 93d:81138** *and* **Ooguri, Hirosi, 93h:81101**
Vázquez-Mozo, M. A. *see* **Osorio, M. A. R., 93b:81225**
de Vega, H. J. (*with* Ramón-Medrano, M.; Sánchez, Norma) Scattering of superstrings by cosmic strings. **93b:81232**

— (*with* Ramón-Medrano, M.; Sánchez, Norma) Superstring propagation through supergravitational shockwaves. **93b:81233**
— (*with* Ramón-Medrano, M.; Sánchez, Norma) Boson-fermion and fermion-boson transmutations induced by supergravity backgrounds in superstring theory. **93c:81187**
Veneziano, G. Physics with a fundamental length. **93a:81161**
Verlinde, Erik The master equation of string theory. (English summary) **93i:81201**
— *see also* **Dijkgraaf, Robbert; et al., 93e:81092**
Verlinde, Herman *see* **Dijkgraaf, Robbert; et al., 93e:81092**
Viswanathan, K. S. (*with* Parthasarathy, Ragavachariar) Extrinsic geometry of world-sheet supersymmetry through generalized super-Gauss maps. (English summary) **93h:81103**
Wadia, Spenta R. *see* **Dhar, Avinash; et al., 93f:81105** *and* **93k:81174**
Waldram, Daniel Charged stringlike solutions of low-energy heterotic string theory. (English summary) **93k:81187**
Wang, X.-J. *see* **Lu, H.; et al., 93c:81176; 93g:81129** *and* **93g:81130**
Ward, B. F. L. On the ground state of string theory.
Warner, N. P. *see* **Bershadskii, M. A.; et al., 93i:81185**
Weisberger, William I. *see* **Collins, Graham P., 93e:81091**
West, P. C. *see* **Nilsson, Bengt E. W., 93d:81143**
Wiesbrock, Hans-Werner The construction of the sh-Lie-algebra of closed bosonic strings. **93g:81135**
— A note on the construction of the C^*-algebra of bosonic strings. **93i:81202**
de Wit, B. (*with* Nicolai, H.) Supermembranes—a fond farewell? (*see* **93g:81003**)
Witten, Edward Ground ring of two-dimensional string theory. **93b:81234**
Xu, K. W. *see* **Lu, H.; et al., 93c:81176** *and* **93g:81129**
Yang, Zhu Effective superstrings. **93f:81121**
Yoshida, Kensuke *see* **Martellini, Maurizio; et al., 93f:81114**
Zerbini, Sergio *see* **Bytsenko, A. A.; et al., 93m:81113**
Zheltukhin, A. A. *see* **Bandos, I. A., 93g:81117**
Zubarev, A. P. *see* **Aref'eva, I. Ya., 93c:81160**
Zwiebach, Barton Interpolating string field theories. **93c:81188**
— *see also* **Kugo, Taichiro, 93i:81191**

Items with secondary classifications in 81T30

Abe, Mitsuo (*with* Nakanishi, Noboru) Indefiniteness of the conformal anomaly of the string theory in the harmonic gauge. **93c:81230**
Aharony, O. (*with* Sonnenschein, Jacob; Yankielowicz, Shimon) G/G models and W_N strings. (English summary) **93g:81137**
Ahmed, Elsayed Mohamed (*with* Hegazi, A. S.) Finite temperature infinitesimally deformed classical and quantum gravity. (English summary) **93i:81088**
Albeverio, Sergio Mathematical physics and stochastic analysis. (English summary) **93m:60128**
Aneziris, Charilaos N. Statistics of linked strings. (English summary) **93k:81111**
Arnowitt, R. *see* **Nath, Pran, (93a:81004)**
Asatryan, Hrachia M. (*with* Murayama, Akihiro) Toward the realistic three-generation model in the $(2,0)$ heterotic string compactification. (English summary) **93d:81191**
Avan, Jean (*with* Jevicki, Antal) Classical integrability and higher symmetries of collective string field theory. **93e:58078**
de Azcárraga, J. A. (*with* Izquierdo, J. M.; Townsend, P. K.) Kaluza-Klein origin for the superstring tension. **93a:83036**
Bandhio, Randy A. (*with* Lee, Pascal) On the global gravitational instanton and soliton that are homotopy spheres. **93c:57026**
Bagger, Jonathan (*with* Goulian, Mark) Coulomb-gas construction on higher-genus Riemann surfaces. **93i:81206**
Bailin, David (*with* Katechou, E. K.; Love, Alex) Flipped $SU(5) \times U(1)$ in superconformal models. **93m:81159**
Bakas, Ioannis (*with* Kiritsis, Elias B.) Beyond the large N limit: nonlinear W_∞ as symmetry of the $SL(2,\mathbf{R})/U(1)$ coset model. (English summary) **93m:81041**
Bandos, I. A. (*with* Zheltukhin, A. A.) 11-dimensional supermembrane in a spinor moving repère formalism. (English summary) **93m:83079**
Bandyopadhyay, Pratul *see* **Roy, Ashim, 93b:81278**
Bars, Itzhak Noncompact current algebras and heterotic superstring vacua. **93d:81065**
— Heterotic string models in curved spacetime. (English summary) **93j:81072**
— (*with* Sfetsos, Konstadinos) Conformally exact metric and dilaton in string theory on curved spacetime. (English summary) **93j:81073**
— (*with* Sfetsos, Konstadinos) $SL(2,\mathbf{R}) \otimes SU(2)/\mathbf{R}^2$ string model in curved spacetime and exact conformal results. (English summary) **93k:81190**
Bauer, Michel (*with* Di Francesco, Ph.; Itzykson, Claude; Zuber, J.-B.) Covariant differential equations and singular vectors in Virasoro representations. **93c:81062**
Bellucci, Stefano The discretization of $D = 2$ surfaces and supersymmetry invariance. **93c:81235**
— Broken supersymmetry in the matrix model on a circle. **93c:81236**
Berglund, Per (*with* Hübsch, Tristan; Parkes, Linda) The complete matter sector in a three-generation compactification. (English summary) **93j:32036**
Bergshoeff, E. A. (*with* Kallosh, Renata) On the covariant BRST quantization of gauge theories including supermembranes. (*see* **93g:81003**)
— (*with* Sezgin, Ergin) Self-dual supergravity theories in $2+2$ dimensions. (English summary) **93i:83092**
Blagojević, M. (*with* Sazdović, B.; Vasilić, M.) Improved covariant quantization of the heterotic superstring. **93b:81285**
Bowick, Mark J. (*with* Marinari, Enzo) Quantum gravity, random geometry and critical phenomena. (English summary) **93i:83043**
Brekke, Lee (*with* Dykstra, Hans; Hughes, Shane J.; Imbo, Tom D.) Knots and links of nonabelian string. (English summary) **93g:81087**
Brustein, Ram (*with* Roland, Kaj) Space-time versus world-sheet renormalization group equation in string theory. **93b:81178**
Bucher, Martin (*with* Lo, Hoi-Kwong; Preskill, John) Topological approach to Alice electrodynamics. (English summary) **93k:81138**
— (*with* Lee, Kai-Ming; Preskill, John) On detecting discrete Cheshire charge. (English summary) **93k:81139**
Bugajska, Krystyna M. Strings and Teichmueller space. **93c:32031**
Bytsenko, A. A. (*with* Goncharov, Yu. P.) Evaluation of a class of the Laplace operator determinants connected with quantum geometry of p-branes. **93b:58163**
Callan, Curtis G., Jr. (*with* Freed, Denise) Phase diagram of the dissipative Hofstadter model. **93e:81146**
Campbell, Bruce A. (*with* Kaloper, Nemanja; Olive, Keith A.) Classical hair for Kerr-Newman black holes in string gravity. **93f:83082**
Candelas, Philip (*with* Green, Paul S.; Hübsch, Tristan) Rolling among Calabi-Yau vacua. **93d:32031a**
— (*with* Green, Paul S.; Hübsch, Tristan) Rolling among Calabi-Yau vacua. **93d:32031b**
— (*with* de la Ossa, Xenia C.; Green, Paul S.; Parkes, Linda) A pair of Calabi-Yau manifolds as an exactly soluble superconformal theory. **93b:32029**
— (*with* de la Ossa, Xenia C.; Green, Paul S.; Parkes, Linda) An exactly soluble superconformal theory from a mirror pair of Calabi-Yau manifolds. **93b:32028**
Carey, A. L. (*with* Murray, M. K.) String structures and the path fibration of a group. **93a:58013**
Carter, J. Scott (*with* Saito, Masahiko) Syzygies among elementary string interactions in $2+1$ dimensions. **93e:57053**
Câteau, Hideyuki (*with* Saito, Satoru) Nonlinear equations from a string-theoretical point of view. **93b:58077**
— *see also* **Saito, Satoru, 93b:58076**
Cho, Y. M. (*with* Zoh, S. W.) Gauge theory of Virasoro-Kac-Moody group. (English summary) **93g:81035**
Cooper, Adrian (*with* Susskind, Leonard; Thorlacius, Lárus) Two-dimensional quantum cosmology. **93c:83048**
Dalley, Simon The Weingarten model à la Polyakov. **93c:81156**
Danielsson, Ulf H. (*with* Gross, David J.) On the correlation functions of the special operators in $c = 1$ quantum gravity. **93b:81243**
Das, Sumit R. String fields in two-dimensional gravity. **93b:81244**
— Physical properties and symmetries of the $d = 1$ matrix model. **93i:81218**
David, François Louis Matrix models and 2-D gravity. **93c:81201**
Davydychev, A. I. Recursive algorithm for evaluating vertex-type Feynman integrals. (English summary) **93k:81153**
Dayi, Ömer F. (*with* Müller-Kirsten, H. J. W.; Shurgaya, A. V.; Tchrakian, D. H.) Model of a superconducting cosmic string. (English summary) **93e:83072**
Deck, Thomas *see* **Ruffing, Andreas; et al., 93j:17054**
Delduc, François (*with* Gal'perin, A. S.; Howe, P. S.; Sokatchev, E. S.) Twistor formulation of the heterotic $D = 10$ superstring with manifest $(8,0)$ world-sheet supersymmetry. (English summary) **93m:81050**
Dharma-Wardana, M. W. C. Density functional theory and the Chern-Simons field approach to the fractional quantum Hall effect. (English summary) **93g:81212**
Diamandis, G. A. (*with* Georgalas, B. C.; Lahanas, A. B.) Does σ-model conformal invariance imply a Robertson-Walker universe? (English summary) **93d:83066**
Di Francesco, Ph. *see* **Bauer, Michel; et al., 93c:81062**
Dijkgraaf, Robbert (*with* Verlinde, Herman; Verlinde, Erik) Notes on topological string theory and 2D quantum gravity. **93c:81202**
Dixon, John A. (*with* Duff, M. J.; Sezgin, Ergin) The coupling of Yang-Mills to extended objects. **93d:81114**
(Drinfel'd, V. G.) *see* **Schmid, Rudolf, 93i:01023**
(Dubrovin, B. A.) *see* **Novikov, S. P., 93g:58062**
Duff, M. J. (*with* Khuri, Ramzi R.; Lu, Jian Xin) String and five-brane solitons: singular or nonsingular? **93c:83113**
— *see also* **Dixon, John A.; et al., 93d:81114** *and* **Supermembranes and physics in $2+1$ dimensions, 93g:81003**
Duncan, M. J. (*with* Kaloper, Nemanja; Olive, Keith A.) Axion hair and dynamical torsion from anomalies. (English summary) **93g:83092**
Durhuus, Bergfinnur (*with* Jónsson, Thórdur) On subdivision invariant actions for random surfaces. (English summary) **93k:81243**
Dykstra, Hans *see* **Brekke, Lee; et al., 93g:81087**
Eastwood, Michael G. (*with* Hübsch, Tristan) Endomorphism valued cohomology and gauge-neutral matter. **93e:14048**
Eisenberg, Yeshayahu A consistent covariant quantization of the Brink-Schwarz superparticle. **93b:81287**
Ellis, Jonathan Richard (*with* Mavromatos, N. E.; Nanopoulos, D. V.) Quantum mechanics and black holes in four-dimensional string theory. **93c:83114**
— (*with* Mavromatos, N. E.; Nanopoulos, D. V.) World-sheet duality, space-time foam, and the quantum fate of a stringy black hole. (English summary) **93g:83093**
Evans, Jonathan M. Covariant canonical quantisation of superparticles and superstrings. (*see* **93g:81003**)
Fay, John D. Kernel functions, analytic torsion, and moduli spaces. **93e:58192**
Ferrara, Sergio Calabi-Yau moduli space, special geometry and mirror symmetry. **93d:32026**
— (*with* Fré, Pietro; Soriani, Paolo) On the moduli space of the T^6/Z_3 orbifold and its modular group. **93g:32033**
Ferrer, È. J. (*with* Fradkin, E. S.; de la Incera, V.) Thermodynamics of the neutral string gas in electromagnetic background. **93d:83067**
Foot, R. (*with* Joshi, G. C.) An application of the division algebras, Jordan algebras and split composition algebras. (English summary) **93m:17018**
Fradkin, E. S. *see* **Ferrer, È. J.; et al., 93d:83067**
Fré, Pietro (*with* Soriani, Paolo) Symplectic embeddings, special Kähler geometry and automorphic functions: the case of $SK(n+1) = SU(1,1)/U(1) \otimes SO(2,n)/SO(2) \otimes SO(n)$. **93e:53054**
— *see also* **Ferrara, Sergio; et al., 93g:32033**
Freed, Denise *see* **Callan, Curtis G., Jr., 93e:81146**
Fuchs, Jürgen (*with* Klemm, Albrecht; Schmidt, Michael G.; Verstegen, Dirk) New exceptional $(A_1^{(1)})^{\oplus r}$ invariants and the associated Gepner models. **93i:81062**
Fucito, F. (*with* Martellini, Maurizio) Renormalization group flows in nonperturbative 2D quantum gravity. **93d:81122**
Fujikawa, Kazuo Reparametrization BRS cohomology in two-dimensional gravity and noncritical string theories. **93c:81246**
Gal'perin, A. S. *see* **Delduc, François; et al., 93m:81050**

Gannon, Terry (*with* Lam, C. S.) Gluing and shifting lattice constructions and rational equivalence. **93i:11079**

— (*with* Lam, C. S.) Can a lattice string have a vanishing cosmological constant? (English summary) **93i:83088**

Gasperini, M. (*with* Maharana, Jnanadeva; Veneziano, G.) Boosting away singularities from conformal string backgrounds. (English summary) **93k:81156**

Gates, S. James, Jr. (*with* Majumdar, Parthasarathi) Toward a (supersymmetry)^2 particle model of the First Ilk. **93c:81238**

Georgalas, B. C. *see* **Diamandis, G. A.; et al., 93d:83066**

Gerasimov, A. A. (*with* Marshakov, A. V.; Mironov, A. D.; Morozov, A. Yu.; Orlov, A. Yu.) Matrix models of two-dimensional gravity and Toda theory. **93h:81118**

Gibbons, G. W. (*with* Perry, Malcolm J.) The physics of 2D stringy spacetimes. (English summary) **93h:83035**

Giveon, Amit (*with* Smit, Dirk-Jan) Symmetries on the space of (2, 2) superstring vacua and automorphism groups of Calabi-Yau manifolds. (English summary) **93g:81149**

— Target space duality and stringy black holes. **93b:81250**

— (*with* Halpern, M. B.; Kiritsis, Elias B.; Obers, N. A.) Exact C-function and C-theorem on affine-Virasoro space. **93d:81069**

— (*with* Roček, Martin) Generalized duality in curved string backgrounds. (English summary) **93m:81129**

— (*with* Pasquinucci, Andrea) On cosmological string backgrounds with toroidal isometries. (English summary) **93i:83089**

Gomis, Joaquim (*with* Suzuki, Hiroshi) $N = 2$ string as a topological conformal theory. **93a:81172**

Goncharov, Yu. P. *see* **Bytsenko, A. A., 93b:58163**

Goulian, Mark *see* **Bagger, Jonathan, 93i:81206**

Govindarajan, Suresh (*with* Ovrut, Burt A.) The anomaly structure of (2, 0) heterotic world-sheet supergravity with gauged R-invariance. (English summary) **93i:81263**

Gràcia, X. (*with* Pons, J. M.) A Hamiltonian approach to Lagrangian Noether transformations. (English summary) **93k:58092**

Green, Paul S. *see* **Candelas, Philip; et al., 93b:32028; 93b:32029; 93d:32031a** *and* **93d:32031b**

Greene, Brian R. Mirror manifolds in $N = 2$ string compactification. **93e:32035**

Grosche, Christian Selberg super-trace formula for super Riemann surfaces. II. Elliptic and parabolic conjugacy classes, and Selberg super-zeta functions. (English summary) **93m:58117**

Gross, David J. *see* **Danielsson, Ulf H., 93b:81243**

Halpern, M. B. *see* **Giveon, Amit; et al., 93d:81069**

Harvey, Jeffrey A. Conformal field theory in string theory. (*see* **93g:81074**)

Hegazi, A. S. *see* **Ahmed, Elsayed Mohamed, 93i:81088**

Henneaux, Marc (*with* Teitelboim, Claudio) First and second quantized point particles of any spin. (*see* **93e:81005**)

Heydari, S. H. *see* **Quine, J. R.; et al., 93j:58139**

Hikami, Shinobu Localization, nonlinear σ model and string theory. (English summary) **93i:81308**

Hornfeck, K. The minimal supersymmetric extension of WA_{n-1}. **93d:81072**

Hou, Bo Yu (*with* Shi, Kang Jie; Yue, Rui Hong) Explicit expressions for fusion and braid matrices in the unitary minimal model. (Chinese. English summary) **93e:81112**

Howe, P. S. *see* **Delduc, François; et al., 93m:81050**

Hübsch, Tristan *see* **Candelas, Philip; et al., 93d:32031a; 93d:32031b; Eastwood, Michael G., 93e:14048** *and* **Berglund, Per; et al., 93j:32036**

Hughes, Shane J. *see* **Brekke, Lee; et al., 93g:81087**

Ibáñez, Luis E. (*with* Lüst, Dieter) Duality-anomaly cancellation, minimal string unification and the effective low-energy Lagrangian of 4D strings. (English summary) **93i:81264**

Imbo, Tom D. *see* **Brekke, Lee; et al., 93g:81087**

de la Incera, V. *see* **Ferrer, È. J.; et al., 93d:83067**

Itzykson, Claude *see* **Bauer, Michel; et al., 93c:81062**

Izquierdo, J. M. *see* **de Azcárraga, J. A.; et al., 93a:83036**

Jevicki, Antal Matrix models and field theory. (English summary) (*see* **93f:81005**)

— *see also* **Avan, Jean, 93e:58078**

Johnson, Clifford V. (*with* Morris, Tim R.; Spence, Bill) Stable nonperturbative minimal models coupled to 2D quantum gravity. (English summary) **93i:81232**

(Jones, Vaughan F. R.) *see* **Schmid, Rudolf, 93i:01023**

Jónsson, Thórdur *see* **Durhuus, Bergfinnur, 93k:81243**

Joshi, G. C. *see* **Foot, R., 93m:17018**

Kallosh, Renata *see* **Bergshoeff, E. A., (93g:81003)**

Kaloper, Nemanja Stringy cosmic strings and axion cohomology. (English summary) **93m:83080**

— *see also* **Campbell, Bruce A.; et al., 93f:83082** *and* **Duncan, M. J.; et al., 93g:83092**

Kashaev, R. M. (*with* Osipov, A. A.) Extension of the Krichever-Novikov algebra in the theory of a closed string. (Russian) (*see* **93d:58002**)

Kataoka, H. (*with* Munakata, H.; Sato, Hikaru; Tanaka, S.) Unique flipped SO(10) SUSY-GUT from Z orbifold. (English summary) **93f:81160**

Katechou, E. K. *see* **Bailin, David; et al., 93m:81159**

Khuri, Ramzi R. (*with* La, HoSeong) Orbits of a string around a five-brane. **93a:83037**

— (*with* La, HoSeong) String motion in five-brane geometry. (English summary) **93j:83075**

— *see also* **Duff, M. J.; et al., 93c:83113**

Kim, Hang Bae (*with* Kim, Jihn E.) An orbifold compactification with three families from twisted sectors. (English summary) **93m:81160**

Kim, Jihn E. *see* **Kim, Hang Bae, 93m:81160**

Kiritsis, Elias B. *see* **Giveon, Amit; et al., 93d:81069** *and* **Bakas, Ioannis, 93m:81041**

Klebanov, Igor R. Ward identities in two-dimensional string theory. **93b:81255**

Klemm, Albrecht *see* **Fuchs, Jürgen; et al., 93i:81062**

Koehler, Kenneth Rowland (*with* Mansouri, F.; Vaz, Cenalo; Witten, L.) Scattering in Chern-Simons gravity. (English summary) (*see* **93f:81005**)

Koibuchi, Hiroshi Virasoro algebra in the KN algebra: bosonic string with fermionic ghosts on Riemann surfaces. **93c:81066**

Konno, Hitoshi Bosonized operator formalism for fermions with odd spin structures and anomaly calculation. (English summary) **93j:81092**

Korchemskii, G. P. Matrix model perturbed by higher order curvature terms. (English summary) **93f:81135**

Kostelecký, V. Alan (*with* Samuel, Stuart) Gravity and Lorentz breakdown in higher-dimensional theories and strings. (*see* **93a:00022**)

Kostov, Ivan K. Gauge invariant matrix model for the $\hat{A}$-$\hat{D}$-$\hat{E}$ closed strings. (English summary) **93k:81163**

Krichever, Ios. M. (*with* Novikov, S. P.) Riemann surfaces, operator fields, strings. Analogues of the Fourier-Laurent bases. **93d:17033**

Kugo, Taichiro Covariantized light-cone string field theory. (*see* **93e:81005**)

Kutasov, David Irreversibility of the renormalization group flow in two-dimensional quantum gravity. (English summary) **93e:81118**

La, HoSeong *see* **Khuri, Ramzi R., 93a:83037** *and* **93j:83075**

Lahanas, A. B. *see* **Diamandis, G. A.; et al., 93d:83066**

Lam, C. S. *see* **Gannon, Terry, 93i:11079; 93i:83088; Li, Z.-S., 93k:81212a** *and* **93k:81212b**

Lee, Kai-Ming *see* **Bucher, Martin; et al., 93k:81139**

Lee, Pascal *see* **Baadhio, Randy A., 93c:57026**

Li, Z.-S. (*with* Lam, C. S.) Minimal-rank models from nonabelian orbifolds. (English summary) **93k:81212a**

— (*with* Lam, C. S.) Errata: "Minimal-rank models from nonabelian orbifolds". **93k:81212b**

Lo, Hoi-Kwong *see* **Bucher, Martin; et al., 93k:81138**

Love, Alex *see* **Bailin, David; et al., 93m:81159**

Lu, H. (*with* Pope, C. N.; Schrans, Stany; Wang, X.-J.) New realizations of W algebras and W strings. **93c:17048**

— (*with* Pope, C. N.) On realisations of W algebras. (English summary) **93g:81037**

Lu, Jian Xin *see* **Duff, M. J.; et al., 93c:83113**

Lüst, Dieter *see* **Ibáñez, Luis E., 93i:81264**

Maharana, Jnanadeva *see* **Gasperini, M.; et al., 93k:81156**

Majumdar, Parthasarathi On the geometrical origin of the fermionic gauge symmetry in Green-Schwarz-Siegel superstrings. (English summary) (*see* **93h:81001**)

— *see also* **Gates, S. James, Jr., 93c:81238**

Mann, Robert B. (*with* Ross, S. F.) Matching conditions and gravitational collapse in two-dimensional gravity. (English summary) **93j:81093**

Mansouri, F. *see* **Koehler, Kenneth Rowland; et al., (93f:81005)**

Marinari, Enzo *see* **Bowick, Mark J., 93i:83043**

Marshakov, A. V. *see* **Gerasimov, A. A.; et al., 93h:81118**

Martellini, Maurizio *see* **Fucito, F., 93d:81122**

Martinec, Emil J. (*with* Shatashvili, S. L.) Black-hole physics and Liouville theory. **93a:81177**

Mavromatos, N. E. *see* **Ellis, Jonathan Richard; et al., 93c:83114** *and* **93g:83093**

McGuigan, Michael D. (*with* Nappi, Chiara R.; Yost, Scott A.) Charged black holes in two-dimensional string theory. **93g:81162**

McInnes, Brett Gauge theory in Witten's approach to the generation problem. **93a:53039**

McLaughlin, Dennis A. Orientation and string structures on loop space. **93j:57015**

Merkulov, S. A. On the geometric quantization of bosonic string. (English summary) **93k:58104**

Mironov, A. D. *see* **Gerasimov, A. A.; et al., 93h:81118**

Mojumder, M. A. (2, 0) supersymmetric string theory and the critical exponents of the 3D Ising model. **93f:82011**

Moore, Gregory W. (*with* Seiberg, Nathan; Staudacher, Matthias) From loops to states in two-dimensional quantum gravity. **93c:81217**

Morozov, A. Yu. *see* **Gerasimov, A. A.; et al., 93h:81118**

Morris, Tim R. *see* **Johnson, Clifford V.; et al., 93i:81232**

Mukherji, Sudipta (*with* Mukhi, Sunil; Sen, Ashoke) Black hole solution and its infinite parameter generalization in $c = 1$ string field theory. **93b:81265**

Mukhi, Sunil *see* **Mukherji, Sudipta; et al., 93b:81265**

Müller-Kirsten, H. J. W. *see* **Dayi, Ömer F.; et al., 93e:83072**

Munakata, H. *see* **Kataoka, H.; et al., 93f:81160**

Murayama, Akihiro *see* **Asatryan, Hrachia M., 93d:81191**

Murray, M. K. *see* **Carey, A. L., 93a:58013**

Muta, T. (*with* Odintsov, S. D.; Sato, Harutada) Semiclassical approach in the dilatonic gravity coupled to Gross-Neveu fermions. (English summary)

Nakanishi, Noboru *see* **Abe, Mitsuo, 93c:81230**

Nanopoulos, D. V. *see* **Ellis, Jonathan Richard; et al., 93c:83114** *and* **93g:83093**

Nappi, Chiara R. *see* **McGuigan, Michael D.; et al., 93g:81162**

Nash, Charles ★ Differential topology and quantum field theory. **93c:58002**

Nath, Pran (*with* Arnowitt, R.) Implications in the electroweak region of Calabi-Yau string theory. (*see* **93a:81004**)

— *see also* **Particles, strings and cosmology, 93a:81004**

Nelson, Philip Beyond conformal field theory. **93e:81123**

Nill, Florian A constructive quantum field-theoretic approach to Chern-Simons theory. (English summary) **93m:81099**

Nogueira, P. $N = 2$ superprojective transformations and the nilpotent invariant. **93h:81140**

Novikov, S. P. On the equation $[L, A] = \varepsilon \cdot 1$. **93g:58062**

— *see also* **Krichever, Ios. M., 93d:17033**

Nuyts, Jean Some properties of the Virasoro and of some Krichever-Novikov algebras. **93g:81038**

Obers, N. A. *see* **Giveon, Amit; et al., 93d:81069**

Oda, Ichiro Strings from black holes. (English summary) **93j:83076**

Odintsov, S. D. *see* **Muta, T.; et al.**

Olive, Keith A. *see* **Campbell, Bruce A.; et al., 93f:83082** *and* **Duncan, M. J.; et al., 93g:83092**

Orlov, A. Yu. *see* **Gerasimov, A. A.; et al., 93h:81118**

Osipov, A. A. *see* **Kashaev, R. M., (93d:58002)**

de la Ossa, Xenia C. *see* **Candelas, Philip; et al., 93b:32028** *and* **93b:32029**

Ovrut, Burt A. *see* **Govindarajan, Suresh, 93i:81263**

Parkes, Linda *see* **Candelas, Philip; et al., 93b:32028; 93b:32029** *and* **Berglund, Per; et al., 93j:32036**

Pasquinucci, Andrea *see* **Giveon, Amit, 93i:83089**

Paycha, Sylvie (*with* Scarlatti, Sergio) Heat kernel regularized determinants on Riemann and super Riemann surfaces. **93d:58184**

Perry, Malcolm J. *see* **Gibbons, G. W., 93h:83035**
Pollock, M. D. On the derivation of the Wheeler-DeWitt equation in the heterotic superstring theory. (English summary) **93i:83090**
Pons, J. M. *see* **Gràcia, X., 93k:58092**
Pope, C. N. (*with* Romans, L. J.) Area-preserving algebras and membrane topology. (*see* **93g:81003**)
— *see also* **Lu, H.; et al., 93c:17048**; **93g:81037** *and* **Supermembranes and physics in 2 + 1 dimensions, 93g:81003**
Popov, A. D. (*with* Sergeev, A. G.) ★ Bosonic strings, ghosts and geometric quantization. (English. English and Russian summaries) **93m:81072**
Preskill, John (*with* Vilenkin, Alexander) Decay of metastable topological defects. (English summary) **93m:81058**
— *see also* **Bucher, Martin; et al., 93k:81138** *and* **93k:81139**
Quine, J. R. (*with* Heydari, S. H.; Song, Richard R.) Zeta regularized products. **93j:58139**
Ravanini, F. Thermodynamic Bethe ansatz for $\mathcal{G}_k \otimes \mathcal{G}_l/\mathcal{G}_{k+l}$ coset models perturbed by their $\varphi_{1,1,\mathrm{Adj}}$ operator. **93d:81169**
(Reucroft, Stephen) *see* **Particles, strings and cosmology, 93a:81004**
Roček, Martin *see* **Giveon, Amit, 93m:81129**
Roland, Kaj *see* **Brustein, Ram, 93b:81178**
Romans, L. J. *see* **Pope, C. N., (93g:81003)**
de Roo, Mees (*with* Suelmann, H.; Wiedemann, Alfred) Supersymmetric R^4-actions in ten dimensions. **93b:81284**
Ross, S. F. *see* **Mann, Robert B., 93j:81093**
Roy, Ashim (*with* Bandyopadhyay, Pratul) Topological aspects of Liouville field theory and conformal anomaly. **93b:81278**
Ruffing, Andreas (*with* Deck, Thomas; Schlichenmaier, Martin) String branchings on complex tori and algebraic representations of generalized Krichever-Novikov algebras. (English summary) **93j:17054**
Saito, Masahiko *see* **Carter, J. Scott, 93e:57053**
Saito, Satoru (*with* Câteau, Hideyuki) From soliton theory to string theory. **93b:58076**
— *see also* **Câteau, Hideyuki, 93b:58077**
Samuel, Stuart *see* **Kostelecký, V. Alan, (93a:00022)**
Sánchez, Norma Field and string quantization in curved space-times. (*see* **93e:81005**)
— Quantum strings in curved space times. (*see* **93d:83003**)
— Quantum string theory in curved space-times. **93d:81126**
— *see also* **de Vega, H. J., 93b:83061**
Sato, Harutada *see* **Muta, T.; et al.**
Sato, Hikaru *see* **Kataoka, H.; et al., 93f:81160**
Sazdović, B. *see* **Blagojević, M.; et al., 93b:81285**
Scarlatti, Sergio *see* **Paycha, Sylvie, 93d:58184**
Scheich, Christoph M. A. (*with* Schmidt, Michael G.) Phenomenological discussion of the three-generation Gepner model. (English summary) **93m:81161**
Schlichenmaier, Martin *see* **Ruffing, Andreas; et al., 93j:17054**
Schmid, Rudolf Strings, knots, and quantum groups: a glimpse at three 1990 Fields medalists. (English summary) **93i:01023**
Schmidt, Michael G. *see* **Fuchs, Jürgen; et al., 93i:81062** *and* **Scheich, Christoph M. A., 93m:81161**
Schrans, Stany *see* **Lu, H.; et al., 93c:17048**
Schwarz, Patricia M. Gravity waves in classical string theory. **93c:83115**
Seiberg, Nathan *see* **Moore, Gregory W.; et al., 93c:81217**
Sen, Ashoke Matrix models and gauge-invariant field theory of subcritical strings. **93g:81175**
— Rotating charged black hole solution in heterotic string theory. (English summary) **93d:83048**
— *see also* **Mukherji, Sudipta; et al., 93b:81265**
Sergeev, A. G. *see* **Popov, A. D., 93m:81072**
Sezgin, Ergin Geometry of superspace Kac-Moody algebras. (*see* **93g:81003**)
— *see also* **Dixon, John A.; et al., 93d:81114**; **Bergshoeff, E. A., 93i:83092** *and* **Supermembranes and physics in 2 + 1 dimensions, 93g:81003**
Sfetsos, Konstadinos *see* **Bars, Itzhak, 93j:81073** *and* **93k:81190**
Shatashvili, S. L. *see* **Martinec, Emil J., 93a:81177**
Shen, Xiang W infinity and string theory. (English summary) **93i:81073**
Shi, Kang Jie *see* **Hou, Bo Yu; et al., 93e:81112**
Shurgaya, A. V. *see* **Dayi, Ömer F.; et al., 93e:83072**
Smit, Dirk-Jan Summations over equilaterally triangulated surfaces and the critical string measure. **93k:14035**
— *see also* **Giveon, Amit, 93g:81149**
Sokatchev, E. S. *see* **Delduc, François; et al., 93m:81050**
Solov'ev, O. A. Nonabelian chiral conformal Thirring models and nonperturbative aspects of spinless string modes. (Russian) **93a:81136**
Song, Richard R. *see* **Quine, J. R.; et al., 93j:58139**
Sonnenschein, Jacob *see* **Aharony, O.; et al., 93g:81137**
Soriani, Paolo *see* **Fré, Pietro, 93e:53054** *and* **Ferrara, Sergio; et al., 93g:32033**
Soroka, V. A. (*with* Sorokin, D. P.; Tkach, V. I.; Volkov, D. V.) On a twistor shift in particle and string dynamics. (English summary) **93m:81052**
Sorokin, D. P. *see* **Soroka, V. A.; et al., 93m:81052**
Sotkov, G. M. (*with* Stanishkov, M.; Zhu, Chuan Jie) Extrinsic geometry of strings and W-gravities. **93d:81171**
Spence, Bill *see* **Johnson, Clifford V.; et al., 93i:81232**
Stanishkov, M. *see* **Sotkov, G. M.; et al., 93d:81171**
Staudacher, Matthias *see* **Moore, Gregory W.; et al., 93c:81217**
Suelmann, H. *see* **de Roo, Mees; et al., 93b:81284**
Susskind, Leonard *see* **Cooper, Adrian; et al., 93c:83048**
Suzuki, Hiroshi *see* **Gomis, Joaquim, 93a:81172**
Takasaki, Kanehisa Volume-preserving diffeomorphisms in integrable deformations of self-dual gravity. **93f:83027**
Tanaka, S. *see* **Kataoka, H.; et al., 93f:81160**
Tchrakian, D. H. *see* **Dayi, Ömer F.; et al., 93e:83072**
Teitelboim, Claudio *see* **Henneaux, Marc, (93e:81005)** *and* **Quantum mechanics of fundamental systems, 93e:81005**
Terao, Haruhiko (*with* Yamada, Kiyonori) Topological superstring in $D = 2$ and topological supergravity. **93b:81273**
Thiran, E. (*with* Weyers, J.) Dixon-Selberg summation over local number fields. **93k:11111**
Thorlacius, Lárus *see* **Cooper, Adrian; et al., 93c:83048**
Tkach, V. I. *see* **Soroka, V. A.; et al., 93m:81052**
Townsend, P. K. *see* **de Azcárraga, J. A.; et al., 93a:83036**
Tseytlin, A. A. Cosmological solutions with dilaton and maximally symmetric space in string theory. (English summary) **93g:83095**
Vaintrob, A. Yu. Geometric models and the moduli spaces for string theories. **93b:32032**
Vasilić, M. *see* **Blagojević, M.; et al., 93b:81285**
Vaz, Cenalo *see* **Koehler, Kenneth Rowland; et al., (93f:81005)**
de Vega, H. J. (*with* Sánchez, Norma) Mass and energy-momentum tensor of quantum strings in gravitational shock-waves. **93b:83061**
Veneziano, G. Quantum string gravity near the Planck scale. **93c:83117**
— Quantum string gravity near the Planck scale. **93e:83067**
— *see also* **Gasperini, M.; et al., 93k:81156**
Verlinde, Erik *see* **Dijkgraaf, Robbert; et al., 93c:81202**; **Verlinde, Herman, 93c:81227** *and* **93d:83038**
Verlinde, Herman (*with* Verlinde, Erik) Conformal field theory and geometric quantization. **93c:81227**
— (*with* Verlinde, Erik) Scattering at Planckian energies. **93d:83038**
— *see also* **Dijkgraaf, Robbert; et al., 93c:81202**
Verstegen, Dirk *see* **Fuchs, Jürgen; et al., 93i:81062**
Vilenkin, Alexander *see* **Preskill, John, 93m:81058**
Volkov, D. V. *see* **Soroka, V. A.; et al., 93m:81052**
Voronov, A. A. Complex divisors on algebraic curves and some applications to string theory. **93i:14019**
Wang, X.-J. *see* **Lu, H.; et al., 93c:17048**
Weyers, J. *see* **Thiran, E., 93k:11111**
Wiedemann, Alfred *see* **de Roo, Mees; et al., 93b:81284**
Witten, Edward (*with* Zwiebach, Barton) Algebraic structures and differential geometry in two-dimensional string theory. **93e:81139**
— *see also* **Schmid, Rudolf, 93i:01023**
Witten, L. *see* **Koehler, Kenneth Rowland; et al., (93f:81005)**
Wu, Yong Shi[1] *see* **Yu, Feng, 93c:81251**
Yamada, Kiyonori *see* **Terao, Haruhiko, 93b:81273**
Yankielowicz, Shimon *see* **Aharony, O.; et al., 93g:81137**
Yoneya, Tamiaki Action principle, Virasoro structure and analyticity in nonperturbative two-dimensional gravity. (English summary) **93h:81137**
Yoshida, Kensuke The origin of $SL(n, \mathbf{C})$ current algebra in generalized two-dimensional gravity. (English summary) **93i:81260**
Yost, Scott A. *see* **McGuigan, Michael D.; et al., 93g:81162**
Yu, Feng (*with* Wu, Yong Shi[1]) Graded GL(1|1) BRST symmetry in covariant quantization of supersymmetric chiral bosons and heterotic strings. **93c:81251**
Yūan, Hsi Shih Modular invariance of manifolds with $SU(n)$ holonomy. **93e:32036**
Yue, Rui Hong *see* **Hou, Bo Yu; et al., 93e:81112**
Zachos, Cosmas Hamiltonian flows, $SU(\infty)$, $SO(\infty)$, $USp(\infty)$, and strings. **93d:81076**
(Zanelli, Jorge) *see* **Quantum mechanics of fundamental systems, 93e:81005**
Zheltukhin, A. A. *see* **Bandos, I. A., 93m:83079**
Zhu, Chuan Jie *see* **Sotkov, G. M.; et al., 93d:81171**
Zoh, S. W. *see* **Cho, Y. M., 93g:81035**
Zuber, J.-B. *see* **Bauer, Michel; et al., 93c:81062**
Zwiebach, Barton Minimal area problems and quantum open strings. **93m:32029**
— A proof that Witten's open string theory gives a single cover of moduli space. **93m:32030**
— *see also* **Witten, Edward, 93e:81139**

Items listed otherwise than by author

Boston, MA ★ Particles, strings and cosmology. **93a:81004**
Conference:
Supermembranes and Physics in 2 + 1 Dimensions ★ Supermembranes and physics in 2 + 1 dimensions. **93g:81003**
Meeting:
Quantum Mechanics of Fundamental Systems ★ Quantum mechanics of fundamental systems. 2. **93e:81005**
Particles, strings and cosmology ★ Particles, strings and cosmology. **93a:81004**
Quantum mechanics of fundamental systems ★ Quantum mechanics of fundamental systems. 2. **93e:81005**
Santiago ★ Quantum mechanics of fundamental systems. 2. **93e:81005**
Supermembranes and physics in 2 + 1 dimensions ★ Supermembranes and physics in 2 + 1 dimensions. **93g:81003**
Symposium:
Particles, Strings and Cosmology ★ Particles, strings and cosmology. **93a:81004**
Trieste ★ Supermembranes and physics in 2 + 1 dimensions. **93g:81003**

81T40 Two-dimensional field theories, conformal field theories, etc.

Abdalla, Elcio (*with* Forger, M.) Current algebra of WZNW models at and away from criticality. (English summary) **93g:81136**
Abe, Mitsuo (*with* Nakanishi, Noboru) Zweibein operator formalism of two-dimensional quantum gravity. **93c:81189**
— (*with* Nakanishi, Noboru) Perturbative reconfirmation of the exact covariant solution to the two-dimensional quantum gravity. (English summary) **93f:81122**
Abud, Mario (*with* Fiore, Gaetano) Batalin-Vilkovisky approach to the metric independence of TQFT. (English summary)
Achúcarro, Ana Lineal gravity from planar gravity. (English summary) **93k:81188**
Aharony, O. (*with* Sonnenschein, Jacob; Yankielowicz, Shimon) G/G models and W_N strings. (English summary) **93g:81137**
Ahn, Changrim (*with* Chung, Stephen-wei; Tye, S.-H. Henry) New parafermion, SU(2) coset and $N = 2$ superconformal field theories. **93a:81162**

— (*with* Shigemoto, Kazuyasu) One-point functions of loops and constraint equations of the multi-matrix models at finite N. **93d:81146**
— RG flows of nonunitary minimal CFTs. (English summary)
Akdeniz, K. G. (*with* Dayi, Ömer F.; Kızılersü, A.) Canonical description of a two-dimensional gravity. **93e:81099**
Aldaya, Víctor (*with* Navarro-Salas, José; Navarro, Miguel) Hidden symmetries in field theory. (English summary) **93j:81084**
— *see also* **Navarro-Salas, José; et al., 93g:81167**
Alekseev, A. Yu. (*with* Faddeev, L. D.) $(T^*G)_t$: a toy model for conformal field theory. **93g:81138**
Ali, Abbas (*with* Kumar, Alok[2]; Maharana, Jnanadeva; Sengupta, Gautam) Algebraic structure of topological superconformal field theory on Riemann surfaces. (English summary) **93f:81123**
Alvarez-Gaumé, Luis (*with* Zaugg, Ph.) Structure constants in the $N = 1$ superoperator algebra. **93b:81235**
— (*with* Barbón, J. L. F.; Gómez, César) Fusion rules in two-dimensional gravity. **93b:81236**
de Alwis, S. P. Quantization of a theory of 2D dilaton gravity. (English summary) **93f:81124**
— Quantum black holes in two dimensions. (English summary) **93i:81203**
— *see also* **Cohn, J. D., 93c:81200**
Ambjørn, Jan 2D gravity, random surfaces and all that. **93c:81191**
— (*with* Kristjansen, C. F.; Makeenko, Yu. M.) Higher genus correlators for the complex matrix model. (English summary)
— (*with* Chekhov, L.; Makeenko, Yu. M.) Higher genus correlators from the Hermitian one-matrix model. **93c:81190**
Anderson, Arlen Symmetric space two-matrix models. (English summary) **93h:81104**
Andreev, O. D. Modular invariant one-point correlation functions for SU(2) Wess-Zumino model. (English summary) **93i:81204**
Aoki, Kenichiro (*with* Montano, David; Sonnenschein, Jacob) The role of the contact algebra in multimatrix models. **93f:81125**
— (*with* D'Hoker, Eric) Correlation functions of minimal models coupled to two-dimensional quantum supergravity. **93b:81237**
— (*with* D'Hoker, Eric) On the Liouville approach to correlation functions for 2D quantum gravity. **93d:81147**
Aoyama, Shogo Quantization of the 2d effective gravity in the geometrical formulation. (English summary) **93e:81100**
Aratyn, Henrik (*with* Constantinidis, C. P.; Ferreira, L. A.; Gomes, J. F.; Zimerman, A. H.) Higher spin symmetries and w_∞ algebra in the conformal affine Toda model. **93b:81238**
Avan, Jean Generalized Toda and Volterra models. (English summary) **93i:81205**
Awata, Hidetoshi (*with* Tsuchiya, Akihiro; Yamada, Yasuhiko) Integral formulas for the WZNW correlation functions. **93h:81105**
Babelon, O. (*with* Bonora, L.) Exchange algebra in the conformal affine sl_2 Toda field theory. **93b:81239**
Bagger, Jonathan (*with* Goulian, Mark) Coulomb-gas construction on higher-genus Riemann surfaces. **93i:81206**
Bajnok, Z. (*with* Palla, L.; Takács, G.) A_2 Toda theory in reduced WZNW framework and the representations of the W-algebra. (English summary) **93k:81189**
Bakas, Ioannis Area-preserving diffeomorphisms and higher spin fields in two dimensions. (*see* **93g:81003**)
Balachandran, A. P. (*with* Sorkin, R. D.; McGlinn, W. D.; O'Raifeartaigh, Lochlainn; Sen, Siddhartha[1]) The spin-statistics connection from homology groups of configuration space and an anyon Wess-Zumino term. (English summary) **93m:81124**
— (*with* Bimonte, G.; Gupta, K. S.; Stern, Allen Bruce) The Chern-Simons source as a conformal family and its vertex operators. (English summary)
Balog, J. (*with* Dąbrowski, Ludwik; Fehér, László) Nonstandard quantum group in Toda and WZNW theories. (English summary) (*see* **93f:81005**)
— (*with* Palla, L.) Locality problem for the Liouville field. **93a:81163**
Banerjee, Narayan (*with* Chatterjee, D.; Ghosh, Subir) Chiral bosons coupled to Liouville gravity in the Faddeev-Jackiw formalism. (English summary) **93i:81207**
Banks, Thomas (*with* O'Loughlin, M.) Two-dimensional quantum gravity in Minkowski space. **93i:81208**
Bántay, P. Orbifolds and Hopf algebras. (*see* **93f:81005**)
Baranowski, D. (*with* Rittenberg, Vladimir; Schütz, G.) Higher symmetries in the spin-one Zamolodchikov-Fateev Hamiltonian with a finite number of sites and toroidal boundary conditions. Spectra and operator content of $N = 1$ superconformal systems. **93c:81192**
Barbón, J. L. F. *see* **Alvarez-Gaumé, Luis; et al., 93b:81236**
Bardakci, Korkut The classical parafermion algebra, its generalization and its quantization. **93a:81164**
Bars, Itzhak (*with* Sfetsos, Konstadinos) $SL(2, \mathbf{R}) \otimes SU(2)/\mathbf{R}^2$ string model in curved spacetime and exact conformal results. (English summary) **93k:81190**
Bastianelli, Fiorenzo A note on 2D chiral gravity and chiral bosons. (English summary)
Baulieu, Laurent Transmutation of pure 2D supergravity into topological 2D gravity and other conformal theories. (English summary) **93k:81191**
Belavin, A. A direct calculation of the spectrum of masses in an integrable model from the Hopf-algebra symmetry. **93h:81106**
Belov, A. A. (*with* Lozovik, Yu. E.) Renormalization-group flux on an affine-Virasoro space in connection with sporadic conformal deformations. (Russian) **93c:81193**
— (*with* Lozovik, Yu. E.) Deformations of conformal field theories with extended symmetries. (Russian) **93a:81165**
— (*with* Lozovik, Yu. E.) Exact solution of the renormalization-group equations for the two-dimensional chiral field theory. (Russian) **93f:81126**
Ben-Menahem, Shahar $D = 0$ matrix model as conjugate field theory. (English summary) **93j:81085**
Berger, Thilo On the relation between induced quantum gravity and Jackiw-Teitelboim gravity in two dimensions. (English summary)
Bergshoeff, E. A. (*with* Bilal, Adel; Stelle, K. S.) W symmetries: gauging and geometry. **93b:81240**
— (*with* de Roo, Mees) $N = 2$ w_∞ supergravity. **93i:81209**
Bernard, Denis (*with* LeClair, André) Quantum group symmetries and nonlocal currents in 2D QFT. **93d:81148**
— (*with* LeClair, André) Nonlocal currents in 2D QFT: an alternative to the quantum inverse scattering method. **93i:81210**
— On symmetries of some massless 2D field theories. **93e:81101**
Bilal, Adel *see* **Bergshoeff, E. A.; et al., 93b:81240**
Bimonte, G. (*with* Salomonson, P.; Simoni, A.; Stern, Allen Bruce) Poisson bracket algebra for chiral group elements in the WZNW model. (English summary) **93k:81192**
— *see also* **Balachandran, A. P.; et al.**
Birmingham, Danny (*with* Rakowski, Mark) Equivariance in topological gravity. (English summary) **93h:81107**
Blau, Matthias (*with* Thompson, George) Quantum Yang-Mills theory on arbitrary surfaces. **93k:81193**
Blok, B. (*with* Varchenko, A. N.) Topological conformal field theories and the flat coordinates. **93d:81149**
— (*with* Wen, Xiao-Gang) Many-body systems with nonabelian statistics. **93h:81108**
de Boer, Jan (*with* Goeree, Jacob) Markov traces and II_1 factors in conformal field theory. **93i:81211**
— Multi-matrix models and the KP hierarchy. **93d:81150**
— (*with* Goeree, Jacob) W-gravity from Chern-Simons theory. (English summary) **93j:81086**
— (*with* Goeree, Jacob) The covariant W_3 action. **93a:81166**
Bonora, L. (*with* Rinaldi, Maurizio; Russo, Jorge G.) Algebras of the Virasoro, Neveu-Schwarz, and Ramond types on genus g Riemann surfaces. (*see* **93c:81005**)
— (*with* Xiong, Chuan Sheng) An alternative approach to KP hierarchy in matrix models. **93h:81109**
— *see also* **Babelon, O., 93b:81239**
Bose, Samir Kumar On two-dimensional gravity. (English summary) **93i:81212**
Bouwknegt, Peter (*with* McCarthy, James G.; Pilch, Krzysztof) Ground ring for the two-dimensional NSR string. **93f:81127**
Braden, H. W. (*with* Corrigan, E.; Dorey, Patrick E.; Sasaki, Ryu) Aspects of perturbed conformal field theory, affine Toda field theory and exact S-matrices. **93g:81139**
— (*with* Corrigan, E.; Dorey, Patrick E.; Sasaki, Ryu) Aspects of affine Toda field theory. **93e:81102**
— (*with* Corrigan, E.; Dorey, Patrick E.; Sasaki, Ryu) Aspects of affine Toda field theory. **93h:81110**
— A note on affine Toda couplings. **93a:81167**
— (*with* Sasaki, Ryu) Affine Toda perturbation theory. **93m:81125**
Bratchikov, A. V. Renormalization properties of two-dimensional homogeneous symplectic σ-models. (English summary) **93e:81103**
Brekke, Lee (*with* Imbo, Tom D.) Statistics of 2D solitons. **93h:81111**
Brézin, Édouard (*with* Hikami, Shinobu) A naive matrix-model approach to 2D quantum gravity coupled to matter of arbitrary central charge. **93c:81194**
— (*with* Zinn-Justin, Jean) Renormalization group approach to matrix models. (English summary) **93f:81128**
Broda, B. A topological-field-theory approach to the nonabelian Stokes theorem. **93b:81241**
Brustein, Ram (*with* Ne'eman, Yuval; Sternberg, Shlomo) Conformal field theories and category theory. **93g:81140**
Bulatov, D. V. (*with* Kazakov, Vladimir Aleksandrovich[1]) Vortex-antivortex sector of one-dimensional string theory via the upside-down matrix oscillator. **93k:81194**
Burwick, T. T. (*with* Chamseddine, A. H.) Classical and quantum considerations of two-dimensional gravity. (English summary) **93f:81129**
— (*with* Chamseddine, A. H.; Meissner, K. A.) Matter coupling and spontaneous symmetry breaking in topological gravity. **93c:81195**
Buturović, E. Kazama-Suzuki models as shifted bosonic lattices. (English summary) **93i:81213**
Cangemi, D. (*with* Jackiw, R.) Gauge-invariant formulations of lineal gravities. **93f:81130**
Cappelli, Andrea (*with* Latorre, José Ignacio; Vilasís-Cardona, Xavier) Renormalization group patterns and c-theorem in more than two dimensions. **93e:81104**
Carlip, S. (*with* Gegenberg, J.) Gravitating topological matter. **93c:81196**
Caselle, M. (*with* Ponzano, G.; Ravanini, F.) Towards a classification of fusion rule algebras in rational conformal field theories. (English summary) **93j:81087**
Cecotti, Sergio (*with* Vafa, Cumrun) Topological–anti-topological fusion. **93a:81168**
Chair, Noureddine (*with* Zhu, Chuan Jie) Tetrahedra and polynomial equations in topological field theory. **93b:81242**
Chamseddine, A. H. *see* **Burwick, T. T.; et al., 93c:81195** *and* **93f:81129**
Chatterjee, D. *see* **Banerjee, Narayan; et al., 93i:81207**
Chau, Ling-Lie (*with* Yu, Yue) Unitary polynomials in normal matrix models and wave functions for the fractional quantum Hall effects. **93d:81151**
Chekhov, L. A matrix model for the classical nonlinear Schrödinger equation. **93c:81197**
— (*with* Makeenko, Yu. M.) A hint on the external field problem for matrix models. **93a:81169**
— *see also* **Ambjørn, Jan; et al., 93c:81190**
Cheng, Yi Xin A closed formulation of loop equations for the two-matrix model. **93c:81198**
— Schwinger-Dyson loop equations for the multi-matrix chain model at finite N. (English summary) **93f:81131**
Chu, Meifang (*with* Goddard, Peter; Halliday, Ian; Olive, David; Schwimmer, Adam) Quantization of the Wess-Zumino-Witten model on a circle. **93c:81199**
Chung, Myung-Hoon Generalized models with exponential interactions: the triangle model. **93k:81195**
— Space-time fluctuations coupled to primary fields. (English summary) **93g:81141**
Chung, Stephen-wei (*with* Lyman, Edwin; Tye, S.-H. Henry) Fractional supersymmetry and minimal coset models in conformal field theory. **93d:81152**
— *see also* **Ahn, Changrim; et al., 93a:81162**
Chung, Won-Sang The chiral version of the super Liouville action from the OSp(1|2) Chern-Simons theory. (English summary) **93k:81196**
Cleaver, Gerald B. (*with* Lewellen, David C.) On modular invariant partition functions for tensor product of conformal field theories. (English summary) **93m:81126**
Cohn, J. D. (*with* de Alwis, S. P.) String field theory for $d \leq 1$ matrix models. **93c:81200**
Constantinidis, C. P. (*with* Ferreira, L. A.; Gomes, J. F.; Zimerman, A. H.) Connection between the affine and conformal affine Toda models and their Hirota solution. (English

summary) **93j:81088**
— *see also* **Aratyn, Henrik; et al., 93b:81238**
Corrigan, E. *see* **Braden, H. W.; et al., 93e:81102; 93g:81139** *and* **93h:81110**
Cremmer, Eugène (*with* Gervais, Jean-Loup) The quantum strip: Liouville theory for open strings. **93i:81214**
Crescimanno, M. (*with* Hotes, S. A.) Monopoles, modular invariance and Chern-Simons field theory. **93i:81215**
Cristofano, Gerardo (*with* Maiella, G.; Musto, R.; Nicodemi, F.) Theoretical aspects of quantum Hall effect and two-dimensional CFT. (English summary) **93h:81112**
— (*with* Maiella, G.; Musto, R.; Nicodemi, F.) Coulomb gas vertex operators for the fractional quantum Hall effect. (English summary) **93i:81216**
Cugliandolo, L. F. (*with* Schaposnik, Fidel A.; Vucetich, H.) A topological model for two-dimensional gravity coupled to matter. **93d:81153**
Dąbrowski, Ludwik *see* **Balog, J.; et al., (93f:81005)**
D'Adda, A. New methods of integration in matrix models. (English summary) **93g:81142**
Dalley, Simon (*with* Johnson, Clifford V.; Morris, Tim R.) Multicritical complex matrix models and nonperturbative two-dimensional quantum gravity. **93g:81143**
— (*with* Johnson, Clifford V.; Morris, Tim R.) Nonperturbative two-dimensional quantum gravity. **93g:81144**
Danielsson, Ulf H. (*with* Gross, David J.) On the correlation functions of the special operators in $c = 1$ quantum gravity. **93b:81243**
Das, Sumit R. String fields in two-dimensional gravity. **93b:81244**
— (*with* Dhar, Avinash; Mandal, Gautam; Wadia, Spenta R.) Gauge theory formulation of the $c = 1$ matrix model: symmetries and discrete states. (English summary) **93i:81217**
— (*with* Rama, S. Kalyana) Renormalization of couplings in embedded random surfaces. (English summary)
— Physical properties and symmetries of the $d = 1$ matrix model. **93i:81218**
— Matrix models and black holes. (English summary) **93i:81219**
David, François Louis Matrix models and 2-D gravity. **93c:81201**
— What is the intrinsic geometry of two-dimensional quantum gravity? **93g:81145**
Dayi, Ömer F. *see* **Akdeniz, K. G.; et al., 93e:81099**
Degiovanni, P. Moore and Seiberg's equations and 3D topological field theory. **93k:81197**
Delduc, François (*with* Gervais, Jean-Loup; Savel'ev, M. V.) Supersymmetric black holes from Toda theories. (English summary) **93i:81220**
Delius, G. W. (*with* Grisaru, M. T.; Zanon, D.) Exact S-matrices for non-simply-laced affine Toda theories. (English summary) **93i:81221**
— (*with* Grisaru, M. T.; Zanon, D.) Quantum conserved currents in affine Toda theories. (English summary) **93k:81198**
Dhar, Avinash *see* **Das, Sumit R.; et al., 93i:81217**
D'Hoker, Eric *see* **Aoki, Kenichiro, 93b:81237** *and* **93d:81147**
Dick, Rainer Holomorphic differentials on punctured Riemann surfaces. **93g:81146**
Diego, Oscar (*with* González, José) Multicriticality in stabilized 2D quantum gravity. (English summary)
Di Francesco, Ph. (*with* Mathieu, Pierre; Sénéchal, David) Integrability of the quantum KdV equation at $c = -2$. **93b:81245**
— (*with* Mathieu, Pierre) Singular vectors and conservation laws of quantum KdV type equations. **93i:81222**
Dijkgraaf, Robbert (*with* Verlinde, Herman; Verlinde, Erik) Notes on topological string theory and 2D quantum gravity. **93c:81202**
— (*with* Pasquier, V.; Roche, Philippe) Quasi-Hopf algebras, group cohomology and orbifold models [MR 92m:81238]. (English summary) (*see* **93b:00028**)
Dine, Michael (*with* Fischler, W.; Seiberg, Nathan) Small handles and auxiliary fields. (*see* **93e:81005**)
Distler, Jacques (*with* Nelson, Philip) The dilaton equation in semirigid string theory. **93i:81223**
Di Vecchia, Paolo (*with* Moshe, Moshe) On the double scaling limit of O(N) vector models in $d = 2$. (English summary)
Dorey, Patrick E. Root systems and purely elastic S-matrices. II. **93d:81154**
— *see also* **Braden, H. W.; et al., 93e:81102; 93g:81139** *and* **93h:81110**
Dorn, H. (*with* Otto, H.-J.) Analysis of all dimensionful parameters relevant in gravitational dressing of conformal theories. **93b:81246**
Dotsenko, Vladimir S. Three-point correlation functions of the minimal conformal theories coupled to 2D gravity. **93a:81170**
— Correlation functions of local operators in 2D gravity coupled to minimal matter. (English summary) (*see* **93h:81002**)
Dubrovin, B. A. Integrable systems in topological field theory. (English summary) **93h:81113**
Eguchi, Tohru (*with* Ooguri, Hirosi) Differential equations in moduli space. (*see* **93e:81005**)
— (*with* Kawai, Toshiya; Mizoguchi, Shun'ya; Yang, Sung-Kil) Character formulas for coset $N = 2$ superconformal theories. (English summary) **93k:81199**
— (*with* Kanno, Hiroaki; Yang, Sung-Kil) W_∞ algebra in a two-dimensional black hole. (English summary) **93k:81200**
Elizalde, E. (*with* Odintsov, S. D.) Spontaneous compactification in 2D induced quantum gravity. (English summary) **93g:81147**
— (*with* Odintsov, S. D.) One-loop divergences in two-dimensional Maxwell-dilaton quantum gravity. (English summary) **93i:81224**
El'khovskiĭ, A. S. *see* **Sil'vestrov, P. G., 93e:81127**
Ellis, Jonathan Richard (*with* Mavromatos, N. E.; Nanopoulos, D. V.) The origin of space-time as W-symmetry breaking in string theory. (English summary) **93e:81105**
Evans, Jonathan M. (*with* Hollowood, Timothy J.) Erratum: "Supersymmetric Toda field theories" [Nuclear Phys. B 352 (1991), no. 3, 723–768; MR 92h:81150]. **93j:81089**
Eynard, B. (*with* Zinn-Justin, Jean) The O(n) model on a random surface: critical points and large-order behaviour. (English summary) **93k:81201**
Faddeev, L. D. *see* **Alekseev, A. Yu., 93g:81138**
Fateev, V. A. *see* **de Vega, H. J., 93e:81131**
Fehér, László (*with* O'Raifeartaigh, Lochlainn; Ruelle, Philippe; Tsutsui, Izumi; Wipf, Andreas) On Hamiltonian reductions of the Wess-Zumino-Novikov-Witten theories. (English summary) **93i:81225**
— *see also* **Tsutsui, Izumi, 93k:81224** *and* **Balog, J.; et al., (93f:81005)**
Feigin, B. L. (*with* Frenkel, Edward) Free field resolutions in affine Toda field theories. **93e:81106**
Felder, G. (*with* LeClair, André) Restricted quantum affine symmetry of perturbed minimal conformal models. (English summary) **93i:81226**
— (*with* Silvotti, R.) Conformal blocks of minimal models on a Riemann surface. **93i:81227**
Fendley, Paul (*with* Intriligator, K.) Scattering and thermodynamics in integrable $N = 2$ theories. (English summary) **93h:81114**
Ferrari, Franco Conformal field theories with nonabelian symmetry group. **93i:81228**
Ferreira, L. A. *see* **Aratyn, Henrik; et al., 93b:81238** *and* **Constantinidis, C. P.; et al., 93j:81088**
Filk, Thomas Field theory on the quantum plane. (English summary) **93i:81229**
Fiore, Gaetano *see* **Abud, Mario**
Fischler, W. *see* **Dine, Michael; et al., (93e:81005)**
Flume, Rainald The conformal block structure of perturbation theory in two dimensions. (English summary) **93k:81202**
Foda, Omar Conformal field theories on Riemann surfaces. (English summary) **93i:81230**
Fok, V. V. (*with* Nekrasov, N. A.; Roslyĭ, A. A.; Selivanov, K. G.) What we think about the higher-dimensional Chern-Simons theories. (*see* **93h:81003**)
Fokas, A. S. (*with* It·s, A. R.; Kitaev, A. V.) The isomonodromy approach to matrix models in 2D quantum gravity. **93h:81115**
— *see also* **It·s, A. R.; et al., 93e:81114**
Forger, M. *see* **Abdalla, Elcio, 93g:81136**
Foussats, A. (*with* Repetto, C.; Zandron, O. P.; Zandron, O. S.) Conformal supersymmetry of the $d = 3$ Chern-Simons theory. Canonical formalism. (English summary) **93m:81127**
Frampton, Paul H. Non-Archimedian geometry and applications to particle theory. **93h:81116**
Frenkel, Edward *see* **Feigin, B. L., 93e:81106**
Fröhlich, Jürg (*with* King, Christopher K.) Two-dimensional conformal field theory and three-dimensional topology. (*see* **93g:81074**)
Fröjdh, Per (*with* Johannesson, Henrik) The two-dimensional tricritical Ising model in restricted domains with free boundaries. **93e:81107**
Frolov, V. P. (*with* Massacand, Christophe M.; Schmid, Christoph) Quantum fluctuations around a two-dimensional black hole. **93j:81090**
Fry, M. P. Fermionic determinant of the massive Schwinger model. (English summary)
Fuchs, Jürgen From tensor products to the modular matrix S and back. (English summary) (*see* **93h:81003**)
— (*with* Klemm, Albrecht; Schmidt, Michael G.) Orbifolds by cyclic permutations in Gepner type superstrings and in the corresponding Calabi-Yau manifolds. **93b:81247**
— (*with* Ganchev, Alexander Ch.; Vecsernyés, Peter) Level 1 WZW superselection sectors. **93e:81108**
— WZW quantum dimensions. (English summary) **93i:81231**
Fucito, F. (*with* Martellini, Maurizio) Loop equations and KdV hierarchy in 2-D quantum gravity. **93a:81171**
Fujishiro, Takehiko T. (*with* Hayashi, Mitsuo J.) Review of the $N = 2$ superconformal field theory. **93b:81248**
Furlan, Paolo (*with* Ganchev, Alexander Ch.; Petkova, Valentina B.) Remarks on the quantum group structure of the rational $c < 1$ conformal theories. **93h:81117**
— (*with* Paunov, R. R.; Todorov, Ivan T.) Extended U(1) conformal field theories and Z_k-parafermions. **93c:81203**
Ganchev, Alexander Ch. *see* **Fuchs, Jürgen; et al., 93e:81108** *and* **Furlan, Paolo; et al., 93h:81117**
Gato-Rivera, B. (*with* Schellekens, A. N.) Complete classification of simple current modular invariants for RCFTs with a center $(\mathbf{Z}_p)^k$. **93d:81155**
— (*with* Semikhatov, A. M.) Minimal models from W-constrained hierarchies via the Kontsevich-Miwa transform. (English summary) **93g:81148**
Gawędzki, Krzysztof Wess-Zumino-Witten conformal field theory. (*see* **93g:81074**)
Gegenberg, J. *see* **Carlip, S., 93c:81196**
Gerasimov, A. A. (*with* Marshakov, A. V.; Mironov, A. D.; Morozov, A. Yu.; Orlov, A. Yu.) Matrix models of two-dimensional gravity and Toda theory. **93h:81118**
Gervais, Jean-Loup Solving the strongly coupled 2D gravity. I. Unitary truncation and quantum group structure. **93b:81249**
— (*with* Rostand, Bruno) On two-dimensional supergravity and the quantum super-Möbius group. **93h:81119**
— Quantum group symmetry of 2D gravity. (English summary) **93h:81120**
— 2D gravity-matter couplings from quantum group. (English summary) **93e:81109**
— (*with* Savel'ev, M. V.) Black holes from nonabelian Toda theories. (English summary) **93h:81121**
— (*with* O'Raifeartaigh, Lochlainn; Razumov, A. V.; Savel'ev, M. V.) Gauge conditions for the constrained-WZNW-Toda reductions. (English summary) **93m:81128**
— *see also* **Cremmer, Eugène, 93i:81214** *and* **Delduc, François; et al., 93i:81220**
Ghosh, Subir *see* **Banerjee, Narayan; et al., 93i:81207**
Giveon, Amit (*with* Smit, Dirk-Jan) Symmetries on the space of (2, 2) superstring vacua and automorphism groups of Calabi-Yau manifolds. (English summary) **93g:81149**
— Target space duality and stringy black holes. **93b:81250**
— (*with* Roček, Martin) Generalized duality in curved string backgrounds. (English summary) **93m:81129**
Goddard, Peter *see* **Chu, Meifang; et al., 93c:81199**
Goeree, Jacob W-constraints in 2D quantum gravity. **93e:81110**
— *see also* **de Boer, Jan, 93a:81166; 93i:81211** *and* **93j:81086**
Gomes, J. F. *see* **Aratyn, Henrik; et al., 93b:81238** *and* **Constantinidis, C. P.; et al., 93j:81088**
Gómez, César (*with* Sierra, Germán) Comments on rational conformal field theory, quantum groups and tower of algebras. **93m:81130**
— (*with* Sierra, Germán) Towers of algebras in rational conformal field theories. **93b:81251**
— (*with* Sierra, Germán) Integrability and uniformization in Liouville theory: the geometrical origin of quantized symmetries. **93h:81122**
— (*with* Sierra, Germán) Integrability and quantum symmetries [MR 92i:81279]. (*see* **93b:00028**)
— *see also* **Alvarez-Gaumé, Luis; et al., 93b:81236**
Gomis, Joaquim (*with* Suzuki, Hiroshi) $N = 2$ string as a topological conformal theory.

93a:81172

González, José (*with* Vozmediano, A. H.) On the fusion rules of conformal matter coupled to 2D quantum gravity. **93d:81156**

— *see also* **Diego, Oscar**

Goulian, Mark *see* **Bagger, Jonathan, 93i:81206**

Govindarajan, Suresh (*with* Ovrut, Burt A.) A geometric interpretation for the torsion constraints of (2, 0) heterotic worldsheet supergravity. **93g:81150**

— (*with* Jayaraman, T.; John, Varghese; Majumdar, Parthasarathi) States of nonzero ghost number in $c < 1$ matter coupled to 2D gravity. **93c:81204**

Govindarajan, T. R. $D = 1$ supersymmetric matrix model. (*see* **93h:81001**)

— *see also* **Kaul, Romesh K., 93i:81233**

Grisaru, M. T. (*with* van Nieuwenhuizen, Peter) Loop calculations in two-dimensional nonlocal field theories. (English summary)

— *see also* **Delius, G. W.; et al., 93i:81221** *and* **93k:81198**

Gross, David J. (*with* Newman, Michael J.) Unitary and Hermitian matrices in an external field. II. The Kontsevich model and continuum Virasoro constraints. (English summary) **93k:81203**

— *see also* **Danielsson, Ulf H., 93b:81243**

Grosse, Harald (*with* Kummer, Wolfgang; Prešnajder, Peter; Schwarz, Dominik J.) Novel symmetry of non-Einsteinian gravity in two dimensions. (English summary) **93k:81204**

Grübl, Gebhard (*with* Vogl, Raimund) Boost action on external field problems. **93b:81252**

Guo, Han Ying (*with* Wang, Zhong Hua; Wu, Ke) Field equations, conservation laws in 2D quantum gravity and the Beltrami-KdV-Liouville system. **93d:81157**

— (*with* Wang, Zhong Hua; Wu, Ke) On the composition laws of Beltrami-Liouville theories and 2D quantum gravity. **93d:81158**

Gupta, K. S. *see* **Balachandran, A. P.; et al.**

Guruswamy, S. (*with* Rajeev, S. G.) Two-dimensional quantum chromodynamics on a cylinder. (English summary) **93k:81205**

Halliday, Ian *see* **Chu, Meifang; et al., 93c:81199**

Halpern, M. B. (*with* Obers, N. A.) Superconformal constructions on two-dimensional simplicial complexes. **93j:81091**

— (*with* Obers, N. A.) Generalized graph theory on Lie g and applications in conformal field theory. **93m:81131**

Hamada, Ken-Ji Quantum theory of dilaton gravity in 1 + 1 dimensions. (English summary) **93m:81132**

Hamber, Herbert W. Phases of simplicial quantum gravity. (English summary) **93g:81151**

Hari Dass, N. D. Random surfaces. (*see* **93h:81001**)

Harvey, Jeffrey A. Conformal field theory in string theory. (*see* **93g:81074**)

Hayashi, Mitsuo J. *see* **Fujishiro, Takehiko T., 93b:81248**

Hikami, Shinobu *see* **Brézin, Édouard, 93c:81194**

Hollowood, Timothy J. (*with* Miramontes, J. Luis; Pasquinucci, Andrea; Nappi, Chiara R.) Hermitian versus anti-Hermitian one-matrix models and their hierarchies. **93e:81111**

— *see also* **Evans, Jonathan M., 93j:81089**

Hořava, Petr Two-dimensional stringy black holes with one asymptotically flat domain. (English summary) **93f:81132**

Horne, James H. (*with* Martin, Stephen P.) On the form of the free energy in 2D gravity theories. **93b:81253**

Hosono, Shinobu Physical states in quantum Liouville theory. **93k:81206a**

— Errata: "Physical states in quantum Liouville theory". **93k:81206b**

Hotes, S. A. *see* **Crescimanno, M., 93i:81215**

Hou, Bo Yu (*with* Shi, Kang Jie; Yue, Rui Hong) Explicit expressions for fusion and braid matrices in the unitary minimal model. (Chinese. English summary) **93e:81112**

Hu, Hong Liang Gauged WZNW models and topological conformal field theories. **93h:81123**

Hu, Zhan Ning *see* **Wang, Pei, 93j:81097**

Huang, Tao (*with* Zhang, Xinmin) Composite sphalerons in the O(3) nonlinear σ-model. **93c:81205**

Hull, C. M. $\mathscr{W}$-gravities, Toda theories and the geometry of the central charge. **93c:81206**

Ichinose, Ikuo (*with* Mukaida, Hisamitsu) The U(1) gauge-Higgs model in two dimensions and topological field theory. **93g:81152**

Ikeda, Noriaki (*with* Izawa, Ken-Iti) Quantum gravity with dynamical torsion in two dimensions. (English summary) **93k:81207**

Imbo, Tom D. *see* **Brekke, Lee, 93h:81111**

Intriligator, K. *see* **Fendley, Paul, 93h:81114**

Ishibashi, Nobuyuki Extra observables in gauged WZW models. **93e:81113**

Ishizuka, Wataru *see* **Kikuchi, Yukio, 93e:81116**

Isidro, José-M. (*with* Labastida, J. M. F.; Ramallo, A. V.) Coset constructions in Chern-Simons gauge theory. **93d:81159**

Isler, Karl (*with* Lina, Jean-Marc) Canonical quantization of the induced 2D gravity. **93c:81207**

Ito, Katsushi $N = 2$ superconformal CP_n model. **93c:81208**

Itoh, Katsumi (*with* Ohta, Nobuyoshi) BRST cohomology and physical states in two-dimensional supergravity coupled to $\hat{c} \leq 1$ matter. **93g:81153**

It·s, A. R. (*with* Kitaev, A. V.; Fokas, A. S.) Matrix models of two-dimensional quantum gravity, and isomonodromic solutions of Painlevé "discrete equations". (Russian. English summary) **93e:81114**

— *see also* **Fokas, A. S.; et al., 93h:81115**

Ivanov, Evgenii Alekseevich[2] (*with* Krivonos, S. O.; Leviant, V. M.) $N = 3$ and $N = 4$ superconformal WZNW sigma models in superspace. II. The $N = 4$ case. **93c:81209**

— (*with* Krivonos, S. O.; Pichugin, A.) Nonlinear realizations of W_3 symmetry. **93e:81115**

Izawa, Ken-Iti *see* **Ikeda, Noriaki, 93k:81207**

Jackiw, R. *see* **Cangemi, D., 93f:81130**

Jain, Sanjay[2] (*with* Mathur, Samir D.) World-sheet geometry and baby universes in 2D quantum gravity. (English summary) **93d:81160**

Jatkar, D. P. WKB analysis of the string equation. (English summary) (*see* **93h:81001**)

Jayaraman, T. *see* **Govindarajan, Suresh; et al., 93c:81204**

Jevicki, Antal Matrix models and field theory. (English summary) (*see* **93f:81005**)

Jiménez Lorenzo, Fernando The quantized symmetries of $N = 2$ superconformal field theories. **93a:81173**

Johannesson, Henrik *see* **Fröjdh, Per, 93e:81107**

John, Varghese *see* **Govindarajan, Suresh; et al., 93c:81204**

Johnson, Clifford V. (*with* Morris, Tim R.; Spence, Bill) Stable nonperturbative minimal models coupled to 2D quantum gravity. (English summary) **93i:81232**

— (*with* Morris, Tim R.; Wätterstam, Anders) Global KdV flows and stable 2D quantum gravity. (English summary) **93g:81154**

— *see also* **Dalley, Simon; et al., 93g:81143** *and* **93g:81144**

Jónsson, Thórdur Topological lattice theories in two dimensions. **93g:81155**

Jungnickel, Dirk *see* **Stieberger, S.; et al., 93g:81176**

Kachru, Shamit Quantum rings and recursion relations in 2D quantum gravity. **93d:81161**

Kanno, Hiroaki *see* **Eguchi, Tohru; et al., 93k:81200**

Kantowski, R. (*with* Marzban, Caren) One-loop Vilkovisky-DeWitt counterterms for two-dimensional gravity plus scalar field theory. (English summary) **93k:81208**

Karabali, Dimitra Gauged WZW models and the coset construction of conformal field theories. **93c:81210**

Katanaev, M. O. Conformal invariance, extremals, and geodesics in two-dimensional gravity with torsion. **93h:81124**

Kato, Mitsuhiro Flat connection, conformal field theory and quantum group. **93d:81162**

Kaul, Romesh K. (*with* Govindarajan, T. R.) Three-dimensional Chern-Simons theory as a theory of knots and links. (English summary) **93i:81233**

Kausch, H. G. (*with* Watts, G. M. T.) Duality in quantum Toda theory and W-algebras. (English summary) **93i:81234**

Kawai, Hikaru Quantum gravity and random surfaces. (English summary) **93g:81156**

Kawai, Toshiya (*with* Nakatsu, Toshio) Comments on generalized quantum Hamiltonian reductions. **93g:81157a**

— (*with* Nakatsu, Toshio) Errata: "Comments on generalized quantum Hamiltonian reductions". **93g:81157b**

— *see also* **Eguchi, Tohru; et al., 93k:81199**

Kazakov, Vladimir Aleksandrovich[1] *see* **Bulatov, D. V., 93k:81194**

Khadzhiivanov, L. K. *see* **Stanev, Ya. S.; et al., 93c:81226**

Kharchev, S. M. (*with* Mironov, A. D.) Integrable structures of unitary matrix models. (English summary) **93h:81125**

Kikuchi, Yukio (*with* Ishizuka, Wataru) Improved $SU(2)_k$ Wess-Zumino-Witten model. **93e:81116**

Kim, Sung Ku (*with* Namgung, Wuk; Soh, Kwang Sup; Yee, Jae Hyung) Zero modes of the solitons of the principal chiral model and the nonrelativistic Chern-Simons systems. (English summary) **93f:81133**

— (*with* Soh, Kwang Sup; Yee, Jae Hyung) (1 + 1)-dimensional gravity through a dimensional reduction. (English summary) **93k:81209**

King, Christopher K. *see* **Fröhlich, Jürg, (93g:81074)**

Kitaev, A. V. *see* **It·s, A. R.; et al., 93e:81114** *and* **Fokas, A. S.; et al., 93h:81115**

Kitazawa, Yoshihisa L_{-1} constraint in Liouville gravity. **93i:81235**

Kızılersü, A. *see* **Akdeniz, K. G.; et al., 93e:81099**

Klassen, Timothy R. (*with* Melzer, Ezer) Spectral flow between conformal field theories in 1 + 1 dimensions. **93b:81254**

— (*with* Melzer, Ezer) Kinks in finite volume. (English summary) **93i:81236**

Kleban, P. (*with* Vassileva, I.) Domain boundary energies in finite regions at 2D criticality via conformal field theory. (English summary) **93i:81237**

Klebanov, Igor R. Ward identities in two-dimensional string theory. **93b:81255**

Klemm, Albrecht (*with* Theisen, Stefan; Schmidt, Michael G.) Correlation functions for topological Landau-Ginzburg models with $c \leq 3$. (English summary) **93k:81210**

— *see also* **Fuchs, Jürgen; et al., 93b:81247**

Knecht, M. (*with* Lazzarini, S.; Stora, Raymond) On holomorphic factorization for free conformal fields. II. **93a:81174**

Kneipp, Marco A. C. Generalized abelian Chern-Simons theories and their connection to conformal field theories. (English summary) **93c:81211**

Kobayashi, Ken-ichiro (*with* Uematsu, Tsuneo) $N = 2$ supersymmetric sine-Gordon theory and conservation laws. **93f:81134**

— (*with* Uematsu, Tsuneo) S-matrix of $N = 2$ supersymmetric sine-Gordon theory. **93h:81126**

Koehler, Kenneth Rowland (*with* Mansouri, F.; Vaz, Cenalo; Witten, L.) Scattering in Chern-Simons gravity. (English summary) (*see* **93f:81005**)

Kogan, Ya. I. Quantum Liouville theory from topologically massive gravity: 1 + 1 cosmological constant as square of 2 + 1 graviton mass. **93h:81127**

Konisi, Gaku (*with* Saito, Takesi; Takahasi, Wataru) Weak constraints in conformal field theories on higher-genus Riemann surfaces. Calculation of the Schwarzian connection and modified vertex operators. **93h:81128**

Konno, Hitoshi Bosonized operator formalism for fermions with odd spin structures and anomaly calculation. (English summary) **93j:81092**

Korchemskii, G. P. Matrix model perturbed by higher order curvature terms. (English summary) **93f:81135**

Koubek, A. (*with* Martins, Márcio José; Mussardo, Giuseppe) Scattering matrices for $\varphi_{1,2}$ perturbed conformal minimal models in absence of kink states. **93a:81175**

Kreuzer, Maximilian (*with* Schimmrigk, Rolf; Skarke, Harald) Abelian Landau-Ginzburg orbifolds and mirror symmetry. **93d:81163**

Kriele, Marcus On (1 + 1)-gravity. (English summary) **93f:81136**

Kristjansen, C. F. *see* **Ambjørn, Jan; et al.**

Krivonos, S. O. *see* **Ivanov, Evgenii Alekseevich**[2]**; et al., 93c:81209** *and* **93e:81115**

Kuang, Le Man $N = 2$ superconformal algebra on higher-genus Riemann surfaces. **93i:81238**

Kumar, Alok[2] (*with* Maharana, Jnanadeva) Four matrix model in KdV approach. (English summary) (*see* **93h:81001**)

— (*with* Maharana, Jnanadeva; Sengupta, Gautam) Krichever-Novikov formulation of topological conformal field theory. **93e:81117**

— (*with* Maharana, Jnanadeva) Tetracritical Ising model coupled to the two-dimensional gravity. (English summary) **93i:81239**

— (*with* Maharana, Jnanadeva) Topological field theory from $N = 3$ superconformal theory. **93c:81212**

— *see also* **Ali, Abbas; et al., 93f:81123**

Kummer, Wolfgang (*with* Schwarz, Dominik J.) Renormalization of R^2 gravity with dynamical torsion in $d = 2$. (English summary) **93f:81137**

— *see also* **Grosse, Harald; et al., 93k:81204**

Kutasov, David (*with* Seiberg, Nathan) Number of degrees of freedom, density of states and tachyons in string theory and CFT. **93b:81256**

— Irreversibility of the renormalization group flow in two-dimensional quantum gravity. (English summary) **93e:81118**

— (*with* Martinec, Emil J.; Seiberg, Nathan) Ground rings and their modules in 2D gravity with $c \leq 1$ matter. **93e:81119**

Kuzenko, S. M. (*with* Solov'ev, O. A.) Equations for two-point correlators on compact Riemann surfaces. (Russian. English summary) **93c:81213**

La, HoSeong Geometric Liouville gravity. **93g:81158**

Labastida, J. M. F. (*with* Llatas, P. M.) Topological matter in two dimensions. **93h:81129**

— *see also* **Isidro, José-M.; et al., 93d:81159**

Lacki, Jan Soliton equations, minimal Kazama-Suzuki models and 2-dimensional gravity. (English summary) **93i:81240**

Lam, C. S. *see* **Li, Z.-S., 93k:81212a** *and* **93k:81212b**

Lang, K. (*with* Rühl, W.) Field algebra for critical O(N) vector (nonlinear σ) models at $2 < d < 4$. (*see* **93f:81005**)

Lashkevich, M. Yu. Bosonization of 2D conformal minimal-like field theories. (English summary) **93i:81241**

Lässig, Michael Multiple crossover phenomena and scale hopping in two dimensions. (English summary) **93g:81159**

— New hierarchies of multicriticality in two-dimensional field theory. **93c:81214**

Latorre, José Ignacio *see* **Cappelli, Andrea; et al., 93e:81104**

Lauer, J. *see* **Stieberger, S.; et al., 93g:81176**

Lazzarini, S. (*with* Stora, Raymond) Ward identities for Lagrangian conformal models. **93b:81257**

— *see also* **Knecht, M.; et al., 93a:81174**

Lechtenfeld, Olaf Semiclassical approach to finite-N matrix models. (English summary) **93i:81242**

— (*with* Nappi, Chiara R.) Dilaton gravity and no-hair theorem in two dimensions. (English summary) **93g:81160**

LeClair, André Integrable restrictions of quantum soliton theory and minimal conformal series. **93a:81176**

— (*with* Nemeschansky, D.; Warner, N. P.) S-matrices for perturbed $N = 2$ superconformal field theory from quantum groups. (English summary) **93k:81211**

— *see also* **Bernard, Denis, 93d:81148; 93i:81210** *and* **Felder, G., 93i:81226**

Lenz, F. (*with* Thies, M.; Levit, S.) Hamiltonian formulation of two-dimensional gauge theories on the light cone. **93f:81138**

Lerche, W. (*with* Warner, N. P.) Polytopes and solitons in integrable, $N = 2$ supersymmetric Landau-Ginzburg theories. **93h:81130**

Leviant, V. M. *see* **Ivanov, Evgenii Alekseevich[2]; et al., 93c:81209**

Levit, S. *see* **Lenz, F.; et al., 93f:81138**

Lewellen, David C. Sewing constraints for conformal field theories on surfaces with boundaries. **93d:81164**

— *see also* **Cleaver, Gerald B., 93m:81126**

Li, Z.-S. (*with* Lam, C. S.) Minimal-rank models from nonabelian orbifolds. (English summary) **93k:81212a**

— (*with* Lam, C. S.) Errata: "Minimal-rank models from nonabelian orbifolds". **93k:81212b**

Lian, Bong H. (*with* Zuckerman, Gregg J.) Semi-infinite homology and 2D gravity. I. **93h:81131**

Lina, Jean-Marc *see* **Isler, Karl, 93c:81207**

Llatas, P. M. *see* **Labastida, J. M. F., 93h:81129**

Lozovik, Yu. E. *see* **Belov, A. A., 93a:81165; 93c:81193** *and* **93f:81126**

Lu, H. (*with* Pope, C. N.; Shen, Xiang) Topological w_∞ and W_N gravities from flat SL(∞, **R**) connections. **93b:81258**

Lyman, Edwin *see* **Chung, Stephen-wei; et al., 93d:81152**

Mahapatra, Swapna Four-dimensional two-brane solution in chiral gauged Wess-Zumino-Witten model. (English summary) **93g:81161**

— (*with* Mukherji, Sudipta; Sengupta, Anirvan M.) Target space interpretation of new moduli in 2D string theory. (English summary) **93k:81213**

Maharana, Jnanadeva *see* **Kumar, Alok[2], 93c:81212; 93e:81117; Ali, Abbas; et al., 93f:81123; Kumar, Alok[2], 93i:81239** *and* **(93h:81001)**

Maiella, G. *see* **Cristofano, Gerardo; et al., 93h:81112** *and* **93i:81216**

Majumdar, Parthasarathi On the geometrical origin of the fermionic gauge symmetry in Green-Schwarz-Siegel superstrings. (English summary) (*see* **93h:81001**)

— Two-dimensional gravity with boundary. **93b:81259**

— *see also* **Govindarajan, Suresh; et al., 93c:81204**

Makeenko, Yu. M. (*with* Semenoff, Gordon W.) Properties of Hermitian matrix models in an external field. **93d:81165**

— *see also* **Chekhov, L., 93a:81169; Ambjørn, Jan; et al., 93c:81190**

Mandal, Gautam *see* **Das, Sumit R.; et al., 93i:81217**

Mann, Robert B. (*with* Zheng, H. B.) Perturbed W_3 conformal theories and spin-4/3 parafermionic coset models. **93b:81260**

— (*with* Ross, S. F.) Matching conditions and gravitational collapse in two-dimensional gravity. (English summary) **93j:81093**

Mansfield, P. (*with* Spence, Bill) Anomaly cancellation for super-$\mathscr{W}$-gravity. **93c:81215**

Mansouri, F. *see* **Koehler, Kenneth Rowland; et al., (93f:81005)**

Marshakov, A. V. (*with* Mironov, A. D.; Morozov, A. Yu.) Generalized matrix models as conformal field theories. Discrete case. **93h:81132**

— *see also* **Gerasimov, A. A.; et al., 93h:81118**

Martellini, Maurizio (*with* Spreafico, M.; Yoshida, Kensuke) A continuum string model for $D > 1$. **93d:81166**

— *see also* **Fucito, F., 93a:81171**

Martin, Stephen P. *see* **Horne, James H., 93b:81253**

Martinec, Emil J. (*with* Shatashvili, S. L.) Black-hole physics and Liouville theory. **93a:81177**

— *see also* **Kutasov, David; et al., 93e:81119**

Martins, Márcio José The thermodynamic Bethe ansatz for deformed WA_{N-1} conformal field theories. **93a:81178**

— *see also* **Koubek, A.; et al., 93a:81175**

Marzban, Caren (*with* Viswanathan, R. Raju) Matrix models with $\gamma_{\text{string}} > 0$. **93b:81261**

— *see also* **Kantowski, R., 93k:81208**

Massacand, Christophe M. *see* **Frolov, V. P.; et al., 93j:81090**

Mathieu, Pierre Integrability off criticality and quantum integrable systems. **93b:81262**

— *see also* **Di Francesco, Ph.; et al., 93b:81245** *and* **93i:81222**

Mathur, Samir D. Quantum Kac-Moody symmetry in integrable field theories. **93d:81167**

— *see also* **Jain, Sanjay[2], 93d:81160**

Matsuo, Yutaka Current algebra and extended 2D gravity with higher spin gauge field. **93b:81263**

— Some additional solutions of conformal turbulence. (English summary) **93k:81214**

Mavromatos, N. E. *see* **Ellis, Jonathan Richard; et al., 93e:81105**

McArthur, I. N. WZW superconformal blocks from three dimensions. **93a:81179**

McCarthy, James G. *see* **Bouwknegt, Peter; et al., 93f:81127**

McGlinn, W. D. *see* **Balachandran, A. P.; et al., 93m:81124**

McGuigan, Michael D. (*with* Nappi, Chiara R.; Yost, Scott A.) Charged black holes in two-dimensional string theory. **93g:81162**

Meissner, K. A. *see* **Burwick, T. T.; et al., 93c:81195**

Melzer, Ezer *see* **Klassen, Timothy R., 93b:81254** *and* **93i:81236**

Menotti, P. (*with* Seminara, D.) The radial gauge in $(2 + 1)$-dimensional gravity: solution of the symmetry constraint. **93g:81163**

Miković, Aleksandar Hamiltonian construction of W-gravity actions. **93f:81139**

— Exactly solvable models of 2D dilaton quantum gravity. (English summary) **93f:81140**

Minahan, Joseph A. Flows and solitary waves in unitary matrix models with logarithmic potentials. **93c:81216**

Minic, Djordje (*with* Yang, Zhu) Is $S = 1$ for $c = 1$? **93a:81180**

Miramontes, J. Luis (*with* Sánchez Guillén, Joaquín) Universality and nonperturbative definitions of 2D quantum gravity from matrix models. (English summary) **93k:81215**

— (*with* Sánchez Guillén, Joaquín) Instantons in the quantum framework of 2D gravity. (English summary) **93f:81141**

— *see also* **Hollowood, Timothy J.; et al., 93e:81111**

Mironov, A. D. *see* **Gerasimov, A. A.; et al., 93h:81118; Kharchev, S. M., 93h:81125** *and* **Marshakov, A. V.; et al., 93h:81132**

Mizoguchi, Shun'ya (*with* Nakatsu, Toshio) BRST structure of the W_3 minimal model. **93e:81120**

— *see also* **Eguchi, Tohru; et al., 93k:81199**

Mohammedi, Noureddine A nondegenerate semiclassical Lagrangian for dilaton-gravity in two dimensions. (English summary) **93f:81142**

— Modified black holes in two-dimensional gravity. **93b:81264**

Montano, David Unconventional methods in 2D quantum gravity: solving $(1, q)$ models. (English summary) **93g:81164**

— *see also* **Aoki, Kenichiro; et al., 93f:81125**

Moore, Gregory W. (*with* Seiberg, Nathan) Lectures on RCFT. **93m:81133b**

— (*with* Seiberg, Nathan) Lectures on RCFT. **93m:81133a**

— Matrix models of 2D gravity and isomonodromic deformation. (English summary) **93i:81243**

— (*with* Seiberg, Nathan; Staudacher, Matthias) From loops to states in two-dimensional quantum gravity. **93c:81217**

— (*with* Seiberg, Nathan) From loops to fields in 2D quantum gravity. **93h:81133**

— (*with* Plesser, M. Ronen; Ramgoolam, Sanjaye) Exact S-matrix for two-dimensional string theory. **93i:81244**

— *see also* **Read, N., 93j:81094**

Morchio, G. (*with* Pierotti, D.; Strocchi, F.) Infrared and vacuum structure in two-dimensional models of local quantum field theory. II. Fermion bosonization. **93h:81134**

Morozov, A. Yu. *see* **Gerasimov, A. A.; et al., 93h:81118** *and* **Marshakov, A. V.; et al., 93h:81132**

Morris, Tim R. Multicritical matter from complex matrices. (English summary) **93g:81165**

— *see also* **Dalley, Simon; et al., 93g:81143; 93g:81144; Johnson, Clifford V.; et al., 93g:81154** *and* **93i:81232**

Moshe, Moshe *see* **Di Vecchia, Paolo**

Mukaida, Hisamitsu *see* **Ichinose, Ikuo, 93g:81152**

Mukherji, Sudipta (*with* Mukhi, Sunil; Sen, Ashoke) Black hole solution and its infinite parameter generalization in $c = 1$ string field theory. **93b:81265**

— *see also* **Mahapatra, Swapna; et al., 93k:81213**

Mukhi, Sunil *see* **Mukherji, Sudipta; et al., 93b:81265**

Mussardo, Giuseppe Away from criticality: some results from the S matrix approach. **93e:81121**

— Integrable deformations of the nonunitary minimal conformal model $\mathscr{M}_{3,5}$. (English summary) **93g:81166**

— Integrable deformations of conformal theories and bootstrap trees. (English summary) **93i:81246**

— Off-critical statistical models: factorized scattering theories and bootstrap program. (English summary) **93i:81245**

— *see also* **Koubek, A.; et al., 93a:81175**

Musto, R. *see* **Cristofano, Gerardo; et al., 93h:81112** *and* **93i:81216**

Muta, T. (*with* Odintsov, S. D.; Sato, Harutada) Semiclassical approach in the dilatonic gravity coupled to Gross-Neveu fermions. (English summary)

Myers, Robert C. Two-dimensional quantum gravity from matrix models. **93d:81168**

Nahm, Werner Normal ordered products and parafields in conformal QFT_2. **93c:81218**

Nakanishi, Noboru *see* **Abe, Mitsuo, 93c:81189** *and* **93f:81122**

Nakanishi, Tomoki (*with* Tsuchiya, Akihiro) Level-rank duality of WZW models in conformal field theory. **93a:81181**

Nakatsu, Toshio (*with* Sugawara, Yuji) BRST-fixed points and topological conformal symmetry. (English summary) **93k:81216**

— Supersymmetric gauged Wess-Zumino-Witten models. **93c:81219**

— *see also* **Mizoguchi, Shun'ya, 93c:81120; Kawai, Toshiya, 93g:81157a** *and* **93g:81157b**

Namgung, Wuk *see* **Kim, Sung Ku; et al., 93f:81133**

Nanopoulos, D. V. *see* **Ellis, Jonathan Richard; et al., 93e:81105**

Nappi, Chiara R. (*with* Pasquinucci, Andrea) Thermodynamics of two-dimensional black holes. (English summary)

— *see also* **Hollowood, Timothy J.; et al., 93e:81111**; **Lechtenfeld, Olaf, 93g:81160** *and* **McGuigan, Michael D.; et al., 93g:81162**

Navarro, Miguel *see* **Navarro-Salas, José; et al., 93g:81167** *and* **Aldaya, Víctor; et al., 93j:81084**

Navarro-Salas, José (*with* Navarro, Miguel; Aldaya, Víctor) Covariant phase space quantization of the Jackiw-Teitelboim model of two-dimensional gravity. (English summary) **93g:81167**

— *see also* **Aldaya, Víctor; et al., 93j:81084**

Ne'eman, Yuval *see* **Brustein, Ram; et al., 93g:81140**

Nekrasov, N. A. *see* **Fok, V. V.; et al., (93h:81003)**

Nelson, Jeanette (*with* Regge, T.) 2 + 1 gravity for genus > 1. **93b:81266a**

— (*with* Regge, T.) 2 + 1 quantum gravity. **93b:81266b**

— (*with* Regge, T.) $SU(2)_q$ and 2 + 1 quantum gravity. (English summary) **93e:81122**

Nelson, Philip Operator formalism and holomorphic factorization in supermoduli. **93g:81168**

— Some simple supermoduli spaces. **93g:81169**

— Beyond conformal field theory. **93e:81123**

— Virasoro model space and 2D gravity. **93h:81135**

— *see also* **Distler, Jacques, 93i:81223**

Nemeschansky, D. *see* **LeClair, André; et al., 93k:81211**

Neuberger, Herbert Regularized string and flow equations. **93b:81267**

— Matrix models and KdV. **93c:81220**

Newman, Michael J. *see* **Gross, David J., 93k:81203**

Nicodemi, F. *see* **Cristofano, Gerardo; et al., 93h:81112** *and* **93i:81216**

van Nieuwenhuizen, Peter *see* **Ooguri, Hirosi; et al., 93c:81221** *and* **Grisaru, M. T.**

Nissimov, E. (*with* Pacheva, S.; Vaisburd, I. D.) Induced W_∞ gravity as a WZNW model. (English summary) **93e:81124**

Nojiri, Shin'ichi Marginal deformations of superconformal field theories and superstrings. **93b:81268**

— (*with* Oda, Ichiro) Dilatonic supergravity in two dimensions and the disappearance of quantum black hole. (English summary) **93i:81247**

Obers, N. A. *see* **Halpern, M. B., 93j:81091** *and* **93m:81131**

Oda, Ichiro *see* **Nojiri, Shin'ichi, 93i:81247**

Odintsov, S. D. Induced two-dimensional quantum gravity with action of general form. (Russian. English and Russian summaries) **93f:81143**

— *see also* **Elizalde, E., 93g:81147**; **93i:81224** *and* **Muta, T.; et al.**

Ohta, Nobuyoshi (*with* Suzuki, Hisao) Interactions of discrete states with nonzero ghost number in $c = 1$ 2D gravity. (English summary)

— *see also* **Itoh, Katsumi, 93g:81153**

Olive, David *see* **Chu, Meifang; et al., 93c:81199**

O'Loughlin, M. *see* **Banks, Thomas, 93i:81208**

Ol'shanetskiĭ, M. A. From conformal symmetries to integrable models. (English summary) (*see* **93f:81005**)

— Generalized $c = 1$ matrix models and symmetric spaces. (English summary) **93e:81125**

Ooguri, Hirosi (*with* Schoutens, Kareljan; Sevrin, A.; van Nieuwenhuizen, Peter) The induced action of W_3 gravity. **93c:81221**

— *see also* **Eguchi, Tohru, (93e:81005)**

O'Raifeartaigh, Lochlainn (*with* Ruelle, Philippe; Tsutsui, Izumi) Quantum equivalence of constrained WZNW and Toda theories. **93b:81269**

— *see also* **Fehér, László; et al., 93i:81225**; **Balachandran, A. P.; et al., 93m:81124** *and* **Gervais, Jean-Loup; et al., 93m:81128**

Orlov, A. Yu. *see* **Gerasimov, A. A.; et al., 93h:81118**

Oshima, Kazuto Modular properties of scalar field theories in three dimensions. (English summary) **93m:81134**

Otto, H.-J. *see* **Dorn, H., 93b:81246**

Ovrut, Burt A. *see* **Govindarajan, Suresh, 93g:81150**

Pacheva, S. *see* **Nissimov, E.; et al., 93e:81124**

Pal'chik, M. Ya. (*with* Zaĭkin, V. N.) Conformal invariant D-dimensional field theory. (*see* **93h:81003**)

Palla, L. Perturbing conformal field theories with extended symmetries. (English summary) (*see* **93f:81005**)

— *see also* **Balog, J., 93a:81163** *and* **Bajnok, Z.; et al., 93k:81189**

Papadopoulos, George J. (*with* Spence, Bill) The canonical structure of Wess-Zumino-Witten models. (English summary) **93k:81217**

Park, Q-Han 4-D self-dual instantons from 2-D sigma model. (English summary) **93i:81248**

— 2D sigma model approach to 4D instantons. **93a:81182**

Parthasarathy, Ragavachariar (*with* Viswanathan, K. S.) A realization of W gravities in the conformal gauge through generalized Gauss maps. **93a:81183**

Pasquier, V. *see* **Dijkgraaf, Robbert; et al., (93b:00028)**

Pasquinucci, Andrea *see* **Hollowood, Timothy J.; et al., 93e:81111** *and* **Nappi, Chiara R.**

Paunov, R. R. *see* **Furlan, Paolo; et al., 93c:81203**

Petkova, Valentina B. *see* **Furlan, Paolo; et al., 93h:81117**

Pichugin, A. *see* **Ivanov, Evgenii Alekseevich²; et al., 93e:81115**

Pierotti, D. *see* **Morchio, G.; et al., 93h:81134**

Piette, Bernard (*with* Tchrakian, D. H.; Zakrzewski, Wojciech J.) A class of two-dimensional models with extended structure solutions. **93c:81222**

Pilch, Krzysztof *see* **Bouwknegt, Peter; et al., 93f:81127**

Plesser, M. Ronen *see* **Moore, Gregory W.; et al., 93i:81244**

Polchinski, Joseph Ward identities in two-dimensional gravity. **93c:81223**

Ponzano, G. *see* **Caselle, M.; et al., 93j:81087**

Pope, C. N. (*with* Romans, L. J.; Stelle, K. S.) Anomaly-free W_3 gravity and critical W_3 strings. **93e:81126**

— *see also* **Lu, H.; et al., 93b:81258**

Prešnajder, Peter *see* **Grosse, Harald; et al., 93k:81204**

Pugay, Ya. P. Quantum analogue of the Gel'fand-Dikiĭ bracket (via quantum Miura transformation). **93g:81170**

Raiten, E. Asymptotic behavior of 2D black holes. (English summary) **93i:81249**

Rajeev, S. G. *see* **Guruswamy, S., 93k:81205**

Rakowski, Mark *see* **Birmingham, Danny, 93h:81107**

Rama, S. Kalyana *see* **Das, Sumit R.**

Ramallo, A. V. *see* **Isidro, José-M.; et al., 93d:81159**

Ramgoolam, Sanjaye *see* **Moore, Gregory W.; et al., 93i:81244**

Ramírez Romero, Cupatitzio (*with* Ruegg, Henri; Ruiz-Altaba, M.) The contour picture of quantum groups: conformal field theories. **93c:81224**

Rankin, S. J. SU(∞) and the large-N limit. (English summary) **93k:81218**

Ravanini, F. On the possibility of Z_N exotic supersymmetry in two-dimensional conformal field theory. (English summary) **93i:81250**

— Thermodynamic Bethe ansatz for $\mathcal{G}_k \otimes \mathcal{G}_l / \mathcal{G}_{k+l}$ coset models perturbed by their $\varphi_{1,1,\mathrm{Adj}}$ operator. **93d:81169**

— (*with* Tateo, R.; Valleriani, A.) A new family of diagonal *ADE*-related scattering theories. (English summary) **93i:81251**

— *see also* **Caselle, M.; et al., 93j:81087**

Razumov, A. V. *see* **Gervais, Jean-Loup; et al., 93m:81128**

Read, N. (*with* Moore, Gregory W.) Fractional quantum Hall effect and nonabelian statistics. (English summary) **93j:81094**

Regge, T. *see* **Nelson, Jeanette, 93b:81266a**; **93b:81266b** *and* **93e:81122**

Repetto, C. *see* **Foussats, A.; et al., 93m:81127**

Rinaldi, Maurizio *see* **Bonora, L.; et al., (93e:81005)**

Rittenberg, Vladimir *see* **Baranowski, D.; et al., 93c:81192**

Roček, Martin (*with* Verlinde, Erik) Duality, quotients, and currents. **93g:81171**

— *see also* **Giveon, Amit, 93m:81129**

Roche, Philippe *see* **Dijkgraaf, Robbert; et al., (93b:00028)**

Romans, L. J. *see* **Pope, C. N.; et al., 93e:81126**

de Roo, Mees *see* **Bergshoeff, E. A., 93i:81209**

Roslyĭ, A. A. *see* **Fok, V. V.; et al., (93h:81003)**

Ross, S. F. *see* **Mann, Robert B., 93j:81093**

Rostand, Bruno *see* **Gervais, Jean-Loup, 93h:81119**

Ruegg, Henri *see* **Ramírez Romero, Cupatitzio; et al., 93c:81224**

Ruelle, Philippe *see* **O'Raifeartaigh, Lochlainn; et al., 93b:81269** *and* **Fehér, László; et al., 93i:81225**

Rühl, W. *see* **Lang, K., (93f:81005)**

Ruiz-Altaba, M. *see* **Ramírez Romero, Cupatitzio; et al., 93c:81224**

Russo, Jorge G. (*with* Tseytlin, A. A.) Scalar-tensor quantum gravity in two dimensions. (English summary) **93i:81252**

— Black hole formation in $c = 1$ string field theory. (English summary)

— *see also* **Bonora, L.; et al., (93e:81005)**

Saakyan, D. B. (*with* Shagoyan, R. M.) Topology distribution of the contribution of diagrams of a one-matrix integral of Hermitian matrices of high order. (Russian) **93a:81184**

Sabra, W. A. Hidden Kac-Moody symmetry and 2D quantum supergravity. **93j:81095**

Saidi, E. H. (*with* Zakkari, M.) Integral representation of the $N = 4$ conformal anomaly. **93b:81270**

— Chiral rings in the $N = 4$ SU(2) conformal theory. (English summary) **93k:81219**

Saito, Takesi *see* **Konisi, Gaku; et al., 93h:81128**

Saitoh, Yoshihiro (*with* Shimada, Tokuzo) On the vanishing couplings in $\hat{A}\hat{D}\hat{E}$ affine Toda field theories. (English summary) **93g:81172**

— (*with* Shimada, Tokuzo) Note on the stability in $\hat{A}\hat{D}\hat{E}$ affine Toda field theories. **93b:81271**

Sakai, Norisuke (*with* Tanii, Yoshiaki) Physical degrees of freedom in 2D string field theories. (English summary)

Salomonson, P. *see* **Bimonte, G.; et al., 93k:81192**

Sánchez Guillén, Joaquín *see* **Miramontes, J. Luis, 93f:81141** *and* **93k:81215**

Sasaki, Ryu Reduction of the affine Toda field theory. (English summary) **93k:81220**

— (*with* Zen, Freddy Permana) The affine Toda S-matrices vs perturbation theory. (English summary) **93k:81221**

— *see also* **Braden, H. W.; et al., 93e:81102**; **93g:81139**; **93h:81110** *and* **93m:81125**

Sato, Harutada *see* **Muta, T.; et al.**

Savel'ev, M. V. *see* **Gervais, Jean-Loup, 93h:81121**; **Delduc, François; et al., 93i:81220** *and* **Gervais, Jean-Loup; et al., 93m:81128**

Schaposnik, Fidel A. Some topics in topological quantum field theories. (*see* **93j:81003**)

— *see also* **Cugliandolo, L. F.; et al., 93d:81153**

Schellekens, A. N. Field identification fixed points in $N = 2$ coset theories. **93b:81272**

— *see also* **Gato-Rivera, B., 93d:81155**

Schimmrigk, Rolf *see* **Kreuzer, Maximilian; et al., 93d:81163**

Schmid, Christoph *see* **Frolov, V. P.; et al., 93j:81090**

Schmidt, Michael G. *see* **Fuchs, Jürgen; et al., 93b:81247** *and* **Klemm, Albrecht; et al., 93k:81210**

Schoutens, Kareljan *see* **Ooguri, Hirosi; et al., 93c:81221**

Schroer, Bert New kinematics (statistics and symmetry) in low-dimensional QFT with applications to conformal QFT_2. **93g:81173**

Schütz, G. *see* **Baranowski, D.; et al., 93c:81192**

Schwarz, Dominik J. *see* **Kummer, Wolfgang, 93f:81137** *and* **Grosse, Harald; et al., 93k:81204**

Schweigert, Christoph On the classification of $N = 2$ superconformal coset theories. (English summary) **93j:81096**

Schwimmer, Adam *see* **Chu, Meifang; et al., 93c:81199**

Sciuto, Stefano Conformal field theories on Riemann surfaces. (English summary) **93g:81174**

Seiberg, Nathan Notes on quantum Liouville theory and quantum gravity. (English summary) **93h:81136**

— *see also* **Kutasov, David, 93b:81256**; **Moore, Gregory W.; et al., 93c:81217**; **Kutasov, David; et al., 93e:81119**; **Moore, Gregory W., 93h:81133**; **93m:81133a**; **93m:81133b** *and* **Dine, Michael; et al., (93e:81005)**

Selivanov, K. G. *see* **Fok, V. V.; et al., (93h:81003)**

Semenoff, Gordon W. *see* **Makeenko, Yu. M., 93d:81165**

Semikhatov, A. M. Conformal theory of quantum gravity from integrable hierarchies. (Russian) **93a:81185**

— *see also* **Gato-Rivera, B., 93g:81148**

Seminara, D. *see* **Menotti, P., 93g:81163**

Sen, Ashoke Matrix models and gauge-invariant field theory of subcritical strings. **93g:81175**
— *see also* **Mukherji, Sudipta; et al., 93b:81265**
Sen, Siddhartha[1] *see* **Balachandran, A. P.; et al., 93m:81124**
Sénéchal, David *see* **Di Francesco, Ph.; et al., 93b:81245**
Sengupta, Anirvan M. *see* **Mahapatra, Swapna; et al., 93k:81213**
Sengupta, Gautam *see* **Kumar, Alok**[2]**; et al., 93e:81117** *and* **Ali, Abbas; et al., 93f:81123**
Sevrin, A. *see* **Ooguri, Hirosi; et al., 93c:81221**
Sfetsos, Konstadinos Conformally exact results for $SL(2,\mathbf{R}) \otimes SO(1,1)^{d-2}/SO(1,1)$ coset models. (English summary) **93k:81222**
— *see also* **Bars, Itzhak, 93k:81190**
Shagoyan, R. M. *see* **Saakyan, D. B., 93a:81184**
Shatashvili, S. L. *see* **Martinec, Emil J., 93a:81177**
Shen, Jian Min (*with* Sheng, Zheng Mao) The exchange algebra for Liouville theory on a punctured Riemann sphere. **93c:81225**
— (*with* Sheng, Zheng Mao; Wang, Zhong Hua) Quantum Liouville theory on the Riemann sphere with $n > 3$ punctures. (English summary) **93i:81253**
Shen, Xiang *see* **Lu, H.; et al., 93b:81258**
Sheng, Zheng Mao *see* **Shen, Jian Min, 93c:81225** *and* **93i:81253**
Shi, Kang Jie *see* **Hou, Bo Yu; et al., 93e:81112**
Shigemoto, Kazuyasu *see* **Ahn, Changrim, 93d:81146**
Shimada, Tokuzo *see* **Saitoh, Yoshihiro, 93b:81271** *and* **93g:81172**
Sierra, Germán *see* **Gómez, César, 93b:81251; 93h:81122; 93m:81130** *and* **(93b:00028)**
Sil'vestrov, P. G. (*with* El'khovskii, A. S.) Exact solution of two-dimensional gravity via analytic continuation of matrix model. **93e:81127**
— Two-dimensional gravity from $d = 0$ and $d = 1$ matrix models. (English summary) **93i:81254**
Silvotti, R. *see* **Felder, G., 93i:81227**
Simoni, A. *see* **Bimonte, G.; et al., 93k:81192**
Siopsis, George On the quantum group structure in WZW models and Chern-Simons theories. **93d:81170**
Skarke, Harald *see* **Kreuzer, Maximilian; et al., 93d:81163**
Smit, Dirk-Jan *see* **Giveon, Amit, 93g:81149**
Smith, Eric Light-cone gauge for $1 + 1$ strings. (English summary) **93f:81144**
Soh, Kwang Sup *see* **Kim, Sung Ku; et al., 93f:81133** *and* **93k:81209**
Solov'ev, O. A. *see* **Kuzenko, S. M., 93c:81213**
Sonnenschein, Jacob *see* **Aoki, Kenichiro; et al., 93f:81125** *and* **Aharony, O.; et al., 93g:81137**
Sorkin, R. D. *see* **Balachandran, A. P.; et al., 93m:81124**
Sotkov, G. M. (*with* Stanishkov, M.; Zhu, Chuan Jie) Extrinsic geometry of strings and W-gravities. **93d:81171**
Spaliński, Michał *see* **Stieberger, S.; et al., 93g:81176**
Spence, Bill *see* **Mansfield, P., 93c:81215; Johnson, Clifford V.; et al., 93i:81232** *and* **Papadopoulos, George J., 93k:81217**
Spiegelglas, Mordechai Setting fusion rings in topological Landau-Ginzburg. **93i:81255**
Spreafico, M. *see* **Martellini, Maurizio; et al., 93d:81166**
Srednicki, Mark A new construction of the Penner model. (English summary) **93m:81135**
Stanev, Ya. S. (*with* Todorov, Ivan T.; Khadzhiivanov, L. K.) Braid invariant rational conformal models with a quantum group symmetry. **93c:81226**
Stanishkov, M. *see* **Sotkov, G. M.; et al., 93d:81171**
Staudacher, Matthias *see* **Moore, Gregory W.; et al., 93c:81217**
Stelle, K. S. *see* **Bergshoeff, E. A.; et al., 93b:81240** *and* **Pope, C. N.; et al., 93e:81126**
Stern, Allen Bruce *see* **Bimonte, G.; et al., 93k:81192** *and* **Balachandran, A. P.; et al.**
Sternberg, Shlomo *see* **Brustein, Ram; et al., 93g:81140**
Stieberger, S. (*with* Jungnickel, Dirk; Lauer, J.; Spaliński, Michał) Yukawa couplings for bosonic Z_N orbifolds: their moduli and twisted sector dependence. (English summary) **93g:81176**
— Moduli and twisted sector dependence of $Z_N \times Z_M$ orbifold couplings. (English summary) **93m:81136**
Stora, Raymond *see* **Knecht, M.; et al., 93a:81174** *and* **Lazzarini, S., 93b:81257**
Strocchi, F. *see* **Morchio, G.; et al., 93h:81134**
Strominger, Andrew Faddeev-Popov ghosts and $(1 + 1)$-dimensional black-hole evaporation. (English summary) **93m:81137**
Sugawara, Yuji *see* **Nakatsu, Toshio, 93k:81216**
Suzuki, Hiroshi Conformal-field-theoretical approach to two-dimensional quantum gravity. **93e:81128**
— *see also* **Gomis, Joaquim, 93a:81172**
Suzuki, Hisao *see* **Ohta, Nobuyoshi**
Takács, G. *see* **Bajnok, Z.; et al., 93k:81189**
Takahasi, Wataru *see* **Konisi, Gaku; et al., 93h:81128**
Takama, Michiaki Matrix model with superconformal symmetry. **93i:81256**
Tanii, Yoshiaki (*with* Yamaguchi, Shun-ichi) Two-dimensional quantum gravity on a disk. **93g:81177**
— *see also* **Sakai, Norisuke**
Tateo, R. *see* **Ravanini, F.; et al., 93i:81251**
Tatsunyak, P. I. Mulitplication of positive-frequency Green functions in two-dimensional quantum field theory. (Ukrainian)
Tchrakian, D. H. *see* **Piette, Bernard; et al., 93c:81222**
Terao, Haruhiko (*with* Yamada, Kiyonori) Topological superstring in $D = 2$ and topological supergravity. **93b:81273**
Theisen, Stefan *see* **Klemm, Albrecht; et al., 93k:81210**
Thies, M. *see* **Lenz, F.; et al., 93f:81138**
Thompson, George *see* **Blau, Matthias, 93k:81193**
Todorov, Ivan T. *see* **Furlan, Paolo; et al., 93c:81203** *and* **Stanev, Ya. S.; et al., 93c:81226**
Tolksdorf, Jürgen An investigation of the $\mathscr{R}^2$ gravity, with respect to the symmetry of a massless pointlike particle. **93i:81257**
Toppan, Francesco (*with* Zhang, Yao Zhong) Superconformal affine Liouville theory. (English summary) **93g:81178**
Tseytlin, A. A. A class of finite two-dimensional sigma models and string vacua. (English summary) **93e:81129**
— *see also* **Russo, Jorge G., 93i:81252**
Tsuchiya, Akihiro The construction of conformal field theories. (Japanese) **93k:81223**
— *see also* **Nakanishi, Tomoki, 93a:81181** *and* **Awata, Hidetoshi; et al., 93h:81105**
Tsutsui, Izumi (*with* Fehér, László) On the Lagrangian realization of the WZNW reductions. (English summary) **93k:81224**
— *see also* **O'Raifeartaigh, Lochlainn; et al., 93b:81269** *and* **Fehér, László; et al., 93i:81225**
Tye, S.-H. Henry *see* **Ahn, Changrim; et al., 93a:81162** *and* **Chung, Stephen-wei; et al., 93d:81152**
Uematsu, Tsuneo *see* **Kobayashi, Ken-ichiro, 93f:81134** *and* **93h:81126**
Vafa, Cumrun *see* **Cecotti, Sergio, 93a:81168**
Vaisburd, I. D. *see* **Nissimov, E.; et al., 93e:81124**
Valleriani, A. *see* **Ravanini, F.; et al., 93i:81251**
Valtancoli, Paolo Monodromy properties of conformal field theories and quantum groups. **93e:81130**
Varchenko, A. N. *see* **Blok, B., 93d:81149**
Vassileva, I. *see* **Kleban, P., 93i:81237**
Vaz, Cenalo *see* **Koehler, Kenneth Rowland; et al., (93f:81005)**
Vecsernyés, Peter *see* **Fuchs, Jürgen; et al., 93e:81108**
de Vega, H. J. Quantum groups, integrable theories, and conformal models. (*see* **93e:81005**)
— (*with* Fateev, V. A.) Factorizable S-matrices from nonlocal Z_N charges. **93e:81131**
Vergeles, S. N. Application of the method of dynamical quantization to the theory of gravity in $(2 + 1)$-dimensional space. (Russian) **93k:81225**
Verlinde, Erik (*with* Warner, N. P.) Topological Landau-Ginzburg matter at $c = 3$. **93i:81258**
— *see also* **Dijkgraaf, Robbert; et al., 93c:81202; Verlinde, Herman, 93c:81227** *and* **Roček, Martin, 93g:81171**
Verlinde, Herman (*with* Verlinde, Erik) Conformal field theory and geometric quantization. **93c:81227**
— *see also* **Dijkgraaf, Robbert; et al., 93c:81202**
Vilasís-Cardona, Xavier *see* **Cappelli, Andrea; et al., 93e:81104**
Viswanathan, K. S. *see* **Parthasarathy, Ragavachariar, 93a:81183**
Viswanathan, R. Raju *see* **Marzban, Caren, 93b:81261**
Vogl, Raimund *see* **Grübl, Gebhard, 93b:81252**
Vozmediano, A. H. *see* **González, José, 93d:81156**
Vucetich, H. *see* **Cugliandolo, L. F.; et al., 93d:81153**
Wadia, Spenta R. *see* **Das, Sumit R.; et al., 93i:81217**
Wang, Pei (*with* Hu, Zhan Ning) Bosonic realization of SU(3) parafermion irreducible representation. **93j:81097**
Wang, Zhong Hua *see* **Guo, Han Ying; et al., 93d:81157; 93d:81158** *and* **Shen, Jian Min; et al., 93i:81253**
Warner, N. P. Lectures on $N = 2$ superconformal theories and singularity theory. **93m:81138**
— *see also* **Lerche, W., 93h:81130; Verlinde, Erik, 93i:81258** *and* **LeClair, André; et al., 93k:81211**
Wätterstam, Anders *see* **Johnson, Clifford V.; et al., 93g:81154**
Watts, G. M. T. W-algebras and coset models. (English summary) (*see* **93f:81005**)
— *see also* **Kausch, H. G., 93i:81234**
Wen, Xiao-Gang *see* **Blok, B., 93h:81108**
van de Wetering, J. F. W. H. Knot invariants and universal R-matrices from perturbative Chern-Simons theory in the almost axial gauge. **93g:81179**
Wipf, Andreas Interacting Wess-Zumino-Novikov-Witten theories. (*see* **93f:81005**)
— *see also* **Fehér, László; et al., 93i:81225**
Witten, Edward On holomorphic factorization of WZW and coset models. **93i:81259**
— The N matrix model and gauged WZW models. **93f:81145**
Witten, L. *see* **Koehler, Kenneth Rowland; et al., (93f:81005)**
Wu, Ke *see* **Guo, Han Ying; et al., 93d:81157** *and* **93d:81158**
Xiong, Chuan Sheng *see* **Bonora, L., 93h:81109**
Yamada, Kiyonori *see* **Terao, Haruhiko, 93b:81273**
Yamada, Yasuhiko *see* **Awata, Hidetoshi; et al., 93h:81105**
Yamaguchi, Shun-ichi Correlation functions of $(2k - 1, 2)$ minimal matter coupled to 2D quantum gravity. (English summary) **93k:81226**
— *see also* **Tanii, Yoshiaki, 93g:81177**
Yang, Sung-Kil *see* **Eguchi, Tohru; et al., 93k:81199** *and* **93k:81200**
Yang, Zhu *see* **Minic, Djordje, 93a:81180**
Yankielowicz, Shimon *see* **Aharony, O.; et al., 93g:81137**
Yee, Jae Hyung *see* **Kim, Sung Ku; et al., 93f:81133** *and* **93k:81209**
Yoneya, Tamiaki Toward a canonical formalism of nonperturbative two-dimensional gravity. **93a:81186**
— Action principle, Virasoro structure and analyticity in nonperturbative two-dimensional gravity. (English summary) **93h:81137**
Yoshida, Kensuke The origin of $SL(n, \mathbf{C})$ current algebra in generalized two-dimensional gravity. (English summary) **93i:81260**
— *see also* **Martellini, Maurizio; et al., 93d:81166**
Yost, Scott A. Supermatrix models. (English summary) **93i:81261**
— *see also* **McGuigan, Michael D.; et al., 93g:81162**
Yu, Yue *see* **Chau, Ling-Lie, 93d:81151**
Yue, Rui Hong *see* **Hou, Bo Yu; et al., 93e:81112**
Yur'ev, D. V. Local conformal field algebras. **93e:81132a**
— Erratum: "Local conformal field algebras". **93e:81132b**
Zaikin, V. N. *see* **Pal'chik, M. Ya., (93h:81003)**
Zakkari, M. *see* **Saidi, E. H., 93b:81270**
Zakrzewski, Wojciech J. *see* **Piette, Bernard; et al., 93c:81222**
Zamolodchikov, Aleksandr B. *see* **Zamolodchikov, Alekseĭ B., 93g:81180**
Zamolodchikov, Alekseĭ B. (*with* Zamolodchikov, Aleksandr B.) Massless factorized scattering and sigma models with topological terms. (English summary) **93g:81180**
Zandron, O. P. *see* **Foussats, A.; et al., 93m:81127**
Zandron, O. S. *see* **Foussats, A.; et al., 93m:81127**
Zanon, D. *see* **Delius, G. W.; et al., 93i:81221** *and* **93k:81198**
Zaugg, Ph. *see* **Alvarez-Gaumé, Luis, 93b:81235**
Zen, Freddy Permana *see* **Sasaki, Ryu, 93k:81221**
Zhang, Xinmin *see* **Huang, Tao, 93c:81205**

Zhang, Yao Zhong Affine (two-loop) WZNW model, reduction and spontaneous breakdown of conformal symmetry. **93c:81228**
— N-extended super-Liouville theory from OSp(N|2) WZNW model. **93d:81172**
— *see also* **Toppan, Francesco, 93g:81178**
Zheng, H. B. *see* **Mann, Robert B., 93b:81260**
Zhu, Chuan Jie *see* **Chair, Noureddine, 93b:81242** *and* **Sotkov, G. M.; et al., 93d:81171**
Zimerman, A. H. *see* **Aratyn, Henrik; et al., 93b:81238** *and* **Constantinidis, C. P.; et al., 93j:81088**
Zinn-Justin, Jean *see* **Brézin, Édouard, 93f:81128** *and* **Eynard, B., 93k:81201**
Zuber, J.-B. Graphs, algebras, conformal field theories and integrable lattice models. **93c:81229**
Zuckerman, Gregg J. *see* **Lian, Bong H., 93h:81131**

Items with secondary classifications in 81T40

Abraham, E. R. C. (*with* Townsend, P. K.) Q-kinks. (English summary) **93f:81146**
Ader, Jean-Pierre (*with* Gieres, François; Noirot, Yves) Relating Weyl and diffeomorphism anomalies on super Riemann surfaces. (English summary) **93m:81139**
Adler, Mark (*with* van Moerbeke, P.) A matrix integral solution to two-dimensional W_p-gravity. **93g:58054**
Ahn, Changhyun $c = 5/2$ free fermion model of WB_2 algebra. (English summary) **93h:81041**
Aldazabal, G. (*with* Allekotte, I.; Font, Anamaría; Núñez, Carmen A.) $N = 2$ coset compactifications with nondiagonal invariants. (English summary) **93i:81180**
Alfaro, Jorge (*with* Damgaard, P. H.) The $D = 1$ matrix model and the renormalization group. (English summary) **93i:81155**
Allekotte, I. *see* **Aldazabal, G.; et al., 93i:81180**
Alvarez-Gaumé, Luis (*with* Labastida, J. M. F.; Ramallo, A. V.) Remarks on topological Chern-Simons theory. **93a:58030**
— Random surfaces, statistical mechanics and string theory. **93d:81131**
— (*with* Zaugg, Ph.) Some correlation functions of minimal superconformal models coupled to supergravity. **93g:81183**
Ambjørn, Jan Regularized quantum gravity and string theory. (English summary) **93f:81101**
— (*with* Johnson, Clifford V.; Morris, Tim R.) Stochastic quantization vs. KdV flows in two-dimensional quantum gravity. **93m:81074**
Anagnostopoulos, Konstantinos N. (*with* Bowick, Mark J.; Schwarz, Albert) The solution space of the unitary matrix model string equation and the Sato Grassmannian. (English summary) **93m:58046**
Anderson, Arlen (*with* Myers, Robert C.; Periwal, Vipul) Branched polymers from a double-scaling limit of matrix models. **93b:81196**
Antoniadis, Ignatios (*with* Mazur, Paweł O.; Mottola, Emil) Conformal symmetry and central charges in 4 dimensions. (English summary) **93m:81140**
(Apanasov, B. N.) *see* **Topology '90, 93d:57001**
Apfeldorf, Karyn M. Hamiltonian reduction on the weight lattice. (English summary) **93j:81026**
Aratyn, Henrik (*with* Ferreira, L. A.; Gomes, J. F.; Zimerman, A. H.) A new deformation of W-infinity and applications to the two-loop WZNW and conformal affine Toda models. (English summary) **93j:81027**
Aref'eva, I. Ya. (*with* Volovich, I. V.) Quantum group chiral fields and differential Yang-Baxter equations. **93d:81084**
— (*with* Zubarev, A. P.) Semi-free field representation and string field theory in 2D gravity. **93c:81160**
Argyres, Philip C. (*with* Grochocinski, James M.; Tye, S.-H. Henry) Structure constants of the fractional supersymmetry chiral algebras. **93d:81064**
Asorey, Manuel Conformal invariance in quantum field theory and statistical mechanics. **93c:81002**
Baaquie, Belal E. Functional-differential realization of the SU(2) Kac-Moody algebra. **93c:81061**
Bailin, David (*with* Katechou, E. K.; Love, Alex) Flipped SU(5) × U(1) in superconformal models. **93m:81159**
Bakas, Ioannis Conformal algebras and nonlinear differential equations. **93c:58080**
— (*with* Kiritsis, Elias B.) Target space description of W_∞ symmetry in coset models. (English summary) **93m:81042**
Baker, George A., Jr. (*with* Singh, Rajiv R. P.) Bulk value of the central charge in conformally invariant critical phenomena. **93d:82041**
— (*with* Bessis, Daniel; Moussa, Pierre) Asymptotic behavior of some Hankel-Toeplitz determinants. **93i:33009**
Bandyopadhyay, Pratul *see* **Roy, Ashim, 93b:81278**
Bao, David (*with* Ratiu, Tudor S.) A candidate maximal torus in infinite dimensions. (English summary) **93f:58015**
Bars, Itzhak (*with* Sfetsos, Konstadinos) Hermitian symmetric spaces and free field topological theories. **93b:81088**
Bauer, Michel (*with* Di Francesco, Ph.; Itzykson, Claude; Zuber, J.-B.) Covariant differential equations and singular vectors in Virasoro representations. **93c:81062**
— (*with* Sochen, N.) Singular vectors by fusions in $A_1^{(1)}$. **93e:81035**
Bégin, L. (*with* Mathieu, Pierre; Walton, M. A.) $\hat{su}(3)_k$ fusion coefficients. (English summary) **93j:81028**
Behrndt, K. The tachyon in a linear expanding universe. (English summary) **93m:81106**
Bender, Carl M. (*with* Milton, Kimball A.; Moshe, Moshe) δ expansion for local gauge theories. II. Nonperturbative calculation of the anomaly in the Schwinger model. **93g:81086**
Bergshoeff, E. A. (*with* Boonstra, H. J.; de Roo, Mees) Realisations of W_3 symmetry. (English summary) **93i:81059**
Berkovits, Nathan (*with* Hatsuda, Machiko; Siegel, Warren) The big picture. **93d:81135**
Bernard, Denis *see* **Haldane, F. D. M.; et al., 93h:82020**
Bershadskii, M. A. (*with* Kutasov, David) Scattering of open and closed strings in 1 + 1 dimensions. (English summary) **93k:81166**
— (*with* Lerche, W.; Nemeschansky, D.; Warner, N. P.) A BRST operator for noncritical W-strings. (English summary) **93i:81185**
Bessis, Daniel *see* **Baker, George A., Jr.; et al., 93i:33009**
Bianchi, Massimo (*with* Pradisi, G.; Sagnotti, A.) Toroidal compactification and symmetry breaking in open-string theories. **93e:81090**
Bilal, Adel (*with* Fok, V. V.; Kogan, Ya. I.) On the origin of W-algebras. **93b:81090**
Birmingham, Danny (*with* Blau, Matthias; Rakowski, Mark; Thompson, George) Topological field theory. **93c:81003**
— (*with* Rakowski, Mark) A field-theoretic realization of a universal bundle for gravity. **93a:81196**
Blasi, Alberto (*with* Collina, R.) The Chern-Simons model with boundary: a cohomological approach. **93d:81110**
— (*with* Maggiore, N.) Infrared and ultraviolet finiteness of topological BF theory in two dimensions. (English summary) **93m:81145**
Blau, Matthias *see* **Birmingham, Danny; et al., 93c:81003**
Blumenhagen, R. (*with* Flohr, M.; Kliem, A.; Nahm, Werner; Recknagel, A.; Varnhagen, R.) $\mathscr{W}$-algebras with two and three generators. **93a:81063**
— Covariant construction of $N = 1$ super W-algebras. (English summary) **93m:81043**
Boonstra, H. J. *see* **Bergshoeff, E. A.; et al., 93i:81059**
Bougourzi, A. H. (*with* Ho-Kim, Q.; Kikuchi, Yukio; Lam, C. S.) Screening currents in free-field representations of Kac-Moody algebras. **93a:17025**
— Null states of the fractional $SL(2)_k$ current algebra via the free field approach. (English summary) **93d:81066**
Bougourzi, H. A. (*with* Kikuchi, Yukio) Bernstein-Gel'fand-Gel'fand resolution of W_3 algebra in the lattice approach. **93c:81063**
Boulware, David G. Quantum field theory in spaces with closed timelike curves. (English summary) **93m:81107**
Bourdeau, Michelle Hilda (*with* Mlawer, Eli J.; Riggs, Harold; Schnitzer, Howard J.) Topological Landau-Ginzburg matter from Sp(N)$_K$ fusion rings. **93e:81037**
— (*with* Mlawer, Eli J.; Riggs, Harold; Schnitzer, Howard J.) The quasi-rational fusion structure of SU(m|n) Chern-Simons and WZW theories. **93i:81267**
Bouwknegt, Peter (*with* McCarthy, James G.; Pilch, Krzysztof) Fock space resolutions of the Virasoro highest weight modules with $c \leq 1$. **93e:17039**
Bowcock, P. (*with* Watts, G. M. T.) On the classification of quantum W-algebras. **93k:17026**
Bowick, Mark J. *see* **Anagnostopoulos, Konstantinos N.; et al., 93m:58046**
Boyanovsky, Daniel (*with* Holman, R.) Renormalized density of states in conformal field theories. **93b:81177**
Braden, H. W. (*with* Corrigan, E.; Dorey, Patrick E.; Sasaki, Ryu) Affine Toda field theory: S-matrix vs. perturbation. **93i:81148**
Brooks, Roger Relating scattering amplitudes in bosonic and topological string theories. (English summary) **93f:81103**
Burkhardt, T. W. (*with* Choi, Je-Young) Correlations of the energy density and conformal invariance in the the 2D Ising model with a defect line. **93h:82013**
Candelas, Philip (*with* de la Ossa, Xenia C.; Green, Paul S.; Parkes, Linda) A pair of Calabi-Yau manifolds as an exactly soluble superconformal theory. **93b:32029**
— (*with* de la Ossa, Xenia C.; Green, Paul S.; Parkes, Linda) An exactly soluble superconformal theory from a mirror pair of Calabi-Yau manifolds. **93b:32028**
Capri, A. Z. (*with* Roy, S. M.) The definition of time and quantum vacuum in 1 + 1 dimensions. (English summary) **93e:81084**
Carlini, A. (*with* Fucito, F.; Martellini, Maurizio) On the stability of a stringy black hole. (English summary) **93k:83045**
Catterall, Simon M. (*with* Kogut, John B.; Renken, Ray L.) Numerical study of field theories coupled to 2D quantum gravity. (English summary) **93f:81149**
Cecotti, Sergio (*with* Girardello, L.; Pasquinucci, Andrea) Singularity-theory and $N = 2$ supersymmetry. **93a:32055**
— (*with* Vafa, Cumrun) Exact results for supersymmetric σ models. **93b:81281**
Chair, Noureddine (*with* Dobrev, V. K.; Kanno, Hiroaki) SO(2, C) invariant ring structure of BRST cohomology and singular vectors in 2D gravity with $c < 1$ matter. **93j:81100**
Chamseddine, A. H. Topological gravity and supergravity in various dimensions. **93e:83069**
— (*with* Fröhlich, Jürg) Two-dimensional Lorentz-Weyl anomaly and gravitational Chern-Simons theory. (English summary) **93g:81181**
Chao, Liu *see* **Hou, Bo Yu, 93k:81080**
Chekhov, L. (*with* Makeenko, Yu. M.) The multicritical Kontsevich-Penner model. **93i:81176**
Chen, Yi Xin (*with* Gao, Hong Bo) Classical exchange algebra in Liouville theory on a Riemann surface. **93e:32025**
Cherednik, I. V. Solutions of the trigonometric Knizhnik-Zamolodchikov equation. (Russian) **93f:17037**
— Monodromy representations for generalized Knizhnik-Zamolodchikov equations and Hecke algebras. **93k:20060**
Chimento, Luis P. (*with* Cossarini, Adriana E.) Self-consistent solution to the back-reaction problem for vector fields in two dimensions. **93b:81184**
Choi, Je-Young *see* **Burkhardt, T. W., 93h:82013**
Christe, Philippe S matrices of the tricritical Ising model and Toda systems. **93g:82015**
Christensen, Dan (*with* Mann, Robert B.) The causal structure of two-dimensional spacetimes. **93f:81096**
Cohn, J. D. (*with* Periwal, Vipul) $c \leq 25$ noncritical strings. **93b:81206**
Collina, R. *see* **Blasi, Alberto, 93d:81110**
Constantinescu, Florin (*with* Lüdde, Mirko) Braid modules. (English summary) **93j:20082**
Cooper, Adrian (*with* Susskind, Leonard; Thorlacius, Lárus) Two-dimensional quantum cosmology. **93c:83048**
Corrigan, E. *see* **Braden, H. W.; et al., 93i:81148**
Cossarini, Adriana E. *see* **Chimento, Luis P., 93b:81184**
Cristofano, Gerardo (*with* Maiella, G.; Musto, R.; Nicodemi, F.) Hall conductance and edge states in the Coulomb gas vertex operator formalism. **93a:81219**
— (*with* Maiella, G.; Musto, R.; Nicodemi, F.) The quantum Hall effect at arbitrary rational filling: a proposal. (English summary) **93g:81211**
Dahmen, H. D. (*with* Marculescu, S.; Szymanowski, Lech) Currents and anomalies in topological Yang-Mills theory. (English summary) **93i:81134**
Dalley, Simon On loop equations in KdV exactly solvable string theory. **93b:81207**
— (*with* Johnson, Clifford V.; Morris, Tim R.; Wätterstam, Anders) Unitary matrix models and 2D quantum gravity. (English summary) **93j:81075**

Damgaard, P. H. *see* **Alfaro, Jorge, 93i:81155**
Das, Ashok (*with* Huang, Wen-Jui; Roy, Shibaji) Zero curvature condition and 2D gravity theories. **93d:81067**
Das, Sumit R. (*with* Mandal, Gautam; Wadia, Spenta R.) Stochastic quantization on two-dimensional theory space and Morse theory. **93b:81180**
— (*with* Dhar, Avinash; Rama, S. Kalyana) Physical states and scaling properties of W gravities and W strings. **93c:81164**
Deguchi, Shinichi Infinite tower extension of topological Yang-Mills theory. **93g:81189**
Delduc, François (*with* Ragoucy, E.; Sorba, P.) Towards a classification of W algebras arising from nonabelian Toda theories. **93i:81060**
Depireux, Didier A. A note on the KP hierarchy. **93d:58066**
Destri, C. (*with* de Vega, H. J.) Bethe ansatz and quantum groups: the light-cone lattice approach. I. Six vertex and SOS models. **93h:82016**
Dhar, Avinash *see* **Das, Sumit R.; et al., 93c:81164**
Dienes, Keith R. (*with* Tye, S.-H. Henry) Model-building for fractional superstrings. **93f:81106**
Di Francesco, Ph. Integrable lattice models, graphs and modular invariant conformal field theories. **93d:82027**
— (*with* Kutasov, David) World-sheet and space-time physics in two-dimensional (super)string theory. **93b:81209**
— *see also* **Bauer, Michel; et al., 93c:81062**
Dijkgraaf, Robbert (*with* Verlinde, Herman; Verlinde, Erik) String propagation in a black hole geometry. **93e:81092**
Dine, Michael Compactification of superstrings. **93e:81093**
Dobrev, V. K. *see* **Chair, Noureddine; et al., 93j:81100**
(Domokos, G.) *see* **Nonperturbative methods in low-dimensional quantum field theories, 93f:81005**
Dorey, Patrick E. Root systems and purely elastic S-matrices. **93b:81092**
— *see also* **Braden, H. W.; et al., 93i:81148**
Dowker, J. S. On Verlinde's formula for the dimensions of vector bundles on moduli spaces. **93j:14010**
Drouffe, Jean-Michel *see* **Itzykson, Claude, 93k:81003b**
Dubrovin, B. A. Hamiltonian formalism of Whitham-type hierarchies and topological Landau-Ginsburg models. **93a:58078**
— *see also* **Novikov, S. P., 93g:58062**
Duplantier, Bertrand Statistical mechanics on a 2D-random surface. (English summary) **93e:82001**
Eholzer, W. (*with* Flohr, M.; Honecker, A.; Hübel, R.; Nahm, Werner; Varnhagen, R.) Representations of W-algebras with two generators and new rational models. (English summary) **93i:81061**
Elitzur, S. (*with* Forge, A.; Rabinovici, E.) Comments on the importance of being over-constrained. (English summary) **93f:81151**
Ellis, Jonathan Richard (*with* Mavromatos, N. E.; Nanopoulos, D. V.) On the connection between quantum mechanics and the geometry of two-dimensional strings. **93b:81211**
Emery, Stéphane (*with* Piguet, Olivier) Chern-Simons theory in the axial gauge: manifold with boundary. **93f:81082**
Ezawa, Zyun F. (*with* Hotta, Masahiro; Iwazaki, Aiichi) Anyon field theory and fractional quantum Hall states. (English summary) **93i:81307**
Faddeev, L. D. Quantum symmetry in conformal field theory by Hamiltonian methods. **93k:81094**
Fateev, V. A. (*with* Luk′yanov, S. L.) Vertex operators and representations of quantum universal enveloping algebras. **93g:17024**
Fehér, László (*with* O'Raifeartaigh, Lochlainn; Ruelle, Philippe; Tsutsui, Izumi) Rational versus polynomial character of W_n^l-algebras. **93k:17054**
Feigin, B. L. The conformal field theory from the view of the cohomology theory of the Lie algebras. **93b:17065**
— Conformal field theory and cohomologies of the Lie algebra of holomorphic vector fields on a complex curve. **93e:17033**
Fendley, Paul Excited-state thermodynamics. **93k:81162**
— (*with* Intriligator, K.) Scattering and thermodynamics of fractionally-charged supersymmetric solitons. **93m:81143**
Ferrara, Sergio Calabi-Yau moduli space, special geometry and mirror symmetry. **93d:32026**
Ferreira, L. A. (*with* Gomes, J. F.; Zimerman, A. H.) Jordan algebras in conformal field theories. **93g:81036**
— (*with* Gomes, J. F.; Zimerman, A. H.; Schwimmer, Adam) Comments on two-loop Kac-Moody algebras. **93b:81093**
— *see also* **Aratyn, Henrik; et al., 93j:81027**
Flato, Moshé *see* **Harun-ar Rashid, A. M.; et al., 93e:81072**
Flohr, M. *see* **Blumenhagen, R.; et al., 93a:81063** *and* **Eholzer, W.; et al., 93i:81061**
Fok, V. V. *see* **Bilal, Adel; et al., 93b:81090**
Fokas, A. S. (*with* It·s, A. R.; Kitaev, A. V.) Discrete Painlevé equations and their appearance in quantum gravity. **93a:58080**
Font, Anamaría Automorphism fixed points and exceptional modular invariants. **93e:17035**
— *see also* **Aldazabal, G.; et al., 93i:81180**
Forge, A. *see* **Elitzur, S.; et al., 93f:81151**
Frahm, Holger Integrable spin-$\frac{1}{2}$ XXZ Heisenberg chain with competing interactions. **93b:82022**
Fredenhagen, Klaus Generalizations of the theory of superselection sectors. (*see* **93i:81122**)
Freed, Daniel S. (*with* Gompf, Robert E.) Computer calculation of Witten's 3-manifold invariant. **93d:57027**
Fröhlich, Jürg *see* **Chamseddine, A. H., 93g:81181**
Fronsdal, C. *see* **Harun-ar Rashid, A. M.; et al., 93e:81072**
Fuchs, Jürgen Quantum dimensions. (English summary) **93k:81077**
— (*with* Klemm, Albrecht; Schmidt, Michael G.; Verstegen, Dirk) New exceptional $(A_1^{(1)})^{\oplus r}$ invariants and the associated Gepner models. **93i:81062**
Fucito, F. (*with* Martellini, Maurizio) Renormalization group flows in nonperturbative 2D quantum gravity. **93d:81122**
— (*with* Gamba, Andrea; Martellini, Maurizio; Ragnisco, Orlando) Nonlinear WKB analysis of the string equation. (English summary) **93m:58049**
— *see also* **Carlini, A.; et al., 93k:83045**
Fujii, Kazuyuki A relation between instantons of Grassmann σ-models and Toda equations. II. (English summary) **93k:58113**
Fujikawa, Kazuo Reparametrization BRS cohomology in two-dimensional gravity and noncritical string theories. **93c:81246**
Fukuma, Masafumi (*with* Kawai, Hikaru; Nakayama, Ryuichi) Infinite-dimensional Grassmannian structure of two-dimensional quantum gravity. **93j:81030**
Furlan, Paolo (*with* Ganchev, Alexander Ch.; Petkova, Valentina B.) Tensor products of $q^p = 1$ quantum groups and WZW fusion rules. **93a:17012**
Gaite, José Symmetry in catastrophe theory, phase diagrams and two-dimensional conformal field theories. **93j:58015**
Gal′perin, A. S. (*with* Ogievetskiĭ, V. I.) On isometries relating noncompact σ-models and supergravity. **93c:83119**
Gamba, Andrea *see* **Fucito, F.; et al., 93m:58049**
Ganchev, Alexander Ch. (*with* Petkova, Valentina B.) Reduction of the Knizhnik-Zamolodchikov equation. A way of producing Virasoro singular vectors. (English summary) **93i:81063**
— *see also* **Furlan, Paolo; et al., 93a:17012**
Gao, Hong Bo *see* **Chen, Yi Xin, 93e:32025**
Gates, S. James, Jr. (*with* Solov′ev, O. A.) On universality of the SU(2) bosonized Thirring model. (English summary) **93i:81136**
— (*with* Nishino, Hitoshi) Supersymmetric integrable systems embedded in supersymmetric self-dual Yang-Mills theory. (English summary)
Gepner, Doron Lectures on $N = 2$ string theory. **93e:81094**
— On the algebraic structure of $N = 2$ string theory. **93b:81215**
Gervais, Jean-Loup (*with* Matsuo, Yutaka) W-geometries. **93d:81068**
Giddings, Steven B. (*with* Nelson, William M.) Quantum emission from two-dimensional black holes. (English summary) **93i:81165**
Gieres, François *see* **Ader, Jean-Pierre; et al., 93m:81139**
Ginsparg, P. Some statistical mechanical models and conformal field theories. **93g:82001**
Girardello, L. *see* **Cecotti, Sergio; et al., 93a:32055**
Giveon, Amit (*with* Halpern, M. B.; Kiritsis, Elias B.; Obers, N. A.) Exact C-function and C-theorem on affine-Virasoro space. **93d:81069**
— (*with* Shapere, Alfred) Gauge symmetries of the $N = 2$ string. (English summary) **93k:81177**
Gomes, J. F. *see* **Ferreira, L. A.; et al., 93b:81093; 93g:81036** *and* **Aratyn, Henrik; et al., 93j:81027**
Gompf, Robert E. *see* **Freed, Daniel S., 93d:57027**
Govindarajan, Suresh (*with* Nelson, Philip; Wong, Eugene) Semirigid geometry. **93j:32015**
Green, Paul S. *see* **Candelas, Philip; et al., 93b:32028** *and* **93b:32029**
Greene, Brian R. Mirror manifolds in $N = 2$ string compactification. **93e:32035**
Griffin, Paul A. (*with* Hernández, Oscar F.) Structure of irreducible SU(2) parafermion modules derived via the Feigin-Fuchs construction. **93d:81070**
Grisaru, M. T. *see* **de Wit, B.; et al., 93f:83083**
Grochocinski, James M. *see* **Argyres, Philip C.; et al., 93d:81064**
Gross, Mark (*with* Hamber, Herbert W.) Critical properties of two-dimensional simplicial quantum gravity. **93a:83011**
Grossman, Bernard Topological quantum field theories: relations between knot theory and four manifold theory. **93f:57041**
Guadagnini, E. Braid group representations and link invariants. (English summary) **93m:57006**
Guido, Daniele (*with* Longo, Roberto) Relativistic invariance and charge conjugation in quantum field theory. (English summary) **93i:81121**
Günaydin, Murat (*with* Hyun, Seungjoon) Ternary algebraic approach to extended superconformal algebras. **93b:81095**
Ha, Z. N. C. *see* **Haldane, F. D. M.; et al., 93h:82020**
Haldane, F. D. M. (*with* Ha, Z. N. C.; Talstra, J. C.; Bernard, Denis; Pasquier, V.) Yangian symmetry of integrable quantum chains with long-range interactions and a new description of states in conformal field theory. (English summary) **93h:82020**
Halpern, M. B. (*with* Obers, N. A.) Magic bases, metric ansätze and generalized graph theories in the Virasoro master equation. **93d:81071**
— (*with* Obers, N. A.) New superconformal constructions on triangle-free graphs. (English summary) **93k:81079**
— *see also* **Giveon, Amit; et al., 93d:81069**
Hamber, Herbert W. *see* **Gross, Mark, 93a:83011**
Harun-ar Rashid, A. M. (*with* Fronsdal, C.; Flato, Moshé) Three-D singletons and 2-D C.F.T. **93e:81072**
Hatsuda, Machiko *see* **Berkovits, Nathan; et al., 93d:81135**
Hawking, Stephen W. Evaporation of two-dimensional black holes. **93g:83063**
Hayashi, Takahiro An algebra related to the fusion rules of Wess-Zumino-Witten models. **93b:81114**
Hernández, Oscar F. *see* **Griffin, Paul A., 93d:81070**
Higashijima, Kiyoshi Theory of dynamical symmetry breaking. (English summary) **93g:81041**
Ho-Kim, Q. *see* **Bougourzi, A. H.; et al., 93a:17025**
Holman, R. *see* **Boyanovsky, Daniel, 93b:81177**
Honecker, A. *see* **Eholzer, W.; et al., 93i:81061**
Hoppe, Jens Infinite-dimensional algebras and $(2 + 1)$-dimensional field theories: yet another view of $\mathfrak{gl}(\infty)$; some new algebras. (*see* **92f:00024**)
Horne, James H. Skein relations and Wilson loops. (English summary) **93i:57006**
— (*with* Horowitz, Gary T.) Exact black string solutions in three dimensions. **93d:81140**
Horowitz, Gary T. *see* **Horne, James H., 93d:81140**
(Horváth, Zalán) *see* **Nonperturbative methods in low-dimensional quantum field theories, 93f:81005**
Hotta, Masahiro *see* **Ezawa, Zyun F.; et al., 93i:81307**
Hou, Bo Yu (*with* Chao, Liu) Conformally reduced WZNW theory, new extended chiral algebras and their associated Toda type integrable systems. (English summary) **93k:81080**
Huang, Wen-Jui *see* **Das, Ashok; et al., 93d:81067**
Huang, Yi Zhi Vertex operator algebras and conformal field theory. **93h:81045**
Hübel, R. *see* **Eholzer, W.; et al., 93i:81061**

Huggett, S. A. Recent work in twistor field theory. **93a:81072**
Hyun, Seungjoon *see* **Günaydin, Murat, 93b:81095**
Ikeda, Noriaki Covariant operator formalism of two-dimensional topological gravity. **93i:81278**
— Covariant operator formalism of two-dimensional topological gravity. II. **93i:81279**
Imbimbo, Camillo (*with* Mukhi, Sunil) String field theory in minimal model backgrounds and nonperturbative two-dimensional gravity. **93h:81096**
— Quantization ambiguities for Chern-Simons topological theories. **93a:81090**
— (*with* Mahapatra, Swapna; Mukhi, Sunil) Construction of physical states of nontrivial ghost number in $c < 1$ string theory. **93k:81178**
Imbrie, John Z. (*with* Janowsky, Steven A.; Weitsman, Jonathan) Space-dependent Dirac operators and effective quantum field theory for fermions. **93b:81140**
Inami, Takeo (*with* Kanno, Hiroaki) $N = 2$ super W algebras and generalized $N = 2$ super KdV hierarchies based on Lie superalgebras. **93e:58086**
Intriligator, K. *see* **Fendley, Paul, 93m:81143**
Ishihara, Hideki *see* **Okamura, Takashi, 93d:83008**
Ito, Katsushi Quantum Hamiltonian reduction and WB algebra. (English summary) **93i:81067**
— (*with* Madsen, Jens Ole; Petersen, Jens Lyng) Free-field representations and screening operators for the $N = 4$ doubly extended superconformal algebras. (English summary) **93i:81068**
Itoyama, H. Quantum groups, braiding matrices and coset models. **93c:81080**
It·s, A. R. (*with* Kitaev, A. V.) The continuum limit in the Hermitian Φ^6 matrix model. (Russian. English summary) **93b:81198**
— *see also* **Fokas, A. S.; et al., 93a:58080**
Itzykson, Claude (*with* Drouffe, Jean-Michel) ★ Statistical field theory. Vol. 2. **93k:81003b**
— (*with* Zuber, J.-B.) Combinatorics of mapping class groups and matrix integration. (*see* **93j:81003**)
— Geometry of differential equations and projective representations of the Witt algebra. (English summary) **93j:17052**
— *see also* **Bauer, Michel; et al., 93c:81062**
Iwazaki, Aiichi *see* **Ezawa, Zyun F.; et al., 93i:81307**
Jack, I. The twisted $N = 2$ supersymmetric sigma model: a four-loop calculation of the beta function. **93a:81190**
Janowsky, Steven A. (*with* Weitsman, Jonathan) A vanishing theorem for supersymmetric quantum field theory and finite size effects in multiphase cluster expansions. **93i:81124**
— *see also* **Imbrie, John Z.; et al., 93b:81140**
Johnson, Clifford V. *see* **Dalley, Simon; et al., 93j:81075** *and* **Ambjørn, Jan; et al., 93m:81074**
Kac, Victor G. (*with* van de Leur, Johan) On classification of superconformal algebras. **93e:17004**
— (*with* Schwarz, Albert) Geometric interpretation of the partition function of 2D gravity. **93b:58066**
Kanno, Hiroaki *see* **Inami, Takeo, 93e:58086** *and* **Chair, Noureddine; et al., 93j:81100**
Karowski, M. Yang-Baxter algebra, Bethe ansatz, conformal quantum field theories, quantum groups. (English summary) **93j:82021**
Kashaev, R. M. (*with* Mangazeev, V. V.; Nakanishi, Tomoki) Yang-Baxter equation for the sl(n) chiral Potts model. **93d:82034**
(Kastler, Daniel) *see* **Algebraic theory of superselection sectors, 93i:81122**
Katechou, E. K. *see* **Bailin, David; et al., 93m:81159**
Katsura, Toshiyuki (*with* Shimizu, Yuji; Ueno, Kenji) Complex cobordism ring and conformal field theory over **Z**. **93c:55004**
Kauffman, Louis H. ★ Knots and physics. **93b:57010**
Kaul, Romesh K. Functional measure in topological field theories. (*see* **93h:81001**)
Kausch, H. G. (*with* Watts, G. M. T.) Quantum Toda theory and the Casimir algebra of B_2 and C_2. (English summary) **93m:81045**
Kawai, Hikaru *see* **Fukuma, Masafumi; et al., 93j:81030**
Kent, Adrian Projections of Virasoro singular vectors. **93e:17042**
Khrustalev, O. A. *see* **Silaev, P. K., 93i:81171**
Kikuchi, Yukio *see* **Bougourzi, A. H.; et al., 93a:17025** *and* **Bougourzi, H. A., 93c:81063**
Kim, Kee Yong *see* **Kim, Yong-Wan; et al., 93k:81239**
Kim, Seung-Kook *see* **Kim, Yong-Wan; et al., 93k:81239**
Kim, Won-Tae *see* **Kim, Yong-Wan; et al., 93k:81239**
Kim, Yong Duk *see* **Kim, Yong-Wan; et al., 93k:81239**
Kim, Yong-Wan (*with* Kim, Seung-Kook; Kim, Won-Tae; Park, Young-Jai; Kim, Kee Yong; Kim, Yong Duk) Chiral Schwinger model based on the Batalin-Fradkin-Vilkovisky formalism. (English summary) **93k:81239**
Kimura, Kazuhiro Hamiltonian reduction of super OSp(1, 2) and SL(2, 1) Kac-Moody algebras. (English summary) **93j:81031**
Kiritsis, Elias B. *see* **Giveon, Amit; et al., 93d:81069** *and* **Bakas, Ioannis, 93m:81042**
Kitaev, A. V. *see* **Fokas, A. S.; et al., 93a:58080** *and* **It·s, A. R., 93b:81198**
Kitazawa, Yoshihisa Random surfaces and the Liouville theory. **93e:81096**
Klassen, Timothy R. (*with* Melzer, Ezer) On the relation between scattering amplitudes and finite-size mass corrections in QFT. **93c:81256**
Klemm, Albrecht *see* **Fuchs, Jürgen; et al., 93i:81062**
Kliem, A. *see* **Blumenhagen, R.; et al., 93a:81063**
Klimek, Sławomir (*with* Lesniewski, Andrzej) Pfaffians on Banach spaces. **93e:58007**
Kogan, Ya. I. *see* **Bilal, Adel; et al., 93b:81090**
Kogut, John B. *see* **Catterall, Simon M.; et al., 93f:81149**
Kohno, Toshitake Invariants of 3-manifolds based on conformal field theory and Heegaard splitting. **93j:57008**
— Three-manifold invariants derived from conformal field theory and projective representations of modular groups. **93k:57015**
— Topological quantum field theory—applications to 3-dimensional manifolds. (Japanese) **93k:57038**
Konno, Hitoshi Construction of screened multiloop operator for su(2)$_k$ Kac-Moody algebra. **93i:81069**
Kontsevich, M. L. Intersection theory on the moduli space of curves. (Russian) **93e:32026**
— Intersection theory on the moduli space of curves and the matrix Airy function. **93e:32027**
Kostov, Ivan K. Gauge invariant matrix model for the $\hat{A}$-$\hat{D}$-$\hat{E}$ closed strings. (English summary) **93k:81163**
Kounnas, Costas (*with* Lüst, Dieter) Cosmological string backgrounds from gauged WZW models. (English summary) **93g:83094**
(Kövesi-Domokos, S.) *see* **Nonperturbative methods in low-dimensional quantum field theories, 93f:81005**
Kraus, Elisabeth (*with* Sibold, Klaus) Conformal transformation properties of the energy-momentum tensor in four dimensions. **93c:81231**
Kreuzer, Maximilian (*with* Skarke, Harald) On the classification of quasihomogeneous functions. (English summary) **93k:32075**
Krichever, Ios. M. The dispersionless Lax equations and topological minimal models. **93a:58083**
Kubyshkin, E. P. Optimal control of the rotation of a solid body with a flexible rod. (Russian. Russian summary) **93i:70030**
Kugo, Taichiro (*with* Zwiebach, Barton) Target space duality as a symmetry of string field theory. **93i:81191**
Kutasov, David *see* **Di Francesco, Ph., 93b:81209** *and* **Bershadskii, M. A., 93k:81166**
La, HoSeong Symmetries of the 4D self-dual Yang-Mills equation and reduction to the 2D KdV equation. **93a:58179**
Labastida, J. M. F. *see* **Alvarez-Gaumé, Luis; et al., 93a:58030**
Lam, C. S. *see* **Bougourzi, A. H.; et al., 93a:17025**
Lang, K. (*with* Rühl, W.) The scalar ancestor of the energy-momentum field in critical σ-models at $2 < d < 4$. **93a:81119**
Lawrence, R. J. Connections between CFT and topology via knot theory. **93f:20051**
LeClair, André (*with* Smirnov, F. A.) Infinite quantum group symmetry of fields in massive 2D quantum field theory. **93h:81061**
Lerche, W. (*with* Smit, Dirk-Jan; Warner, N. P.) Differential equations for periods and flat coordinates in two-dimensional topological matter theories. **93e:32029**
— *see also* **Bershadskii, M. A.; et al., 93i:81185**
Lesniewski, Andrzej *see* **Klimek, Sławomir, 93e:58007**
van de Leur, Johan *see* **Kac, Victor G., 93e:17004**
Leutwyler, H. (*with* Shifman, M.) Perturbation theory in the Wess-Zumino-Novikov-Witten model. **93g:81104**
Li, Miao Correlators of special states in $c = 1$ Liouville theory. (English summary)
Link, Robert Phase holonomy of the vacuum in three-dimensional gauge theories. (English summary) **93i:81050**
Lledó, M. (*with* Martín, I.; Restuccia, A.; Mendoza, A.) Yang-Mills instantons over Riemann surfaces. **93f:58039**
Longo, Roberto *see* **Guido, Daniele, 93i:81121**
Love, Alex *see* **Bailin, David; et al., 93m:81159**
Lüdde, Mirko *see* **Constantinescu, Florin, 93j:20082**
Luk'yanov, S. L. *see* **Fateev, V. A., 93g:17024**
Lüst, Dieter *see* **Kounnas, Costas, 93g:83094**
Mack, Gerhard (*with* Schomerus, Volker) Endomorphisms and quantum symmetry of the conformal Ising model. (*see* **93i:81122**)
— (*with* Schomerus, Volker) Quasi Hopf quantum symmetry in quantum theory. **93c:81081**
MacKay, N. J. New factorized S-matrices associated with SO(N). **93b:81115**
Madsen, Jens Ole *see* **Ito, Katsushi; et al., 93i:81068**
Maggiore, N. *see* **Blasi, Alberto, 93m:81145**
Mahapatra, Swapna *see* **Imbimbo, Camillo; et al., 93k:81178**
Mahoux, G. (*with* Mehta, M. L.) A method of integration over matrix variables. IV. (English summary) **93i:58023**
Maiella, G. *see* **Cristofano, Gerardo; et al., 93a:81219** *and* **93g:81211**
Majid, Shahn Braided groups and algebraic quantum field theories. **93b:16071**
Makeenko, Yu. M. *see* **Chekhov, L., 93i:81176**
Mandal, Gautam *see* **Das, Sumit R.; et al., 93b:81180**
Mangazeev, V. V. *see* **Kashaev, R. M.; et al., 93d:82034**
Mann, Robert B. (*with* Steele, T. G.) Thermodynamics and quantum aspects of black holes in $(1 + 1)$ dimensions. **93g:83068**
— Lower-dimensional black holes. **93g:83069**
— *see also* **Christensen, Dan, 93f:81096**
Marculescu, S. *see* **Dahmen, H. D.; et al., 93i:81134**
Marshakov, A. V. (*with* Mironov, A. D.; Morozov, A. Yu.) From Virasoro constraints in Kontsevich's model to $\mathscr{W}$-constraints in two-matrix models. **93i:81179**
Martellini, Maurizio (*with* Spreafico, M.; Yoshida, Kensuke) On the black hole conformal field theory coupled to the Polyakov's string theory. A nonperturbative analysis. **93f:81114**
— *see also* **Fucito, F., 93d:81122**; **Carlini, A.; et al., 93k:83045** *and* **Fucito, F.; et al., 93m:58049**
Martín, I. *see* **Lledó, M.; et al., 93f:58039**
Martinec, Emil J. Criticality, catastrophes, and compactifications. **93d:32058**
Matheus-Valle, J. L. (*with* Rego Monteiro, M. A.) Quantum group generalization of the heterotic QFT. (English summary) **93m:81060**
Mathieu, Pierre (*with* Walton, M. A.) Fractional-level Kac-Moody algebras and nonunitary coset conformal theories. (English summary) **93j:81032**
— (*with* Sénéchal, David; Walton, M. A.) Field identification in nonunitary diagonal cosets. (English summary) **93i:81071**
— *see also* **Bégin, L.; et al., 93j:81028**
Matsuda, Satoshi[1] Coulomb gas representations and screening operators of the $N = 4$ superconformal algebras. **93a:81066**
Matsuo, Yutaka Classical W_n-symmetry and Grassmannian manifold. **93j:58064**
— *see also* **Gervais, Jean-Loup, 93d:81068**
Matsuzaki, T. (*with* Suzuki, Takashi) A representation of $U_q(\mathrm{su}(1,1))$ on the space of quasi-primary fields and correlation functions. (English summary) **93m:81064**
Mavromatos, N. E. *see* **Ellis, Jonathan Richard; et al., 93b:81211**
Mazur, Paweł O. *see* **Antoniadis, Ignatios; et al., 93m:81140**
McCarthy, James G. *see* **Bouwknegt, Peter; et al., 93e:17039**
Mehta, M. L. *see* **Mahoux, G., 93i:58023**
de Mello, J. C. *see* **Santos, M. A.; et al., 93j:81068**
Melzer, Ezer *see* **Klassen, Timothy R., 93c:81256**

Mendoza, A. *see* **Lledó, M.; et al., 93f:58039**
Milton, Kimball A. *see* **Bender, Carl M.; et al., 93g:81086**
Mironov, A. D. *see* **Marshakov, A. V.; et al., 93i:81179**
Mishchenko, A. V. (*with* Sitenko, Yu. A.) The axial anomaly for a two-dimensional compact manifold with a boundary. (Russian) **93b:81275**
Mizoguchi, Shun'ya (*with* Nakatsu, Toshio) RG flows in generalized supersymmetric and fractional supersymmetric sine-Gordon theories. **93b:81181**
Mlawer, Eli J. *see* **Bourdeau, Michelle Hilda; et al., 93e:81037** *and* **93i:81267**
van Moerbeke, P. *see* **Adler, Mark, 93g:58054**
Moore, Gregory W. Double-scaled field theory at $c = 1$. **93c:81157**
— (*with* Plesser, M. Ronen) Classical scattering in $(1 + 1)$-dimensional string theory. (English summary) **93j:81083**
Morozov, A. Yu. Pair correlator in the Itzykson-Zuber integral. (English summary) **93h:58021**
— *see also* **Marshakov, A. V.; et al., 93i:81179**
Morris, Tim R. *see* **Dalley, Simon; et al., 93j:81075** *and* **Ambjørn, Jan; et al., 93m:81074**
Moshe, Moshe *see* **Bender, Carl M.; et al., 93g:81086**
Mottola, Emil *see* **Antoniadis, Ignatios; et al., 93m:81140**
Moussa, Pierre *see* **Baker, George A., Jr.; et al., 93i:33009**
Mukherji, Sudipta On the interpolating solutions of string in different backgrounds. **93b:81224**
Mukhi, Sunil *see* **Imbimbo, Camillo, 93h:81096** *and* **93k:81178**
Musto, R. *see* **Cristofano, Gerardo; et al., 93a:81219** *and* **93g:81211**
Myers, Robert C. (*with* Periwal, Vipul) Invariants of smooth 4-manifolds from topological gravity. **93a:58033**
— *see also* **Anderson, Arlen; et al., 93b:81196**
Nahm, Werner Algebras of two-dimensional chiral fields and their classification. **93c:81067**
— *see also* **Blumenhagen, R.; et al., 93a:81063** *and* **Eholzer, W.; et al., 93i:81061**
Nakamula, Atsushi The Virasoro constraint and Hirota's bilinear difference equation. **93f:58106**
Nakanishi, Tomoki *see* **Kashaev, R. M.; et al., 93d:82034**
Nakatsu, Toshio *see* **Mizoguchi, Shun'ya, 93b:81181**
Nakayama, Ryuichi *see* **Fukuma, Masafumi; et al., 93j:81030**
Nanopoulos, D. V. *see* **Ellis, Jonathan Richard; et al., 93b:81211**
Nash, Charles ★ Differential topology and quantum field theory. **93c:58002**
Nelson, Philip *see* **Govindarajan, Suresh; et al., 93j:32015**
Nelson, William M. *see* **Giddings, Steven B., 93i:81165**
Nemeschansky, D. *see* **Bershadskii, M. A.; et al., 93i:81185**
(Neumann, Walter D.) *see* **Topology '90, 93d:57001**
Nicodemi, F. *see* **Cristofano, Gerardo; et al., 93a:81219** *and* **93g:81211**
Nicolai, H. *see* **de Wit, B.; et al., 93f:83083**
Niedermaier, Max R. Infinite abelian subalgebra of $W(\mathrm{sl}(n))$. **93a:81067**
— $\mathscr{W}(\mathrm{sl}(n))$: existence, Cartan basis and infinite abelian subalgebras. **93m:17016**
Nishino, Hitoshi *see* **Gates, S. James, Jr.**
Nohara, Hiroshi Extended superconformal algebra as symmetry of super Toda field theory. **93m:81046**
Noirot, Yves *see* **Ader, Jean-Pierre; et al., 93m:81139**
Novikov, S. P. On the equation $[L, A] = \varepsilon \cdot 1$. **93g:58062**
Núñez, Carmen A. *see* **Aldazabal, G.; et al., 93i:81180**
Obers, N. A. *see* **Giveon, Amit; et al., 93d:81069**; **Halpern, M. B., 93d:81071** *and* **93k:81079**
Odintsov, S. D. (*with* Shapiro, I. L.) One-loop divergences in two-dimensional induced quantum gravity. (Russian) **93a:81135**
— String theory at nonzero temperature and two-dimensional gravity. **93k:81183**
Ogievetskii, V. I. *see* **Gal'perin, A. S., 93c:83119**
Okamura, Takashi (*with* Ishihara, Hideki) Perturbation of higher-genus spatial surfaces in $(2 + 1)$-dimensional gravity. **93d:83008**
O'Raifeartaigh, Lochlainn W-algebras and the embedding of Toda theories in WZNW theories. (English summary) (*see* **93f:81005**)
— (*with* Ruelle, Philippe; Tsutsui, Izumi; Wipf, Andreas) W-algebras for generalized Toda theories. **93b:81097**
— *see also* **Fehér, László; et al., 93k:17054**
Oshima, Kazuto Eigenfunctions and heat kernels of super Maass Laplacians on the super Poincaré upper half-plane. **93e:58178**
de la Ossa, Xenia C. *see* **Candelas, Philip; et al., 93b:32028** *and* **93b:32029**
Park, Young-Jai *see* **Kim, Yong-Wan; et al., 93k:81239**
Parkes, Linda *see* **Candelas, Philip; et al., 93b:32028** *and* **93b:32029**
Parkhomenko, S. E. Extended superconformal current algebras and finite-dimensional Manin triples. (Russian) **93h:17063**
Pasquier, V. *see* **Haldane, F. D. M.; et al., 93h:82020**
Pasquinucci, Andrea *see* **Cecotti, Sergio; et al., 93a:32055**
Penati, S. (*with* Zanon, D.) Supersymmetric, integrable Toda field theories. The $B(1, 1)$-model. (English summary) **93e:81138**
Periwal, Vipul *see* **Myers, Robert C., 93a:58033**; **Anderson, Arlen; et al., 93b:81196** *and* **Cohn, J. D., 93b:81206**
Petersen, Jens Lyng *see* **Ito, Katsushi; et al., 93i:81068**
Petkova, Valentina B. *see* **Furlan, Paolo; et al., 93a:17012** *and* **Ganchev, Alexander Ch., 93i:81063**
Petropoulos, P. M. S. New critical behaviors for one-Hermitian-matrix models. **93c:81158**
Piguet, Olivier *see* **Emery, Stéphane, 93f:81082**
Pilch, Krzysztof *see* **Bouwknegt, Peter; et al., 93e:17039**
Pitanga, P. *see* **Santos, M. A.; et al., 93j:81068**
Plesser, M. Ronen *see* **Moore, Gregory W., 93j:81083**
Polychronakos, Alexios P. New integrable systems from unitary matrix models. **93e:58090**
Pope, C. N. (*with* Shen, Xiang; Xu, K. W.; Yuan, Ka Jia) $\mathrm{SL}(\infty, \mathbf{R})$ symmetry of quantum W_∞ gravity. **93g:81039**
Pradisi, G. *see* **Bianchi, Massimo; et al., 93e:81090**
Rabinovici, E. *see* **Elitzur, S.; et al., 93f:81151** *and* **de Wit, B.; et al., 93f:83083**
Radul, A. *see* **Vaisburd, I. D., 93d:81074**
Ragnisco, Orlando *see* **Fucito, F.; et al., 93m:58049**
Ragoucy, E. *see* **Delduc, François; et al., 93i:81060**
Rakowski, Mark *see* **Birmingham, Danny, 93a:81196** *and* **93c:81003**
Rama, S. Kalyana (*with* Sen, Siddhartha[1]) 3D manifolds, graph invariants and Chern-Simons theory. **93i:57027**
— *see also* **Das, Sumit R.; et al., 93c:81164**
Ramallo, A. V. *see* **Alvarez-Gaumé, Luis; et al., 93a:58030**
Ratiu, Tudor S. *see* **Bao, David, 93f:58015**
Ray, Koushik *see* **Roy Chowdhury, A., 93j:81033**
Recknagel, A. *see* **Blumenhagen, R.; et al., 93a:81063**
Rego Monteiro, M. A. *see* **Matheus-Valle, J. L., 93m:81060**
(Reid, Alan W.) *see* **Topology '90, 93d:57001**
Renken, Ray L. *see* **Catterall, Simon M.; et al., 93f:81149**
Reshetikhin, N. Yu. S-matrices in integrable models of isotropic magnetic chains. I. **93b:82025**
Restuccia, A. *see* **Lledó, M.; et al., 93f:58039**
Riggs, Harold *see* **Bourdeau, Michelle Hilda; et al., 93e:81037** *and* **93i:81267**
Roberts, Patrick (*with* Terao, Haruhiko) Modular invariants of Kac-Moody algebras from self-dual lattices. **93g:17043**
de Roo, Mees *see* **Bergshoeff, E. A.; et al., 93i:81059**
Roy, Ashim (*with* Bandyopadhyay, Pratul) Topological aspects of Liouville field theory and conformal anomaly. **93b:81278**
Roy, S. M. *see* **Capri, A. Z., 93e:81084**
Roy, Shibaji *see* **Das, Ashok; et al., 93d:81067**
Roychoudhury, Rajkumar *see* **Sinha, Anjana, 93i:81128**
Roy Chowdhury, A. (*with* Ray, Koushik) Zero curvature equation, gauge invariance, conformal and superconformal algebra. (English summary) **93j:81033**
Ruelle, Philippe *see* **O'Raifeartaigh, Lochlainn; et al., 93b:81097** *and* **Fehér, László; et al., 93k:17054**
Rühl, W. *see* **Lang, K., 93a:81119**
Russo, Jorge G. (*with* Susskind, Leonard; Thorlacius, Lárus) Cosmic censorship in two-dimensional gravity. (English summary) **93m:83062**
Saadi, Maha (*with* Zemba, Guillermo) The cubic matrix model with imaginary coupling and 2D gravity. **93a:81144**
Sachs, I. (*with* Wipf, Andreas) Finite temperature Schwinger model. (English summary) **93i:81127**
Sagnotti, A. *see* **Bianchi, Massimo; et al., 93e:81090**
Saidi, E. H. (*with* Zakkari, M.) Virasoro algebra from harmonic superspace. **93c:81068**
Saleur, H. Virasoro and Temperley Lieb algebras. **93f:81047**
Santos, M. A. (*with* de Mello, J. C.; Pitanga, P.) Physical variables in gauge theories. (English summary) **93j:81068**
Sasaki, Ryu *see* **Braden, H. W.; et al., 93i:81148**
Schmidt, Michael G. *see* **Fuchs, Jürgen; et al., 93i:81062**
Schnitzer, Howard J. *see* **Bourdeau, Michelle Hilda; et al., 93e:81037** *and* **93i:81267**
Schomerus, Volker *see* **Mack, Gerhard, 93c:81081** *and* **(93i:81122)**
Schücker, Thomas Knots and their links with biology and physics. **93a:57013**
Schütz, G. A new approach to the calculation of the central charge. **93a:81068**
Schwarz, Albert Universal moduli space and string theory. **93b:81229**
— (*with* Sen, Ashoke) Gluing theorem, star product and integration in open string field theory in arbitrary background fields. **93b:81230**
— On solutions to the string equation. **93f:58113**
— *see also* **Kac, Victor G., 93b:58066** *and* **Anagnostopoulos, Konstantinos N.; et al., 93m:58046**
Schwimmer, Adam *see* **Ferreira, L. A.; et al., 93b:81093**
Segal, Graeme Geometric aspects of quantum field theory. **93f:81002**
Semikhatov, A. M. Virasoro algebra action on integrable hierarchies and Virasoro constraints in matrix models. Matrix models from the viewpoint of integrable hierarchies. **93f:58115**
— Higher-spin and $W_\infty(J)$ algebras in Virasoro-constrained KP and N-KdV hierarchies. **93a:17029**
— Matrix models without matrices: from integrable hierarchies to recursion relations. **93b:81200**
Sen, Ashoke *see* **Schwarz, Albert, 93b:81230**
Sen, Siddhartha[1] *see* **Rama, S. Kalyana, 93i:57027**
Sénéchal, David *see* **Mathieu, Pierre; et al., 93i:81071**
Sfetsos, Konstadinos *see* **Bars, Itzhak, 93b:81088**
Shapere, Alfred *see* **Giveon, Amit, 93k:81177**
Shapiro, I. L. *see* **Odintsov, S. D., 93a:81135**
Shen, Xiang W infinity and string theory. (English summary) **93i:81073**
— *see also* **Pope, C. N.; et al., 93g:81039**
Shifman, M. *see* **Leutwyler, H., 93g:81104**
Shimizu, Yuji *see* **Katsura, Toshiyuki; et al., 93c:55004**
Sibold, Klaus *see* **Kraus, Elisabeth, 93c:81231**
(Siebenmann, Laurence Carl) *see* **Topology '90, 93d:57001**
Siegel, Warren *see* **Berkovits, Nathan; et al., 93d:81135**
Silaev, P. K. (*with* Khrustalev, O. A.) A connection between fields, quantized in overlapping regions, and the Unruh effect. (Russian. English and Russian summaries) **93i:81171**
Sil'vestrov, P. G. 2D gravity from a 1D matrix model. Double scaling limit. **93a:81145**
Singh, Rajiv R. P. *see* **Baker, George A., Jr., 93d:82041**
Sinha, Anjana (*with* Roychoudhury, Rajkumar) Time-dependent variational method for sine-Gordon quantum field theory. (English summary) **93i:81128**
Sitenko, Yu. A. *see* **Mishchenko, A. V., 93b:81275**
Skarke, Harald *see* **Kreuzer, Maximilian, 93k:32075**
Smailagic, A. (*with* Spallucci, Euro) General treatment of anomalies in $(1, 0)$ and $(1, 1)$ two-dimensional supergravity. (English summary) **93k:81231**
Smirnov, F. A. A comment on A. B. Zamolodchikov's paper concerning self-avoiding polymers: "Exact S-matrix associated with self-avoiding polymer problem in two dimensions" [Modern Phys. Lett. A **6** (1991), no. 19, 1807–1813; MR 92f:81126]. **93e:81086**
— *see also* **LeClair, André, 93h:81061**
Smit, Dirk-Jan *see* **Lerche, W.; et al., 93e:32029**
Sochen, N. *see* **Bauer, Michel, 93e:81035**

Solov'ev, O. A. *see* **Gates, S. James, Jr., 93i:81136**
Sorba, P. *see* **Delduc, François; et al., 93i:81060**
de Souza Dutra, Álvaro New remarks on chiral bosonization. **93c:81112**
Spallucci, Euro *see* **Smailagic, A., 93k:81231**
Spreafico, M. *see* **Martellini, Maurizio; et al., 93f:81114**
Steele, T. G. *see* **Mann, Robert B., 93g:83068**
Stelle, K. S. w_∞-geometry and w_∞-gravity. **93e:81041**
Stora, Raymond On Lagrangian two-dimensional conformal models. **93i:81151**
Strachan, I. A. B. The Moyal algebra and integrable deformations of the self-dual Einstein equations. **93f:58117**
Susskind, Leonard *see* **Cooper, Adrian; et al., 93c:83048** *and* **Russo, Jorge G.; et al., 93m:83062**
Suzuki, Takashi *see* **Matsuzaki, T., 93m:81064**
(Swieca, Jorge André) *see* **Algebraic theory of superselection sectors, 93i:81122**
Szymanowski, Lech *see* **Dahmen, H. D.; et al., 93i:81134**
Takasaki, Kanehisa (*with* Takebe, Takashi) SDiff(2) KP hierarchy. (English summary) **93m:58056**
Takebe, Takashi *see* **Takasaki, Kanehisa, 93m:58056**
Taistra, J. C. *see* **Haldane, F. D. M.; et al., 93h:82020**
Tanaka, Katsumi[1] Geometrical aspects of solvable two-dimensional models. **93c:58095**
(Teitelboim, Claudio) *see* **Quantum mechanics of fundamental systems, 93e:81005**
Terao, Haruhiko *see* **Roberts, Patrick, 93g:17043**
Thaddeus, Michael Conformal field theory and the cohomology of the moduli space of stable bundles. **93g:14017**
Thompson, George *see* **Birmingham, Danny; et al., 93c:81003**
Thorlacius, Lárus *see* **Cooper, Adrian; et al., 93c:83048** *and* **Russo, Jorge G.; et al., 93m:83062**
Tjin, T. Finite W-algebras. (English summary) **93j:81035**
Todorov, Ivan T. Quantum groups as symmetries of chiral conformal algebras. (English summary) **93k:81110**
Townsend, P. K. *see* **Abraham, E. R. C., 93f:81146**
Toyota, N. On algebraic structures of topological gravity. **93b:81098**
Trivedi, Sandip P. Semiclassical extremal black holes. (English summary) **93m:83059**
Tsuchiya, Akihiro Moduli of stable curves, conformal field theory and affine Lie algebras. **93e:14031**
Tsutsui, Izumi *see* **O'Raifeartaigh, Lochlainn; et al., 93b:81097** *and* **Fehér, László; et al., 93k:17054**
Tye, S.-H. Henry *see* **Argyres, Philip C.; et al., 93d:81064** *and* **Dienes, Keith R., 93f:81106**
Ueno, Kenji *see* **Katsura, Toshiyuki; et al., 93c:55004**
Vafa, Cumrun *see* **Cecotti, Sergio, 93b:81281**
Vaisburd, I. D. (*with* Radul, A.) Differential operators and W-algebra. **93d:81074**
Varchenko, A. N. Multidimensional hypergeometric functions in conformal field theory, algebraic K-theory, algebraic geometry. **93d:32060**
Varnhagen, R. *see* **Blumenhagen, R.; et al., 93a:81063** *and* **Eholzer, W.; et al., 93i:81061**
de Vega, H. J. *see* **Destri, C., 93h:82016**
(Velo, G.) *see* **Constructive quantum field theory, 93g:81074**
Verlinde, Erik The master equation of string theory. (English summary) **93i:81201**
— *see also* **Verlinde, Herman, 93d:83038** *and* **Dijkgraaf, Robbert; et al., 93e:81092**
Verlinde, Herman (*with* Verlinde, Erik) Scattering at Planckian energies. **93d:83038**
— *see also* **Dijkgraaf, Robbert; et al., 93e:81092**
Verstegen, Dirk Conformal embeddings, rank-level duality and exceptional modular invariants. **93c:17045**
— *see also* **Fuchs, Jürgen; et al., 93i:81062**
Volovich, I. V. *see* **Aref'eva, I. Ya., 93d:81084**
de Vos, Koos Symmetries of integrable hierarchies and matrix model constraints. **93j:58067**
Wadia, Spenta R. *see* **Das, Sumit R.; et al., 93b:81180**
Walton, M. A. *see* **Mathieu, Pierre; et al., 93i:81071**; **Bégin, L.; et al., 93j:81028** *and* **Mathieu, Pierre, 93j:81032**
Warner, N. P. *see* **Lerche, W.; et al., 93e:32029** *and* **Bershadskii, M. A.; et al., 93i:81185**
Wätterstam, Anders *see* **Dalley, Simon; et al., 93j:81075**
Watts, G. M. T. *see* **Bowcock, P., 93k:17026** *and* **Kausch, H. G., 93m:81045**
Weitsman, Jonathan *see* **Imbrie, John Z.; et al., 93b:81140** *and* **Janowsky, Steven A., 93i:81124**
Werner, Manfred U. Knots in physics. **93e:57017**
(Wightman, Arthur S.) *see* **Constructive quantum field theory, 93g:81074**
Wipf, Andreas *see* **O'Raifeartaigh, Lochlainn; et al., 93b:81097** *and* **Sachs, I., 93i:81127**
de Wit, B. (*with* Grisaru, M. T.; Rabinovici, E.; Nicolai, H.) Two-loop finiteness of $D = 2$ supergravity. (English summary) **93f:83083**
Witten, Edward Two-dimensional gravity and intersection theory on moduli space. **93e:32028**
— Two-dimensional gauge theories revisited. (English summary) **93m:58017**
— Ground ring of two-dimensional string theory. **93b:81234**
Wong, Eugene *see* **Govindarajan, Suresh; et al., 93j:32015**
Wotzasek, Clovis Faddeev-Jackiw quantization of Siegel's chiral oscillator. (English summary) **93f:81059**
Wu, Yong Shi[1] *see* **Yu, Feng, 93e:58097**; **93i:81075a** *and* **93i:81075b**
Xu, K. W. *see* **Pope, C. N.; et al., 93g:81039**
Yoon, Yongsung Zero modes of the nonrelativistic self-dual Chern-Simons vortices on the Toda backgrounds. **93d:81119**
Yoshida, Kensuke *see* **Martellini, Maurizio; et al., 93f:81114**
Yu, Feng (*with* Wu, Yong Shi[1]) Non-linearly deformed $\widehat{W}_\infty$ algebra and second Hamiltonian structure of KP hierarchy. **93e:58097**
— The super KP origin of the super $W_{1+\infty}$ algebra and its topological version. **93h:81048**
— (*with* Wu, Yong Shi[1]) Nonlinear $\widehat{W}_\infty$ current algebra in the SL(2, **R**)/U(1) coset model. **93i:81075a**
— (*with* Wu, Yong Shi[1]) Errata: "Nonlinear $\widehat{W}_\infty$ current algebra in the SL(2, **R**)/U(1) coset model". **93i:81075b**
Yuan, Ka Jia *see* **Pope, C. N.; et al., 93g:81039**
Yur'ev, D. V. The algebra Vert(Cvir, c) of vertex operators for the Virasoro algebra. (Russian) **93d:81075**
— Noncommutative geometry, chiral anomaly in the quantum projective [sl(2, **C**)-invariant] field theory and jl(2, **C**)-invariance. **93e:81042**
— On the representation of operator algebras of the quantum conformal field theory. **93i:81076**
Zakkari, M. *see* **Saidi, E. H., 93c:81068**
(Zamolodchikov, Aleksandr B.) *see* **Smirnov, F. A., 93e:81086**
Zamolodchikov, Aleksei B. From tricritical Ising to critical Ising by thermodynamic Bethe ansatz. **93b:81182**
(Zanelli, Jorge) *see* **Quantum mechanics of fundamental systems, 93e:81005**
Zanon, D. *see* **Penati, S., 93e:81138**
Zaugg, Ph. *see* **Alvarez-Gaumé, Luis, 93g:81183**
Zemba, Guillermo *see* **Saadi, Maha, 93a:81144**
Zhang, Shou Cheng The Chern-Simons-Landau-Ginzburg theory of the fractional quantum Hall effect. **93f:81167**
Zhang, Yao Zhong On classical exchange algebra of the affine (two-loop) WZNW model. (English summary) **93k:81081**
Zimerman, A. H. *see* **Ferreira, L. A.; et al., 93b:81093**; **93g:81036** *and* **Aratyn, Henrik; et al., 93j:81027**
Zubarev, A. P. *see* **Aref'eva, I. Ya., 93c:81160**
Zuber, J.-B. *see* **Bauer, Michel; et al., 93c:81062** *and* **Itzykson, Claude, (93j:81003)**
Zwiebach, Barton *see* **Kugo, Taichiro, 93i:81191**

Items listed otherwise than by author

Algebraic theory of superselection sectors ★ The algebraic theory of superselection sectors. **93i:81122**
Bibliography:
  Swieca, Jorge André ★ The algebraic theory of superselection sectors. **93i:81122**
Columbus, OH ★ Topology '90. **93d:57001**
Conference:
  Algebraic Theory of Superselection Sectors and Field Theory ★ The algebraic theory of superselection sectors. **93i:81122**
Constructive quantum field theory ★ Constructive quantum field theory. II. **93g:81074**
Debrecen ★ Nonperturbative methods in low-dimensional quantum field theories. **93f:81005**
Erice ★ Constructive quantum field theory. II. **93g:81074**
Madras ★ Matrix models, random surfaces and 2-D gravity. **93h:81001**
Matrix models, random surfaces and 2-D gravity ★ Matrix models, random surfaces and 2-D gravity. **93h:81001**
Meeting:
  Quantum Mechanics of Fundamental Systems ★ Quantum mechanics of fundamental systems. 2. **93e:81005**
NATO Advanced Study Institute:
  Constructive Quantum Field Theory ★ Constructive quantum field theory. II. **93g:81074**
Nonperturbative methods in low-dimensional quantum field theories ★ Nonperturbative methods in low-dimensional quantum field theories. **93f:81005**
Palermo ★ The algebraic theory of superselection sectors. **93i:81122**
Quantum mechanics of fundamental systems ★ Quantum mechanics of fundamental systems. 2. **93e:81005**
Santiago ★ Quantum mechanics of fundamental systems. 2. **93e:81005**
School:
  Mathematical Physics ★ Constructive quantum field theory. II. **93g:81074**
Topology '90 ★ Topology '90. **93d:57001**
Workshop:
  Current Problems in Particle Theory ★ Nonperturbative methods in low-dimensional quantum field theories. **93f:81005**
  Matrix Models, Random Surfaces and 2-D Gravity ★ Matrix models, random surfaces and 2-D gravity. **93h:81001**

81T50 Anomalies

Abe, Mitsuo (*with* Nakanishi, Noboru) Indefiniteness of the conformal anomaly of the string theory in the harmonic gauge. **93c:81230**
Ader, Jean-Pierre (*with* Gieres, François; Noirot, Yves) Relating Weyl and diffeomorphism anomalies on super Riemann surfaces. (English summary) **93m:81139**
Alfaro, Jorge (*with* Urrutia, Luis F.; Vergara, José David) Anomalous Jacobians and the vector anomaly. (*see* **93e:81005**)
Alves, M. S. (*with* Farina de Souza, Carlos) Trace anomaly in a scalar theory with an auxiliary external field. (English summary) **93e:81133**
Antoniadis, Ignatios (*with* Mazur, Paweł O.; Mottola, Emil) Conformal symmetry and central charges in 4 dimensions. (English summary) **93m:81140**
Axenides, Minos (*with* Johansen, A. A.) The global SU(2) anomaly for massive fermions. (English summary)
de Azcárraga, J. A. Wess-Zumino terms, extended algebras and anomalies in classical physics. (English summary) **93k:81227**
Bandyopadhyay, Pratul *see* **Roy, Ashim, 93b:81278**
Bastianelli, Fiorenzo (*with* van Nieuwenhuizen, Peter) Trace anomalies from quantum mechanics. (English summary) **93m:81141**
Bellucci, Stefano (*with* Ivanov, Evgenii Alekseevich[2]; Krivonos, S. O.) $N = 2$ chiral bosons in superspace. (English summary) **93i:81262**
Chamseddine, A. H. (*with* Fröhlich, Jürg) Two-dimensional Lorentz-Weyl anomaly and gravitational Chern-Simons theory. (English summary) **93g:81181**
Dettki, Arne (*with* Wipf, Andreas) Finite-size effects from general covariance and Weyl anomaly. **93a:81187**
Dragon, Norbert Regular gravitational Lagrangians. **93h:81138**
Farina de Souza, Carlos *see* **Alves, M. S., 93e:81133**
Fröhlich, Jürg *see* **Chamseddine, A. H., 93g:81181**
Fujiwara, Takanori (*with* Igarashi, Yuji; Kubo, J.) Anomaly in the Schrödinger representation of QFT. (English summary) **93m:81142**
Gieres, François *see* **Ader, Jean-Pierre; et al., 93m:81139**
Govaerts, Jan A quantum anomaly for rigid particles. (English summary) **93k:81228**

Govindarajan, Suresh (*with* Ovrut, Burt A.) The anomaly structure of $(2,0)$ heterotic world-sheet supergravity with gauged R-invariance. (English summary) **93i:81263**
Grosse, Harald (*with* Langmann, Edwin) The geometric phase and the Schwinger term in some models. (English summary) **93k:81229**
Hirshfeld, Allen C. Anomalies, BRS symmetry and superconnections. **93b:81274**
Ibáñez, Luis E. (*with* Lüst, Dieter) Duality-anomaly cancellation, minimal string unification and the effective low-energy Lagrangian of 4D strings. (English summary) **93i:81264**
Igarashi, Yuji *see* **Fujiwara, Takanori; et al., 93m:81142**
Ivanov, Evgenii Alekseevich² *see* **Bellucci, Stefano; et al., 93i:81262**
Joglekar, Satish D. (*with* Saini, Gaitri) Compact argument for family of anomalies in path-integral formulation. **93a:81188**
Johansen, A. A. *see* **Axenides, Minos**
Kraus, Elisabeth (*with* Sibold, Klaus) Conformal transformation properties of the energy-momentum tensor in four dimensions. **93c:81231**
Krivonos, S. O. *see* **Bellucci, Stefano; et al., 93i:81262**
Kubo, J. *see* **Fujiwara, Takanori; et al., 93m:81142**
Kubo, Reijiro Gauss law commutators in anomalous gauge theories from a geometrical point of view. (English summary) **93k:81230**
Kucheryavii, V. I. Mass effects in quantum corrections to canonical Ward identities. (*see* **93b:00013**)
Langmann, Edwin *see* **Grosse, Harald, 93k:81229**
Lano, R. P. (*with* Rodgers, V. G. J.) Applications of W algebras to BF theories, QCD and 4D gravity. **93i:81265**
Link, Robert Anomalies and the quantum theory of chiral matter on a line. **93c:81232**
Lüst, Dieter *see* **Ibáñez, Luis E., 93i:81264**
Maischak, Matthias The gravitational anomalies in de Sitter space. (English summary) **93g:81182**
Mazur, Paweł O. *see* **Antoniadis, Ignatios; et al., 93m:81140**
Mishchenko, A. V. (*with* Sitenko, Yu. A.) The axial anomaly for a two-dimensional compact manifold with a boundary. (Russian) **93b:81275**
Miyake, Shogo (*with* Shizuya, K.) Consistency and current algebras of a nonabelian chiral gauge theory in four dimensions. **93b:81276**
Mottola, Emil *see* **Antoniadis, Ignatios; et al., 93m:81140**
Nakanishi, Noboru *see* **Abe, Mitsuo, 93c:81230**
van Nieuwenhuizen, Peter *see* **Bastianelli, Fiorenzo, 93m:81141**
Noirot, Yves *see* **Ader, Jean-Pierre; et al., 93m:81139**
Ovrut, Burt A. Topology, superspace, and anomalies. (*see* **93e:81005**)
— *see also* **Govindarajan, Suresh, 93i:81263**
Papadopoulos, N. A. Anomalies from the phenomenological and geometrical points of view. (English summary) **93i:81266**
Piguet, Olivier (*with* Sorella, Silvio P.) Adler-Bardeen theorem and vanishing of the gauge beta function. (English summary)
Rietdijk, R. H. Classical and quantum mechanics of a spinning particle interacting with anti-symmetric nonabelian tensor fields. **93b:81277**
Rodgers, V. G. J. *see* **Lano, R. P., 93i:81265**
Roy, Ashim (*with* Bandyopadhyay, Pratul) Topological aspects of Liouville field theory and conformal anomaly. **93b:81278**
Saini, Gaitri *see* **Joglekar, Satish D., 93a:81188**
Schaposnik, Fidel A. Symmetries and anomalies in fermionic theories. (*see* **93e:81005**)
Shizuya, K. *see* **Miyake, Shogo, 93b:81276**
Sibold, Klaus *see* **Kraus, Elisabeth, 93c:81231**
Sitenko, Yu. A. *see* **Mishchenko, A. V., 93b:81275**
Smailagic, A. (*with* Spallucci, Euro) Gravitational and Schwinger model anomalies: how far can the analogy go? **93c:81233**
— (*with* Spallucci, Euro) General treatment of anomalies in $(1,0)$ and $(1,1)$ two-dimensional supergravity. (English summary) **93k:81231**
Sorella, Silvio P. *see* **Piguet, Olivier**
Spallucci, Euro *see* **Smailagic, A., 93c:81233** *and* **93k:81231**
Urrutia, Luis F. (*with* Vergara, José David) Anomalies in the Fujikawa method using parameter-dependent regulators. **93b:81279**
— *see also* **Alfaro, Jorge; et al., (93e:81005)**
Vergara, José David *see* **Urrutia, Luis F., 93b:81279** *and* **Alfaro, Jorge; et al., (93e:81005)**
White, P. L. Anomaly consistency conditions to all orders. **93c:81234**
Wipf, Andreas *see* **Dettki, Arne, 93a:81187**

Items with secondary classifications in 81T50

Aldaya, Víctor (*with* Navarro-Salas, José) Higher-order polarizations on the Virasoro group and anomalies. **93e:81057**
Alfaro, Jorge (*with* Damgaard, P. H.) BRST symmetry of field redefinitions. (English summary) **93k:81236**
de Azcárraga, J. A. (*with* Izquierdo, J. M.; Townsend, P. K.) Kaluza-Klein origin for the superstring tension. **93a:83036**
Bandelloni, Giuseppe Renormalization of gauge coset models. **93g:81075**
Bandyopadhyay, N. Partition functions for quantized fields in curved space-times. **93d:81124**
Bandyopadhyay, Pratul *see* **Banerjee, Dipti, 93a:81092**
Banerjee, Dipti (*with* Bandyopadhyay, Pratul) Topological aspects of a fermion, chiral anomaly, and Berry phase. **93a:81092**
Banerjee, Narayan (*with* Chatterjee, D.; Ghosh, Subir) Chiral bosons coupled to Liouville gravity in the Faddeev-Jackiw formalism. (English summary) **93i:81207**
Bérubé, D. (*with* Kröger, Helmut; Lafrance, R.; Marleau, L.) Axial anomaly on a momentum lattice. **93a:81141**
Blasi, Alberto (*with* Collina, R.) The Chern-Simons model with boundary: a cohomological approach. **93d:81110**
— (*with* Maggiore, N.; Sorella, Silvio P.) Nonrenormalization properties of the Chern-Simons action coupled to matter. **93d:81111**
— (*with* Maggiore, N.) Infrared and ultraviolet finiteness of topological BF theory in two dimensions. (English summary) **93m:81145**
Bombelli, Luca (*with* Gunzig, Edgard; Nesteruk, A. V.) Renormalization, the trace anomaly and spacetime anisotropy. (English summary) **93g:81102**
Chatterjee, D. *see* **Banerjee, Narayan; et al., 93i:81207**
Collina, R. *see* **Blasi, Alberto, 93d:81110**
Collins, Graham P. (*with* Weisberger, William I.) Surface quadrupling and regularized off-shell amplitudes for unoriented, open, bosonic strings. **93e:81091**
Dahmen, H. D. (*with* Marculescu, S.; Szymanowski, Lech) Currents and anomalies in topological Yang-Mills theory. (English summary) **93i:81134**
Damgaard, P. H. *see* **Alfaro, Jorge, 93k:81236**
De Jonghe, F. (*with* Siebelink, R.; Troost, W.) Nonlocal regularisation and two-dimensional induced actions. (English summary) **93c:81120**
Duncan, M. J. (*with* Kaloper, Nemanja; Olive, Keith A.) Axion hair and dynamical torsion from anomalies. (English summary) **93g:83092**
Frolov, Sergei Anatol'evich (*with* Slavnov, A. A.; Sochichiu, C.) On the SO(N) symmetry of the chiral SU(N) Yang-Mills model. (English summary) **93k:81140**
Ghosh, Subir *see* **Banerjee, Narayan; et al., 93i:81207**
Gieres, François Maurer-Cartan forms and equations for two-dimensional superdiffeomorphisms. (English summary) **93k:58032**
Goshtasbpour, Mehrdad On some calculations of effective action and Fujikawa regularized anomaly in the chiral Schwinger model. **93a:81118a**
— Errata: "On some calculations of effective action and Fujikawa regularized anomaly in the chiral Schwinger model". **93a:81118b**
Gunzig, Edgard *see* **Bombelli, Luca; et al., 93g:81102**
Inamoto, Tadashi Symplectic structures in the chirally gauged Wess-Zumino-Witten model. **93c:81248**
Izquierdo, J. M. *see* **de Azcárraga, J. A.; et al., 93a:83036**
Jungman, Gerard Further topological proofs of Gribov ambiguities. **93f:81084**
Kachkachi, M. (*with* Lhallabi, T.) $N=2$ superconformal anomalies and curved harmonic superspace. **93d:81177**
— (*with* Lhallabi, T.) $N=2$ supergravity in superspace and the BRS symmetry. (English summary) **93h:83036**
Kaloper, Nemanja *see* **Duncan, M. J.; et al., 93g:83092**
Kaplan, David B. A method for simulating chiral fermions on the lattice. (English summary) **93f:81099**
Kelnhofer, Gerald A relation between group- and Čech-cohomology in principal fiber bundles and anomalies. **93c:55015**
Kim, Jae Kwan *see* **Kim, Won-Tae; et al., 93j:81066**
Kim, Kee Yong *see* **Kim, Yong-Wan; et al., 93k:81239**
Kim, Seung-Kook *see* **Kim, Yong-Wan; et al., 93k:81239**
Kim, Won-Tae (*with* Kim, Jae Kwan; Park, Young-Jai) Minimal chiral Schwinger model in the matter gauge. (English summary) **93j:81066**
— *see also* **Kim, Yong-Wan; et al., 93k:81239**
Kim, Yong Duk *see* **Kim, Yong-Wan; et al., 93k:81239**
Kim, Yong-Wan (*with* Kim, Seung-Kook; Kim, Won-Tae; Park, Young-Jai; Kim, Kee Yong; Kim, Yong Duk) Chiral Schwinger model based on the Batalin-Fradkin-Vilkovisky formalism. (English summary) **93k:81239**
Kim, Yoonbai Chiral anomalies of higher-derivative theories from stochastic quantization. (English summary) **93k:81115**
Kröger, Helmut *see* **Bérubé, D.; et al., 93a:81141**
Kucheryavii, V. I. Symmetries and anomalies of quantum field theory in the Bogolyubov-Parasyuk renormalization scheme. (Ukrainian. Russian summary) **93c:81139**
Lafrance, R. *see* **Bérubé, D.; et al., 93a:81141**
Lam, C. S. *see* **Li, Z.-S., 93k:81212a** *and* **93k:81212b**
Lazzarini, S. (*with* Stora, Raymond) Ward identities for Lagrangian conformal models. **93b:81257**
Lhallabi, T. *see* **Kachkachi, M., 93d:81177** *and* **93h:83036**
Li, Z.-S. (*with* Lam, C. S.) Minimal-rank models from nonabelian orbifolds. (English summary) **93k:81212a**
— (*with* Lam, C. S.) Errata: "Minimal-rank models from nonabelian orbifolds". **93k:81212b**
Maggiore, N. (*with* Sorella, Silvio P.) Perturbation theory for antisymmetric tensor fields in four dimensions. (English summary) **93k:81150**
— *see also* **Blasi, Alberto; et al., 93d:81111** *and* **93m:81145**
Marculescu, S. *see* **Dahmen, H. D.; et al., 93i:81134**
Marleau, L. *see* **Bérubé, D.; et al., 93a:81141**
McKeon, D. G. C. (*with* Sherry, T. N.) Operator regularization and the phase of one-loop determinants. (English summary) **93i:81150**
Mitra, Parthasarathi Chiral Schwinger model with a Faddeevian regularization. **93c:81109**
Nakazawa, Naohito Comment on the trace anomaly in stochastic quantization. **93a:81097**
Nash, Charles A comment on Witten's topological Lagrangian. **93g:57039**
Navarro-Salas, José *see* **Aldaya, Víctor, 93e:81057**
Nesterov, A. I. Quasigroup ideas in physics. (Russian. English summary) **93c:58234**
Nesteruk, A. V. *see* **Bombelli, Luca; et al., 93g:81102**
Olive, Keith A. *see* **Duncan, M. J.; et al., 93g:83092**
Papadopoulos, George J. Topology, unitary representations and charged particles. **93c:81152**
Park, Young-Jai *see* **Kim, Won-Tae; et al., 93j:81066** *and* **Kim, Yong-Wan; et al., 93k:81239**
Piguet, Olivier (*with* Sorella, Silvio P.) On the finiteness of the BRS modulo-d cocycles. (English summary) **93j:81071**
Pope, C. N. (*with* Romans, L. J.; Sezgin, Ergin; Shen, Xiang) Anomalies and curvature of W manifolds. **93b:58013**
— (*with* Romans, L. J.; Stelle, K. S.) Anomaly-free W_3 gravity and critical W_3 strings. **93e:81126**
Quackenbush, John Chiral gauge field theory in two dimensions. **93b:81165**
Romans, L. J. *see* **Pope, C. N.; et al., 93b:58013** *and* **93e:81126**
Rosenberg, Steven Anomalies associated to the polar decomposition of GL(n, **C**). **93b:58164**
Saidi, E. H. (*with* Zakkari, M.) Integral representation of the $N=4$ conformal anomaly. **93b:81270**
Sezgin, Ergin *see* **Pope, C. N.; et al., 93b:58013**
Shamir, Yigal Compensating fields and anomalies in supergravity. (English summary) **93k:81235**

Shen, Xiang *see* **Pope, C. N.; et al., 93b:58013**
Sherry, T. N. *see* **McKeon, D. G. C., 93i:81150**
Siebelink, R. *see* **De Jonghe, F.; et al., 93c:81120**
Slavnov, A. A. *see* **Frolov, Sergei Anatol'evich; et al., 93k:81140**
Sochichiu, C. *see* **Frolov, Sergei Anatol'evich; et al., 93k:81140**
Sorella, Silvio P. *see* **Blasi, Alberto; et al., 93d:81111**; **Piguet, Olivier, 93j:81071** *and* **Maggiore, N., 93k:81150**
Stelle, K. S. *see* **Pope, C. N.; et al., 93e:81126**
Stora, Raymond Differential algebras in field theory. (*see* **93e:81005**)
— On Lagrangian two-dimensional conformal models. **93i:81151**
— *see also* **Lazzarini, S., 93b:81257**
Streater, Raymond F. The energy of a Weyl soliton. (English summary) **93k:81134**
Szymanowski, Lech *see* **Dahmen, H. D.; et al., 93i:81134**
Tolksdorf, Jürgen An investigation of the $\mathscr{R}^2$ gravity, with respect to the symmetry of a massless pointlike particle. **93i:81257**
Townsend, P. K. *see* **de Azcárraga, J. A.; et al., 93a:83036**
Troost, W. *see* **De Jonghe, F.; et al., 93c:81120**
Weisberger, William I. *see* **Collins, Graham P., 93e:81091**
Zakkari, M. *see* **Saidi, E. H., 93b:81270**
Zhang, Huazhong Dynamical supersymmetry breaking and gauge anomalies. **93a:81194**

81T60 Supersymmetric field theories

Abraham, E. R. C. (*with* Townsend, P. K.) Q-kinks. (English summary) **93f:81146**
Almeida, C. A. S. (*with* Helayël-Neto, J. A.; Smith, A. William) The superspace gauging of $(2,0)$ nonlinear sigma models in the presence of torsion. **93d:81173**
Alvarez-Gaumé, Luis (*with* Zaugg, Ph.) Some correlation functions of minimal superconformal models coupled to supergravity. **93g:81183**
de Azcárraga, J. A. (*with* Izquierdo, J. M.; Zakrzewski, Wojciech J.) A supergroup based supersigma model. **93e:81134**
Balakrishna, B. S. (*with* Gürsey, Feza; Nguyen Ai Viet; Wali, Kameshwar C.) Towards a unified treatment of Yang-Mills and Higgs fields: a supersymmetric extension. (English summary) **93j:81098**
Barcelos-Neto, J. (*with* Cheb-Terrab, E. S.) Faddeev-Jackiw quantization in superspace. **93g:81184**
Bellucci, Stefano The discretization of $D = 2$ surfaces and supersymmetry invariance. **93c:81235**
— Broken supersymmetry in the matrix model on a circle. **93c:81236**
Bourdeau, Michelle Hilda (*with* Mlawer, Eli J.; Riggs, Harold; Schnitzer, Howard J.) The quasi-rational fusion structure of $SU(m|n)$ Chern-Simons and WZW theories. **93i:81267**
Catto, Sultan Instantons from supersymmetric conformal chiral scalar superfield theories. **93b:81280**
— (*with* Gürsey, Yusuf) Instanton-like solutions in conformal chiral superfield theories. (English summary) **93i:81268**
Cecotti, Sergio (*with* Vafa, Cumrun) Exact results for supersymmetric σ models. **93b:81281**
Chau, Ling-Lie Nonlinear differential equations in physics and their geometrical integrability properties. **93c:81237**
Cheb-Terrab, E. S. *see* **Barcelos-Neto, J., 93g:81184**
Chitra, R. (*with* Kumar, C. Nagraj; Sen, Diptiman) Supersymmetry in the two-anyon problem. **93a:81189**
Cvetič, Mirjam (*with* Griffies, Stephen; Rey, Soo-Jong) Static domain walls in $N = 1$ supergravity. (English summary) **93i:81269**
Dayi, Ömer F. The Casalbuoni-Brink-Schwarz superparticle with covariant, reducible constraints. **93d:81174**
Delduc, François (*with* Ragoucy, E.; Sorba, P.) Super-Toda theories and W-algebras from superspace Wess-Zumino-Witten models. **93e:81135**
Evans, Jonathan M. (*with* Hollowood, Timothy J.) Integrable $N = 2$ supersymmetric field theories. (English summary) **93i:81270**
Fendley, Paul (*with* Intriligator, K.) Scattering and thermodynamics of fractionally-charged supersymmetric solitons. **93m:81143**
Gal'perin, A. S. (*with* Sokatchev, E. S.) Twistorlike $D = 10$ superparticle action with manifest $N = 8$ world-line supersymmetry. **93i:81271**
Gates, S. James, Jr. (*with* Majumdar, Parthasarathi) Toward a (supersymmetry)^2 particle model of the First Ilk. **93c:81238**
— (*with* Nishino, Hitoshi) Remarks on $N = 2$ supersymmetric Chern-Simons theories. **93i:81272**
— (*with* Nishino, Hitoshi; Ketov, S. V.) Extended supersymmetry and self-duality in $2 + 2$ dimensions. (English summary) **93j:81099**
— (*with* Nishino, Hitoshi) Supersymmetric integrable systems embedded in supersymmetric self-dual Yang-Mills theory. (English summary)
Gol'fand, Yu. A. On supergauge field theories. (Russian. Russian summary) **93g:81185**
Griffies, Stephen *see* **Cvetič, Mirjam; et al., 93i:81269**
Guan, Xi Wen *see* **Xiong, Zhuang; et al., 93c:81241**
Gürsey, Feza *see* **Balakrishna, B. S.; et al., 93j:81098**
Gürsey, Yusuf *see* **Catto, Sultan, 93i:81268**
Hayashi, Masahito Classification of $(2 + 1)$-dimensional Chern-Simons supergravity theories. (English summary) **93k:81232**
Helayël-Neto, J. A. *see* **Almeida, C. A. S.; et al., 93d:81173**
Hloušek, Zvonimir (*with* Spector, Donald) Understanding solitons algebraically. (English summary) **93k:81233**
— (*with* Spector, Donald) Topological charges and central charges in $(3 + 1)$-dimensional supersymmetry. **93d:81175**
Hollowood, Timothy J. *see* **Evans, Jonathan M., 93i:81270**
Howe, P. S. Elliptic operators and supersymmetry. (*see* **93g:81003**)
Huq, M. Covariant quantization of broken twisted $N = 2$ superparticle. (English summary) **93e:81136**
Intriligator, K. *see* **Fendley, Paul, 93m:81143**
Ito, Kei Topological field theory of four-dimensional self-dual target space and twisted harmonic superspace. **93d:81176**
Izquierdo, J. M. *see* **de Azcárraga, J. A.; et al., 93e:81134**
Jack, I. (*with* Jones, D. R. T.; West, P. C.) Not the no-renormalisation theorem? **93a:81193**
— The twisted $N = 2$ supersymmetric sigma model: a four-loop calculation of the beta function. **93a:81190**
Jaffe, Arthur (*with* Lesniewski, Andrzej) Geometry of supersymmetry. (*see* **93g:81074**)
Jones, D. R. T. *see* **Jack, I.; et al., 93a:81193**
Kachkachi, M. (*with* Lhallabi, T.) $N = 2$ superconformal anomalies and curved harmonic superspace. **93d:81177**
Kao, Hsien-Chung (*with* Lee, Kimyeong) Self-dual Chern-Simons Higgs systems with an $N = 3$ extended supersymmetry. (English summary) **93m:81144**
Ketov, S. V. *see* **Gates, S. James, Jr.; et al., 93j:81099**
Khare, Avinash Parasupersymmetric quantum mechanics of arbitrary order. **93d:81178**
Korchemskii, G. P. The parasupersymmetric spinning particle and topological gauge fields. **93g:81186**
Kumar, C. Nagraj *see* **Chitra, R.; et al., 93a:81189**
Landi, G. (*with* Marmo, Giuseppe; Vilasi, Gaetano) Remarks on the complete integrability of dynamical systems with fermionic variables. (English summary) **93h:81139**
Leblanc, Martin (*with* Lozano, Gustavo; Min, Hyunsoo) Extended superconformal Galilean symmetry in Chern-Simons matter systems. (English summary) **93k:81234**
— (*with* Thomaz, M. T.) Quantized and thermalized supersymmetric Maxwell-Chern-Simons theory. **93c:81239**
Lee, Bum-Hoon (*with* Lee, Choonkyu; Min, Hyunsoo) Supersymmetric Chern-Simons vortex systems and fermion zero modes. **93c:81240**
Lee, Choonkyu *see* **Lee, Bum-Hoon; et al., 93c:81240**
Lee, Kimyeong *see* **Kao, Hsien-Chung, 93m:81144**
Lesniewski, Andrzej *see* **Jaffe, Arthur, (93g:81074)**
Lhallabi, T. *see* **Kachkachi, M., 93d:81177**
Łopuszański, Jan On the action of the Pauli-Lubanski Casimir operator in a relativistic supersymmetric quantum field theory. **93a:81191**
Lozano, Gustavo *see* **Leblanc, Martin; et al., 93k:81234**
Majumdar, Parthasarathi *see* **Gates, S. James, Jr., 93c:81238**
Marmo, Giuseppe *see* **Landi, G.; et al., 93h:81139**
Maslikov, A. A. (*with* Volkov, G. G.) $N = 2$ SUSY analytic vector superfields in terms of component fields. **93b:81282**
Min, Hyunsoo *see* **Lee, Bum-Hoon; et al., 93c:81240** *and* **Leblanc, Martin; et al., 93k:81234**
Mlawer, Eli J. *see* **Bourdeau, Michelle Hilda; et al., 93i:81267**
Morozov, A. Yu. (*with* Niemi, Antti J.; Palo, K.) Supersymmetry and loop space geometry. **93b:81283**
— (*with* Niemi, Antti J.; Palo, K.) Geometric approach to supersymmetry. (English summary) **93i:81273**
— (*with* Niemi, Antti J.; Palo, K.) Supersymplectic geometry of supersymmetric quantum field theories. **93e:81137**
Nguyen Ai Viet *see* **Balakrishna, B. S.; et al., 93j:81098**
Niemi, Antti J. *see* **Morozov, A. Yu.; et al., 93b:81283**; **93e:81137** *and* **93i:81273**
Nishino, Hitoshi *see* **Gates, S. James, Jr., 93i:81272**; **93j:81099**
Nogueira, P. $N = 2$ superprojective transformations and the nilpotent invariant. **93h:81140**
Ogievetskiĭ, V. I. Harmonics: Hamiltonian analogies and quaternionic analyticity. (*see* **93h:81003**)
Palo, K. *see* **Morozov, A. Yu.; et al., 93b:81283**; **93e:81137** *and* **93i:81273**
Penati, S. (*with* Zanon, D.) Supersymmetric, integrable Toda field theories. The $B(1,1)$-model. (English summary) **93e:81138**
Perelomov, A. M. A few comments on $N = 2$ supersymmetric Landau-Ginzburg theories. **93f:81147**
Ragoucy, E. *see* **Delduc, François; et al., 93e:81135**
Rey, Soo-Jong *see* **Cvetič, Mirjam; et al., 93i:81269**
Riggs, Harold *see* **Bourdeau, Michelle Hilda; et al., 93i:81267**
de Roo, Mees (*with* Suelmann, H.; Wiedemann, Alfred) Supersymmetric R^4-actions in ten dimensions. **93b:81284**
Schnitzer, Howard J. *see* **Bourdeau, Michelle Hilda; et al., 93i:81267**
Sen, Diptiman *see* **Chitra, R.; et al., 93a:81189**
Shamir, Yigal Compensating fields and anomalies in supergravity. (English summary) **93k:81235**
Smith, A. William *see* **Almeida, C. A. S.; et al., 93d:81173**
Sokatchev, E. S. Chern-Simons theories of symplectic super-diffeomorphisms. (*see* **93g:81003**)
— *see also* **Gal'perin, A. S., 93i:81271**
Song, He Shan *see* **Xu, Guang Nan**
Sorba, P. *see* **Delduc, François; et al., 93e:81135**
Spector, Donald *see* **Hloušek, Zvonimir, 93d:81175** *and* **93k:81233**
Suelmann, H. *see* **de Roo, Mees; et al., 93b:81284**
Thomaz, M. T. *see* **Leblanc, Martin, 93c:81239**
Townsend, P. K. *see* **Abraham, E. R. C., 93f:81146**
Urrutia, Luis F. (*with* Waelbroeck, Henri; Zertuche, Federico) The algebra of supertraces for $(2 + 1)$ super de Sitter gravity. (English summary) **93f:81148**
Vafa, Cumrun *see* **Cecotti, Sergio, 93b:81281**
Vilasi, Gaetano *see* **Landi, G.; et al., 93h:81139**
Volkov, G. G. *see* **Maslikov, A. A., 93b:81282**
Waelbroeck, Henri *see* **Urrutia, Luis F.; et al., 93f:81148**
Wali, Kameshwar C. *see* **Balakrishna, B. S.; et al., 93j:81098**
West, P. C. A comment on the nonrenormalization theorem in supersymmetric theories. **93a:81192**
— *see also* **Jack, I.; et al., 93a:81193**
White, P. L. An analysis of the cohomology structure of super Yang-Mills coupled to matter. **93g:81187**
Wiedemann, Alfred *see* **de Roo, Mees; et al., 93b:81284**
Xiong, Zhuang (*with* Guan, Xi Wen; Zhou, Huan Qiang) A quantum integrable supersymmetric multiple three-wave interaction model. **93c:81241**
Xu, Guang Nan (*with* Song, He Shan) Dynamical breaking of supersymmetry by fermion pair condensation. (English summary)

Yu, Yang Zheng A perturbed $N = 1$ superconformal soliton theory. (Chinese. English summary) **93c:81242**
Zakrzewski, Wojciech J. *see* **de Azcárraga, J. A.; et al., 93e:81134**
Zanon, D. *see* **Penati, S., 93e:81138**
Zaugg, Ph. *see* **Alvarez-Gaumé, Luis, 93g:81183**
Zertuche, Federico *see* **Urrutia, Luis F.; et al., 93f:81148**
Zhang, Huazhong Dynamical supersymmetry breaking and gauge anomalies. **93a:81194**
Zhou, Huan Qiang *see* **Xiong, Zhuang; et al., 93c:81241**

Items with secondary classifications in 81T60

Achúcarro, Ana Chern-Simons supergravities. (*see* **93g:81003**)
Ahn, Changrim (*with* Chung, Stephen-wei; Tye, S.-H. Henry) New parafermion, SU(2) coset and $N = 2$ superconformal field theories. **93a:81162**
Ali, Abbas (*with* Kumar, Alok[2]; Maharana, Jnanadeva; Sengupta, Gautam) Algebraic structure of topological superconformal field theory on Riemann surfaces. (English summary) **93f:81123**
Alvarez, Orlando (*with* Singer, I. M.; Windey, Paul) The supersymmetric σ-model and the geometry of the Weyl-Kac character formula. **93f:58224**
Alvarez-Gaumé, Luis (*with* Zaugg, Ph.) Structure constants in the $N = 1$ superoperator algebra. **93b:81235**
Ananthanarayan, B. A superstring model with R symmetries and low B-L breaking. (English summary) **93f:81102**
Andreev, V. A. (*with* Kharchev, S. M.; Shmakova, M. V.) The supersymmetric structure of the Kadomtsev-Petviashvili equation: a connection between supersymmetry and Bäcklund transformations. (Russian. English and Russian summaries) **93h:58064**
Anglin, J. R. (*with* Myers, Robert C.) Wormholes and supersymmetry. (English summary) **93k:83025**
Aoki, Kenichiro (*with* D'Hoker, Eric) Correlation functions of minimal models coupled to two-dimensional quantum supergravity. **93b:81237**
Arai, Asao A general class of infinite-dimensional Dirac operators and path integral representation of their index. **93j:58124**
de Azcárraga, J. A. (*with* Lukierski, Jerzy; Niederle, Jiří) Contractions yielding new supersymmetric extensions of the Poincaré algebra. **93h:17009**
— Wess-Zumino terms, extended algebras and anomalies in classical physics. (English summary) **93k:81227**
Bagger, Jonathan *see* **Wess, Julius, 93a:81003**
Bandos, I. A. (*with* Zheltukhin, A. A.) 11-dimensional supermembrane in a spinor moving repère formalism. (English summary) **93m:83079**
Baranowski, D. (*with* Rittenberg, Vladimir; Schütz, G.) Higher symmetries in the spin-one Zamolodchikov-Fateev Hamiltonian with a finite number of sites and toroidal boundary conditions. Spectra and operator content of $N = 1$ superconformal systems. **93c:81192**
Bender, Carl M. New approach to the solution of nonlinear problems. (English summary) **93m:81037**
Bera, P. K. *see* **Talukdar, B.; et al., 93d:81036**
Bergshoeff, E. A. (*with* Sezgin, Ergin) Self-dual supergravity theories in 2 + 2 dimensions. (English summary) **93i:83092**
Bhattacharyya, C. *see* **Talukdar, B.; et al., 93d:81036**
Bieńkowska, Jadwiga The generalized no-ghost theorem for $N = 2$ SUSY critical strings. **93d:81136**
Bouwknegt, Peter (*with* McCarthy, James G.; Pilch, Krzysztof) Ground ring for the two-dimensional NSR string. **93f:81127**
Boya, Luis J. (*with* Casahorran, J.; Esteve, J. G.) Anomalous SUSY quantum mechanics, heterotic models and scattering states. (English summary) **93e:81027**
Brydges, David (*with* Evans, Steven N.; Imbrie, John Z.) Self-avoiding walk on a hierarchical lattice in four dimensions. **93b:60150**
Burwick, T. T. (*with* Chamseddine, A. H.; Meissner, K. A.) Matter coupling and spontaneous symmetry breaking in topological gravity. **93c:81195**
Casahorran, J. *see* **Boya, Luis J.; et al., 93e:81027**
Cassi, D. *see* **Pesando, I., 93i:82085**
Cecotti, Sergio (*with* Girardello, L.; Pasquinucci, Andrea) Singularity-theory and $N = 2$ supersymmetry. **93a:32055**
— (*with* Vafa, Cumrun) Topological–anti-topological fusion. **93a:81168**
Chamseddine, A. H. *see* **Burwick, T. T.; et al., 93c:81195**
Chiou-Lahanas, C. (*with* Kapella-Economou, A.; Lahanas, A. B.; Maintas, X. N.) Gravitational radiative corrections in $N = 1$ supergravity. **93c:83118**
Chung, Stephen-wei *see* **Ahn, Changrim; et al., 93a:81162**
Chung, Won-Sang The chiral version of the super Liouville action from the OSp(1|2) Chern-Simons theory. (English summary) **93k:81196**
Connes, Alain (*with* Lott, John) The metric aspect of noncommutative geometry. **93m:58011**
Crumeyrolle, A. Supergravity, supersymmetry: a geometric unitary spinor theory. (English summary) **93m:83081**
Das, U. *see* **Talukdar, B.; et al., 93d:81036**
Delduc, François (*with* Sokatchev, E. S.) Superparticle with extended worldline supersymmetry. **93b:81208**
Devchand, Ch. (*with* Ogievetskiĭ, V. I.) Super-self-duality as analyticity in harmonic superspace. (English summary) **93m:81051**
DeWitt, Bryce S. ★ Supermanifolds. **93j:58008**
D'Hoker, Eric *see* **Aoki, Kenichiro, 93b:81237**
Dienes, Keith R. (*with* Tye, S.-H. Henry) Model-building for fractional superstrings. **93f:81106**
Dine, Michael (*with* Fischler, W.; Seiberg, Nathan) Small handles and auxiliary fields. (*see* **93e:81005**)
Dubois-Violette, Michel (*with* Madore, J.; Kerner, Richard) Super matrix geometry. **93b:58014**
Eguchi, Tohru (*with* Kawai, Toshiya; Mizoguchi, Shun'ya; Yang, Sung-Kil) Character formulas for coset $N = 2$ superconformal theories. (English summary) **93k:81199**
Esteve, J. G. *see* **Boya, Luis J.; et al., 93e:81027**
Evans, Steven N. *see* **Brydges, David; et al., 93b:60150**
Ferrara, Sergio (*with* Porrati, Massimo) Supersymmetric sum rules on magnetic dipole moments of arbitrary-spin particles. (English summary) **93e:81149**
— (*with* Louis, Jan) Flat holomorphic connections and Picard-Fuchs identities from $N = 2$ supergravity. **93k:32065**
Fischler, W. *see* **Dine, Michael; et al., (93e:81005)**
Foot, R. (*with* Joshi, G. C.) Symmetries of certain physical theories and the Jordan algebras. **93c:81169**
Foussats, A. (*with* Repetto, C.; Zandron, O. P.; Zandron, O. S.) Conformal supersymmetry of the $d = 3$ Chern-Simons theory. Canonical formalism. (English summary) **93m:81127**
Gal'perin, A. S. (*with* Howe, P. S.; Stelle, K. S.) The superparticle and the Lorentz group. **93c:81170**
Gieres, François Maurer-Cartan forms and equations for two-dimensional superdiffeomorphisms. (English summary) **93k:58032**
Girardello, L. *see* **Cecotti, Sergio; et al., 93a:32055**
Govindarajan, Suresh (*with* Ovrut, Burt A.) A geometric interpretation for the torsion constraints of (2, 0) heterotic worldsheet supergravity. **93g:81150**
— (*with* Nelson, Philip; Wong, Eugene) Semirigid geometry. **93j:32015**
Govindarajan, T. R. $D = 1$ supersymmetric matrix model. (*see* **93h:81001**)
Grosse, Harald (*with* Langmann, Edwin) A superversion of quasifree second quantization. I. Charged particles. **93h:81075**
Haagensen, Peter E. Differential renormalization of the Wess-Zumino model. **93c:81138**
Howe, P. S. *see* **Gal'perin, A. S.; et al., 93c:81170**
Hussain, Faheem (*with* Thompson, George) Noncommutative geometry and supersymmetry. **93i:58014**
— (*with* Thompson, George) Noncommutative geometry and supersymmetry. II. **93i:58015**
Imbrie, John Z. *see* **Brydges, David; et al., 93b:60150**
İpekoğlu, Y. (*with* Leblanc, Martin; Thomaz, M. T.) Thermal and quantum fluctuations in supersymmetric Chern-Simons theory. **93h:81088**
Ishizuka, Wataru *see* **Kikuchi, Yukio, 93e:81116**
Ito, Katsushi $N = 2$ superconformal CP_n model. **93c:81208**
Itoh, Katsumi (*with* Ohta, Nobuyoshi) BRST cohomology and physical states in two-dimensional supergravity coupled to $\hat{c} \leq 1$ matter. **93g:81153**
Ivanov, Evgenii Alekseevich[2] Harmonic variables: results and perspectives. (*see* **93g:81003**)
— (*with* Kapustnikov, A. A.) Gauge-covariant Wess-Zumino actions for super p-branes in superspace. **93c:81173**
— (*with* Krivonos, S. O.) Superfield realizations of $N = 2$ super-W_3. (English summary) **93e:81040**
Janowsky, Steven A. (*with* Weitsman, Jonathan) A vanishing theorem for supersymmetric quantum field theory and finite size effects in multiphase cluster expansions. **93i:81124**
Joshi, G. C. *see* **Foot, R., 93c:81169**
Kachkachi, M. (*with* Lhallabi, T.) $N = 2$ supergravity in superspace and the BRS symmetry. (English summary) **93h:83036**
Kallosh, Renata (*with* Peet, Amanda) Dilaton black holes near the horizon. (English summary) **93i:83060**
Kapella-Economou, A. *see* **Chiou-Lahanas, C.; et al., 93c:83118**
Kapustnikov, A. A. *see* **Ivanov, Evgenii Alekseevich[2], 93c:81173**
Kawai, Toshiya *see* **Eguchi, Tohru; et al., 93k:81199**
Kerner, Richard *see* **Dubois-Violette, Michel; et al., 93b:58014**
Kharchev, S. M. *see* **Andreev, V. A.; et al., 93h:58064**
Khoruzhii, S. S. *see* **Voronin, A. V., 93k:81242**
Kikuchi, Yukio (*with* Ishizuka, Wataru) Improved $SU(2)_k$ Wess-Zumino-Witten model. **93e:81116**
Kobayashi, Ken-ichiro (*with* Uematsu, Tsuneo) $N = 2$ supersymmetric sine-Gordon theory and conservation laws. **93f:81134**
Konisi, Gaku (*with* Saito, Takesi; Takahasi, Wataru) Super Schwarzian connections in Krichever-Novikov superalgebras. **93a:81065**
Krivonos, S. O. *see* **Ivanov, Evgenii Alekseevich[2], 93e:81040**
Kumar, Alok[2] (*with* Maharana, Jnanadeva; Sengupta, Gautam) Krichever-Novikov formulation of topological conformal field theory. **93e:81117**
— *see also* **Ali, Abbas; et al., 93f:81123**
Lahanas, A. B. *see* **Chiou-Lahanas, C.; et al., 93c:83118**
Langmann, Edwin *see* **Grosse, Harald, 93h:81075**
Leblanc, Martin *see* **İpekoğlu, Y.; et al., 93h:81088**
LeClair, André (*with* Nemeschansky, D.; Warner, N. P.) S-matrices for perturbed $N = 2$ superconformal field theory from quantum groups. (English summary) **93k:81211**
Lhallabi, T. *see* **Kachkachi, M., 93h:83036**
Lott, John *see* **Connes, Alain, 93m:58011**
Louis, Jan *see* **Ferrara, Sergio, 93k:32065**
Lucchesi, Claudio (*with* Piguet, Olivier) Local supersymmetry of the Chern-Simons theory and finiteness. (English summary) **93k:81144**
Lukierski, Jerzy *see* **de Azcárraga, J. A.; et al., 93h:17009**
Madore, J. *see* **Dubois-Violette, Michel; et al., 93b:58014**
Maggiore, N. (*with* Sorella, Silvio P.) Perturbation theory for antisymmetric tensor fields in four dimensions. (English summary) **93k:81150**
Maharana, Jnanadeva *see* **Kumar, Alok[2]; et al., 93e:81117** *and* **Ali, Abbas; et al., 93f:81123**
Maintas, X. N. *see* **Chiou-Lahanas, C.; et al., 93c:83118**
Mateos Guilarte, Juan Sphalerons and instantons in two-dimensional field theory. **93i:81108**
McArthur, I. N. WZW superconformal blocks from three dimensions. **93a:81179**
McCarthy, James G. *see* **Bouwknegt, Peter; et al., 93f:81127**
McInnes, Brett Gauge theory in Witten's approach to the generation problem. **93a:53039**
McKeon, D. G. C. Supersymmetric particle with curvature. (English summary) **93i:81045**
Meissner, K. A. *see* **Burwick, T. T.; et al., 93c:81195**
Merkulov, S. A. A supersymmetric nonlinear graviton. (Russian) **93k:83053**
Misra, S. P. ★ Introduction to supersymmetry and supergravity. **93m:81001**
Mizoguchi, Shun'ya *see* **Eguchi, Tohru; et al., 93k:81199**
Mojumder, M. A. (2, 0) supersymmetric string theory and the critical exponents of the 3D Ising model. **93f:82011**
Myers, Robert C. *see* **Anglin, J. R., 93k:83025**

Nakatsu, Toshio (*with* Sugawara, Yuji) BRST-fixed points and topological conformal symmetry. (English summary) **93k:81216**
Nelson, Philip *see* **Govindarajan, Suresh; et al., 93j:32015**
Nemeschansky, D. *see* **LeClair, André; et al., 93k:81211**
Niederle, Jiří *see* **de Azcárraga, J. A.; et al., 93h:17009**
Nohara, Hiroshi Extended superconformal algebra as symmetry of super Toda field theory. **93m:81046**
Nojiri, Shin'ichi Marginal deformations of superconformal field theories and superstrings. **93b:81268**
— $N = \frac{1}{2}$ superstring in zero dimension and the spontaneous breakdown of the supersymmetry. (English summary) **93i:81198**
Novotný, J. Supersymmetry and the four-dimensional counterpart of dimensional regularization. **93a:81134**
Oevel, Walter (*with* Popowicz, Ziemowit) The bi-Hamiltonian structure of fully supersymmetric Korteweg-de Vries systems. **93a:58091**
Ogievetskiĭ, V. I. *see* **Devchand, Ch., 93m:81051**
Ohta, Nobuyoshi *see* **Itoh, Katsumi, 93g:81153**
Ovrut, Burt A. Topology, superspace, and anomalies. (*see* **93e:81005**)
— (*with* Thomas, Steven) Vortices and monopoles on a sphere and their application to Liouville and string theory. **93c:81181**
— *see also* **Govindarajan, Suresh, 93g:81150**
Papadopoulos, George J. Topology, unitary representations and charged particles. **93c:81152**
Parthasarathy, Ragavachariar *see* **Viswanathan, K. S., 93h:81103**
Pasquinucci, Andrea *see* **Cecotti, Sergio; et al., 93a:32055**
Peet, Amanda *see* **Kallosh, Renata, 93i:83060**
Pesando, I. (*with* Cassi, D.) Polymers and topological field theory. **93i:82085**
— (*with* Tollstén, A. K.) Heterotic instantons and solitons in anomaly-free supergravity. **93c:81183**
Piguet, Olivier *see* **Lucchesi, Claudio, 93k:81144**
Pilch, Krzysztof *see* **Bouwknegt, Peter; et al., 93f:81127**
Popowicz, Ziemowit *see* **Oevel, Walter, 93a:58091**
Porrati, Massimo *see* **Ferrara, Sergio, 93e:81149**
(Rama Rao, P.) *see* **Misra, S. P., 93m:81001**
Ravanini, F. On the possibility of Z_N exotic supersymmetry in two-dimensional conformal field theory. (English summary) **93i:81250**
Repetto, C. *see* **Foussats, A.; et al., 93m:81127**
Rittenberg, Vladimir *see* **Baranowski, D.; et al., 93c:81192**
Roček, Martin (*with* Verlinde, Erik) Duality, quotients, and currents. **93g:81171**
Rogers, Alice Stochastic calculus in superspace. I. Supersymmetric Hamiltonians. **93b:60124**
de Roo, Mees The R^2-action in $d = 10$ conformal supergravity. **93e:83070**
Saidi, E. H. (*with* Zakkari, M.) Integral representation of the $N = 4$ conformal anomaly. **93b:81270**
— Chiral rings in the $N = 4$ SU(2) conformal theory. (English summary) **93k:81219**
Saito, Takesi *see* **Konisi, Gaku; et al., 93a:81065**
Saleur, H. Geometrical lattice models for $N = 2$ supersymmetric theories in two dimensions. (English summary) **93i:82036**
Saroja, R. (*with* Sen, Ashoke) Picture changing operators in closed fermionic string field theory. (English summary) **93d:81144**
Schellekens, A. N. Field identification fixed points in $N = 2$ coset theories. **93b:81272**
Schramm, A. J. *see* **Stahlhofen, A. A., 93a:58090**
Schütz, G. *see* **Baranowski, D.; et al., 93c:81192**
Seiberg, Nathan *see* **Dine, Michael; et al., (93e:81005)**
Sen, Ashoke *see* **Saroja, R., 93d:81144**
Sengupta, Gautam *see* **Kumar, Alok[2]; et al., 93e:81117** *and* **Ali, Abbas; et al., 93f:81123**
Sezgin, Ergin *see* **Bergshoeff, E. A., 93i:83092**
Shmakova, M. V. *see* **Andreev, V. A.; et al., 93h:58064**
Siegel, Warren $N = 4$ string is the same as the $N = 2$ string. (English summary) **93e:81098**
Singer, I. M. *see* **Alvarez, Orlando; et al., 93f:58224**
Sokatchev, E. S. *see* **Delduc, François, 93b:81208**
Sorella, Silvio P. *see* **Maggiore, N., 93k:81150**
Spiegelglas, Mordechai Setting fusion rings in topological Landau-Ginzburg. **93i:81255**
Stahlhofen, A. A. (*with* Schramm, A. J.) Internal symmetries of soliton equations. **93a:58090**
Stelle, K. S. *see* **Gal'perin, A. S.; et al., 93c:81170**
Sugawara, Yuji *see* **Nakatsu, Toshio, 93k:81216**
Takahasi, Wataru *see* **Konisi, Gaku; et al., 93a:81065**
Talukdar, B. (*with* Das, U.; Bhattacharyya, C.; Bera, P. K.) Phase-equivalent potentials from supersymmetric quantum mechanics. **93d:81036**
Teofilatto, Paolo Uniformization, graded Riemann surfaces and supersymmetry. (English summary) **93k:32010**
Terao, Haruhiko (*with* Yamada, Kiyonori) Topological superstring in $D = 2$ and topological supergravity. **93b:81273**
Thomas, Steven *see* **Ovrut, Burt A., 93c:81181**
Thomaz, M. T. *see* **İpekoğlu, Y.; et al., 93h:81088**
Thompson, George *see* **Hussain, Faheem, 93i:58014** *and* **93i:58015**
Tollstén, A. K. *see* **Pesando, I., 93c:81183**
Toppan, Francesco (*with* Zhang, Yao Zhong) Superconformal affine Liouville theory. (English summary) **93g:81178**
Tye, S.-H. Henry *see* **Ahn, Changrim; et al., 93a:81162** *and* **Dienes, Keith R., 93f:81106**
Uematsu, Tsuneo *see* **Kobayashi, Ken-ichiro, 93f:81134**
Vafa, Cumrun *see* **Cecotti, Sergio, 93a:81168**
Verlinde, Erik (*with* Warner, N. P.) Topological Landau-Ginzburg matter at $c = 3$. **93i:81258**
— *see also* **Roček, Martin, 93g:81171**
Viswanathan, K. S. (*with* Parthasarathy, Ragavachariar) Extrinsic geometry of world-sheet supersymmetry through generalized super-Gauss maps. (English summary) **93h:81103**
Voronin, A. V. (*with* Khoruzhii, S. S.) True algebra of BRST-symmetry and the theory of its representations. (Russian. English and Russian summaries) **93k:81242**
Warner, N. P. Lectures on $N = 2$ superconformal theories and singularity theory. **93m:81138**
— *see also* **Verlinde, Erik, 93i:81258** *and* **LeClair, André; et al., 93k:81211**
Weitsman, Jonathan *see* **Janowsky, Steven A., 93i:81124**
Wess, Julius (*with* Bagger, Jonathan) ★ Supersymmetry and supergravity. **93a:81003**
Windey, Paul *see* **Alvarez, Orlando; et al., 93f:58224**
Wong, Eugene *see* **Govindarajan, Suresh; et al., 93j:32015**
Wu, Yong Shi[1] *see* **Yu, Feng, 93c:81251**
Yamada, Kiyonori *see* **Terao, Haruhiko, 93b:81273**
Yang, Sung-Kil *see* **Eguchi, Tohru; et al., 93k:81199**
Yost, Scott A. Supermatrix models. (English summary) **93i:81261**
Yu, Feng (*with* Wu, Yong Shi[1]) Graded GL(1|1) BRST symmetry in covariant quantization of supersymmetric chiral bosons and heterotic strings. **93c:81251**
— The super KP origin of the super $W_{1+\infty}$ algebra and its topological version. **93h:81048**
Zakkari, M. *see* **Saidi, E. H., 93b:81270**
Zandron, O. P. *see* **Foussats, A.; et al., 93m:81127**
Zandron, O. S. *see* **Foussats, A.; et al., 93m:81127**
Zangg, Ph. *see* **Alvarez-Gaumé, Luis, 93b:81235**
Zhang, Huazhong Quantum aspects of zero modes, topological vacua and dynamical supersymmetry breaking in nonabelian gauge theories. **93d:81120**
Zhang, Yao Zhong *see* **Toppan, Francesco, 93g:81178**
Zhao, Wei Dong Character-valued index theorem and topological field theory. **93g:58143**
Zheltukhin, A. A. *see* **Bandos, I. A., 93m:83079**
Zupnik, B. M. Covariant integral forms in three-dimensional supergravity. (Russian. English summary) **93d:83069**

81T70 Quantization in field theory; cohomological methods [see also 58F06]

Abouelsaood, Ahmed Equivalence of the quadratic Lagrangians for chiral bosons. (English summary) **93d:81179**
Aldabe, F. (*with* Bes, D. R.; Scoccola, N. N.) Soliton quantization in the BRST scheme. (English summary) **93g:81188**
Aldaya, Víctor (*with* Loll, R.; Navarro-Salas, José) Quantum dynamics on (super)groups: constraints and the "BRST" supergroup. **93a:81195**
Alfaro, Jorge Hidden BRST symmetry, Schwinger-Dyson equations and large N. (English summary) (*see* **93f:81005**)
— (*with* Damgaard, P. H.) BRST symmetry of field redefinitions. (English summary) **93k:81236**
Aratyn, Henrik A geometric approach to the string BRS cohomology. **93h:81141**
Ashtekar, Abhay (*with* Rovelli, Carlo; Smolin, Lee) Self-duality and quantization. **93c:81243**
Bar-Natan, Dror (*with* Witten, Edward) Perturbative expansion of Chern-Simons theory with noncompact gauge group. **93c:81244**
Batalin, I. A. (*with* Lavrov, P. M.; Tyutin, I. V.) Remarks on the Sp(2)-covariant Lagrangian quantization of gauge theories. **93c:81245**
— (*with* Lyakhovich, S. L.; Tyutin, I. V.) Split involution and second class constraints. **93i:81274a**
— (*with* Lyakhovich, S. L.; Tyutin, I. V.) Errata: "Split involution and second class constraints". **93i:81274b**
Baulieu, Laurent Open gauge algebra and ghost unification. (*see* **93e:81005**)
Bergshoeff, E. A. (*with* Kallosh, Renata) On the covariant BRST quantization of gauge theories including supermembranes. (*see* **93g:81003**)
Bes, D. R. *see* **Aldabe, F.; et al., 93g:81188**
Bilal, Adel Remarks on the BRST cohomology for $c_M > 1$ matter coupled to "Liouville gravity". **93d:81180**
Birmingham, Danny (*with* Rakowski, Mark) A field-theoretic realization of a universal bundle for gravity. **93a:81196**
Blagojević, M. (*with* Sazdović, B.; Vasilić, M.) Improved covariant quantization of the heterotic superstring. **93b:81285**
Blasi, Alberto (*with* Maggiore, N.) Infrared and ultraviolet finiteness of topological BF theory in two dimensions. (English summary) **93m:81145**
Bollini, C. G. (*with* Oxman, L. E.) Propagator for complex-mass fields. (English summary) **93h:81142**
Bouwknegt, Peter (*with* McCarthy, James G.; Pilch, Krzysztof) BRST analysis of physical states for 2D gravity coupled to $c \leq 1$ matter. **93h:81143**
Chair, Noureddine (*with* Dobrev, V. K.; Kanno, Hiroaki) SO(2, **C**) invariant ring structure of BRST cohomology and singular vectors in 2D gravity with $c < 1$ matter. **93j:81100**
Chatterjee, Ashoke K. (*with* Sreedhar, V. V.) Perturbed Chern-Simons theory, fractional statistics, and Yang-Baxter algebra. **93b:81286**
Chung, Won-Sang Canonical formalism of two-dimensional induced supergravity. (English summary) **93k:81237**
Damgaard, P. H. *see* **Alfaro, Jorge, 93k:81236**
Dayi, Ömer F. Collective coordinates and constrained Hamiltonian systems. **93i:81275**
Deguchi, Shinichi Infinite tower extension of topological Yang-Mills theory. **93g:81189**
Dobrev, V. K. *see* **Chair, Noureddine; et al., 93j:81100**
Dubois-Violette, Michel (*with* Henneaux, Marc; Talon, Michel; Viallet, Claude-Michel) General solution of the consistency equation. (English summary) **93i:81276**
Eisenberg, Yeshayahu A consistent covariant quantization of the Brink-Schwarz superparticle. **93b:81287**
Evans, Jonathan M. Covariant canonical quantisation of superparticles and superstrings. (*see* **93g:81003**)
Fradkina, T. E. Quantum superparticle in $D = 10$. (English summary) **93i:81277**
Frolov, Sergei Anatol'evich BRST-quantization of gauge theories in Hamiltonian-like gauges. (Russian. English summary) **93h:81144**
Fujikawa, Kazuo Reparametrization BRS cohomology in two-dimensional gravity and noncritical string theories. **93c:81246**
Fülöp, Géza Transformations and BRST-charges in $(2 + 1)$-dimensional gravitation. (English summary) **93j:81101**

Gato-Rivera, B. (*with* Semikhatov, A. M.) $d \leq 1 \cup d \geq 25$ and W constraints from BRST invariance in the $c \neq 3$ topological algebra. (English summary) **93j:81102**
Gavrilov, S. P. Interaction representation in the formalism of operator BRST-quantization for the standard electroweak theory in the R_ξ-gauge. (Russian. Russian summary) **93m:81146**
Giddings, Steven B. Cohomological field theory from field-space cohomology. **93g:81190**
Gomis, Joaquim (*with* París, Jordi) Unitarity and the field-antifield formalism. **93g:81191**
Grégoire, Philippe (*with* Henneaux, Marc) Hamiltonian formulation of the anti-BRST transformation. **93a:81197**
Grigoryan, G. V. (*with* Grigoryan, R. P.; Tyutin, I. V.) Equivalence of Lagrangian and Hamiltonian BRST quantizations: the general case. **93d:81181**
Grigoryan, R. P. *see* **Grigoryan, G. V.; et al., 93d:81181**
Hatsuda, Machiko BRST field theories for a quantum Lorentz particle. **93g:81192**
Henneaux, Marc (*with* Teitelboim, Claudio) First and second quantized point particles of any spin. (*see* **93e:81005**)
— The antifield-BRST formalism for gauge theories. (*see* **93j:81003**)
— (*with* Vergara, José David) BRST formalism and gauge invariant operators: the example of the free relativistic particle. (*see* **93h:81003**)
— Geometric interpretation of the quantum master equation in the BRST–anti-BRST formalism. **93c:81247**
— *see also* **Grégoire, Philippe, 93a:81197** *and* **Dubois-Violette, Michel; et al., 93i:81276**
van Holten, J. W. BRST field theory of relativistic particles. (English summary) **93j:81103**
Ichinose, Shoichi BRS symmetry on background-field, Kallosh theorem and renormalization. (English summary) **93m:81147**
Ikeda, Noriaki Covariant operator formalism of two-dimensional topological gravity. **93i:81278**
— Covariant operator formalism of two-dimensional topological gravity. II. **93i:81279**
Ikemori, Hitoshi Extended form method of antifield-BRST formalism for BF theories. (English summary) **93m:81148**
Inamoto, Tadashi Symplectic structures in the chirally gauged Wess-Zumino-Witten model. **93c:81248**
Kagraoka, Yusho *see* **Sugano, Reiji; et al., 93a:81200**
Kalau, Wolfgang On Gupta-Bleuler quantization of systems with second-class constraints. (English summary) **93k:81238**
Kallosh, Renata *see* **Bergshoeff, E. A., (93g:81003)**
Kanno, Hiroaki *see* **Chair, Noureddine; et al., 93j:81100**
Kaul, Romesh K. Functional measure in topological field theories. (*see* **93h:81001**)
Khoruzhii, S. S. (*with* Voronin, A. V.) BRST quantization of the Schwinger model. **93i:81280**
— *see also* **Voronin, A. V., 93k:81242**
Kim, Kee Yong *see* **Kim, Yong-Wan; et al., 93k:81239**
Kim, Seung-Kook *see* **Kim, Yong-Wan; et al., 93k:81239**
Kim, Won-Tae *see* **Kim, Yong-Wan; et al., 93k:81239**
Kim, Yong Duk *see* **Kim, Yong-Wan; et al., 93k:81239**
Kim, Yong-Wan (*with* Kim, Seung-Kook; Kim, Won-Tae; Park, Young-Jai; Kim, Kee Yong; Kim, Yong Duk) Chiral Schwinger model based on the Batalin-Fradkin-Vilkovisky formalism. (English summary) **93k:81239**
Kimura, Toshiei *see* **Sugano, Reiji; et al., 93a:81200**
Kugo, Taichiro Covariantized light-cone string field theory. (*see* **93e:81005**)
Kulshreshtha, D. S. (*with* Müller-Kirsten, H. J. W.) Faddeev-Jackiw quantization of self-dual fields. **93a:81198**
Landsman, N. P. (*with* Linden, Noah) Superselection rules from Dirac and BRST quantisation of constrained systems. **93g:81193**
Lavrov, P. M. *see* **Batalin, I. A.; et al., 93c:81245**
Lee, Hyuk-Jae (*with* Park, Jae-Suk) Complex geometrical interpretation of BRST algebra in topological Yang-Mills theory. **93b:81288**
Li, Miao Correlators of special states in $c = 1$ Liouville theory. (English summary)
Linden, Noah *see* **Landsman, N. P., 93g:81193**
Loll, R. Canonical and BRST-quantization of constrained systems. (English summary) **93m:81149**
— *see also* **Aldaya, Víctor; et al., 93a:81195**
Lyakhovich, S. L. *see* **Batalin, I. A.; et al., 93i:81274a** *and* **93i:81274b**
Maggiore, N. *see* **Blasi, Alberto, 93m:81145**
Marchetti, P. A. Quantum solitons. (*see* **93g:81074**)
Margolin, A. È. (*with* Strazhev, V. I.) Yang-Mills field quantization with noncompact gauge group. (English summary) **93j:81104**
Marnelius, Robert An important bigrading in general BRST quantization. **93b:81289**
— Auxiliary conditions in BRST quantization. **93b:81290**
McCarthy, James G. *see* **Bouwknegt, Peter; et al., 93h:81143**
McMullan, David Classical states and the BRST charge. (English summary) **93k:81240**
Müller-Kirsten, H. J. W. *see* **Kulshreshtha, D. S., 93a:81198**
Navarro-Salas, José *see* **Aldaya, Víctor; et al., 93a:81195**
Nirov, Kh. S. (*with* Razumov, A. V.) Field-antifield and BFV formalisms for quadratic systems with open gauge algebras. (English summary) **93k:81241**
Oehme, Reinhard BRST algebra and unitary transformations. **93b:81291**
Oxman, L. E. *see* **Bollini, C. G., 93h:81142**
París, Jordi *see* **Gomis, Joaquim, 93g:81191**
Park, Jae-Suk *see* **Lee, Hyuk-Jae, 93b:81288**
Park, Young-Jai *see* **Kim, Yong-Wan; et al., 93k:81239**
Pilch, Krzysztof *see* **Bouwknegt, Peter; et al., 93h:81143**
Ragiadakos, C. N. Quantization of a four-dimensional generally covariant conformal model. **93b:81292**
Rakowski, Mark *see* **Birmingham, Danny, 93a:81196**
Razumov, A. V. *see* **Nirov, Kh. S., 93k:81241**
Rovelli, Carlo *see* **Ashtekar, Abhay; et al., 93c:81243**
Rybkin, G. N. Hamiltonian BRST formalism for gauge-invariant systems with closed algebra. **93a:81199**
— Batalin-Fradkin-Vilkovisky approach for gauge invariant systems with closed algebra. **93c:81249**
Sazdović, B. *see* **Blagojević, M.; et al., 93b:81285**
Scoccola, N. N. *see* **Aldabe, F.; et al., 93g:81188**
Semikhatov, A. M. *see* **Gato-Rivera, B., 93j:81102**
Smolin, Lee *see* **Ashtekar, Abhay; et al., 93c:81243**
Sreedhar, V. V. *see* **Chatterjee, Ashoke K., 93b:81286**
Srivastava, P. P. On BRST quantization of chiral bosonic particle. **93g:81194**
Stasheff, J. D. Homological (ghost) approach to constrained Hamiltonian systems. **93j:81105**
Stora, Raymond Differential algebras in field theory. (*see* **93e:81005**)
Strazhev, V. I. *see* **Margolin, A. È., 93j:81104**
Sugano, Reiji (*with* Kagraoka, Yusho; Kimura, Toshiei) Gauge transformations and gauge-fixing conditions in constraint systems. **93a:81200**
Talon, Michel *see* **Dubois-Violette, Michel; et al., 93i:81276**
Teitelboim, Claudio *see* **Henneaux, Marc, (93e:81005)**
Tyutin, I. V. *see* **Batalin, I. A.; et al., 93c:81245**; **Grigoryan, G. V.; et al., 93d:81181**; **Batalin, I. A.; et al., 93i:81274a** *and* **93i:81274b**
Vasilić, M. *see* **Blagojević, M.; et al., 93b:81285**
Vázquez-Bello, J. L. On the covariant quantization of the second-ilk superparticle. (English summary) **93c:81250**
Vergara, José David *see* **Henneaux, Marc, (93h:81003)**
Viallet, Claude-Michel *see* **Dubois-Violette, Michel; et al., 93i:81276**
Voronin, A. V. (*with* Khoruzhii, S. S.) True algebra of BRST-symmetry and the theory of its representations. (Russian. English and Russian summaries) **93k:81242**
— *see also* **Khoruzhii, S. S., 93i:81280**
Witten, Edward (*with* Zwiebach, Barton) Algebraic structures and differential geometry in two-dimensional string theory. **93e:81139**
— *see also* **Bar-Natan, Dror, 93c:81244**
Wu, Yong Shi[1] *see* **Yu, Feng, 93c:81251**
Yu, Feng (*with* Wu, Yong Shi[1]) Graded GL(1|1) BRST symmetry in covariant quantization of supersymmetric chiral bosons and heterotic strings. **93c:81251**
Zwiebach, Barton *see* **Witten, Edward, 93e:81139**

Items with secondary classifications in 81T70

Abramov, Viktor Anatol'evich On symplectic structure of the topological quantum field theory. **93h:57048**
Abrikosov, A. A., Jr. "Matsubara" approach in classical statistical physics: method and a toy example. (English summary) **93g:82060**
Abud, Mario (*with* Ader, Jean-Pierre; Cappiello, Luigi) Prepotentials and unconstrained BRST for Yang-Mills and p-forms. **93c:81115**
— (*with* Fiore, Gaetano) Batalin-Vilkovisky approach to the metric independence of TQFT. (English summary)
Ader, Jean-Pierre *see* **Abud, Mario; et al., 93c:81115**
Aharony, O. (*with* Sonnenschein, Jacob; Yankielowicz, Shimon) G/G models and W_N strings. (English summary) **93g:81137**
Ahn, Changrim (*with* Chung, Stephen-wei; Tye, S.-H. Henry) New parafermion, SU(2) coset and $N = 2$ superconformal field theories. **93a:81162**
Ali, Abbas (*with* Kumar, Alok[2]; Maharana, Jnanadeva; Sengupta, Gautam) Algebraic structure of topological superconformal field theory on Riemann surfaces. (English summary) **93f:81123**
Aragão de Carvalho, C. (*with* Baulieu, Laurent) Local BRST symmetry and superfield formulation of the Donaldson-Witten theory. **93b:81152**
Ashtekar, Abhay (*with* Rovelli, Carlo) A loop representation for the quantum Maxwell field. **93h:83021**
Balog, J. (*with* Palla, L.) Locality problem for the Liouville field. **93a:81163**
Bardakci, Korkut The classical parafermion algebra, its generalization and its quantization. **93a:81164**
Batalin, I. A. (*with* Tyutin, I. V.) Existence theorem for the effective gauge algebra in the generalized canonical formalism with abelian conversion of second-class constraints. **93f:81046**
Baulieu, Laurent *see* **Aragão de Carvalho, C., 93b:81152**
Berkovits, Nathan (*with* Hatsuda, Machiko; Siegel, Warren) The big picture. **93d:81135**
Bershadskii, M. A. (*with* Lerche, W.; Nemeschansky, D.; Warner, N. P.) A BRST operator for noncritical W-strings. (English summary) **93i:81185**
Blasi, Alberto (*with* Collina, R.) The Chern-Simons model with boundary: a cohomological approach. **93d:81110**
Blok, B. (*with* Wen, Xiao-Gang) Many-body systems with nonabelian statistics. **93h:81108**
Bonora, L. (*with* Rinaldi, Maurizio; Russo, Jorge G.) Algebras of the Virasoro, Neveu-Schwarz, and Ramond types on genus g Riemann surfaces. (*see* **93e:81005**)
Bouwknegt, Peter (*with* McCarthy, James G.; Pilch, Krzysztof) Ground ring for the two-dimensional NSR string. **93f:81127**
Broda, B. A topological-field-theory approach to the nonabelian Stokes theorem. **93b:81241**
— Higher-dimensional Chern-Simons theory and link invariants. **93i:57041**
Brodsky, St. J. (*with* Pauli, H.-Ch.) Light-cone quantization of quantum chromodynamics. (English summary) (*see* **93d:81005**)
Cadavid, A. C. (*with* Nakashima, Martin M.) The star exponential and path integrals on compact groups. **93h:81074**
Cappiello, Luigi *see* **Abud, Mario; et al., 93c:81115**
Cecotti, Sergio (*with* Vafa, Cumrun) Topological–anti-topological fusion. **93a:81168**
Chu, Meifang (*with* Goddard, Peter; Halliday, Ian; Olive, David; Schwimmer, Adam) Quantization of the Wess-Zumino-Witten model on a circle. **93c:81199**
Chung, Stephen-wei (*with* Lyman, Edwin; Tye, S.-H. Henry) Fractional supersymmetry and minimal coset models in conformal field theory. **93d:81152**
— *see also* **Ahn, Changrim; et al., 93a:81162**
Collina, R. *see* **Blasi, Alberto, 93d:81110**
Dayi, Ömer F. A general solution of the master equation for a class of first order systems. (English summary)
De Jonghe, F. (*with* Siebelink, R.; Troost, W.; Vandoren, S.; van Nieuwenhuizen, Peter; Van Proeyen, Antoine) The regularized BRST Jacobian of pure Yang-Mills theory. (English summary) **93e:81070**
Dhar, Avinash (*with* Mandal, Gautam; Wadia, Spenta R.) Classical Fermi fluid and geometric action for $c = 1$. (English summary) **93k:81174**

Distler, Jacques (*with* Nelson, Philip) The dilaton equation in semirigid string theory. **93i:81223**
Dotsenko, Vladimir S. Three-point correlation functions of the minimal conformal theories coupled to 2D gravity. **93a:81170**
Fei, Shao Ming (*with* Guo, Han Ying; Yu, Yue) Supermanifold, symplectic structure and geometric quantization of BRST systems. **93c:58078**
Felder, G. (*with* LeClair, André) Restricted quantum affine symmetry of perturbed minimal conformal models. (English summary) **93i:81226**
Fiore, Gaetano *see* **Abud, Mario**
Folacci, A. Zero modes, Euclideanization, and quantization. (English summary)
Fradkin, E. S. (*with* Gitman, D. M.) Path-integral representation for the relativistic particle propagators and BFV quantization. **93b:81134**
Frolov, Sergei Anatol'evich (*with* Slavnov, A. A.; Sochichiu, C.) On the SO(N) symmetry of the chiral SU(N) Yang-Mills model. (English summary) **93k:81140**
Fronsdal, C. (*with* Heidenreich, W. F.) Infrared regularization of quantum gravity. **93f:83039**
Fujiwara, Takanori (*with* Igarashi, Yuji; Kubo, J.) Anomaly in the Schrödinger representation of QFT. (English summary) **93m:81142**
Gamboa, Jorge General covariance, topological quantum field theories and fractional statistics. **93h:81084**
Gitman, D. M. *see* **Fradkin, E. S., 93b:81134**
Goddard, Peter *see* **Chu, Meifang; et al., 93c:81199**
Govindarajan, Suresh (*with* Jayaraman, T.; John, Varghese; Majumdar, Parthasarathi) States of nonzero ghost number in $c < 1$ matter coupled to 2D gravity. **93c:81204**
Griffin, Paul A. (*with* Hernández, Oscar F.) Structure of irreducible SU(2) parafermion modules derived via the Feigin-Fuchs construction. **93d:81070**
Guo, Han Ying (*with* Wang, Zhong Hua; Wu, Ke) On the composition laws of Beltrami-Liouville theories and 2D quantum gravity. **93d:81158**
— *see also* **Fei, Shao Ming; et al., 93c:58078**
Halliday, Ian *see* **Chu, Meifang; et al., 93c:81199**
Hata, Hiroyuki (*with* Maeno, Masahiro) General covariance in pre-geometrical string field theory. **93b:81217**
Hatsuda, Machiko *see* **Berkovits, Nathan; et al., 93d:81135**
Heidenreich, W. F. *see* **Fronsdal, C., 93f:83039**
Hernández, Oscar F. *see* **Griffin, Paul A., 93d:81070**
Hirshfeld, Allen C. Anomalies, BRS symmetry and superconnections. **93b:81274**
Hosono, Shinobu Physical states in quantum Liouville theory. **93k:81206a**
— Errata: "Physical states in quantum Liouville theory". **93k:81206b**
Hu, Zhan Ning *see* **Wang, Pei, 93j:81097**
Hull, C. M. $\mathscr{W}$-gravities, Toda theories and the geometry of the central charge. **93c:81206**
Huq, M. Covariant quantization of broken twisted $N = 2$ superparticle. (English summary) **93e:81136**
Igarashi, Yuji *see* **Fujiwara, Takanori; et al., 93m:81142**
Isler, Karl (*with* Lina, Jean-Marc) Canonical quantization of the induced 2D gravity. **93c:81207**
Itoh, Katsumi (*with* Ohta, Nobuyoshi) BRST cohomology and physical states in two-dimensional supergravity coupled to $\hat{c} \leq 1$ matter. **93g:81153**
Jaskólski, Zbigniew The Polyakov path integral over bordered surfaces. III. The BRST extended closed string off-shell amplitudes. **93j:81082**
Jayaraman, T. *see* **Govindarajan, Suresh; et al., 93c:81204**
John, Varghese *see* **Govindarajan, Suresh; et al., 93c:81204**
Kabat, Daniel N. Canonical quantization of abelian Chern-Simons solitons. **93b:81158**
Kachkachi, M. (*with* Lhallabi, T.) $N = 2$ superconformal anomalies and curved harmonic superspace. **93d:81177**
Kaloper, Nemanja Stringy cosmic strings and axion cohomology. (English summary) **93m:83080**
Kanno, Hiroaki Observables in topological Yang-Mills theory and the Gribov problem. **93g:58022**
Kubo, J. *see* **Fujiwara, Takanori; et al., 93m:81142**
Kubo, Reijiro Gauss law commutators in anomalous gauge theories from a geometrical point of view. (English summary) **93k:81230**
Kumar, Alok[2] *see* **Ali, Abbas; et al., 93f:81123**
Lazzarini, S. (*with* Stora, Raymond) Ward identities for Lagrangian conformal models. **93b:81257**
LeClair, André *see* **Felder, G., 93i:81226**
Lerche, W. *see* **Bershadskii, M. A.; et al., 93i:81185**
Lhallabi, T. *see* **Kachkachi, M., 93d:81177**
Lian, Bong H. (*with* Zuckerman, Gregg J.) Semi-infinite homology and 2D gravity. I. **93h:81131**
Liang, Jiu Qing Quantum anholonomy and geometrical phase interference. (English summary) **93i:81049**
Lina, Jean-Marc *see* **Isler, Karl, 93c:81207**
Link, Robert Anomalies and the quantum theory of chiral matter on a line. **93c:81232**
Lusanna, Luca Classical observables of gauge theories from the multitemporal approach. **93m:81091**
Lyman, Edwin *see* **Chung, Stephen-wei; et al., 93d:81152**
Maeno, Masahiro *see* **Hata, Hiroyuki, 93b:81217**
Maggiore, N. (*with* Sorella, Silvio P.) Perturbation theory for antisymmetric tensor fields in four dimensions. (English summary) **93k:81150**
Maharana, Jnanadeva *see* **Ali, Abbas; et al., 93f:81123**
Majumdar, Parthasarathi *see* **Govindarajan, Suresh; et al., 93c:81204**
Mandal, Gautam *see* **Dhar, Avinash; et al., 93k:81174**
Martellini, Maurizio (*with* Spreafico, M.; Yoshida, Kensuke) A continuum string model for $D > 1$. **93d:81166**
Martinec, Emil J. (*with* Shatashvili, S. L.) Black-hole physics and Liouville theory. **93a:81177**
McCarthy, James G. *see* **Bouwknegt, Peter; et al., 93f:81127**
Mizoguchi, Shun'ya (*with* Nakatsu, Toshio) BRST structure of the W_3 minimal model. **93e:81120**
Nakamura, Atsushi[1] Stochastic quantization of nonabelian antisymmetric tensor fields. **93a:81096**
Nakashima, Martin M. *see* **Cadavid, A. C., 93h:81074**
Nakatsu, Toshio (*with* Sugawara, Yuji) BRST-fixed points and topological conformal symmetry. (English summary) **93k:81216**
— *see also* **Mizoguchi, Shun'ya, 93e:81120**
Nelson, Philip *see* **Distler, Jacques, 93i:81223**
Nemeschansky, D. *see* **Bershadskii, M. A.; et al., 93i:81185**
van Nieuwenhuizen, Peter *see* **De Jonghe, F.; et al., 93e:81070**
Nojiri, Shin'ichi Marginal deformations of superconformal field theories and superstrings. **93b:81268**
Ohta, Nobuyoshi *see* **Itoh, Katsumi, 93g:81153**
Okubo, Susumu Existence of gauge field in any partially integrable systems. **93b:81163**
Olive, David *see* **Chu, Meifang; et al., 93c:81199**
Ordóñez, C. R. (*with* Pons, J. M.) Equivalence of reduced, Polyakov, Faddeev-Popov, and Faddeev path-integral quantization of gauge theories. **93d:81099**
Palla, L. *see* **Balog, J., 93a:81163**
Parrott, Stephen The no ghost theorem in string theory. **93i:81199**
Pauli, H.-Ch. *see* **Brodsky, St. J., (93d:81005)**
Piguet, Olivier (*with* Sorella, Silvio P.) On the finiteness of the BRS modulo-d cocycles. (English summary) **93j:81071**
Pilch, Krzysztof *see* **Bouwknegt, Peter; et al., 93f:81127**
Pons, J. M. *see* **Ordóñez, C. R., 93d:81099**
Rinaldi, Maurizio *see* **Bonora, L.; et al., (93e:81005)**
Rovelli, Carlo *see* **Ashtekar, Abhay, 93h:83021**
Russo, Jorge G. *see* **Bonora, L.; et al., (93e:81005)**
Schaposnik, Fidel A. Symmetries and anomalies in fermionic theories. (*see* **93e:81005**)
Schütte, D. The problem of gauge fixing for spherically symmetric Yang-Mills fields. **93c:81135**
Schwimmer, Adam *see* **Chu, Meifang; et al., 93c:81199**
Sengupta, Gautam *see* **Ali, Abbas; et al., 93f:81123**
Shatashvili, S. L. *see* **Martinec, Emil J., 93a:81177**
Siebelink, R. *see* **De Jonghe, F.; et al., 93e:81070**
Siegel, Warren *see* **Berkovits, Nathan; et al., 93d:81135**
Slavnov, A. A. *see* **Frolov, Sergei Anatol'evich; et al., 93k:81140**
Sochichiu, C. *see* **Frolov, Sergei Anatol'evich; et al., 93k:81140**
Sonnenschein, Jacob Moduli spaces and topological quantum field theories. **93f:58027**
— *see also* **Aharony, O.; et al., 93g:81137**
Sorella, Silvio P. *see* **Piguet, Olivier, 93j:81071** *and* **Maggiore, N., 93k:81150**
Spreafico, M. *see* **Martellini, Maurizio; et al., 93d:81166**
Stora, Raymond *see* **Lazzarini, S., 93b:81257**
Sugawara, Yuji *see* **Nakatsu, Toshio, 93k:81216**
Suzuki, Hiroshi Conformal-field-theoretical approach to two-dimensional quantum gravity. **93e:81128**
Troost, W. *see* **De Jonghe, F.; et al., 93e:81070**
Tuynman, G. M. What are the rules of the game called BRST? **93m:81073**
Tye, S.-H. Henry *see* **Ahn, Changrim; et al., 93a:81162** *and* **Chung, Stephen-wei; et al., 93d:81152**
Tyutin, I. V. *see* **Batalin, I. A., 93f:81046**
Vafa, Cumrun *see* **Cecotti, Sergio, 93a:81168**
Vandoren, S. *see* **De Jonghe, F.; et al., 93e:81070**
Van Proeyen, Antoine *see* **De Jonghe, F.; et al., 93e:81070**
Wadia, Spenta R. *see* **Dhar, Avinash; et al., 93k:81174**
Wang, Pei (*with* Hu, Zhan Ning) Bosonic realization of SU(3) parafermion irreducible representation. **93j:81097**
Wang, Zhong Hua *see* **Guo, Han Ying; et al., 93d:81158**
Warner, N. P. *see* **Bershadskii, M. A.; et al., 93i:81185**
Wen, Xiao-Gang *see* **Blok, B., 93h:81108**
White, P. L. An analysis of the cohomology structure of super Yang-Mills coupled to matter. **93g:81187**
Witten, Edward On holomorphic factorization of WZW and coset models. **93i:81259**
— The N matrix model and gauged WZW models. **93f:81145**
Wu, Ke *see* **Guo, Han Ying; et al., 93d:81158**
Yankielowicz, Shimon *see* **Aharony, O.; et al., 93g:81137**
Yoshida, Kensuke *see* **Martellini, Maurizio; et al., 93d:81166**
Yu, Yue *see* **Fei, Shao Ming; et al., 93c:58078**
Zuckerman, Gregg J. *see* **Lian, Bong H., 93h:81131**

81T80 Simulation and numerical modeling

Catterall, Simon M. (*with* Kogut, John B.; Renken, Ray L.) Numerical study of field theories coupled to 2D quantum gravity. (English summary) **93f:81149**
Durhuus, Bergfinnur (*with* Jónsson, Thórdur) On subdivision invariant actions for random surfaces. (English summary) **93k:81243**
Jónsson, Thórdur *see* **Durhuus, Bergfinnur, 93k:81243**
Jurkiewicz, Jerzy Władysław Twisted boundary conditions and random surfaces with extrinsic curvature. (English summary) **93f:81150**
Kogut, John B. *see* **Catterall, Simon M.; et al., 93f:81149**
Muraskin, M. Computer two-dimensional maps of loop soliton lattice systems using the new approach to the no integrability aesthetic field equations. **93c:81252**
Renken, Ray L. *see* **Catterall, Simon M.; et al., 93f:81149**
Verbaarschot, J. J. M. Erratum: "Streamlines and conformal invariance in Yang-Mills theories" [Nuclear Phys. B **362** (1991), no. 1-2, 33–53; MR 92f:81220]. **93k:81244**

Items with secondary classifications in 81T80

Ambjørn, Jan Regularized quantum gravity and string theory. (English summary) **93f:81101**
van Baal, Pierre Analytic methods from finite to infinite volumes. **93c:81146**
Baker, George A., Jr. *see* **Wang, Xidi, 93i:82047**

Billoire, A. Simulations Monte Carlo en physique théorique. (French summary) [Monte Carlo simulations in theoretical physics] (*see* **93k:65002**)
DeWitt, Bryce S. *see* **deLyra, Jorge L.; et al.**
Drouffe, Jean-Michel *see* **Itzykson, Claude, 93k:81003b**
Foong, See Kit *see* **deLyra, Jorge L.; et al.**
Hamber, Herbert W. Phases of simplicial quantum gravity. (English summary) **93g:81151**
Itzykson, Claude (*with* Drouffe, Jean-Michel) ★ Statistical field theory. Vol. 2. **93k:81003b**
Kalkreuter, Thomas Projective block spin transformations in lattice gauge theories. **93g:81113**
deLyra, Jorge L. (*with* DeWitt, Bryce S.; Foong, See Kit; et al.) The quantized $O(1,2)/O(2) \times Z_2$ sigma model has no continuum limit in four dimensions. II. Lattice simulation. (English summary)
Miller, Dean (*with* Milton, Kimball A.; Siegemund-Broka, Stephan) Finite-element quantum electrodynamics: canonical formulation, unitarity, and the magnetic moment of the electron. **93c:81267**
Milton, Kimball A. *see* **Miller, Dean; et al., 93c:81267**
Mussardo, Giuseppe Off-critical statistical models: factorized scattering theories and bootstrap program. (English summary) **93i:81245**
Siegemund-Broka, Stephan *see* **Miller, Dean; et al., 93c:81267**
Wang, Sheng (*with* Yang, Yi Song) Solutions of the generalized Bogomol'nyĭ equations via monotone iterations. (English summary) **93k:81148**
Wang, Xidi (*with* Baker, George A., Jr.) Monte Carlo calculations of the conformal charge. (English summary) **93i:82047**
Yang, Yi Song *see* **Wang, Sheng, 93k:81148**

81T99 None of the above, but in this section

Albeverio, Sergio (*with* Iwata, Koichiro; Kolsrud, Torbjörn) Conformally invariant random fields and processes—old and new. **93h:81145**
Arodź, H. (*with* Węgrzyn, P.) A remark on the effective action method in dynamics of vortices. (English summary)
Aurenche, P. (*with* Becherrawy, T.) A comparison of the real-time and the imaginary-time formalisms of finite-temperature field theory for 2-, 3- and 4-point Green functions. **93a:81201**
Becherrawy, T. *see* **Aurenche, P., 93a:81201**
Bralić, Ninoslav Random walk quantization of scalar fields. (English summary) (*see* **93b:81004**)
Bytsenko, A. A. *see* **Goncharov, Yu. P., 93c:81254**
Capri, A. Z. *see* **Lamb, D. J., 93f:81153**
Celeghini, E. (*with* Rasetti, Mario; Vitiello, G.) Quantum dissipation. **93c:81253**
Cornish, N. J. Quantum nonlocal field theory: physics without infinities. (English summary)
Damgaard, P. H. (*with* Nielsen, Holger Bech; Sollacher, R.) Smooth bosonization: the Cheshire cat revisited. (English summary) **93g:81195**
Eberlein, Claudia Fluctuations of Casimir forces on finite objects. I. Spheres and hemispheres. **93e:81140**
— Fluctuations of Casimir forces on finite objects. II. Flat circular disk. **93e:81141**
van Eijck, M. A. (*with* van Weert, Ch. G.) Finite-temperature retarded and advanced Green functions. **93a:81202**
Elitzur, S. (*with* Forge, A.; Rabinovici, E.) Comments on the importance of being over-constrained. (English summary) **93f:81151**
Farina de Souza, Carlos (*with* Gamboa, Jorge) The Faddeev-Popov method for the relativistic Landau problem. **93b:81293**
Forge, A. *see* **Elitzur, S.; et al., 93f:81151**
Gamboa, Jorge *see* **Farina de Souza, Carlos, 93b:81293**
Goldberg, Joshua N. Quantized self-dual Maxwell field on a null surface. **93e:81142**
Gol'fand, Yu. A. On representation of quantum action functional. (English summary)
Goncharov, Yu. P. (*with* Bytsenko, A. A.) Topological Casimir effect for a class of hyperbolic four-dimensional Clifford-Klein spacetimes. **93c:81254**
Henning, Peter A. Correlation diagrams and perturbation theory in thermal coherent states. **93c:81255**
Hoekzema, Dick J. Quantum event theory: a Tetrode-Fokker version of quantum field theory. **93f:81152**
't Hooft, Gerard (*with* Isler, Karl; Kalitzin, S.) Quantum field-theoretic behavior of a deterministic cellular automaton. (English summary) **93m:81150**
Isler, Karl *see* **'t Hooft, Gerard; et al., 93m:81150**
Iwata, Koichiro *see* **Albeverio, Sergio; et al., 93h:81145**
Kalitzin, S. *see* **'t Hooft, Gerard; et al., 93m:81150**
Kashiwa, Tarō (*with* Seto, K.; Takahashi, Yasushi) Some results in Galilei-invariant field theories. (English summary) **93e:81143**
Kassandrov, V. V. Physical fields as superanalytic mappings on the algebraic structure of space-time. (Russian summary) **93d:81182**
Kheyfets, Arkady (*with* Miller, Warner A.) The boundary of a boundary principle in field theories and the issue of austerity of the laws of physics. **93a:81203**
Khrennikov, A. Yu. Statistical interpretation of p-adic quantum field theory. (Russian. Russian summary) **93k:81245**
Klassen, Timothy R. (*with* Melzer, Ezer) On the relation between scattering amplitudes and finite-size mass corrections in QFT. **93c:81256**
Kobayashi, Masanori The complementary scheme for massive totally antisymmetric tensor field theories. (English summary)
Kolsrud, Torbjörn *see* **Albeverio, Sergio; et al., 93h:81145**
Lamb, D. J. (*with* Capri, A. Z.) The vacuum for an interacting scalar field. (English summary) **93f:81153**
Le Bellac, M. Recent developments in relativistic thermal field theories. (*see* **93d:81005**)
Matsumoto, Hideki Retarded formulation at finite temperature. **93b:81294**
Melzer, Ezer *see* **Klassen, Timothy R., 93c:81256**
Miller, Warner A. *see* **Kheyfets, Arkady, 93a:81203**
Namsrai, Kh. Stochastic strings, topology, and space-time confinement. (English summary) **93i:81281**
Nielsen, Holger Bech *see* **Damgaard, P. H.; et al., 93g:81195**
Rabinovici, E. *see* **Elitzur, S.; et al., 93f:81151**
Rasetti, Mario *see* **Celeghini, E.; et al., 93c:81253**
Segal, Irving E. Is the physical vacuum really Lorentz-invariant? (English summary) **93g:81196**
Seto, K. *see* **Kashiwa, Tarō; et al., 93e:81143**
Sollacher, R. *see* **Damgaard, P. H.; et al., 93g:81195**
Šoln, Josip Operator bilinear derivative with applications in electrodynamics and field theory. **93c:81257**
— Perturbation theory with higher derivative couplings. **93b:81295**
Takahashi, Yasushi *see* **Kashiwa, Tarō; et al., 93e:81143**
Umezawa, H. (*with* Yamanaka, Yoshiya) Temporal description of thermal quantum fields. (English summary) **93i:81282**
Unruh, W. G. Particles and fields. (*see* **93d:83003**)
Vitiello, G. *see* **Celeghini, E.; et al., 93c:81253**
van Weert, Ch. G. *see* **van Eijck, M. A., 93a:81202**
Węgrzyn, P. *see* **Arodź, H.**
Xu, Hong Hua Relation between real-time and imaginary-time formalisms of finite-temperature quantum field theory. (English summary) **93k:81246**
Yamanaka, Yoshiya *see* **Umezawa, H., 93i:81282**

Items with secondary classifications in 81T99

Arimitsu, Toshihico *see* **Ban, Masashi; et al., 93d:82052**
Ban, Masashi (*with* Arimitsu, Toshihico; Saito, Takesi) A new aspect within nonequilibrium thermofield dynamics and its applications. **93d:82052**
Bowick, Mark J. Quantum statistical mechanics and multiplicative number theory. **93e:82002**
Brihaye, Yves (*with* Kunz, Jutta) Periodic solutions in spontaneously broken theories. **93c:81070**
Bros, J. Various aspects of the Bethe-Salpeter structure in quantum field theory. (*see* **93g:81074**)
Cariñena, José F. (*with* López Lacasta, Carlos) The time-evolution operator for higher-order singular Lagrangians. **93d:58049**
Celeghini, E. (*with* Rasetti, Mario; Vitiello, G.) Dissipation in quantum field theory. (*see* **93e:00025**)
— (*with* Rasetti, Mario; Vitiello, G.) Damping and thermal quantum field theory. **93b:81100**
Chabrowski, Jan On compact embeddings of radial Sobolev spaces and their applications. **93h:46036**
Cho, Y. M. (*with* Kim, Jewan; Park, D. H.) Fermionic vortex solutions in Chern-Simons electrodynamics. **93a:81125**
Dito, Joseph Star-products and nonstandard quantization for Klein-Gordon equation. **93d:81092**
Dunn, K. A. (*with* Harriott, Tina A.; Williams, Jeffrey George) Kinks in $1+1$, $2+1$ and $3+1$ dimensions. **93d:83017**
Finkelstein, Robert J. Modular invariance of the propagator of an extended particle. **93a:81064**
Forte, Stefano Relativistic particles with fractional spin and statistics. **93c:81097**
Georgelin, Y. (*with* Leblanc, Y.) New nonequilibrium regimes of the reservoir model. **93b:82044**
Goldin, Gerald A. The diffeomorphism group approach to nonlinear quantum systems. (English summary) **93i:81064**
Hansson, T. H. (*with* Leinaas, J. M.; Myrheim, J.) Dimensional reduction in anyon systems. (English summary) **93g:81054**
Harriott, Tina A. *see* **Dunn, K. A.; et al., 93d:83017**
Hatsugai, Yasuhiro (*with* Kohmoto, Mahito; Wu, Yong Shi[1]) Braid groups, anyons and gauge invariance: on topologically nontrivial surfaces. (English summary) **93m:81090**
Hegerfeldt, Gerhard C. An alternative approach to the quantization of linear relativistic field equations. (English summary) **93g:81070**
Hoppe, Jens $(2n+1)$-dimensional integrable field theories. (*see* **93f:81005**)
It·s, A. R. (*with* Izergin, A. G.; Korepin, V. E.; Varzugin, G. G.) Large time and distance asymptotics of field correlation function of impenetrable bosons at finite temperature. **93b:82046**
Izergin, A. G. *see* **It·s, A. R.; et al., 93b:82046**
Jones, Vaughan F. R. Knots, braids, statistical mechanics and von Neumann algebras. **93e:57009**
Kabat, Daniel N. Conditions for the existence of closed timelike curves in $2+1$ gravity. (English summary) **93f:83008**
Karanikas, A. I. (*with* Ktorides, C. N.) Field theoretical origin of excitation path integrals. **93a:81102**
Khrennikov, A. Yu. Fundamental solutions over the field of p-adic numbers. (Russian. Russian summary) **93k:46060**
Kim, Jewan *see* **Cho, Y. M.; et al., 93a:81125**
Kimura, Minoru *see* **Morioka, Hiroyuki, 93f:58056**
Kohmoto, Mahito *see* **Hatsugai, Yasuhiro; et al., 93m:81090**
Korepin, V. E. *see* **It·s, A. R.; et al., 93b:82046**
Ktorides, C. N. *see* **Karanikas, A. I., 93a:81102**
Kunz, Jutta *see* **Brihaye, Yves, 93c:81070**
Kur'yan, V. E. Quantum field theory in space with discrete geometry. **93g:83052**
Leblanc, Y. *see* **Georgelin, Y., 93b:82044**
Leinaas, J. M. *see* **Hansson, T. H.; et al., 93g:81054**
López Lacasta, Carlos *see* **Cariñena, José F., 93d:58049**
Morioka, Hiroyuki (*with* Kimura, Minoru) Extension of Noether's theorem to nonlocal field theory. **93f:58056**
Myers, Robert C. (*with* Periwal, Vipul) Invariants of smooth 4-manifolds from topological gravity. **93a:58033**
Myrheim, J. *see* **Hansson, T. H.; et al., 93g:81054**
Ohnuki, Yoshio Relativistic particles and fields with fractional spin in $(2+1)$-dimensions. (*see* **93f:81006**)
Park, D. H. *see* **Cho, Y. M.; et al., 93a:81125**
Periwal, Vipul *see* **Myers, Robert C., 93a:58033**

Pis'mak, Yu. M. n-particle problem in quantum field theory and the functional Legendre transforms. **93c:81045**
Preskill, John Semilocal defects. (English summary) **93i:81087**
Rasetti, Mario *see* **Celeghini, E.; et al., 93b:81100** *and* **(93e:00025)**
Rivers, R. J. ★ Path integral methods in quantum field theory. **93c:81098**
Saito, Takesi *see* **Ban, Masashi; et al., 93d:82052**
Scheck, F. Anomalies, Weinberg angle and a noncommutative geometric description of the standard model. **93c:81274**
Schmeelk, John Infinite order differential operators in generalized Fock spaces. **93c:46062**
— Multiplication and mixed differentiation in generalized Fock spaces. **93c:46063**
Tresguerres, Romualdo An exact solution of $(2+1)$-dimensional topological gravity in metric-affine spacetime. (English summary) **93k:83057**
Varzugin, G. G. *see* **It·s, A. R.; et al., 93b:82046**
Vitiello, G. *see* **Celeghini, E.; et al., 93b:81100** *and* **(93e:00025)**
Waelbroeck, Henri Solving the time-evolution problem in $2+1$ gravity. **93f:83069**
Williams, Jeffrey George (*with* Zvengrowski, Peter) $2+1$ gravity kinks for multiply connected spacetime manifolds. **93e:83057**
— *see also* **Dunn, K. A.; et al., 93d:83017**
Wu, Yong Shi[1] *see* **Hatsugai, Yasuhiro; et al., 93m:81090**
Zvengrowski, Peter *see* **Williams, Jeffrey George, 93e:83057**

81Uxx Scattering theory [see also 47A40]

Items with secondary classifications in 81Uxx

(Balslev, Erik) *see* **Schrödinger operators, 93d:81006**

Items listed otherwise than by author

Aarhus ★ Schrödinger operators. **93d:81006**
Lecture Notes in Physics ★ Schrödinger operators. **93d:81006**
Schrödinger operators ★ Schrödinger operators. **93d:81006**
Workshop:
Schrödinger Operators ★ Schrödinger operators. **93d:81006**

81U05 2-body potential scattering theory [see also 34E20 for WKB methods]

Amrein, W. O. *see* **Mohapatra, A.; et al., 93g:81198**
Ancarani, L. U. (*with* Baye, D.) Iterative supersymmetric construction of phase-equivalent potentials. **93c:81258**
Baye, D. *see* **Ancarani, L. U., 93c:81258**
Belkić, Dževad Vector spherical harmonics and scattering integrals. **93b:81296**
Bera, P. K. (*with* Das, U.; Bhattacharyya, C.; Talukdar, B.) On integral representations of the Coulomb functions. **93d:81183**
Bhaduri, R. K. *see* **Law, J.; et al., 93b:81299**
Bhattacharyya, C. *see* **Bera, P. K.; et al., 93d:81183**
Darewych, J. W. (*with* Schlifer, I.) Bounding the remainder in variational calculations of potential scattering. **93f:81154**
Das, U. *see* **Bera, P. K.; et al., 93d:81183**
Daskaloyannis, C. Equivalent local potentials for a coupled-channel system and the Feshbach optical potential. **93b:81297**
Gérard, C. (*with* Knauf, Andreas) Collisions for the quantum Coulomb Hamiltonian. **93f:81155**
Graf, Gian Michele A remark on long-range Stark scattering. **93b:81298**
Grama, Cornelia (*with* Grama, N.; Zamfirescu, I.) Global method for all S-matrix poles identification: new classes of poles and resonant states. (English summary) **93i:81283**
Grama, N. *see* **Grama, Cornelia; et al., 93i:81283**
Grünbaum, F. Alberto Three-dimensional scattering and the Heisenberg inequality. (English summary) **93g:81197**
Khare, Avinash *see* **Law, J.; et al., 93b:81299**
Knauf, Andreas *see* **Gérard, C., 93f:81155**
Kuperin, Yu. A. (*with* Mel'nikov, Yu. B.[1]) Two-body resonance scattering and annihilation of composite charged particles. **93d:81184**
Law, J. (*with* Srivastava, M. K.; Bhaduri, R. K.; Khare, Avinash) Mott scattering of anyons: some exact results. **93b:81299**
Mahapatra, A. *see* **Sinha, Kalyan B., 93k:81247**
Martin, Philippe André[1] (*with* Sassoli de Bianchi, M.) On the theory of the Larmor clock and time delay. **93m:81151**
Mel'nikov, Yu. B.[1] *see* **Kuperin, Yu. A., 93d:81184**
Mohapatra, A. (*with* Sinha, Kalyan B.; Amrein, W. O.) Configuration space properties of the scattering operator and time delay for potentials decaying like $|x|^{-\alpha}$, $\alpha > 1$. (English and French summaries) **93g:81198**
Sassoli de Bianchi, M. *see* **Martin, Philippe André[1], 93m:81151**
Scheid, Werner *see* **Zielke, Andreas, 93d:81185**
Schlifer, I. *see* **Darewych, J. W., 93f:81154**
Sinha, Kalyan B. (*with* Mahapatra, A.) Time-delay in short range potential scattering. **93k:81247**
— *see also* **Mohapatra, A.; et al., 93g:81198**
Srivastava, M. K. *see* **Law, J.; et al., 93b:81299**
Talukdar, B. *see* **Bera, P. K.; et al., 93d:81183**
Thaller, Bernd Dirac particles in magnetic fields. (English summary) **93g:81199**
Wang, Xue Ping[1] Weak coupling asymptotics of Schrödinger operators with Stark effect. **93k:81248**
Zamfirescu, I. *see* **Grama, Cornelia; et al., 93i:81283**
Zielke, Andreas (*with* Scheid, Werner) Re-examination of the algebraic scattering theory. **93d:81185**

Items with secondary classifications in 81U05

Aktosun, Tuncay (*with* van der Mee, Cornelis) Scattering and inverse scattering for the 1-D Schrödinger equation with energy-dependent potentials. **93b:34107**
— (*with* Klaus, Martin; van der Mee, Cornelis) Scattering and inverse scattering in one-dimensional nonhomogeneous media. **93g:81200**
Alon, Ofir E. (*with* Moiseyev, Nimrod) Balslev-Combes theorem within the framework of the finite-matrix approximation. (English summary) **93i:81303**
Amado, R. D. (*with* Cannata, F.; Dedonder, J. P.) Supersymmetric quantum mechanics, phase equivalence, and low energy scattering anomalies. **93b:81076**
Aquilanti, Vincenzo *see* **Zhu, Chaoyuan; et al., 93d:34138**
Arsu, G. Spectral analysis for simply characteristic operators by Mourre's method. I. **93c:47011**
Brasche, J. F. (*with* Teta, A.) Spectral analysis and scattering theory for Schrödinger operators with an interaction supported by a regular curve. (English summary) **93m:81027**
Cannata, F. *see* **Amado, R. D.; et al., 93b:81076**
van Casteren, Jan A. W. *see* **Demuth, Michael, 93m:81028**
Cruz, Jaime Spectral theory of Schrödinger operators with very long range potentials. **93b:81026**
Davies, E. Brian (*with* Simon, Barry) L^p norms of noncritical Schrödinger semigroups. **93e:47063**
Dedonder, J. P. *see* **Amado, R. D.; et al., 93b:81076**
Demuth, Michael (*with* van Casteren, Jan A. W.) Perturbations of generalized Schrödinger operators in stochastic spectral analysis. **93m:81028**
Ginibre, J. (*with* Ozawa, Tohru) Long range scattering for nonlinear Schrödinger and Hartree equations in space dimension $n \geq 2$. (English summary) **93m:35168**
Giraud, B. G. *see* **Mekideche, F., 93i:81286**
Hinton, Don B. (*with* Klaus, Martin; Shaw, J. K.) Embedded half-bound states for potentials of Wigner-von Neumann type. **93b:34110**
Jensen, Arne[2] High energy resolvent estimates for Schrödinger operators. (*see* **93e:00034**)
— (*with* Nakamura, Shu[1]) Mapping properties of wave and scattering operators of two-body Schrödinger operators. **93g:35107**
Klaus, Martin *see* **Hinton, Don B.; et al., 93b:34110** *and* **Aktosun, Tuncay; et al., 93g:81200**
Kurasov, P. B. Zero-range potentials with internal structures and the inverse scattering problem. (English summary) **93j:81108**
van der Mee, Cornelis *see* **Aktosun, Tuncay, 93b:34107** *and* **93g:81200**
Mekideche, F. (*with* Giraud, B. G.) Symmetry breaking by propagation. (English summary) **93i:81286**
Moiseyev, Nimrod *see* **Alon, Ofir E., 93i:81303**
Nakamura, Hiroki *see* **Zhu, Chaoyuan; et al., 93d:34138**
Nakamura, Shu[1] *see* **Jensen, Arne[2], 93g:35107**
Nicoleau, François (*with* Robert, Didier) Théorie de la diffusion quantique pour des perturbations à longue et courte portée du champ magnétique. (English and French summaries) [Theory of quantum scattering for long- and short-range perturbations of the magnetic field] **93j:47097**
Novikov, R. G. Transparent potentials and Hamiltonian systems. (*see* **93e:35005**)
Ozawa, Tohru *see* **Ginibre, J., 93m:35168**
Re, Nazzareno *see* **Zhu, Chaoyuan; et al., 93d:34138**
Robert, Didier *see* **Nicoleau, François, 93j:47097**
Shaw, J. K. *see* **Hinton, Don B.; et al., 93b:34110**
Simon, Barry *see* **Davies, E. Brian, 93e:47063**
Teta, A. *see* **Brasche, J. F., 93m:81027**
White, Denis A. W. Long range scattering with Stark effect and almost periodic potentials. **93b:35107**
Yamamoto, Kazuhiro Existence of outgoing solutions for perturbations of $-\Delta$ and applications to the scattering matrix. **93d:35035**
Zhu, Chaoyuan (*with* Nakamura, Hiroki; Re, Nazzareno; Aquilanti, Vincenzo) The two-state linear curve crossing problems revisited. I. Analysis of Stokes phenomenon and expressions for scattering matrices. **93d:34138**

81U10 n-body potential scattering theory

Berthold, G. H. *see* **Gibson, A. G.; et al., 93a:81204**
Chandler, Colston (*with* Gibson, A. G.) Erratum: "N-body quantum scattering theory in two Hilbert spaces. V. Computation strategy" [J. Math. Phys. **30** (1989), no. 7, 1533–1544; MR 90h:81198]. **93k:81249**
— *see also* **Gibson, A. G.; et al., 93a:81204**
Dereziński, Jan Algebraic approach to the N-body long range scattering. **93d:81186**
— N-body observables in the Calkin algebra. **93i:81284**
Gibson, A. G. (*with* Waters, A. J.; Berthold, G. H.; Chandler, Colston) A new $\mathscr{K}$-matrix approach to N-body scattering. **93a:81204**
— *see also* **Chandler, Colston, 93k:81249**
Giraud, B. G. *see* **Mekideche, F., 93i:81286**
Hu, C.-Y. *see* **Kvitsinskii, A. A., 93c:81259**
Isozaki, Hiroshi On the S-matrix for three-body Schrödinger operators. (English summary) **93i:81285**
— Structures of S-matrices for three body Schrödinger operators. **93h:81146**
Ito, Hiroshi T. (*with* Tamura, Hideo) Semi-classical asymptotics for total scattering cross sections of 3-body systems. **93k:81250**
Kostrykin, V. V. *see* **Kvitsinskii, A. A., 93b:81300** *and* **93b:81301**
Kvitsinskii, A. A. (*with* Kostrykin, V. V.) Quantum three-body scattering problem in the adiabatic hyperspherical representation. **93b:81300**
— (*with* Kostrykin, V. V.) Semiclassical quantization for Coulomb systems on a hypersphere. **93b:81301**
— (*with* Hu, C.-Y.) Solution of three-dimensional Faddeev equations for three-body Coulomb bound states. **93c:81259**
Lakaev, S. N. Bound states and resonances of an N-particle discrete Schrödinger operator. (Russian. English and Russian summaries) **93k:81251**
Markovskii, B. L. (*with* Suz'ko, A. A.; Vinitskiĭ, S. I.) ★ New adiabatic representation for three-body scattering problem. **93c:81260**
Mekideche, F. (*with* Giraud, B. G.) Symmetry breaking by propagation. (English summary) **93i:81286**
Pozdneev, S. A. Application of quantum scattering theory for calculations of various processes in nuclear, atomic and molecular physics. (Russian. English summary)

93c:81261
Skibsted, Erik On smoothness of the N-body S-matrix. (*see* **93d:81006**)
Suz'ko, A. A. Exactly solvable three-body models with two-center potentials. (Russian) **93e:81144**
— *see also* **Markovskiĭ, B. L.; et al., 93c:81260**
Tamura, Hideo *see* **Ito, Hiroshi T., 93k:81250**
Vinitskiĭ, S. I. *see* **Markovskiĭ, B. L.; et al., 93c:81260**
Vugal'ter, S. A. (*with* Zhislin, G. M.) On the spectrum of the Schrödinger operator of a system of three pairwise nonbonding particles in a homogeneous magnetic field. (Russian) **93d:81187**
Wang, Xue Ping[1] On the three-body long-range scattering problems. (English summary) **93i:81287**
Waters, A. J. *see* **Gibson, A. G.; et al., 93a:81204**
Yafaev, D. R. Radiation conditions and scattering theory for N-particle Hamiltonians (main ideas of the approach). (English summary) (*see* **93e:35005**)
— Radiation conditions and scattering theory for N-particle Schrödinger operators. **93m:81152**
Zhislin, G. M. *see* **Vugal'ter, S. A., 93d:81187**
Zielinski, Lech Une estimation de propagation avec applications en théorie de Schrödinger des systèmes quantiques. (English and French summaries) [A propagation estimate with applications in the Schrödinger theory of quantum systems] **93j:81106**

Items with secondary classifications in 81U10

Boutet de Monvel-Berthier, Anne-Marie (*with* Manda, Dragos; Purice, Radu) The commutator method for form-relatively compact perturbations. **93d:47143**
Brink, L. (*with* Hansson, T. H.; Vasil'ev, M. A.) Explicit solution to the N-body Calogero problem. (English summary) **93d:81029**
Dereziński, Jan Asymptotic completeness in classical N-body systems. (English summary) (*see* **93e:35005**)
Evans, W. D. (*with* Lewis, Roger T.; Saitō, Yoshimi) Geometric spectral properties of N-body Schrödinger operators. II. **93f:35163**
Gérard, C. Sharp propagation estimates for N-particle systems. **93j:35061**
Hansson, T. H. *see* **Brink, L.; et al., 93d:81029**
Iftimovici, Andrei On asymptotic completeness for Agmon type Hamiltonians. (French summary) **93c:47056**
Kuperin, Yu. A. (*with* Merkur'ev, S. P.) Selfadjoint extensions and scattering theory for several-body systems. **93e:47013**
Lakaev, S. N. On an infinite number of three-particle bound states of a system of three quantum lattice particles. (Russian. English summary) **93d:81041**
Lewis, Roger T. *see* **Evans, W. D.; et al., 93f:35163**
Manda, Dragos *see* **Boutet de Monvel-Berthier, Anne-Marie; et al., 93d:47143**
Mel'nikov, A. M. (*with* Minlos, R. A.) Point interaction of three different particles. (Russian. Russian summary) **93k:81042**
Merkur'ev, S. P. *see* **Kuperin, Yu. A., 93e:47013**
Minlos, R. A. *see* **Mel'nikov, A. M., 93k:81042**
Purice, Radu *see* **Boutet de Monvel-Berthier, Anne-Marie; et al., 93d:47143**
Saitō, Yoshimi *see* **Evans, W. D.; et al., 93f:35163**
Sigal, I. M. Quantum mechanics of many-particle systems. **93c:81033**
Tamura, Hideo Asymptotic completeness of Schrödinger operators for many-body systems. (Japanese) **93i:47120**
Vasil'ev, M. A. *see* **Brink, L.; et al., 93d:81029**
Wang, Xue Ping[1] Semiclassical resolvent estimates for N-body Schrödinger operators. **93b:81071**
White, Denis A. W. Modified wave operators and Stark Hamiltonians. **93m:47058**

81U20 S-matrix theory, etc.

Bulla, W. (*with* Gesztesy, F.; Unterkofler, K.) Holomorphy of the scattering matrix with respect to c^{-2} for Dirac operators and an explicit treatment of relativistic corrections. **93b:81302**
Fuda, Michael G. Angular momentum and light-front scattering theory. **93a:81205**
Gesztesy, F. *see* **Bulla, W.; et al., 93b:81302**
Lewenkopf, C. H. (*with* Weidenmüller, H. A.) Stochastic versus semiclassical approach to quantum chaotic scattering. **93a:81206**
Metsaev, R. R. S-matrix approach to massless higher spins theory. II. The case of internal symmetry. **93b:81303**
O'Rourke, S. F. C. Erratum: "Generalized Demkov model: geometrical adiabatic phase factors" [Phys. Scripta **45** (1992), no. 4, 292–301].
Rerikh, K. V. Cremona transformation and general solution of one dynamical system of the static model. (English summary) **93i:81288**
Unterkofler, K. *see* **Bulla, W.; et al., 93b:81302**
Weidenmüller, H. A. *see* **Lewenkopf, C. H., 93a:81206**

Items with secondary classifications in 81U20

Braden, H. W. (*with* Corrigan, E.; Dorey, Patrick E.; Sasaki, Ryu) Affine Toda field theory: S-matrix vs. perturbation. **93i:81148**
Chadan, K. (*with* Kobayashi, Reido; Musette, M.) The inverse problem in the coupling constant for the Schrödinger equation. II. **93c:34033**
Contopanagos, H. F. (*with* Einhorn, Martin B.) Interpretation of the asymptotic S matrix for massless particles. **93a:81138**
Corrigan, E. *see* **Braden, H. W.; et al., 93i:81148**
Dorey, Patrick E. *see* **Braden, H. W.; et al., 93i:81148**
Einhorn, Martin B. *see* **Contopanagos, H. F., 93a:81138**
Fujisaki, H. Comments on the thermal Virasoro amplitude. **93g:81124**
Gochev, G. I. Dependence of Regge poles on frequency. (Russian) **93k:34055**
Grama, Cornelia (*with* Grama, N.; Zamfirescu, I.) Global method for all S-matrix poles identification: new classes of poles and resonant states. (English summary) **93i:81283**
Grama, N. *see* **Grama, Cornelia; et al., 93i:81283**
Iftimie, Viorel Opérateurs de Schrödinger du type à N corps dispersifs. [Dispersive N-body Schrödinger operators] **93c:47055**
Isozaki, Hiroshi Structures of S-matrices for three body Schrödinger operators. **93h:81146**
Kimura, Toshiei *see* **Ohta, Tadayuki, 93c:81268**
Klassen, Timothy R. (*with* Melzer, Ezer) On the relation between scattering amplitudes and finite-size mass corrections in QFT. **93c:81256**
Kobayashi, Reido *see* **Chadan, K.; et al., 93c:34033**
Koubek, A. (*with* Martins, Márcio José; Mussardo, Giuseppe) Scattering matrices for $\varphi_{1,2}$ perturbed conformal minimal models in absence of kink states. **93a:81175**
Kumlin, Peter Analyticity of the scattering operator for the nonlinear Klein-Gordon equation with cubic nonlinearity. **93a:81114**
MacKay, N. J. New factorized S-matrices associated with SO(N). **93b:81115**
Martins, Márcio José *see* **Koubek, A.; et al., 93a:81175**
Melzer, Ezer *see* **Klassen, Timothy R., 93c:81256**
Musette, M. *see* **Chadan, K.; et al., 93c:34033**
Mussardo, Giuseppe *see* **Koubek, A.; et al., 93a:81175**
Ohta, Tadayuki (*with* Kimura, Toshiei) Derivation of many-body potential among charged particles in the S-matrix method. **93c:81268**
Sasaki, Ryu *see* **Braden, H. W.; et al., 93i:81148**
Strube, Dieter Translationally invariant global charges in a local collision theory for massless particles. **93a:81113**
Zamfirescu, I. *see* **Grama, Cornelia; et al., 93i:81283**

81U30 Dispersion theory, dispersion relations

Items with secondary classifications in 81U30

Braden, H. W. (*with* Sasaki, Ryu) Affine Toda perturbation theory. **93m:81125**
Fujisaki, H. Comments on the thermal Virasoro amplitude. **93g:81124**
Sasaki, Ryu *see* **Braden, H. W., 93m:81125**

81U40 Inverse scattering problems [see also 58F07, 58F19]

Aktosun, Tuncay (*with* Klaus, Martin; van der Mee, Cornelis) Scattering and inverse scattering in one-dimensional nonhomogeneous media. **93g:81200**
Eilbeck, J. C. *see* **Ènol'skiĭ, V. Z.; et al., 93j:81107**
Ènol'skiĭ, V. Z. (*with* Salerno, Mario; Scott, A. C.; Eilbeck, J. C.) There's more than one way to skin Schrödinger's cat. (English summary) **93j:81107**
Frenkin, A. R. *see* **Gostev, V. B., 93h:81147**
Gostev, V. B. (*with* Frenkin, A. R.) An inverse problem for a one-dimensional singular oscillator. (Russian) **93h:81147**
Hikami, Kazuhiro *see* **Ujino, Hideaki; et al., 93i:81289**
Iguchi, Kazumoto Quasiperiodic systems without Cantor-set-like energy bands. (English summary) **93k:81252**
Klaus, Martin *see* **Aktosun, Tuncay; et al., 93g:81200**
Kurasov, P. B. Zero-range potentials with internal structures and the inverse scattering problem. (English summary) **93j:81108**
van der Mee, Cornelis *see* **Aktosun, Tuncay; et al., 93g:81200**
Nakawaki, Yuji An infinite volume formulation of the quantum inverse scattering method for the nonlinear Schrödinger model of spin-1/2 particles with attractive coupling. **93d:81188**
Prosser, Reese T. Formal solutions of inverse scattering problems. V. (English summary) **93m:81153**
Salerno, Mario *see* **Ènol'skiĭ, V. Z.; et al., 93j:81107**
Scott, A. C. *see* **Ènol'skiĭ, V. Z.; et al., 93j:81107**
Ujino, Hideaki (*with* Hikami, Kazuhiro; Wadati, Miki) Integrability of the quantum Calogero-Moser model. (English summary) **93i:81289**
Wadati, Miki *see* **Ujino, Hideaki; et al., 93i:81289**

Items with secondary classifications in 81U40

Clemence, Dominic P. Some layer-stripping formulae for the Schrödinger equation with a periodic potential. (English summary) **93h:35150**
King, Christopher K. Scattering theory for a model of an atom in a quantized field. (English summary) **93i:81290**
Newton, Roger G. Uniqueness in some quasi-Goursat problems in 3 + 1 dimensions and the inverse scattering problem. **93e:35066**
Nieto-Vesperinas, Manuel ★ Scattering and diffraction in physical optics. **93g:78016**
Novikov, R. G. The inverse scattering problem on a fixed energy level for the two-dimensional Schrödinger operator. **93e:35080**
Reshetikhin, N. Yu. S-matrices in integrable models of isotropic magnetic chains. I. **93b:82025**
Syroid, I.-P. P. Development of the method of the inverse scattering problem for the nonlinear Schrödinger equation. (Russian. English and Russian summaries) **93f:35220**
Takebe, Takashi Generalized Bethe ansatz with the general spin representations of the Sklyanin algebra. **93e:82021**
Zamolodchikov, Aleksei B. From tricritical Ising to critical Ising by thermodynamic Bethe ansatz. **93b:81182**

81U99 None of the above, but in this section

Adhikari, Sadhan K. Complex Kohn variational principle for the solution of Lippmann-Schwinger equations. (English summary) **93k:81253**
Ahia, Francis Lower bounds on width of Stark resonances in one dimension. **93a:81207**
Boffetta, G. (*with* Osborne, A. R.) Computation of the direct scattering transform for the nonlinear Schroedinger equation. (English summary)
Ikonić, Z. *see* **Milanović, V.; et al., 93k:81254**
King, Christopher K. Scattering theory for a model of an atom in a quantized field. (English summary) **93i:81290**
Levine, Raphael D. *see* **Wehrhahn, Rodolfo, 93a:81208**
Meyer, Hans-Dieter The CI optical potential and its equivalence with the Schwinger multichannel formalism. **93c:81262**
Mikami, Yasushi *see* **Ohnami, Kazumoto**

Milanović, V. (*with* Ikonić, Z.; Tjapkin, D.) Levinson's theorem in semiconductor quantum dots. (English summary) **93k:81254**
Narnhofer, Heide Nonexistence of scattering theory at finite temperature. (English summary) **93e:81145**
Ohnami, Kazumoto (*with* Mikami, Yasushi) Resonance scattering in a two-dimensional nonintegrable system. (English summary)
Osborne, A. R. *see* **Boffetta, G.**
Paliwal, D. D. Determination of phase shifts for exponential potential function. (English summary)
Shushin, Anatolii (*with* Wardlaw, David M.) Properties of time delay and S-matrix for chaotic scattering on a leaky surface of constant negative curvature. **93b:81304**
Thaller, Bernd Scattering theory of a supersymmetric Dirac operator. **93i:81291**
Tjapkin, D. *see* **Milanović, V.; et al., 93k:81254**
Wardlaw, David M. *see* **Shushin, Anatolii, 93b:81304**
Wehrhahn, Rodolfo (*with* Levine, Raphael D.) Symmetry scattering for systems with internal structure. **93a:81208**

Items with secondary classifications in 81U99

Akhiezer, A. I. (*with* Shul'ga, N. F.) Quasiclassical theory of radiation emission from high-energy particles in an external field and the problem of boundary conditions. (Russian) **93g:78012**
Aktosun, Tuncay (*with* Klaus, Martin; van der Mee, Cornelis) Explicit Wiener-Hopf factorization for certain nonrational matrix functions. (English summary) **93j:47030**
Azimova, G. M. A scattering problem for a first-order nonselfadjoint difference operator. (Russian. English and Azerbaijani summaries) **93f:47036**
Bhamathi, G. *see* **Chiu, Charles B.; et al., 93g:81076**
Blümel, Reinhold *see* **Lai, Ying-Cheng; et al., 93b:81074**
Cannata, F. (*with* Ioffe, M. V.) Coupled-channel scattering and separation of coupled differential equations by generalized Darboux transformations. (English summary) **93m:35010**
Carstoiu, F. (*with* Lombard, R. J.) A new method of evaluating folding type integrals. (English summary) **93f:81165**
Chernyak, V. Ya. (*with* Grigorishin, K. I.; Ogievetskii, E. I.) Triangle equation and quantum algebra representations. **93g:81047**
Chiu, Charles B. (*with* Sudarshan, E. C. G.; Bhamathi, G.) Cascade model: a solvable field theory. (English summary) **93g:81076**
Ernesti, A. (*with* Korsch, H. J.) Factorization relations and Wigner's rotation matrices. **93f:81163**
Freeman, D. Kent Generalization of the pseudopotential to an interaction with nonzero range. **93b:81057**
Grebogi, Celso *see* **Lai, Ying-Cheng; et al., 93b:81074**
Grigorishin, K. I. *see* **Chernyak, V. Ya.; et al., 93g:81047**
Hooshyar, M. A. *see* **Richardson, P. A., 93f:34025**
Ioffe, M. V. *see* **Cannata, F., 93m:35010**
Klaus, Martin *see* **Aktosun, Tuncay; et al., 93j:47030**
Korsch, H. J. *see* **Ernesti, A., 93f:81163**
Kuperin, Yu. A. (*with* Mel'nikov, Yu. B.[1]) Quantum scattering in gauge fields of adiabatic representations. (Russian) **93c:81030**
— (*with* Mel'nikov, Yu. B.[1]; Merkur'ev, S. P.) Quantum scattering for effective nonabelian interactions. (Russian) **93f:47091**
Lai, Ying-Cheng (*with* Blümel, Reinhold; Ott, Edward; Grebogi, Celso) Quantum manifestations of chaotic scattering. **93b:81074**
Latypov, D. M. (*with* Mukhamedzhanov, A. M.) On the Coulomb singular kernel of Lippmann-Schwinger-type equation. (English summary) **93g:81024**
Lombard, R. J. *see* **Carstoiu, F., 93f:81165**
Marchetti, P. A. Anyon wave functions from anyon field operators. (English summary) **93m:81098**
van der Mee, Cornelis *see* **Aktosun, Tuncay; et al., 93j:47030**
Mel'nikov, Yu. B.[1] *see* **Kuperin, Yu. A., 93c:81030** *and* **93f:47091**
Merkur'ev, S. P. *see* **Kuperin, Yu. A.; et al., 93f:47091**
Mukhamedzhanov, A. M. *see* **Latypov, D. M., 93g:81024**
Neidhardt, Hagen Moving potentials and the completeness of wave operators. II. Propagating observables on scattering states. **93a:47008**
Ogievetskii, E. I. *see* **Chernyak, V. Ya.; et al., 93g:81047**
Ott, Edward *see* **Lai, Ying-Cheng; et al., 93b:81074**
Pedersen, J. (*with* Segal, Irving E.; Zhou, Zheng-Fang) Massless φ^q_d quantum field theories and the nontriviality of φ^4_4. **93m:81100**
Richardson, P. A. (*with* Hooshyar, M. A.) The inverse problem of central, spin-orbit and L^2-dependent potentials. **93f:34025**
Segal, Irving E. *see* **Pedersen, J.; et al., 93m:81100**
Shul'ga, N. F. *see* **Akhiezer, A. I., 93g:78012**
Sinha, Kalyan B. Quantum mechanics and spectral theory. **93d:81001**
Sudarshan, E. C. G. *see* **Chiu, Charles B.; et al., 93g:81076**
Villarroel, Javier The DBAR problem and the Thirring model. **93e:58152**
Wang, Xue Ping[1] Barrier resonances in strong magnetic fields. (English summary) **93j:81016**
Zakrzewski, Wojciech J. Soliton-like scattering in the O(3) σ-model in $(2+1)$ dimensions. **93b:81150**
Zhou, Zheng-Fang *see* **Pedersen, J.; et al., 93m:81100**

81Vxx Applications to specific physical systems

81V05 Strong interaction, including quantum chromodynamics

Adjali, I. *see* **Zuk, J. A., 93a:81211**
Ananias Neto, Jorge *see* **Ferreira, Erasmo, 93b:81305**
Brodsky, St. J. (*with* Pauli, H.-Ch.) Light-cone quantization of quantum chromodynamics. (English summary) (*see* **93d:81005**)
Chan, A. H. (*with* Chew, C. K.) Asymptotic solution to the QCD-parton branching equation. (English summary) **93g:81201**
Chew, C. K. *see* **Chan, A. H., 93g:81201**
Ferreira, Erasmo (*with* Ananias Neto, Jorge) Singularities in the solutions of the massive Skyrme model. **93b:81305**
Fujita, T. *see* **Tomachi, T.**
Kiselev, A. V. (*with* Petrov, V. A.) The proton spin: the role of quark-gluonic and hadronic degrees of freedom. (Russian. English and Russian summaries)
Klevansky, S. P. The Nambu-Jona-Lasinio model of quantum chromodynamics. (English summary) **93f:81156**
Kokado, Akira (*with* Konisi, Gaku; Takahasi, Wataru) Path-integral quantization of para-gauge field theory. **93a:81209**
Konisi, Gaku *see* **Kokado, Akira; et al., 93a:81209**
Leutwyler, H. (*with* Smilga, A. V.) Spectrum of Dirac operator and role of winding number in QCD. (English summary) **93i:81292**
Minelli, T. A. (*with* Pascolini, A.) Nonlinear aspects of vacuum polarization in the Padua model of the nucleon. (English summary) (*see* **93g:00028**)
Pak, Namık K. (*with* Yilmaz, T.) Quantization of the chiral solitonic bag model. (*see* **93a:00022**)
Pascolini, A. *see* **Minelli, T. A., (93g:00028)**
Pauli, H.-Ch. *see* **Brodsky, St. J., (93d:81005)**
Petrov, V. A. *see* **Kiselev, A. V.**
Smilga, A. V. *see* **Leutwyler, H., 93i:81292**
Takahasi, Wataru *see* **Kokado, Akira; et al., 93a:81209**
Tomachi, T. (*with* Fujita, T.) Fermion condensate and the spectrum of massive Schwinger model in Bogoliubov transformed vacuum. (English summary)
Yilmaz, T. *see* **Pak, Namık K., (93a:00022)**
Zhang, Jian Zu New pure gauge-boson processes involving axigluons in chiral-color model. **93a:81210**
Zuk, J. A. (*with* Adjali, I.) On the two-point approximation to the effective chiral action for large solitons. **93a:81211**

Items with secondary classifications in 81V05

Aragão de Carvalho, C. Fermion induced solitons. (English summary) (*see* **93b:81004**)
Cho, Y. M. Gauge theory of the Virasoro group. **93h:81043**
Common, A. K. Bounds on the kinetic energy, mean radius, and electric dipole moment of ground states in a class of potential models of quarkonium. **93b:81042**
Delbourgo, Roger (*with* Triyanta) Equivalence between the Fock-Schwinger gauge and the Feynman gauge. (English summary) **93e:81071**
Esteban, Maria J. (*with* Müller, Stefan) Sobolev maps with integer degree and applications to Skyrme's problem. (English summary) **93j:58039**
Filippov, A. T. (*with* Gangopadhyay, Debashis; Isaev, A. P.) Discrete "strings" and gauge model of three confined relativistic particles. **93k:81176**
Gangopadhyay, Debashis *see* **Filippov, A. T.; et al., 93k:81176**
Goto, Toru (*with* Okada, Yasuhiro) Nonlinear σ models and supersymmetry-breaking effects in supergravity. **93b:83062**
Guruswamy, S. (*with* Rajeev, S. G.) Two-dimensional quantum chromodynamics on a cylinder. (English summary) **93k:81205**
Higashijima, Kiyoshi Theory of dynamical symmetry breaking. (English summary) **93g:81041**
Isaev, A. P. *see* **Filippov, A. T.; et al., 93k:81176**
Jha, Pradip K. (*with* Tripathy, Kishor C.) Symmetries of the renormalization group equations. **93d:81123**
Johansen, A. A. Nonrenormalizability of the topological charge as a result of the index theorem for the inverse gluon propagator. **93k:81149**
Karliner, Marek *see* **Susskind, Leonard; et al., (93e:81005)**
Kehagias, Alexandros A. The $SU(3)/Z_3$ gauge theory in a non-simply connected spacetime. (English summary) **93g:81094**
Klebanov, Igor R. *see* **Susskind, Leonard; et al., (93e:81005)**
Lano, R. P. (*with* Rodgers, V. G. J.) Applications of W algebras to BF theories, QCD and 4D gravity. **93i:81265**
Martin, André (*with* Stubbe, J.) Spacings of purely angular excitations in potentials with a Laplacian of a given sign, and applications. **93a:81217**
Minahan, Joseph A. Flows and solitary waves in unitary matrix models with logarithmic potentials. **93c:81216**
Müller, Stefan *see* **Esteban, Maria J., 93j:58039**
Ne'eman, Yuval (*with* Sternberg, Shlomo) Internal supersymmetry and superconnections. **93b:58034**
Okada, Yasuhiro *see* **Goto, Toru, 93b:83062**
Rajeev, S. G. *see* **Guruswamy, S., 93k:81205**
Rodgers, V. G. J. QCD instantons and 2D surfaces. **93e:81079**
— *see also* **Lano, R. P., 93i:81265**
Roqué, Xavier Møller scattering: a neglected application of early quantum electrodynamics. **93k:01054**
Sternberg, Shlomo *see* **Ne'eman, Yuval, 93b:58034**
Stubbe, J. *see* **Martin, André, 93a:81217**
Susskind, Leonard (*with* Karliner, Marek; Klebanov, Igor R.) Strings in space. (*see* **93e:81005**)
Tripathy, Kishor C. *see* **Jha, Pradip K., 93d:81123**
Triyanta *see* **Delbourgo, Roger, 93e:81071**
Verbaarschot, J. J. M. Erratum: "Streamlines and conformal invariance in Yang-Mills theories" [Nuclear Phys. B **362** (1991), no. 1-2, 33–53; MR 92f:81220]. **93k:81244**
Witten, Edward Searching for integrability. **93i:81082**
Zwanziger, Daniel Critical limit of lattice gauge theory. **93a:81146**

81V10 Electromagnetic interaction; quantum electrodynamics

Abdalla, M. Sebawe The statistical properties of a generalized two-mode squeezed operator. **93c:81263**

Accardi, Luigi (*with* Lu, Yun Gang) On the weak coupling limit for quantum electrodynamics. (English summary) **93i:81293**

Adam, Gerhard Ordered moments in the case of a one-mode radiation field with Gaussian Wigner functions. (English summary) **93k:81255**

Aharonov, Yakir (*with* Stern, Ady) Origin of the geometric forces accompanying Berry's geometric potentials. (English summary) **93i:81294**

Aliaga, J. (*with* Crespo, G.; Proto, A. N.) Squeezing in the SU(1, 1) group. (English summary) (*see* **93b:00027**)

Arai, Asao Long-time behavior of an electron interacting with a quantized radiation field. **93c:81264**

Barut, Asim Orhan More on the radiation reaction and runaway solutions in classical electrodynamics. (English summary) **93m:81155**

Baylis, W. E. *see* **Wei, Jiansu, 93a:81213**

Ben-Aryeh, Y. (*with* Lukš, A.; Peřinová, V.) The concept of equal space commutators in quantum optics. **93d:81189**

Blanco, R. On Barut's proposal for eliminating both the preacceleration and the runaway solution of the Lorentz-Dirac equation. (English summary) **93m:81154**

Bordag, M. (*with* Hennig, D.; Robaschik, D.) Vacuum energy in quantum field theory with external potentials concentrated on planes. (English summary) **93f:81157**

Bosco, B. (*with* Ricci, P.; Sacchi, M. T.) The Casimir theorem and the inversion problem in electrodynamics at first quantized level. (English summary) **93k:81256**

Breuer, H. P. (*with* Dietz, Klaus P.; Holthaus, M.) A remark on the Kramers-Henneberger transformation. (English summary) **93f:81158**

Buendía, G. M. (*with* Trias, A.) Coherent states and other basic states of quantum electrodynamics formulated in the loop space. (English summary) **93g:81202**

Callan, Curtis G., Jr. (*with* Freed, Denise) Phase diagram of the dissipative Hofstadter model. **93e:81146**

Cortés, J. L. (*with* Gamboa, Jorge; Velázquez, L.) Electromagnetic interaction of anyons. (English summary) **93e:81147**

Crespo, G. *see* **Aliaga, J.; et al., (93b:00027)**

Daicic, J. (*with* Frankel, Norman E.) Relativistic spin-1 bosons in a magnetic field. (English summary)

Davidson, Aharon (*with* Paz, Uzi) Threefold family of charged spin-$\frac{1}{4}$ Dirac bubbles. (English summary) **93k:81257**

Dietz, Klaus P. *see* **Breuer, H. P.; et al., 93f:81158**

Drake, G. W. F. *see* **Guo, Dong Sheng, 93c:81265**

Duru, I. H. Casimir force between two Aharonov-Bohm solenoids. (English summary)

Epp, R. J. (*with* Kunstatter, G.; Toms, David J.) Path-integral quantization of scalar QED. (English summary) **93k:81258**

Feng, Cheng Tian *see* **Qi, Han Qing**

Fernández C., David J. (*with* Nieto, Luis M.; del Olmo, Mariano A.; Santander, Mariano) Aharonov-Anandan geometric phase for spin-$\frac{1}{2}$ periodic Hamiltonians. (English summary) **93i:81295**

Frankel, Norman E. *see* **Daicic, J.**

Freed, Denise *see* **Callan, Curtis G., Jr., 93e:81146**

Gamboa, Jorge *see* **Cortés, J. L.; et al., 93e:81147**

Guo, Dong Sheng (*with* Drake, G. W. F.) Stationary solutions for an electron in an intense laser field. I. Single-mode case. **93c:81265**

Hacyan, Shahen The Dirac sea in accelerated frames or magnetic fields. (*see* **93b:83004**)

Han, Yeong Deok (*with* Koh, In Gyu) Topological nature of the Aharonov-Casher effect. **93c:81266**

Hennig, D. *see* **Bordag, M.; et al., 93f:81157**

Holthaus, M. *see* **Breuer, H. P.; et al., 93f:81158**

Kimura, Toshiei *see* **Ohta, Tadayuki, 93c:81268**

Kleinert, Hagen The extra gauge symmetry of string deformations in electromagnetism with charges and Dirac monopoles. (English summary)

Koh, In Gyu *see* **Han, Yeong Deok, 93c:81266**

Kunstatter, G. *see* **Epp, R. J.; et al., 93k:81258**

Lee, Ching Tsung Moment problem for a density matrix and a biorthogonal set of operator bases. (English summary) **93k:81259**

Leon, Jérôme Jp. Integrable nonlinear boundary value problems. (English summary) **93i:81296**

Lu, Yun Gang *see* **Accardi, Luigi, 93i:81293**

Lukš, A. *see* **Ben-Aryeh, Y.; et al., 93d:81189**

March, N. H. *see* **Pfalzner, S., 93k:81260**

Miller, Dean (*with* Milton, Kimball A.; Siegemund-Broka, Stephan) Finite-element quantum electrodynamics: canonical formulation, unitarity, and the magnetic moment of the electron. **93c:81267**

Milton, Kimball A. *see* **Miller, Dean; et al., 93c:81267**

Nakanishi, Noboru Critical review of the theory of quantum electrodynamics. **93a:81212**

Nieto, Luis M. *see* **Fernández C., David J.; et al., 93i:81295**

Ohta, Tadayuki (*with* Kimura, Toshiei) Derivation of many-body potential among charged particles in the *S*-matrix method. **93c:81268**

del Olmo, Mariano A. *see* **Fernández C., David J.; et al., 93i:81295**

Paz, Uzi *see* **Davidson, Aharon, 93k:81257**

Peřinová, V. *see* **Ben-Aryeh, Y.; et al., 93d:81189**

Pfalzner, S. (*with* March, N. H.) Thomas-Fermi theory in magnetic fields of arbitrary strength. (English summary) **93k:81260**

Pike, E. R. (*with* Sarkar, Sarben) Classical configuration space and Schrödinger wavefunctionals for the photon. **93c:81269**

Proto, A. N. *see* **Aliaga, J.; et al., (93b:00027)**

Qi, Han Qing (*with* Feng, Cheng Tian) A study on gauge transformations of singular potentials of magnetic monopoles. (Chinese. English and Chinese summaries)

Qian, Shang Wu The unified form of constructing gauge independent transition probabilities for interaction of radiation with matter. (English and Chinese summaries) **93j:81109**

Rañada, Antonio F. Topological electromagnetism. **93c:81270**

Ricci, P. *see* **Bosco, B.; et al., 93k:81256**

Robaschik, D. *see* **Bordag, M.; et al., 93f:81157**

Rosewarne, David (*with* Sarkar, Sarben) Rigorous theory of photon localizability. (English summary) **93j:81110**

Sacchi, M. T. *see* **Bosco, B.; et al., 93k:81256**

Santander, Mariano *see* **Fernández C., David J.; et al., 93i:81295**

Sarkar, Sarben *see* **Pike, E. R., 93c:81269** *and* **Rosewarne, David, 93j:81110**

Schwinger, Julian Casimir effect in source theory. II. **93c:81271**

— Casimir effect in source theory. III. **93f:81159**

Seke, J. Solution of the renormalization problem in nonrelativistic quantum electrodynamics. (English summary) **93i:81297**

Semenoff, Gordon W. (*with* Wijewardhana, L. C. R.) Dynamical violation of parity and chiral symmetry in three-dimensional four-Fermi theory. **93h:81148**

Shirokov, M. I. Regularization of the multipolar form of quantum electrodynamics. (English summary) **93j:81111**

Siegemund-Broka, Stephan *see* **Miller, Dean; et al., 93c:81267**

Solnyshkin, S. N. On the discrete spectrum of a quantum particle in an electrical and a homogeneous magnetic field. (Russian) **93c:81272**

Stern, Ady *see* **Aharonov, Yakir, 93i:81294**

Tanimura, N. (*with* Tanimura, O.) Recursion relations in U(N) integral in lattice QCD. (English summary) **93m:81156**

Tanimura, O. *see* **Tanimura, N., 93m:81156**

Toms, David J. *see* **Epp, R. J.; et al., 93k:81258**

Trias, A. *see* **Buendía, G. M., 93g:81202**

Velázquez, L. *see* **Cortés, J. L.; et al., 93e:81147**

Wei, Jiansu (*with* Baylis, W. E.) Monopoles without strings: a conflict between the one-photon condition and duality invariance. **93a:81213**

Wijewardhana, L. C. R. *see* **Semenoff, Gordon W., 93h:81148**

Yajima, Kenji Existence, uniqueness and some properties of Schrödinger propagators. (*see* **93e:81007**)

Items with secondary classifications in 81V10

Aaberge, T. A Lorentz covariant description of the classical radiation field. (English summary) **93j:78004**

Akhiezer, A. I. (*with* Shul'ga, N. F.) Quasiclassical theory of radiation emission from high-energy particles in an external field and the problem of boundary conditions. (Russian) **93g:78012**

Allen, Bruce (*with* Ottewill, Adrian C.) Gauge independence in Hadamard renormalization. **93i:81152**

Ashtekar, Abhay (*with* Rovelli, Carlo) A loop representation for the quantum Maxwell field. **93h:83021**

— (*with* Rovelli, Carlo; Smolin, Lee) Self-duality and quantization. **93c:81243**

Baylin, M. *see* **Ragusa, S., 93a:78010**

Bender, Carl M. (*with* Milton, Kimball A.; Moshe, Moshe) δ expansion for local gauge theories. II. Nonperturbative calculation of the anomaly in the Schwinger model. **93g:81086**

Bentosela, F. Stark-Wannier resonant states. (English summary) **93f:82057**

Berman, G. P. (*with* Bulgakov, E. N.; Zaslavskii, G. M.) Quantum chaos of atoms in a resonant cavity. **93d:81046**

Bulgakov, E. N. *see* **Berman, G. P.; et al., 93d:81046**

Calucci, Giorgio Casimir effect for moving bodies. **93c:81107**

Chaudhary, Prakash (*with* Rajput, Balwant Singh) Role of six-current in six-space. (English summary) **93h:81049**

Cho, Y. M. (*with* Kim, Jewan; Park, D. H.) Fermionic vortex solutions in Chern-Simons electrodynamics. **93a:81125**

Combes, J.-M. (*with* Hislop, Peter D.) Stark ladder resonances for small electric fields. **93c:81040**

Contopanagos, H. F. (*with* Einhorn, Martin B.) Interpretation of the asymptotic S matrix for massless particles. **93a:81138**

Davies, M. J. (*with* Truman, Aubrey) Point sources, constant magnetic fields and Shucker's theorem in stochastic mechanics. (English summary) **93h:81018**

Delbourgo, Roger (*with* Triyanta) Equivalence between the Fock-Schwinger gauge and the Feynman gauge. (English summary) **93e:81071**

Diamantini, Maria Cristina (*with* Link, Robert; Sodano, Pasquale) Chern-Simons effective action for nonrelativistic planar electrons. (English summary) **93h:81082**

Dodonov, V. V. (*with* Man'ko, V. I.; Osipov, D. L.) A gradient-invariant Weyl representation. An oscillator in a nonuniform magnetic field. (Russian. Russian summary) **93h:81069**

Dynnikov, I. A. A proof of S. P. Novikov's conjecture for the case of small perturbations of rational magnetic fields. (Russian) **93h:58039**

Eberlein, Claudia Fluctuations of Casimir forces on finite objects. I. Spheres and hemispheres. **93e:81140**

— Fluctuations of Casimir forces on finite objects. II. Flat circular disk. **93e:81141**

Einhorn, Martin B. *see* **Contopanagos, H. F., 93a:81138**

Elitzur, S. (*with* Forge, A.; Rabinovici, E.) Comments on the importance of being over-constrained. (English summary) **93f:81151**

Flores, J. C. Diffusion in momentum space for systems in a random time-dependent electric field: the 1D hydrogen atom. **93c:81049**

Forge, A. *see* **Elitzur, S.; et al., 93f:81151**

Galgani, Luigi The quest for Planck's constant in classical physics. (English summary) (*see* **93g:81002**)

Gerlach, Ulrich H. Cavity quantum-electrodynamical response to a gravitational wave. (English summary) **93i:83037**

Graham, Robert (*with* Höhnerbach, Michael) Quantum effects on the multiphoton dissociation of a diatomic molecule. **93c:81276**

Grecchi, Vincenzo (*with* Maioli, Marco; Sacchetti, Andrea) Horn of singularities for the Stark-Wannier ladders. **93f:81032**

Herman, R. M. Classical origins of the Aharonov-Bohm effect. **93a:81013**

Hillion, Pierre T. M. Nondispersive wave representation of photons. (English summary) **93j:78006**

Hislop, Peter D. *see* **Combes, J.-M., 93c:81040**

Höhnerbach, Michael *see* **Graham, Robert, 93c:81276**

Jerome, Joseph W. Evolution systems in semiconductor device modeling: a cyclic uncoupled line analysis for the Gummel map. (English summary) **93i:82087**

Jha, Pradip K. (*with* Tripathy, Kishor C.) Symmetries of the renormalization group equations. **93d:81123**
Karlhede, Anders (*with* Westerberg, Erik) Anyons in a magnetic field. **93c:81057**
Keller, Jaime (*with* Viniegra, Fermin) The multivector structure of the matter and interaction field theories. (English summary) **93i:81077**
Kim, Jewan *see* **Cho, Y. M.; et al., 93a:81125**
King, Christopher K. Scattering theory for a model of an atom in a quantized field. (English summary) **93i:81290**
Kucheryavii, V. I. The Bogolyubov-Parasyuk R-operation in quantum field theory (a survey). (Ukrainian. English, Russian and Ukrainian summaries) **93g:81103**
Kuperin, Yu. A. (*with* Mel'nikov, Yu. B.[1]) Two-body resonance scattering and annihilation of composite charged particles. **93d:81184**
Link, Robert *see* **Diamantini, Maria Cristina; et al., 93h:81082**
Maioli, Marco *see* **Grecchi, Vincenzo; et al., 93f:81032**
Man'ko, V. I. *see* **Dodonov, V. V.; et al., 93h:81069**
Martin, Philippe André[1] (*with* Sassoli de Bianchi, M.) On the theory of the Larmor clock and time delay. **93m:81151**
Matsumoto, Hiroyuki[2] On the integrated density of states for the Schrödinger operators with certain random electromagnetic potentials. **93m:35051**
Mel'nikov, Yu. B.[1] *see* **Kuperin, Yu. A., 93d:81184**
Meyer, Hans-Dieter The CI optical potential and its equivalence with the Schwinger multichannel formalism. **93c:81262**
Milton, Kimball A. *see* **Bender, Carl M.; et al., 93g:81086**
Mitra, Pritha (*with* Roy Chowdhury, A.) On a Painlevé analysis and prolongation structure for SIT equations with quadratic Stark effect. **93c:35137**
Mohamed, Abdérémane Estimations semi-classiques pour l'opérateur de Schrödinger à potentiel de type coulombien et avec champ magnétique. (English summary) [Semiclassical estimates for the Schrödinger operator with Coulomb potential and magnetic field] **93f:81038**
Moshe, Moshe *see* **Bender, Carl M.; et al., 93g:81086**
Narnhofer, Heide *see* **Thirring, W., 93m:81094**
Novotný, J. Supersymmetry and the four-dimensional counterpart of dimensional regularization. **93a:81134**
Osipov, D. L. *see* **Dodonov, V. V.; et al., 93h:81069**
Ottewill, Adrian C. *see* **Allen, Bruce, 93i:81152**
Park, D. H. *see* **Cho, Y. M.; et al., 93a:81125**
Pearle, Philip Relativistic model for statevector reduction. **93d:81019**
Pham Le Kien (*with* Shumovskii, A. S.) Interaction of an atom with a cavity radiation field. **93b:81322**
Rabinovici, E. *see* **Elitzur, S.; et al., 93f:81151**
Ragusa, S. (*with* Baylin, M.) Electromagnetic first-order conservation laws in a medium. **93a:78010**
Rajput, Balwant Singh *see* **Chaudhary, Prakash, 93h:81049**
Rawnsley, John Exact symplectic structures and a classical model for the Dirac electron. **93f:58082**
Rovelli, Carlo *see* **Ashtekar, Abhay; et al., 93c:81243** *and* **93h:83021**
Roy Chowdhury, A. *see* **Mitra, Pritha, 93c:35137**
Sacchetti, Andrea *see* **Grecchi, Vincenzo; et al., 93f:81032**
Saradzhev, F. M. The chiral Schwinger model. Nonintegrable phase dynamics. **93c:81111**
Sassoli de Bianchi, M. *see* **Martin, Philippe André[1], 93m:81151**
Sen Gupta, N. D. Dirac particle in a spatially periodic magnetic field. (English summary)
Shul'ga, N. F. *see* **Akhiezer, A. I., 93g:78012**
Shumovskii, A. S. *see* **Pham Le Kien, 93b:81322**
Sjöstrand, Johannes Magnetic Schrödinger operators and effective Hamiltonians. (*see* **93e:81007**)
— Density of states oscillations for magnetic Schrödinger operators. **93g:35011**
Smolin, Lee *see* **Ashtekar, Abhay; et al., 93c:81243**
Sobouti, Y. *see* **Tahmasebi, M. J., 93k:81044**
Sodano, Pasquale *see* **Diamantini, Maria Cristina; et al., 93h:81082**
Sun, Zi Qi An inverse boundary value problem for Schrödinger operators with vector potentials. (English summary) **93j:35066**
Tahmasebi, M. J. (*with* Sobouti, Y.) Exact solutions of Schrödinger's equation for spin systems in a class of time dependent magnetic fields. II. (English summary) **93k:81044**
Takagi, Shin Quantum dynamics and noninertial frames of reference. III. Charged particle in time-dependent uniform electromagnetic field. **93c:81036**
Thirring, W. (*with* Narnhofer, Heide) Covariant QED without indefinite metric. (English summary) **93m:81094**
Tolksdorf, Jürgen The generalized radiation gauge in curved space-time. **93h:83027**
— An investigation of the $\mathscr{R}^2$ gravity, with respect to the symmetry of a massless pointlike particle. **93i:81257**
Tripathy, Kishor C. *see* **Jha, Pradip K., 93d:81123**
Triyanta *see* **Delbourgo, Roger, 93e:81071**
Truman, Aubrey *see* **Davies, M. J., 93h:81018**
Viniegra, Fermin *see* **Keller, Jaime, 93i:81077**
Vugal'ter, S. A. (*with* Zhislin, G. M.) The discrete spectrum of given SO(2) symmetry of multiparticle systems in a potential and a homogeneous magnetic field. (Russian. English summary) **93c:81042**
Wang, Xue Ping[1] Weak coupling asymptotics of Schrödinger operators with Stark effect. **93k:81248**
Westerberg, Erik *see* **Karlhede, Anders, 93c:81057**
White, Denis A. W. Modified wave operators and Stark Hamiltonians. **93m:47058**
Zaslavskii, G. M. *see* **Berman, G. P.; et al., 93d:81046**
Zhislin, G. M. *see* **Vugal'ter, S. A., 93c:81042**

81V15 Weak interaction

Arnowitt, R. *see* **Nath, Pran, (93a:81004)**
Cottingham, W. N. (*with* Hasan, N.) The fall of the sphaleron. (English summary) **93j:81112**
Hasan, N. *see* **Cottingham, W. N., 93j:81112**
Iachello, F. q-algebras as spectrum generating algebras. (English summary) (*see* **93e:81150**)
Nath, Pran (*with* Arnowitt, R.) Implications in the electroweak region of Calabi-Yau string theory. (*see* **93a:81004**)

Items with secondary classifications in 81V15

Asanov, G. S. (*with* Kiselev, M. V.) Comparing the Finslerian gauge approach with the SU(3) × SU(2) × U(1)-model. **93c:81117**
Coquereaux, Robert Connections, metrics, symmetries and scalar fields in commutative and noncommutative geometry. **93e:58009**
Dubois-Violette, Michel (*with* Madore, J.; Kerner, Richard) Super matrix geometry. **93b:58014**
Ferretti, G. Chiral symmetry breaking in matrix quantum mechanics. **93g:81030**
Gavrilov, S. P. Interaction representation in the formalism of operator BRST-quantization for the standard electroweak theory in the R_ξ-gauge. (Russian. Russian summary) **93m:81146**
Kerner, Richard *see* **Dubois-Violette, Michel; et al., 93b:58014**
Kiselev, M. V. *see* **Asanov, G. S., 93c:81117**
Madore, J. *see* **Dubois-Violette, Michel; et al., 93b:58014**

81V17 Gravitational interaction

Balakrishna, B. S. (*with* Wali, Kameshwar C.) Bogomol'nyĭ equations in the Einstein-Yang-Mills-Higgs system. (English summary) **93i:81298**
Bramson, B. D. Quantum-mechanical, gravitating Kerr-Newton particles. (English summary) **93i:81299**
van Dam, Hendrik *see* **Frampton, Paul H.; et al., 93i:81300**
De Sabbata, Venzo (*with* Sivaram, C.) Anyons and torsion. (English summary) **93m:81157**
Elbaz, E. *see* **Novello, M., 93m:81158**
Frampton, Paul H. (*with* Ng, Y. Jack; van Dam, Hendrik) Possible solution of strong CP problem in generalized unimodular gravity. (English summary) **93i:81300**
Magnon, Anne Commutative asymptotic limit of a quasi-SU(2) formulation of general relativity. **93e:81148**
Morsink, Sharon M. Spinor particles and black holes in 1 + 1 dimensions. **93d:81190**
Ng, Y. Jack *see* **Frampton, Paul H.; et al., 93i:81300**
Novello, M. (*with* Elbaz, E.) Electrodynamics, gravity and the corresponding short-range Fermi forces. (English summary) **93m:81158**
Rosales, J. L. (*with* Sánchez-Gómez, J. L.) Nonlinear Schrödinger equation coming from the action of the particle's gravitational field on the quantum potential. **93c:81273**
Sánchez-Gómez, J. L. *see* **Rosales, J. L., 93c:81273**
Sivaram, C. *see* **De Sabbata, Venzo, 93m:81157**
Wali, Kameshwar C. *see* **Balakrishna, B. S., 93i:81298**
Wheeler, James T. SU(3) × SU(2) × U(1): the residual symmetry of conformal gravity. **93k:81261**

Items with secondary classifications in 81V17

Agnese, A. G. (*with* La Camera, M.) Gravitational field of a gauge monopole. (English summary)
Allen, Bruce (*with* McLaughlin, John G.; Ottewill, Adrian C.) Photon and graviton Green's functions on cosmic string space-times. **93c:83043**
Anselmi, Damiano Functional integration measure in quantum gravity. **93c:83044**
Antoniadis, Ignatios (*with* Gava, E.; Narain, K. S.) Moduli corrections to gravitational couplings from string loops. **93c:81159**
Ashtekar, Abhay (*with* Rovelli, Carlo; Smolin, Lee) Weaving a classical metric with quantum threads. **93c:83045**
Bacry, H. Le spin et la relativité restreinte. (English and French summaries) [Spin and special relativity] **93j:83005**
Baekler, P. (*with* Mielke, Eckehard W.; Hehl, Friedrich W.) Dynamical symmetries in topological 3D gravity with torsion. **93d:83053**
Baĭkov, P. A. (*with* Hayashi, Masaki; Nelipa, N. F.; Ostapchenko, S.) Ghost- and tachyon-free gauge-invariant, Poincaré, affine and projective Lagrangians. **93c:83091**
Bellucci, Stefano Supersymmetry in anti-de Sitter space. (English summary) **93f:81094**
Bezerra, Valdir B. Loop variables in three-dimensional gravity. (English summary) **93e:83053**
von Borzeszkowski, Horst-Heino (*with* Roy, Sisir) Jordan-Fock type uncertainty relations and cut-off lengths in quantum general relativity. (English summary) **93h:83022**
Botelho, Luiz C. L. The Wheeler-DeWitt equation as a functional diffusion equation. (*see* **93b:81004**)
Brovkin, L. Yu. Separation of the gauge-group volume, and the one-loop functional integral in quantum gravity. (Russian)
Burwick, T. T. (*with* Chamseddine, A. H.; Meissner, K. A.) Matter coupling and spontaneous symmetry breaking in topological gravity. **93c:81195**
Campbell, Bruce A. (*with* Kaloper, Nemanja; Olive, Keith A.) Classical hair for Kerr-Newman black holes in string gravity. **93f:83082**
Campos, A. (*with* Verdaguer, E.) Production of spin-$\frac{1}{2}$ particles in inhomogeneous cosmologies. **93c:83065**
Cangemi, D. (*with* Lee, Choonkyu) Self-dual Chern-Simons solitons in (2 + 1)-dimensional Einstein gravity. (English summary) **93g:81088**
Capovilla, Riccardo Nonminimally coupled scalar field and Ashtekar variables. (English summary) **93g:83006**
Cappelli, Andrea Classical dynamics of point particles in 2 + 1 gravity. (English summary) **93f:81079**
Casher, A. (*with* Englert, F.) Entropy generation in quantum gravity. (English summary) **93g:83044**
Chamseddine, A. H. Topological gravity and supergravity in various dimensions. **93e:83069**
— Topological gravity and supergravity. **93e:83034**
— *see also* **Burwick, T. T.; et al., 93c:81195**
Chapline, George Quantum model for space-time. **93g:83045**
Comtet, Alain (*with* Khare, Avinash) Self-dual Maxwell-Chern-Simons vortices in the background of gravity. **93a:81126**

Crumeyrolle, A. Supergravity, supersymmetry: a geometric unitary spinor theory. (English summary) **93m:83082**
David, François Louis Matrix models and 2-D gravity. **93c:81201**
Dayi, Ömer F. (*with* Müller-Kirsten, H. J. W.; Shurgaya, A. V.; Tchrakian, D. H.) Model of a superconducting cosmic string. (English summary) **93e:83072**
D'Eath, P. D. (*with* Dowker, H. F.; Hughes, D. I.) Supersymmetric quantum wormhole states. **93c:83049**
Deser, S. Gravity and gauge theories in three dimensions. **93c:81121**
DeWitt, Bryce S. The uses and implications of curved-spacetime propagators: a personal view. **93k:81155**
Dias, João-Paulo (*with* Povoas, Maria) A variant of the Euler-Poisson-Darboux equation arising in quantum gravity. (English and French summaries) **93k:35202**
Donets, E. E. (*with* Gal'tsov, D. V.) Continuous family of Einstein-Yang-Mills wormholes. (English summary) **93i:83027**
— (*with* Gal'tsov, D. V.) Continuous family of Einstein-Yang-Mills wormholes. (English summary) **93k:83015**
Dowker, H. F. *see* **D'Eath, P. D.; et al., 93c:83049**
Dragon, Norbert Regular gravitational Lagrangians. **93h:81138**
Dray, Tevian (*with* Kulkarni, Ravi S.; Manogue, Corinne A.) Scalar field quantization in stationary, nonstatic spacetimes. (English summary) **93j:83046**
Elitzur, S. (*with* Forge, A.; Rabinovici, E.) Comments on the importance of being over-constrained. (English summary) **93f:81151**
Elizalde, E. (*with* Odintsov, S. D.) Renormalization of 2D quantum gravity with matter in connection with black holes. (Russian) **93f:83037**
Ellis, Jonathan Richard (*with* Mavromatos, N. E.; Nanopoulos, D. V.) On the connection between quantum mechanics and the geometry of two-dimensional strings. **93b:81211**
— (*with* Mavromatos, N. E.; Nanopoulos, D. V.) Measuring W-hair. **93c:81165**
— (*with* Mavromatos, N. E.; Nanopoulos, D. V.) Measuring the W-hair of string black holes. **93c:81166**
— (*with* Mavromatos, N. E.; Nanopoulos, D. V.) World-sheet duality, space-time foam, and the quantum fate of a stringy black hole. (English summary) **93g:83093**
Englert, F. *see* **Casher, A., 93g:83044**
Forge, A. *see* **Elitzur, S.; et al., 93f:81151**
Forsyth, Bruce (*with* Schmidt, Jeffrey Robert) Eigenvalues and invariants for gauged fermions in a gravitational field. (English summary) **93j:81064**
Fülöp, Géza Transformations and BRST-charges in $(2+1)$-dimensional gravitation. (English summary) **93j:81101**
Gal'tsov, D. V. *see* **Donets, E. E., 93i:83027** *and* **93k:83015**
García-Bellido, Juan (*with* Quirós, Mariano) String effective actions and cosmological stability of scalar potentials. (English summary) **93m:81117**
Garfinkle, David Black string traveling waves. (English summary) **93j:83074**
Gates, S. James, Jr. (*with* Nishino, Hitoshi; Ketov, S. V.) Extended supersymmetry and self-duality in $2+2$ dimensions. (English summary) **93j:81099**
Gava, E. *see* **Antoniadis, Ignatios; et al., 93c:81159**
Gerlach, Ulrich H. Cavity quantum-electrodynamical response to a gravitational wave. (English summary) **93i:83037**
Gervais, Jean-Loup Quantum group symmetry of 2D gravity. (English summary) **93h:81120**
Gravel, Pierre How many gravitational 't Hooft instantons are there past the first one? **93g:83023**
Greene, Brian R. (*with* Mathur, Samir D.; O'Neill, Christopher M.) Eluding the no-hair conjecture: black holes in spontaneously broken gauge theories. (English summary) **93k:83048**
Gregory, Ruth (*with* Harvey, Jeffrey A.) Quantum fermion hair. (English summary) **93f:83056**
Grignani, G. (*with* Nardelli, G.) Chern-Simons gravity from $(3+1)$-dimensional gravity. (English summary) **93m:81102**
Grisaru, M. T. *see* **de Wit, B.; et al., 93f:83083**
Gui, Yuan Xing η-ξ spacetime and thermofields. (English summary) **93g:81111**
Guth, Alan H. Creation of a universe in the laboratory. **93b:83066**
Guven, Jemal (*with* Ryan, Michael P., Jr.) Functional integrals and canonical quantum gravity. **93g:83047**
Hájíček, Petr (*with* Kay, Bernard S.; Kuchař, Karel V.) Quantum collapse of a self-gravitating shell: equivalence to Coulomb scattering. (English summary) **93j:83039**
Harvey, Jeffrey A. *see* **Gregory, Ruth, 93f:83056**
Hawking, Stephen W. The alpha parameters of wormholes. **93g:83050**
Hayashi, Masaki *see* **Baĭkov, P. A.; et al., 93c:83091**
Hecht, R. D. (*with* Hehl, Friedrich W.; McCrea, J. Dermott; Mielke, Eckehard W.; Ne'eman, Yuval) Improved energy-momentum currents in metric-affine spacetime. (English summary) **93k:83023**
Hehl, Friedrich W. *see* **Baekler, P.; et al., 93d:83053** *and* **Hecht, R. D.; et al., 93k:83023**
Heusler, Markus (*with* Straumann, Norbert) Scaling arguments for the existence of static, spherically symmetric solutions of self-gravitating systems. (English summary) **93g:83017**
Holzhey, Christoph F. E. (*with* Wilczek, Frank) Black holes as elementary particles. (English summary) **93d:83045**
't Hooft, Gerard More on the black hole S-matrix. **93d:83046**
Hughes, D. I. *see* **D'Eath, P. D.; et al., 93c:83049**
Isham, Chris J. Conceptual and geometrical problems in quantum gravity. (English summary) **93j:83040**
Ivanov, Evgenii Alekseevich² (*with* Niederle, Jiří) $N=1$ supergravity as a nonlinear realization. **93c:83120**
Jain, Sanjay² (*with* Mathur, Samir D.) World-sheet geometry and baby universes in 2D quantum gravity. (English summary) **93d:81160**
Kabat, Daniel N. Conditions for the existence of closed timelike curves in $2+1$ gravity. (English summary) **93f:83008**
Kaloper, Nemanja Lorentz Chern-Simons term and the breakdown of the cosmic no-hair conjecture. **93c:83088**
— *see also* **Campbell, Bruce A.; et al., 93f:83082**
Kapetanakis, D. (*with* Zoupanos, G.) Coset-space-dimensional reduction of gauge theories. (English summary) **93m:83077**
Kar, Sayan An instanton approach to quantum tunnelling for a particle on a rotating circle. (English summary) **93e:81023**
Kay, Bernard S. *see* **Hájíček, Petr; et al., 93j:83039**
Ketov, S. V. *see* **Gates, S. James, Jr.; et al., 93j:81099**
Khare, Avinash *see* **Comtet, Alain, 93a:81126**
Kostelecký, V. Alan (*with* Samuel, Stuart) Gravity and Lorentz breakdown in higher-dimensional theories and strings. (*see* **93a:00022**)
Kuchař, Karel V. *see* **Hájíček, Petr; et al., 93j:83039**
Kulkarni, Ravi S. *see* **Dray, Tevian; et al., 93j:83046**
La Camera, M. *see* **Agnese, A. G.**
Lano, R. P. (*with* Rodgers, V. G. J.) Applications of W algebras to BF theories, QCD and 4D gravity. **93i:81265**
Lavrelashvili, G. (*with* Rubakov, V. A.; Tinyakov, P. G.) Third quantization of gravity and the cosmological constant problem. **93m:83034**
Lechtenfeld, Olaf (*with* Nappi, Chiara R.) Dilaton gravity and no-hair theorem in two dimensions. (English summary) **93g:81160**
Lee, Choonkyu *see* **Cangemi, D., 93g:81088**
Levin, Orit (*with* Peleg, Yoav; Peres, Asher) Quantum detector in an accelerated cavity. (English summary) **93m:83043**
Li, H. S. (*with* Mahanthappa, K. T.) One-loop threshold correction to the coupling of the antisymmetric tensor field and the Chern-Simons term in string theory. (English summary) **93g:81128**
Linde, A. D. Inflationary cosmology. **93c:83126**
Lyons, Alex Wormholes in string theory and low energy quantum gravity. **93c:81177**
Lyons, Glenn W. Complex solutions for the scalar field model of the Universe. (English summary) **93f:83043**
Mahanthappa, K. T. *see* **Li, H. S., 93g:81128**
Maischak, Matthias The gravitational anomalies in de Sitter space. (English summary) **93g:81182**
Mankoč-Borštnik, N. Spin connection as a superpartner of a vielbein. (English summary) **93i:83014**
Manogue, Corinne A. *see* **Dray, Tevian; et al., 93j:83046**
Mashkevich, V. S. Indeterministic theory of gravitation. (Russian. English, Russian and Ukrainian summaries) **93k:83032**
Mathur, Samir D. *see* **Jain, Sanjay², 93d:81160** *and* **Greene, Brian R.; et al., 93k:83048**
Matsuo, Yutaka Current algebra and extended 2D gravity with higher spin gauge field. **93b:81263**
Mavromatos, N. E. *see* **Ellis, Jonathan Richard; et al., 93b:81211; 93c:81165; 93c:81166** *and* **93g:83093**
McCrea, J. Dermott *see* **Hecht, R. D.; et al., 93k:83023**
McLaughlin, John G. *see* **Allen, Bruce; et al., 93c:83043**
Meissner, K. A. *see* **Burwick, T. T.; et al., 93c:81195**
Melek, M. Factorization of the relativistic Pauli equation in the presence of a gravitational field. (English summary) **93i:81079**
Mielke, Eckehard W. *see* **Baekler, P.; et al., 93d:83053** *and* **Hecht, R. D.; et al., 93k:83023**
Modak, Bijan *see* **Sanyal, Abhik Kumar, 93d:83075**
Modanese, Giovanni Vacuum correlations in quantum gravity. (English summary) **93e:83037**
Moss, Ian Gravitational instantons and quantisation of the cosmological constant. **93c:83053**
Müller-Kirsten, H. J. W. *see* **Dayi, Ömer F.; et al., 93e:83072**
Nakazawa, Naohito BRS symmetry in stochastic quantization of gravity. **93c:83054**
Namsrai, Kh. Stochastic strings, topology, and space-time confinement. (English summary) **93i:81281**
Nanopoulos, D. V. *see* **Ellis, Jonathan Richard; et al., 93b:81211; 93c:81165; 93c:81166** *and* **93g:83093**
Nappi, Chiara R. *see* **Lechtenfeld, Olaf, 93g:81160**
Narain, K. S. *see* **Antoniadis, Ignatios; et al., 93c:81159**
Nardelli, G. *see* **Grignani, G., 93m:81102**
Ne'eman, Yuval *see* **Hecht, R. D.; et al., 93k:83023**
Nelipa, N. F. *see* **Baĭkov, P. A.; et al., 93c:83091**
Nicolai, H. *see* **de Wit, B.; et al., 93f:83083**
Niederle, Jiří *see* **Ivanov, Evgenii Alekseevich², 93c:83120**
Nishino, Hitoshi *see* **Gates, S. James, Jr.; et al., 93j:81099**
Odintsov, S. D. Renormalization group, effective action and grand unification theories in curved space-time. **93f:81097**
— *see also* **Elizalde, E., 93f:83037**
Olive, Keith A. *see* **Campbell, Bruce A.; et al., 93f:83082**
O'Neill, Christopher M. *see* **Greene, Brian R.; et al., 93k:83048**
Ooguri, Hirosi (*with* Vafa, Cumrun) Self-duality and $N=2$ string magic. **93h:81101**
Ostapchenko, S. *see* **Baĭkov, P. A.; et al., 93c:83091**
Ottewill, Adrian C. *see* **Allen, Bruce; et al., 93c:83043**
Parker, Leonard (*with* Simon, Jonathan Z.) Einstein equation with quantum corrections reduced to second order. (English summary) **93k:83034**
Peet, Amanda (*with* Susskind, Leonard; Thorlacius, Lárus) Information loss and anomalous scattering. (English summary) **93i:81169**
Peldán, Peter Ashtekar's variables for arbitrary gauge group. (English summary) **93g:83012**
Peleg, Yoav *see* **Levin, Orit; et al., 93m:83043**
Percacci, R. (*with* Russo, Jorge G.) On the propagation of quantum fields at Planckian energies. **93e:83038**
Peres, Asher *see* **Levin, Orit; et al., 93m:83043**
Povoas, Maria *see* **Dias, João-Paulo, 93k:35202**
Preskill, John Semilocal defects. (English summary) **93i:81087**
Prugovečki, Eduard ★ Quantum geometry. **93b:81019**
Quirós, Mariano *see* **García-Bellido, Juan, 93m:81117**
Rabinovici, E. *see* **Elitzur, S.; et al., 93f:81151** *and* **de Wit, B.; et al., 93f:83083**
Ramón-Medrano, M. *see* **de Vega, H. J.; et al., 93c:81187**
Rodgers, V. G. J. *see* **Lano, R. P., 93i:81265**
Rovelli, Carlo *see* **Ashtekar, Abhay; et al., 93c:83045**
Roy, Sisir *see* **von Borzeszkowski, Horst-Heino, 93h:83022**

Rubakov, V. A. *see* **Lavrelashvili, G.; et al., 93m:83034**
Russo, Jorge G. *see* **Percacci, R., 93e:83038**
Ryan, Michael P., Jr. *see* **Guven, Jemal, 93g:83047**
Samuel, Stuart *see* **Kostelecký, V. Alan, (93a:00022)**
Sánchez, Norma String theory and the quantization of gravity. (*see* **93j:83004**)
— *see also* **de Vega, H. J.; et al., 93c:81187**
Sanyal, Abhik Kumar (*with* Modak, Bijan) Extended inflation—a quantum-cosmological survey. (English summary) **93d:83075**
Schmidt, Jeffrey Robert *see* **Forsyth, Bruce, 93j:81064**
Segal, Irving E. (*with* Zhou, Zheng-Fang) Convergence of nonlinear massive quantum field theory in the Einstein universe. (English summary) **93i:81170**
Shishkin, G. V. (*with* Villalba, Víctor M.) Neutrino in the presence of gravitational fields: separation of variables. **93d:81077**
Shurgaya, A. V. *see* **Dayi, Ömer F.; et al., 93e:83072**
Simon, Jonathan Z. *see* **Parker, Leonard, 93k:83034**
Smailagic, A. (*with* Spallucci, Euro) Gravitational and Schwinger model anomalies: how far can the analogy go? **93c:81233**
Smolin, Lee *see* **Ashtekar, Abhay; et al., 93c:83045**
Spallucci, Euro *see* **Smailagic, A., 93c:81233**
Straumann, Norbert *see* **Heusler, Markus, 93g:83017**
Susskind, Leonard *see* **Peet, Amanda; et al., 93i:81169**
Svaiter, B. F. (*with* Svaiter, N. F.) Inertial and noninertial particle detectors and vacuum fluctuations. (English summary) **93m:81110**
Svaiter, N. F. *see* **Svaiter, B. F., 93m:81110**
Tchrakian, D. H. *see* **Dayi, Ömer F.; et al., 93e:83072**
Thorlacius, Lárus *see* **Peet, Amanda; et al., 93i:81169**
Tinyakov, P. G. *see* **Lavrelashvili, G.; et al., 93m:83034**
Tomimatsu, Akira Evaporating black holes in quantum gravity. (English summary) **93g:83074**
Tsamis, N. C. (*with* Woodard, R. P.) Physical Green's functions in quantum gravity. **93f:83045**
Vafa, Cumrun *see* **Ooguri, Hirosi, 93h:81101**
de Vega, H. J. (*with* Ramón-Medrano, M.; Sánchez, Norma) Boson-fermion and fermion-boson transmutations induced by supergravity backgrounds in superstring theory. **93c:81187**
Veneziano, G. Physics with a fundamental length. **93a:81161**
— Quantum string gravity near the Planck scale. **93c:83117**
— Quantum string gravity near the Planck scale. **93e:83067**
Verdaguer, E. *see* **Campos, A., 93c:83065**
Villalba, Víctor M. *see* **Shishkin, G. V., 93d:81077**
Wilczek, Frank *see* **Holzhey, Christoph F. E., 93d:83045**
de Wit, B. (*with* Grisaru, M. T.; Rabinovici, E.; Nicolai, H.) Two-loop finiteness of $D = 2$ supergravity. (English summary) **93f:83083**
Woodard, R. P. *see* **Tsamis, N. C., 93f:83045**
Zhou, Zheng-Fang *see* **Segal, Irving E., 93i:81170**
Zoupanos, G. *see* **Kapetanakis, D., 93m:83077**

81V22 Unified theories

Asatryan, Hrachia M. (*with* Murayama, Akihiro) Toward the realistic three-generation model in the $(2, 0)$ heterotic string compactification. (English summary) **93d:81191**
Bailin, David (*with* Katechou, E. K.; Love, Alex) Flipped SU(5) × U(1) in superconformal models. **93m:81159**
— (*with* Love, Alex) String unification, grand unification and string loop threshold corrections. (English summary) **93h:81149**
Chisholm, J. S. R. (*with* Farwell, R. S.) Unified spin gauge theories of the four fundamental forces. (*see* **93f:00011**)
Farwell, R. S. *see* **Chisholm, J. S. R., (93f:00011)**
Hanlon, B. E. (*with* Joshi, G. C.) A three generation unified model from coset space-dimensional reduction. (English summary)
Jarvis, P. D. (*with* McAnally, David S.) Unified models from gauged supergroups. II. Exceptional series $D(2, 1; \alpha)$, $G(3)$, $F(4)$. **93b:81306**
Joshi, G. C. *see* **Hanlon, B. E.**
Kataoka, H. (*with* Munakata, H.; Sato, Hikaru; Tanaka, S.) Unique flipped SO(10) SUSY-GUT from Z orbifold. (English summary) **93f:81160**
Katechou, E. K. *see* **Bailin, David; et al., 93m:81159**
Kim, Hang Bae (*with* Kim, Jihn E.) An orbifold compactification with three families from twisted sectors. (English summary) **93m:81160**
Kim, Jihn E. *see* **Kim, Hang Bae, 93m:81160**
Love, Alex *see* **Bailin, David, 93h:81149** *and* **93m:81159**
McAnally, David S. *see* **Jarvis, P. D., 93b:81306**
Munakata, H. *see* **Kataoka, H.; et al., 93f:81160**
Murayama, Akihiro *see* **Asatryan, Hrachia M., 93d:81191**
Rączka, R. A baryon standard model for electroweak and strong interactions. (English summary) (*see* **93c:81004**)
Sato, Hikaru *see* **Kataoka, H.; et al., 93f:81160**
Scheck, F. Anomalies, Weinberg angle and a noncommutative geometric description of the standard model. **93c:81274**
Scheich, Christoph M. A. (*with* Schmidt, Michael G.) Phenomenological discussion of the three-generation Gepner model. (English summary) **93m:81161**
Schmidt, Michael G. *see* **Scheich, Christoph M. A., 93m:81161**
Spruck, Joel (*with* Yang, Yi Song) On multivortices in the electroweak theory. I. Existence of periodic solutions. **93g:81203**
— (*with* Yang, Yi Song) On multivortices in the electroweak theory. II. Existence of Bogomol'nyi solutions in $\mathbf{R}^2$. **93g:81204**
Talmadge, Andy A geometric formulation of the Higgs mechanism. **93a:81214**
Tanaka, S. *see* **Kataoka, H.; et al., 93f:81160**
Vachaspati, Tanmay Erratum: "Vortex solutions in the Weinberg-Salam model" [Phys. Rev. Lett. **68** (1992), no. 13, 1977–1980].
Yang, Yi Song *see* **Spruck, Joel, 93g:81203** *and* **93g:81204**

Items with secondary classifications in 81V22

Abel, S. A. Thermodynamic determination of the string vacuum? **93e:81087**
Ananthanarayan, B. A superstring model with R symmetries and low B-L breaking. (English summary) **93f:81102**
Antoci, S. The electromagnetic properties of material media and Einstein's unified field theory. (English summary) **93e:83058**
Antoniadis, Ignatios (*with* Rizos, J.; Tamvakis, K.) Gauge symmetry breaking in the hidden sector of the flipped SU(5) × U(1) superstring model. **93a:81147**
Bailin, David (*with* Love, Alex) Errata: "Fractional charged color singlet states and string unification" [Modern Phys. Lett. A **7** (1992), no. 16, 1485–1495].
— (*with* Love, Alex) String unification and extra matter multiplets below the string scale. **93b:81203**
— (*with* Love, Alex) String unification in $Z_3 \times Z_3$ orbifold models. **93d:81133**
Cho, Y. M. (*with* Zoh, S. W.) Explicit construction of massive spin-two fields in Kaluza-Klein theory. (English summary) **93f:81095**
Connes, Alain (*with* Lott, John) The metric aspect of noncommutative geometry. **93m:58011**
Cottingham, W. N. (*with* Hasan, N.) The fall of the sphaleron. (English summary) **93j:81112**
Dolan, L. (*with* Liu, James T.) Running gauge couplings and thresholds in the type-II superstring. (English summary)
Esposito-Farese, Gilles Superconnections and noncommutative geometry at the service of the standard model. **93c:81122**
Hasan, N. *see* **Cottingham, W. N., 93j:81112**
Huang, Tao (*with* Zhang, Xinmin) Composite sphalerons in the O(3) nonlinear σ-model. **93c:81205**
Iachello, F. q-algebras as spectrum generating algebras. (English summary) (*see* **93e:81150**)
Liu, James T. *see* **Dolan, L.**
Lott, John *see* **Connes, Alain, 93m:58011**
Love, Alex *see* **Bailin, David, 93b:81203; 93d:81133**
Namsrai, Kh. Stochastic strings, topology, and space-time confinement. (English summary) **93i:81281**
Ne'eman, Yuval Yang-Mills-like renormalizability of gauge-affine gravity and indirect applications. **93c:81151**
Nottale, Laurent The theory of scale relativity. (English summary) **93i:81021**
Odintsov, S. D. Renormalization group, effective action and grand unification theories in curved space-time. **93f:81097**
Peldán, Peter Ashtekar's variables for arbitrary gauge group. (English summary) **93g:83012**
Rizos, J. *see* **Antoniadis, Ignatios; et al., 93a:81147**
Saller, H. On the nonparticle structure of gauge interactions. **93i:81144**
Solov'ëv, A. V. *see* **Vladimirov, Yu. S., 93j:83068a** *and* **93j:83068b**
Tamvakis, K. *see* **Antoniadis, Ignatios; et al., 93a:81147**
Vladimirov, Yu. S. (*with* Solov'ëv, A. V.) Generalized Dirac equations for free particles in binary geometric physics. I. A structure of rank $(3, 3; \sigma)$. (Russian) **93j:83068a**
— (*with* Solov'ëv, A. V.) Generalized Dirac equations for free particles in binary geometric physics. II. A structure of rank $(4, 4; \sigma)$. (Russian) **93j:83068b**
Wilczek, Frank Perspectives on particle physics and cosmology. **93g:83101**
Zhang, Xinmin *see* **Huang, Tao, 93c:81205**
Zoh, S. W. *see* **Cho, Y. M., 93f:81095**

81V25 Other elementary particle theory

Axenides, Minos Aspects of Q-matter stability. (English summary) **93g:81205**
Casanova, Gaston Théorie relativiste du nucléon et du doublet Ξ. (English summary) [Relativistic theory of the nucleon and of the doublet Ξ] (*see* **93f:00011**)
Ferrara, Sergio (*with* Porrati, Massimo) Supersymmetric sum rules on magnetic dipole moments of arbitrary-spin particles. (English summary) **93e:81149**
Fradkin, Eduardo Anyons for beginners. (English summary) (*see* **93b:81004**)
Fritzsch, H. The spins inside the proton and chiral symmetry breaking. (*see* **93d:81005**)
Pfister, W. *see* **Stumpf, Harald, 93d:81192**
Porrati, Massimo *see* **Ferrara, Sergio, 93e:81149**
Stumpf, Harald (*with* Pfister, W.) Yang-Mills dynamics as an effective theory of composite vector bosons. **93d:81192**
Yabu, Hiroyuki The SU(3) chiral solitons and the exact collective method. (English summary) **93k:81262**

Items with secondary classifications in 81V25

Balakrishna, B. S. (*with* Gürsey, Feza; Nguyen Ai Viet; Wali, Kameshwar C.) Towards a unified treatment of Yang-Mills and Higgs fields: a supersymmetric extension. (English summary) **93j:81098**
Bars, Itzhak (*with* Sfetsos, Konstadinos) Global analysis of new gravitational singularities in string and particle theories. (English summary) **93g:81119**
Brax, Ph. On the emergence of asymptotic localization for some random diffusion processes. **93h:82076**
Chan, Ling-Lie (*with* Yu, Yue) Unitary polynomials in normal matrix models and wave functions for the fractional quantum Hall effects. **93d:81151**
Connes, Alain (*with* Lott, John) Particle models and noncommutative geometry. **93a:58015**
Coquereaux, Robert (*with* Esposito-Farese, Gilles) Right-invariant metrics on the Lie group SU(3) and the Gell-Mann-Okubo formula. **93b:22039**
Damgaard, P. H. (*with* Nielsen, Holger Bech; Sollacher, R.) Smooth bosonization: the Cheshire cat revisited. (English summary) **93g:81195**
Esposito-Farese, Gilles *see* **Coquereaux, Robert, 93b:22039**
Grübl, Gebhard (*with* Vogl, Raimund) Boost action on external field problems. **93b:81252**
Gürsey, Feza *see* **Balakrishna, B. S.; et al., 93j:81098**
Ho, Choon Lin (*with* Hosotani, Yutaka) Anyon equation on a torus. (English summary) **93i:81166**
Hosotani, Yutaka *see* **Ho, Choon Lin, 93i:81166**
Kaplunovsky, Vadim S. Erratum: "One-loop threshold effects in string unification" [Nuclear Phys. B **307** (1988), no. 1, 145–156; MR 89f:81254]. **93g:81126**

Krewald, S. (*with* Nakayama, K.) A new interpretation of dimensional regularization. **93b:81145**
Lai, Choy-Heng *see* **Ting, Christopher, 93d:82056**
Leutwyler, H. Chiral effective Lagrangians. (*see* **93d:81005**)
Lott, John *see* **Connes, Alain, 93a:58015**
Misra, S. P. ★ Introduction to supersymmetry and supergravity. **93m:81001**
Nakayama, K. *see* **Krewald, S., 93b:81145**
Nguyen Ai Viet *see* **Balakrishna, B. S.; et al., 93j:81098**
Nielsen, Holger Bech *see* **Damgaard, P. H.; et al., 93g:81195**
(Rama Rao, P.) *see* **Misra, S. P., 93m:81001**
Sfetsos, Konstadinos *see* **Bars, Itzhak, 93g:81119**
Sollacher, R. *see* **Damgaard, P. H.; et al., 93g:81195**
Temple-Raston, M. Dyons in topological field theories. **93b:81169**
Ting, Christopher (*with* Lai, Choy-Heng) Braid group representation and fractional quantum Hall effect. **93d:82056**
Vogl, Raimund *see* **Grübl, Gebhard, 93b:81252**
Wali, Kameshwar C. *see* **Balakrishna, B. S.; et al., 93j:81098**
Yu, Yue *see* **Chau, Ling-Lie, 93d:81151**

81V35 Nuclear physics

Adams, Barry G. Unified treatment of high-order perturbation theory for the Stark effect in a two- and three-dimensional hydrogen atom. (English summary) **93i:81301**
Avramenko, V. I. (*with* Blokhin, A. L.) Effective Hamiltonian within the microscopic unitary nuclear model. II. The study of sd nuclei with two valence particles. **93b:81310**
Balantekin, A. B. (*with* Castaños, O.; Moshinsky, M.) Relations between the nuclear shell model Hamiltonian and the orthosymplectic superalgebra Osp(1|2). **93b:81307**
Balian, Roger (*with* Vénéroni, Marcel) Correlations and fluctuations in static and dynamic mean-field approaches. **93g:81206**
Blokhin, A. L. *see* **Filippov, G. F., 93b:81309** *and* **Avramenko, V. I., 93b:81310**
Bonatsos, Dennis Quantum algebras in nuclear physics. (English summary) (*see* **93e:81150**)
— (*with* Faessler, Amand; Raïchev, P. P.; Roussev, R. P.; Smirnov, Yu. F.) $B(E2)$ transition probabilities in the q-rotator model with $SU_q(2)$ symmetry. **93b:81308**
Castaños, O. Recent developments in the pseudo-symplectic model. (English summary) (*see* **93e:81150**)
— (*with* Moshinsky, M.; Quesne, C.) Transformations from U(3) to pseudo U(3) basis. (English summary) (*see* **93e:81150**)
— *see also* **Balantekin, A. B.; et al., 93b:81307**
Catto, Isabelle On some vector-valued nonlinear variational problems: variations on the Skyrme-Hartree-Fock model in nuclear physics. (English summary) **93m:81162**
Cseh, J. Dynamic versus kinematic symmetry breaking in a two-dimensional model of collective motion. (English summary)
Dang, G. Do *see* **Klein, Abraham; et al., 93f:81161**
(Draayer, J. P.) *see* **Group theory and special symmetries in nuclear physics, 93e:81150**
Faessler, Amand *see* **Bonatsos, Dennis; et al., 93b:81308**
Fefferman, Charles (*with* Ivrii, V. Ya.; Seco, Luis A.; Sigal, I. M.) The energy asymptotics of large Coulomb systems. **93h:81150**
Filippov, G. F. (*with* Blokhin, A. L.) Effective Hamiltonian within the microscopic unitary nuclear model. I. Coherent-state restriction technique for microscopic Hamiltonian. **93b:81309**
Hashimoto, Yukio (*with* Iwasawa, K.; Marumori, T.; Sakata, F.) A microscopic theory of dissipative nuclear collective motions. **93a:81215**
(Hecht, K. T.) *see* **Group theory and special symmetries in nuclear physics, 93e:81150**
Hilton, R. R. On the coexistence of collective and single particle aspects of the giant angle dipole. **93g:81207**
Iachello, F. (*with* Van Isacker, P.) ★ The interacting boson-fermion model. **93m:81163**
Ivrii, V. Ya. *see* **Fefferman, Charles; et al., 93h:81150**
Iwasawa, K. *see* **Hashimoto, Yukio; et al., 93a:81215**
(Jänecke, J.) *see* **Group theory and special symmetries in nuclear physics, 93e:81150**
Klein, Abraham (*with* Walet, Niels R.; Dang, G. Do) Quantum corrections to the cranking model. (English summary) **93f:81161**
— *see also* **Zhang, Qing Ying, 93i:81302**
Kuriyama, Atsushi *see* **Yamamura, Masatoshi; et al., 93k:81263**
Marumori, T. *see* **Hashimoto, Yukio; et al., 93a:81215**
Moshinsky, M. (*with* del Sol Mesa, A.) Transformation from a U(3) to a pseudo U(3) basis of the matrix representation of a deformed Nilsson Hamiltonian. (English and Spanish summaries)
— *see also* **Balantekin, A. B.; et al., 93b:81307** *and* **Castaños, O.; et al., (93e:81150)**
da Providência, João *see* **Yamamura, Masatoshi; et al., 93k:81263**
Quesne, C. *see* **Castaños, O.; et al., (93e:81150)**
Raïchev, P. P. *see* **Bonatsos, Dennis; et al., 93b:81308** *and* **Roussev, R. P.; et al., 93d:81193**
Ren, Zhong Zhou Analytic solutions to Wigner hypermultiple states. (Chinese. Chinese summary)
Roussev, R. P. (*with* Raïchev, P. P.; Smirnov, Yu. F.) Generating function for the interacting vector boson model. II. Invariant operators of IVBM. (Russian summary) **93d:81193**
— *see also* **Bonatsos, Dennis; et al., 93b:81308**
Sakata, F. *see* **Hashimoto, Yukio; et al., 93a:81215**
Seco, Luis A. *see* **Fefferman, Charles; et al., 93h:81150**
Sigal, I. M. *see* **Fefferman, Charles; et al., 93h:81150**
Smirnov, Yu. F. *see* **Bonatsos, Dennis; et al., 93b:81308** *and* **Roussev, R. P.; et al., 93d:81193**
del Sol Mesa, A. *see* **Moshinsky, M.**
Vanagas, V. The microscopic approach to the interacting boson model. (Russian and Lithuanian summaries) **93c:81275**
Van Isacker, P. *see* **Iachello, F., 93m:81163**
Vénéroni, Marcel *see* **Balian, Roger, 93g:81206**
Walet, Niels R. *see* **Klein, Abraham; et al., 93f:81161**
Wybourne, B. G. The representation space of the nuclear symplectic $Sp(6,\mathbf{R})$ shell model. (English summary) **93g:81208**
Yamamura, Masatoshi (*with* Kuriyama, Atsushi; da Providência, João) On the canonical equivalence of classical boson expansions for mixed states. (English summary) **93k:81263**
Zhang, Qing Ying (*with* Klein, Abraham) On the problem of analytic boson realizations of vacuum irrepresentations of an Sp(8) in the shell model algebra. (Chinese. English and Chinese summaries) **93i:81302**

Items listed otherwise than by author

Ann Arbor, MI ★ Group theory and special symmetries in nuclear physics. **93e:81150**
Group theory and special symmetries in nuclear physics ★ Group theory and special symmetries in nuclear physics. **93e:81150**
Symposium:
Group Theory and Special Symmetries in Nuclear Physics ★ Group theory and special symmetries in nuclear physics. **93e:81150**

Items with secondary classifications in 81V35

Adhikari, Sadhan K. Complex Kohn variational principle for the solution of Lippmann-Schwinger equations. (English summary) **93k:81253**
Alhassid, Y. (*with* Leviatan, A.) Partial dynamical symmetry. (English summary) **93k:81069**
Avancini, S. S. *see* **Menezes, D. P.; et al., 93i:81094**
Batchelor, Andrew (*with* Truman, Aubrey) Hitting, killing and capturing in Nelson's stochastic mechanics. **93f:81024**
Bernath, M. *see* **Fendrik, A. J.; et al., 93b:58098**
Biedenharn, L. C. Resolving the problem posed by multiplicity in the unitary groups. (English summary) (*see* **93e:81150**)
Bonatsos, Dennis (*with* Faessler, Amand; Raïchev, P. P.; Roussev, R. P.; Smirnov, Yu. F.) An exactly soluble nuclear model with $SU_q(3) \supset SU_q(2) \supset SO_q(2)$ symmetry. **93b:81105**
Bourdeau, Michelle Hilda (*with* Sorkin, R. D.) When can identical particles collide? **93c:81039**
Cândido Ribeiro, M. A. *see* **Galetti, D., 93b:81068**
Casati, Giulio Quantum localization and fluctuations. (*see* **93e:81003**)
Chaïka, O. G. *see* **Girko, V. L., 93d:60058**
Choquet-Bruhat, Yvonne (*with* Noutchegueme, N.) Yang-Mills Vlasov systems. (English summary) **93i:81133**
Dorso, C. O. *see* **Fendrik, A. J.; et al., 93b:58098**
Exner, P. (*with* Truman, Aubrey) Models of K-capture decay: stochastic vs. quantum mechanics. (English summary) **93i:81304**
Faessler, Amand *see* **Bonatsos, Dennis; et al., 93b:81105**
Fendrik, A. J. (*with* Vega, J. L.; Dorso, C. O.; Bernath, M.) Chaos in billiards of nuclear interest. **93b:58098**
Flynn, William G. *see* **Littlejohn, Robert G., 93a:81044**
Galetti, D. (*with* Cândido Ribeiro, M. A.) A semiclassical description of nonlocal effects on barrier transmission. **93b:81068**
Geyer, H. B. *see* **Klein, Abraham; et al., (93e:81150)**
Girko, V. L. (*with* Chaïka, O. G.) Moments of spectral distribution functions of the distances between neighboring eigenvalues of random matrices. (Russian) **93d:60058**
Grama, Cornelia (*with* Grama, N.; Zamfirescu, I.) Global method for all S-matrix poles identification: new classes of poles and resonant states. (English summary) **93i:81283**
Grama, N. *see* **Grama, Cornelia; et al., 93i:81283**
Hahne, F. J. W. *see* **Klein, Abraham; et al., (93e:81150)**
Kibler, Maurice *see* **Tuszyński, J. A., 93f:81051**
Klein, Abraham (*with* Walet, Niels R.; Geyer, H. B.; Hahne, F. J. W.) Vector coherent state, quantized Bogoliubov transformation, and boson expansions. (English summary) (*see* **93e:81150**)
Kuo, Thomas T. S. (*with* Osnes, Eivind) ★ Folded-diagram theory of the effective interaction in nuclei, atoms and molecules. **93e:81152**
Leviatan, A. *see* **Alhassid, Y., 93k:81069**
Levine, Raphael D. *see* **Wehrhahn, Rodolfo, 93a:81208**
Lions, Pierre-Louis On some minimization problems in mathematical physics: how to check strict subadditivity conditions? **93m:49002**
Littlejohn, Robert G. (*with* Flynn, William G.) Semiclassical theory of spin-orbit coupling. **93a:81044**
Marshalek, Eugene R. A new boson realization for the isotropic three-dimensional oscillator. (English summary) **93i:81055**
Menezes, D. P. (*with* Avancini, S. S.; Providência, C.) Quantum algebraic description of the Moszkowski model. (English summary) **93i:81094**
Ne'eman, Yuval Yang-Mills-like renormalizability of gauge-affine gravity and indirect applications. **93c:81151**
Noutchegueme, N. *see* **Choquet-Bruhat, Yvonne, 93i:81133**
Osnes, Eivind *see* **Kuo, Thomas T. S., 93e:81152**
Pozdneev, S. A. Application of quantum scattering theory for calculations of various processes in nuclear, atomic and molecular physics. (Russian. English summary) **93c:81261**
Próchniak, Leszek (*with* Szpikowski, Stanisław) Boson expansion method of the Dyson-Maleev type for the fermion algebra sp(6). (Polish summary) **93e:81048**
Providência, C. *see* **Menezes, D. P.; et al., 93i:81094**
Raïchev, P. P. *see* **Bonatsos, Dennis; et al., 93b:81105**
Reinhard, P.-G. (*with* Suraud, E.) Stochastic TDHF and the Boltzman-Langevin equation. **93g:81064**
Roussev, R. P. *see* **Bonatsos, Dennis; et al., 93b:81105**
Rowe, D. J. Recent advances in vector coherent state theory. (English summary) (*see* **93e:81150**)
Smirnov, Yu. F. *see* **Bonatsos, Dennis; et al., 93b:81105**
Sobouti, Y. *see* **Tahmasebi, M. J., 93k:81044**
Sorkin, R. D. *see* **Bourdeau, Michelle Hilda, 93c:81039**
Suraud, E. *see* **Reinhard, P.-G., 93g:81064**
Szpikowski, Stanisław *see* **Próchniak, Leszek, 93e:81048**
Tahmasebi, M. J. (*with* Sobouti, Y.) Exact solutions of Schrödinger's equation for spin systems in a class of time dependent magnetic fields. II. (English summary) **93k:81044**
Truman, Aubrey *see* **Batchelor, Andrew, 93f:81024** *and* **Exner, P., 93i:81304**

Tuszyński, J. A. (*with* Kibler, Maurice) The formation of coherent structures in strongly interacting q-boson systems. **93f:81051**
Vega, J. L. *see* **Fendrik, A. J.; et al., 93b:58098**
Walet, Niels R. *see* **Klein, Abraham; et al., (93e:81150)**
Wehrhahn, Rodolfo (*with* Levine, Raphael D.) Symmetry scattering for systems with internal structure. **93a:81208**
Yan, Xin Li Fixed-point theorems for mixed monotone operators and their applications. (Chinese. English summary) **93d:47106**
Zamfirescu, I. *see* **Grama, Cornelia; et al., 93i:81283**

81V45 Atomic physics

Abramov, D. I. (*with* Gusev, V. V.) The Coulomb two-centre problem near the boundary of the continuous spectrum. **93a:81216**
Alon, Ofir E. (*with* Moiseyev, Nimrod) Balslev-Combes theorem within the framework of the finite-matrix approximation. (English summary) **93i:81303**
Baye, D. *see* **Vincke, M.; et al., 93b:81311**
Benguria, Rafael D. (*with* Hoops, Stefan; Siedentop, Heinz) Bounds on the excess charge and the ionization energy for the Hellmann-Weizsäcker model. (English and French summaries) **93g:81209**
Exner, P. (*with* Truman, Aubrey) Models of K-capture decay: stochastic vs. quantum mechanics. (English summary) **93i:81304**
Gálvez, F. J. *see* **Porras, I., 93f:81162**
Glöckle, Walter *see* **Hamme, B.**
Gora, Jolanta Two models of a q-deformed hydrogen atom. (English summary) **93j:81113**
Gusev, V. V. *see* **Abramov, D. I., 93a:81216**
Hamme, B. (*with* Glöckle, Walter) Relativistic two-body bound state in motion. (English summary)
Hoops, Stefan *see* **Benguria, Rafael D.; et al., 93g:81209**
Judd, B. R. (*with* Lister, G. M. S.) Complementary groups in the quark model of the atom. **93d:81194**
Koga, Toshikatsu *see* **Kryachko, E. S.; et al., 93m:81164**
Kryachko, E. S. (*with* Ludeña, Eduardo V.; Koga, Toshikatsu) Formulation of N- and v-representable density functional theory. III. Excited states. (English summary) **93m:81164**
Le Dourneuf, M. *see* **Vincke, M.; et al., 93b:81311**
Lieb, Elliott H. (*with* Solovej, Jan Philip) Atoms in the magnetic field of a neutron star. **93m:81165**
Lister, G. M. S. *see* **Judd, B. R., 93d:81194**
Ludeña, Eduardo V. *see* **Kryachko, E. S.; et al., 93m:81164**
Martin, André (*with* Stubbe, J.) Spacings of purely angular excitations in potentials with a Laplacian of a given sign, and applications. **93a:81217**
Martinez, André Eigenvalues and resonances of polyatomic molecules in the Born-Oppenheimer approximation. (English summary) (*see* **93d:81006**)
Moiseyev, Nimrod *see* **Alon, Ofir E., 93i:81303**
Porras, I. (*with* Gálvez, F. J.) Spatial generalizations of Kato's cusp condition for atoms. Applications. **93f:81162**
Siedentop, Heinz *see* **Benguria, Rafael D.; et al., 93g:81209**
Solovej, Jan Philip *see* **Lieb, Elliott H., 93m:81165**
Stubbe, J. *see* **Martin, André, 93a:81217**
Truman, Aubrey *see* **Exner, P., 93i:81304**
Ullah, Nazakat Variational density of electrons for large closed shell atoms. **93a:81218**
Vincke, M. (*with* Le Dourneuf, M.; Baye, D.) Hydrogen atom in crossed electric and magnetic fields: transition from weak to strong electron-proton decentring. **93b:81311**
Xu, Bo Wei (*with* Zeng, Qi) Coherent states of hydrogen atoms. (Chinese. English summary) **93b:81312**
Zeng, Qi *see* **Xu, Bo Wei, 93b:81312**

Items with secondary classifications in 81V45

Adam, Gerhard *see* **Seke, J.; et al., 93d:81198** *and* **93d:81199**
Alimov, Sh. A. On the spectrum of the Schrödinger operator for some many-particle systems. **93c:81038**
Arteca, G. A. (*with* Fernández, Francisco M.; Castro, E. A.) ★ Large order perturbation theory and summation methods in quantum mechanics. **93b:81003**
Barut, Asim Orhan (*with* Beker, Henry J.) Exact solutions of spin (Rabi) precession, transmission and reflection in the Eckhart potential. **93b:81040**
Baumgartner, B. Perturbations of supersymmetric systems in quantum mechanics. (English summary) **93i:81042**
Beker, Henry J. *see* **Barut, Asim Orhan, 93b:81040**
Bénilan, Philippe (*with* Goldstein, Jerome A.; Rieder, Gisèle Ruiz) A nonlinear elliptic system arising in electron density theory. (English summary) **93i:35048**
Breuer, H. P. (*with* Holthaus, M.) A semiclassical theory of quasienergies and Floquet wave functions. **93f:81035**
Castro, Carlos On Weyl geometry, random processes, and geometric quantum mechanics. **93e:81059**
Castro, E. A. *see* **Arteca, G. A.; et al., 93b:81003**
Dittrich, J. (*with* Exner, P.; Šeba, P.) Dirac Hamiltonian with Coulomb potential and spherically symmetric shell contact interaction. **93b:81056**
Exner, P. *see* **Dittrich, J.; et al., 93b:81056**
Fefferman, Charles Atoms and analytic number theory. **93g:81017**
— (*with* Ivrii, V. Ya.; Seco, Luis A.; Sigal, I. M.) The energy asymptotics of large Coulomb systems. **93h:81150**
Fernández, Francisco M. *see* **Arteca, G. A.; et al., 93b:81003**
Goldstein, Jerome A. *see* **Bénilan, Philippe; et al., 93i:35048**
Herfort, W. *see* **Seke, J.; et al., 93d:81198** *and* **93d:81199**
Hittmair, O. *see* **Seke, J.; et al., 93d:81198** *and* **93d:81199**
Holthaus, M. *see* **Breuer, H. P., 93f:81035**
Ivrii, V. Ya. *see* **Fefferman, Charles; et al., 93h:81150**
Kereselidze, T. M. (*with* Mourad, H. A.; Tzulukidze, M. F.) Electron in the field of three Coulomb centres: asymptotic solutions. **93c:81029**
Kibler, Maurice *see* **Négadi, Tidjani, 93b:81116**
Lo Cascio, L. (*with* Persico, F.) Strong-field theory of dressed atoms and dressed photons. **93e:81156**
March, N. H. *see* **Pfalzner, S., 93k:81260**
Moore, D. J. Berry phases and Rabi oscillations. **93d:81197**
Mourad, H. A. *see* **Kereselidze, T. M.; et al., 93c:81029**
Négadi, Tidjani (*with* Kibler, Maurice) A q-deformed Aufbau Prinzip. **93b:81116**
Ninomiya, Ichizo Approximation to the solution of the Thomas-Fermi equation. **93c:65097**
O'Rourke, S. F. C. Erratum: "Generalized Demkov model: geometrical adiabatic phase factors" [Phys. Scripta **45** (1992), no. 4, 292–301].
Persico, F. *see* **Lo Cascio, L., 93e:81156**
Pfalzner, S. (*with* March, N. H.) Thomas-Fermi theory in magnetic fields of arbitrary strength. (English summary) **93k:81260**
Pozdneev, S. A. Application of quantum scattering theory for calculations of various processes in nuclear, atomic and molecular physics. (Russian. English summary) **93c:81261**
Reinhard, P.-G. (*with* Suraud, E.) Stochastic TDHF and the Boltzman-Langevin equation. **93g:81064**
Rieder, Gisèle Ruiz *see* **Bénilan, Philippe; et al., 93i:35048**
Ronghe, Ashok Application of Fox's H-function for obtaining half-life period. (Hindi. English and Hindi summaries)
Šeba, P. *see* **Dittrich, J.; et al., 93b:81056**
Seco, Luis A. *see* **Fefferman, Charles; et al., 93h:81150**
Seke, J. (*with* Herfort, W.; Adam, Gerhard; Hittmair, O.) Nicht-Markoffsche Bewegungsgleichung für die Besetzungszahlinversion und ihre Lösung bei der spontanen Emission eines Zwei-Niveau-Atoms. I. Anwendung der Rotating-Wave-Approximation. [Non-Markovian equation of motion for the inversion of occupancy number and its solution in the spontaneous emission of a two-level atom. I. Application of the rotating wave approximation] **93d:81198**
— (*with* Herfort, W.; Adam, Gerhard; Hittmair, O.) Nicht-Markoffsche Bewegungsgleichung für die Besetzungszahlinversion und ihre Lösung bei der spontanen Emission eines Zwei-Niveau-Atoms. II. Berücksichtigung der Counter-Rotating-Terme. [Non-Markovian equation of motion for the inversion of occupancy number and its solution in the spontaneous emission of a two-level atom. II. Consideration of counter-rotating terms] **93d:81199**
Sigal, I. M. *see* **Fefferman, Charles; et al., 93h:81150**
Suraud, E. *see* **Reinhard, P.-G., 93g:81064**
Tzulukidze, M. F. *see* **Kereselidze, T. M.; et al., 93c:81029**
Zastawniak, Tomasz Markov diffusions in relativistic stochastic mechanics. **93m:81020**

81V55 Molecular physics [see also 92E10]

Belov, Yu. A. (*with* Gordinskii, L. D.; Kutniv, M. V.) Numerical modeling of proton transfer in systems with a hydrogen bond. (Russian. English and Russian summaries) **93h:81151**
Bonatsos, Dennis (*with* Daskaloyannis, C.) Generalized deformed oscillators for vibrational spectra of diatomic molecules. **93d:81195**
Daskaloyannis, C. *see* **Bonatsos, Dennis, 93d:81195**
Defranceschi, Mireille *see* **Fischer, Patrick; et al., 93j:81114**
Delhalle, Joseph *see* **Fischer, Patrick; et al., 93j:81114**
Ernesti, A. (*with* Korsch, H. J.) Factorization relations and Wigner's rotation matrices. **93f:81163**
Fischer, Patrick (*with* Defranceschi, Mireille; Delhalle, Joseph) Molecular Hartree-Fock equations for iteration-variation calculations in momentum space. (English summary) **93j:81114**
Gordinskii, L. D. *see* **Belov, Yu. A.; et al., 93h:81151**
Graham, Robert (*with* Höhnerbach, Michael) Quantum effects on the multiphoton dissociation of a diatomic molecule. **93c:81276**
Hagedorn, George A. Time-reversal invariance and the time-dependent Born-Oppenheimer approximation. (English summary) **93g:81210**
Höhnerbach, Michael *see* **Graham, Robert, 93c:81276**
Korsch, H. J. *see* **Ernesti, A., 93f:81163**
Kutniv, M. V. *see* **Belov, Yu. A.; et al., 93h:81151**
Ruskai, Mary Beth (*with* Solovej, Jan Philip) Asymptotic neutrality of polyatomic molecules. (English summary) **93i:81305**
Salamon, Peter *see* **Tannor, David, 93i:81306**
Solovej, Jan Philip *see* **Ruskai, Mary Beth, 93i:81305**
Suzuki, Noboru Simple calculation of Löwdin's alpha function. IV. Procedure for evaluating the coefficients in expansion of a Slater-type atomic orbital. (English summary) **93m:81166**
Tannor, David (*with* Salamon, Peter) A novel Euler-Lagrange equation arising in the optimization of photochemical branching ratios. (English summary) **93i:81306**
Yang, Guang Can The number of energy levels and the dissociation energy of diatomic molecules described by a q-deformed oscillator model. (Chinese. English and Chinese summaries)

Items with secondary classifications in 81V55

Alon, Ofir E. (*with* Moiseyev, Nimrod) Balslev-Combes theorem within the framework of the finite-matrix approximation. (English summary) **93i:81303**
Arteca, G. A. (*with* Fernández, Francisco M.; Castro, E. A.) ★ Large order perturbation theory and summation methods in quantum mechanics. **93b:81003**
Bohm, Arno (*with* Kendrick, Brian; Loewe, Mark E.; Boya, Luis J.) The Berry connection and Born-Oppenheimer method. **93d:81051**
Boya, Luis J. *see* **Bohm, Arno; et al., 93d:81051**
Cassam-Chenaï, P. A generalization of the Plücker relations. **93m:15048**
Castro, E. A. *see* **Arteca, G. A.; et al., 93b:81003**
Chantelau, Klaus On the Born-Oppenheimer approximation for excited states of polyatomic Schrödinger operators. (English summary) **93f:35044**
Colpa, J. P. *see* **Temme, F. P., 93i:81056**
Combs, L. L. *see* **Waggoner, C. A.**

Fernández, Francisco M. *see* **Arteca, G. A.; et al., 93b:81003**
Hu, C.-Y. *see* **Kvitsinskii, A. A., 93c:81259**
Kendrick, Brian *see* **Bohm, Arno; et al., 93d:81051**
Kereselidze, T. M. (*with* Mourad, H. A.; Tzulukidze, M. F.) Electron in the field of three Coulomb centres: asymptotic solutions. **93c:81029**
Klein, Markus (*with* Martinez, André; Seiler, Ruedi; Wang, Xue Ping[1]) On the Born-Oppenheimer expansion for polyatomic molecules. **93b:81069**
Kvitsinskii, A. A. (*with* Hu, C.-Y.) Solution of three-dimensional Faddeev equations for three-body Coulomb bound states. **93c:81259**
Leroy, J. P. (*with* Wallace, Robert; Rabitz, Herschel) A strategy to derive new internal coordinates by partitioning the internal configuration space according to invariance properties. (English summary) **93k:81269**
Lipiński, S. Solitons in a one-dimensional degenerate Hubbard model. **93c:82064**
Loewe, Mark E. *see* **Bohm, Arno; et al., 93d:81051**
Mączyński, Maciej J. A simple derivation of Hückel's molecular orbitals in the framework of quantum logic. **93c:81016**
Martens, Craig C. Quantum qualitative dynamics. **93e:81047**
Martinez, André *see* **Klein, Markus; et al., 93b:81069**
Moiseyev, Nimrod *see* **Alon, Ofir E., 93i:81303**
Mourad, H. A. *see* **Kereselidze, T. M.; et al., 93c:81029**
Newton, Roger G. A representation of solutions of the Helmholtz equation with application to crystal Green's functions. **93a:35033**
Orland, Peter Exact solution of a quantum gauge magnet in $2+1$ dimensions. **93d:82024**
O'Rourke, S. F. C. Erratum: "Generalized Demkov model: geometrical adiabatic phase factors" [Phys. Scripta **45** (1992), no. 4, 292–301]. **93b:81056**
Pozdneev, S. A. Application of quantum scattering theory for calculations of various processes in nuclear, atomic and molecular physics. (Russian. English summary) **93c:81261**
Rabitz, Herschel *see* **Leroy, J. P.; et al., 93k:81269**
Seiler, Ruedi *see* **Klein, Markus; et al., 93b:81069**
Sigal, I. M. Quantum mechanics of many-particle systems. **93c:81033**
Temme, F. P. (*with* Colpa, J. P.) Summary of $\mathcal{S}_n$ mapping properties of some lexical p-tuples, or wordlengths, over $(M_1 - M_n)$ fields of Rota-Cayley algebra in generating Hilbert space $SO(3) \times \mathcal{S}_n$ irreps of higher I_i identical spin clusters, $[A]_n(\mathcal{S}_n)$, for $n \leq 7$. (English summary) **93i:81056**
— On general forms for structure of some $[n-1,1] \otimes [\lambda]\,\mathcal{S}_n$ inner tensor products with $6 \leq n \leq 20$, (60) for n even, in the context of spin cluster problems of multiquantum NMR. (English summary)
Tzulukidze, M. F. *see* **Kereselidze, T. M.; et al., 93c:81029**
Waggoner, C. A. (*with* Combs, L. L.) Optimization techniques in energy calculations involving the Hartree-Fock density matrix. (English summary)
Wallace, Robert *see* **Leroy, J. P.; et al., 93k:81269**
Wang, Xue Ping[1] *see* **Klein, Markus; et al., 93b:81069**

81V70 Many-body theory

Alexandrou, C. (*with* Rosenfelder, R.) Stochastic solution to highly nonlocal actions: the polaron problem. (English summary) **93c:81277**
Baake, M. (*with* Joseph, D.; Kramer, Peter) Periodic clustering in the spectrum of quasiperiodic Kronig-Penney models. (English summary) **93e:81151**
Bogolyubov, N. M. (*with* Bullough, R. K.) A q-deformed completely integrable Bose gas model. **93f:81164**
Bullough, R. K. *see* **Bogolyubov, N. M., 93f:81164**
Campbell, C. E. *see* **Senger, G.; et al., 93i:81310**
Carstoiu, F. (*with* Lombard, R. J.) A new method of evaluating folding type integrals. (English summary) **93f:81165**
Clark, J. W. *see* **Senger, G.; et al., 93i:81310**
Cristofano, Gerardo (*with* Maiella, G.; Musto, R.; Nicodemi, F.) Hall conductance and edge states in the Coulomb gas vertex operator formalism. **93a:81219**
— (*with* Maiella, G.; Musto, R.; Nicodemi, F.) The quantum Hall effect at arbitrary rational filling: a proposal. (English summary) **93g:81211**
Dariescu, C. (*with* Dariescu, Marina) U(1) gauge theory of the quantum Hall effect. **93a:81220**
Dariescu, Marina *see* **Dariescu, C., 93a:81220**
Dharma-Wardana, M. W. C. Density functional theory and the Chern-Simons field approach to the fractional quantum Hall effect. (English summary) **93g:81212**
Dodonov, V. V. (*with* Klimov, A. B.; Man'ko, V. I.) Quantum multidimensional systems with quadratic Hamiltonians. Evolution of distinguished subsystems. (Russian. Russian summary) **93k:81264**
— (*with* Man'ko, V. I.; Man'ko, O. V.) A nonstationary parametric chain of oscillators. (Russian. Russian summary) **93k:81265**
Ezawa, Zyun F. (*with* Iwazaki, Aiichi) Chern-Simons gauge theory for double-layer electron system. (English summary) **93h:81152**
— (*with* Iwazaki, Aiichi) Derivation of Laughlin's wavefunction in anyon system. **93c:81278**
— (*with* Hotta, Masahiro; Iwazaki, Aiichi) Anyon field theory and fractional quantum Hall states. (English summary) **93i:81307**
Floratos, E. G. The many-body problem for q-oscillators. **93a:81221**
Frésard, R. (*with* Wölfle, P.) Unified slave boson representation of spin and charge degrees of freedom for strongly correlated Fermi systems. **93k:81266a**
— (*with* Wölfle, P.) Errata: "Unified slave boson representation of spin and charge degrees of freedom for strongly correlated Fermi systems". **93k:81266b**
Fröhlich, Jürg (*with* Studer, U. M.) Gauge invariance in nonrelativistic many-body theory. (English summary) **93h:81153**
Greiter, Martin (*with* Wilczek, Frank) Exact solutions and the adiabatic heuristic for quantum Hall states. **93g:81213**
Hikami, Shinobu Localization, nonlinear σ model and string theory. (English summary) **93i:81308**
Hotta, Masahiro *see* **Ezawa, Zyun F.; et al., 93i:81307**
Ichinose, Ikuo (*with* Matsui, Tetsuo) Dynamics of the composite gauge boson in the CP^{N-1} model with fermion and the charge-spin separation. (English summary) **93k:81267**
Iso, Satoshi (*with* Karabali, Dimitra; Sakita, B.) One-dimensional fermions as two-dimensional droplets via Chern-Simons theory. (English summary) **93i:81309**
— Phase-space and symplectic structure of the fractional quantum Hall effect. **93b:81313**
Iwazaki, Aiichi *see* **Ezawa, Zyun F., 93c:81278; 93h:81152** *and* **93i:81307**
Joseph, D. *see* **Baake, M.; et al., 93e:81151**
Karabali, Dimitra *see* **Iso, Satoshi; et al., 93i:81309**
Kawakami, Norio (*with* Yang, Sung-Kil) Conformal field theory approach to one-dimensional quantum liquids. (English summary) **93k:81268**
Kędzia, Katarzyna Clifford analysis and systems of condensed phase. (English summary) **93j:81115**
Klimov, A. B. *see* **Dodonov, V. V.; et al., 93k:81264**
Kramer, Peter *see* **Baake, M.; et al., 93e:81151**
Kuo, Thomas T. S. (*with* Osnes, Eivind) ★ Folded-diagram theory of the effective interaction in nuclei, atoms and molecules. **93e:81152**
Lebedev, Vladimir *see* **L'vov, V. S.; et al., 93m:81167**
Leroy, J. P. (*with* Wallace, Robert; Rabitz, Herschel) A strategy to derive new internal coordinates by partitioning the internal configuration space according to invariance properties. (English summary) **93k:81269**
Lombard, R. J. *see* **Carstoiu, F., 93f:81165**
L'vov, V. S. (*with* Lebedev, Vladimir; Paton, Miriam; Procaccia, Itamar) Proof of scale invariant solutions in the Kardar-Parisi-Zhang and Kuramoto-Sivashinksy equations in $1+1$ dimensions: analytical and numerical results. (English summary) **93m:81167**
Lykken, Joseph D. (*with* Sonnenschein, Jacob; Weiss, Nathan) The theory of anyonic superconductivity: a review. **93b:81314**
Maiella, G. *see* **Cristofano, Gerardo; et al., 93a:81219** *and* **93g:81211**
Man'ko, O. V. *see* **Dodonov, V. V.; et al., 93k:81265**
Man'ko, V. I. *see* **Dodonov, V. V.; et al., 93k:81264** *and* **93k:81265**
Maraner, P. Landau ground state on Riemannian surfaces. (English summary) **93g:81214**
Matsui, Tetsuo *see* **Ichinose, Ikuo, 93k:81267**
Musto, R. *see* **Cristofano, Gerardo; et al., 93a:81219** *and* **93g:81211**
Nicodemi, F. *see* **Cristofano, Gerardo; et al., 93a:81219** *and* **93g:81211**
Osnes, Eivind *see* **Kuo, Thomas T. S., 93e:81152**
Paton, Miriam *see* **L'vov, V. S.; et al., 93m:81167**
Pavlov, B. S. (*with* Strepetov, A. V.) An explicitly solvable model of electron scattering by an inhomogeneity in a thin conductor. (Russian. English and Russian summaries) **93k:81270**
Petrina, D. Ya. Hamiltonians in spaces of translation-invariant functions. (Russian. Russian summary) **93k:81271**
Procaccia, Itamar *see* **L'vov, V. S.; et al., 93m:81167**
Rabitz, Herschel *see* **Leroy, J. P.; et al., 93k:81269**
Ristig, M. L. *see* **Senger, G.; et al., 93i:81310**
Rosenfelder, R. *see* **Alexandrou, C., 93c:81277**
Sakita, B. *see* **Iso, Satoshi; et al., 93i:81309**
Senger, G. (*with* Ristig, M. L.; Campbell, C. E.; Clark, J. W.) Correlated density matrix theory of normal quantum fluids. (English summary) **93i:81310**
Sonnenschein, Jacob *see* **Lykken, Joseph D.; et al., 93b:81314**
Stone, Michael Wilson loops and nonabelian statistics in the quantum Hall effect. (English summary) **93f:81166**
Strepetov, A. V. *see* **Pavlov, B. S., 93k:81270**
Studer, U. M. *see* **Fröhlich, Jürg, 93h:81153**
Su, W. P. *see* **Yang, J., 93k:81272**
Wallace, Robert *see* **Leroy, J. P.; et al., 93k:81269**
Weiss, Nathan *see* **Lykken, Joseph D.; et al., 93b:81314**
Wilczek, Frank *see* **Greiter, Martin, 93g:81213**
Wölfle, P. *see* **Frésard, R., 93k:81266a** *and* **93k:81266b**
Yan, Mu Lin (*with* Zhao, Bao Heng) Solvable quantum many-body problems in two dimensions. (English summary) **93h:81154**
Yang, J. (*with* Su, W. P.) The hierarchy theory of the fractional quantum Hall effect. (English summary) **93k:81272**
Yang, Sung-Kil *see* **Kawakami, Norio, 93k:81268**
Zhakin, A. I. Quantum-mechanical calculation of the rate of the electrochemical reaction $\cdot R + e^- \to \cdot R^-$ on the surface of an electrode. (Russian)
Zhang, Shou Cheng The Chern-Simons-Landau-Ginzburg theory of the fractional quantum Hall effect. **93f:81167**
Zhao, Bao Heng *see* **Yan, Mu Lin, 93h:81154**

Items with secondary classifications in 81V70

Ahia, Francis Finiteness of the discrete spectrum of $(N \geq 3)$ N-body Schrödinger operators, which have some determinate subsystems that are virtual at the bottom of the continuum. **93a:81037**
Andreev, V. A. (*with* Ivanova, O. A.) The dynamics of three-boson interaction and algebraic Bethe ansatz. (English summary) **93k:82004**
Baillie, C. F. (*with* Johnston, Desmond Alexander) Strong self-avoidance and crumpling in random surfaces with extrinsic curvature. **93a:81143**
Balachandran, A. P. (*with* Ercolessi, E.; Morandi, G.; Srivastava, A. M.) ★ Hubbard model and anyon superconductivity. **93g:82108**
Bariev, R. Z. Excitations in the integrable model with two- and three-particle interactions. **93b:82086**
Bentosela, F. (*with* Grecchi, Vincenzo) Stark Wannier ladders. **93k:81046**
Birman, Joseph L. Many-body Green functions of q-deformed oscillators. **93c:81087**
Boyanovsky, Daniel Gauge invariance and broken symmetries in anyon superfluids. (English summary) **93g:82106**
Chapline, George Quantum model for space-time. **93g:83045**
Cho, Kyung-Hyun (*with* Rim, Chaiho; Soh, D. S.) Exact wavefunctions for free anyons: ladder operator approach. **93c:81088**
Combescure, M. A generalized coherent state approach of the quantum dynamics for suitable time-dependent Hamiltonians. **93m:81040**

Cristofano, Gerardo (*with* Maiella, G.; Musto, R.; Nicodemi, F.) Theoretical aspects of quantum Hall effect and two-dimensional CFT. (English summary) **93h:81112**
— (*with* Maiella, G.; Musto, R.; Nicodemi, F.) Coulomb gas vertex operators for the fractional quantum Hall effect. (English summary) **93i:81216**
Defranceschi, Mireille *see* **Fischer, Patrick; et al., 93j:81114**
Delhalle, Joseph *see* **Fischer, Patrick; et al., 93j:81114**
Diamantini, Maria Cristina (*with* Link, Robert; Sodano, Pasquale) Chern-Simons effective action for nonrelativistic planar electrons. (English summary) **93h:81082**
Ercolessi, E. *see* **Balachandran, A. P.; et al., 93g:82108**
Fichtner, Karl-Heinz (*with* Freudenberg, Wolfgang) Characterization of states of infinite boson systems. I. On the construction of states of boson systems. **93a:81056**
Fischer, Patrick (*with* Defranceschi, Mireille; Delhalle, Joseph) Molecular Hartree-Fock equations for iteration-variation calculations in momentum space. (English summary) **93j:81114**
Flynn, William G. *see* **Littlejohn, Robert G., 93a:81044**
Forrester, P. J. Some multidimensional integrals related to many-body systems with the $1/r^2$ potential. **93a:81057**
Freudenberg, Wolfgang *see* **Fichtner, Karl-Heinz, 93a:81056**
Fröhlich, Jürg (*with* Gabbiani, F.; Marchetti, P. A.) Braid statistics in three-dimensional local quantum theory. **93a:81112**
— (*with* Kerler, T.; Marchetti, P. A.) Nonabelian bosonization in two-dimensional condensed matter physics. **93i:82007**
Gabbiani, F. *see* **Fröhlich, Jürg; et al., 93a:81112**
Gaspard, Pierre Dynamical chaos and many-body quantum systems. **93a:81048**
Georgelin, Y. (*with* Wallet, J.-C.) On Maxwell-Chern-Simons theory with anomalous magnetic moment. **93a:81127**
Grecchi, Vincenzo *see* **Bentosela, F., 93k:81046**
Greiter, Martin (*with* Wen, Xiao-Gang; Wilczek, Frank) Paired Hall states. **93i:82075**
Guan, Xi Wen (*with* Yin, Chun Hao; Xiong, Zhuang) Algebraic Bethe-ansatz equations for one-dimensional small-polaron models. (Chinese. English summary) **93b:82015**
Holm, Darryl D. (*with* Kovačič, Gregor) Homoclinic chaos in a laser-matter system. **93c:78013**
Humi, M. Lie algebras of first- and second-order operators. **93e:81031**
Iengo, Roberto (*with* Lechner, Kurt) Anyon mean field as a critical-field theory. (English summary) **93h:81087**
— (*with* Lechner, Kurt) Anyon quantum mechanics and Chern-Simons theory. **93e:81073**
Ivanova, O. A. *see* **Andreev, V. A., 93k:82004**
Izmailov, A. F. (*with* Kessel', A. R.) Calculation of a quantum partition function of the BCS model in a nonregular phase. (Russian. English and Russian summaries) **93i:82080**
Jackiw, R. (*with* Pi, So-Young) Time-dependent Chern-Simons solitons and their quantization. **93d:81108**
Johnston, Desmond Alexander *see* **Baillie, C. F., 93a:81143**
Karasëv, V. P. Polynomial deformations of oscillator algebras in quantum theories with internal symmetries. **93k:81073**
Kerler, T. *see* **Fröhlich, Jürg; et al., 93i:82007**
Kessel', A. R. *see* **Izmailov, A. F., 93i:82080**
Klein, Markus (*with* Martinez, André; Seiler, Ruedi; Wang, Xue Ping[1]) On the Born-Oppenheimer expansion for polyatomic molecules. **93b:81069**
Kovačič, Gregor *see* **Holm, Darryl D., 93c:78013**
Lebowitz, Joel L. (*with* Macris, Nicolas; Martin, Philippe André[1]) Atomic versus ionized states in many-particle systems and the spectra of reduced density matrices: a model study. **93c:82077**
Lechner, Kurt *see* **Iengo, Roberto, 93e:81073** *and* **93h:81087**
Link, Robert *see* **Diamantini, Maria Cristina; et al., 93h:81082**
Littlejohn, Robert G. (*with* Flynn, William G.) Semiclassical theory of spin-orbit coupling. **93a:81044**
Macris, Nicolas *see* **Lebowitz, Joel L.; et al., 93c:82077**
Maiella, G. *see* **Cristofano, Gerardo; et al., 93h:81112** *and* **93i:81216**
Mansmann, Ulrich The free energy of the Dirac polaron, an explicit solution. **93e:82006**
Marchetti, P. A. *see* **Fröhlich, Jürg; et al., 93a:81112** *and* **93i:82007**
Martin, Philippe André[1] *see* **Lebowitz, Joel L.; et al., 93c:82077**
Martinez, André *see* **Klein, Markus; et al., 93b:81069**
Mattuck, Richard D. ★ A guide to Feynman diagrams in the many-body problem. **93i:81002**
Moore, Gregory W. *see* **Read, N., 93j:81094**
Morandi, G. *see* **Balachandran, A. P.; et al., 93g:82108**
Musto, R. *see* **Cristofano, Gerardo; et al., 93h:81112** *and* **93i:81216**
Nicodemi, F. *see* **Cristofano, Gerardo; et al., 93h:81112** *and* **93i:81216**
Pankratov, M. A. *see* **Pavlov, B. S., 93e:82054**
Pavlov, B. S. (*with* Pankratov, M. A.) Electron transport in quasi-one-dimensional random structure. **93e:82054**
Peters, C. A. M. Algebraic Fermi curves (after Gieseker, Trubowitz and Knörrer). **93b:58115**
Pi, So-Young *see* **Jackiw, R., 93d:81108**
Rammer, Jørgen Quantum transport theory of electrons in solids: a single-particle approach. **93e:82049**
Read, N. (*with* Moore, Gregory W.) Fractional quantum Hall effect and nonabelian statistics. (English summary) **93j:81094**
Rim, Chaiho *see* **Cho, Kyung-Hyun; et al., 93c:81088**
Seiler, Ruedi On the quantum Hall-effect. (*see* **93e:81007**)
— *see also* **Klein, Markus; et al., 93b:81069**
Sodano, Pasquale *see* **Diamantini, Maria Cristina; et al., 93h:81082**
Soh, D. S. *see* **Cho, Kyung-Hyun; et al., 93c:81088**
Srivastava, A. M. *see* **Balachandran, A. P.; et al., 93g:82108**
Suzuki, Tôru Quantized Bogoliubov transformation and the holon-spinon operator formalism. **93d:81128**
Takahashi, Yasushi *see* **Toyoda, Tadashi, 93a:82069**
Temme, F. P. The structure and Gel'fand patterns inherent in the Heisenberg supergenerator algebra of dual Liouville-space $|kq\{\vec{K}.\}(k_1-k_n):[\vec{\lambda}],\mathscr{S}_n\rangle\rangle$ tensors and the Cayley algebra of scalar invariants over a (k_1-k_n) field. **93b:81087**
Toms, David J. Bose-Einstein condensation in relativistic systems in curved space as symmetry breaking. (English summary) **93f:81098**
Toyoda, Tadashi (*with* Takahashi, Yasushi) Marginal Fermi-liquid model and Ward-Takahashi relations. **93a:82069**
Vaskevich, V. L. Mathematical foundations of a method for the numerical analysis of the electronic band structure of a crystal. (Russian. Russian summary) **93d:35134**
Wallet, J.-C. *see* **Georgelin, Y., 93a:81127**
Wang, Xue Ping[1] *see* **Klein, Markus; et al., 93b:81069**
Weiss, Nathan Bosonic Chern-Simons field theory of anyon superconductivity. (English summary)
Wen, Xiao-Gang Theory of the edge states in fractional quantum Hall effects. **93a:82062**
— *see also* **Greiter, Martin; et al., 93i:82075**
Wilczek, Frank *see* **Greiter, Martin; et al., 93i:82075**
Xiong, Zhuang *see* **Guan, Xi Wen; et al., 93b:82015**
Yin, Chun Hao *see* **Guan, Xi Wen; et al., 93b:82015**
Zagatti, Sandro The Cauchy problem for Hartree-Fock time-dependent equations. (English and French summaries) **93h:35170**
Zhidkov, P. E. On the existence of a countable set of solutions in a problem of polaron theory. (Russian) **93i:34048**
Zhu, Chuan Jie $2+1$ topological term, anyons and their possible application in high T_c superconductivity. (*see* **93g:81003**)

81V80 Quantum optics

Adam, Gerhard *see* **Seke, J.; et al., 93d:81198** *and* **93d:81199**
Adam, P. *see* **Janszky, J.; et al., 93k:81278**
de Aguiar, M. A. M. (*with* Furuya, Kyoko; Lewenkopf, C. H.; Nemes, M. C.) Chaos in a spin-boson system: classical analysis. **93c:81279**
Alekseev, A. V. (*with* Sushilov, N. V.) Analytic solutions of Bloch and Maxwell-Bloch equations in the case of arbitrary field amplitude and phase modulation. **93i:81311**
Andreev, V. A. The inverse scattering method in equations in quantum optics. II. Singular and radiation solutions. (Russian. English summary) **93i:81312**
— (*with* Lerner, P. B.) Supersymmetry of multiphoton transitions. **93f:81168**
Baseia, B. *see* **de Brito, A. L., 93g:81215**
Bendjaballah, C. *see* **le Pas de Sécheval, H., (93e:81158)** *and* **Quantum aspects of optical communications, 93e:81158**
Bonci, Luca *see* **Roncaglia, Roberto; et al., 93c:81281**
de Brito, A. L. (*with* Baseia, B.) Squeezing in the Schrödinger picture: normal ordering technique to solve the mass-varying oscillator. (English summary) **93g:81215**
Bužek, Vladimír The Jaynes-Cummings model with a q analogue of a coherent state. **93b:81315**
Chang, Zhe Minimum-uncertainty states, a two-photon system, and quantum-group symmetry. (English summary) **93k:81273**
— Dynamics of generalized photonic fields interacting with atoms. (English summary) **93k:81274**
Chaturvedi, S. *see* **Shanta, P.; et al., 93b:81324**
Chiu, Shao-Hsuan (*with* Gray, Robert W.; Nelson, Charles A.) The q-analogue quantized radiation field and its uncertainty relations. **93b:81316**
Chumakov, S. M. *see* **Kozerovskiĭ, M. G., 93e:81155**
Colegrave, R. K. (*with* Croxson, P.) Constants of the motion and diagonalization of the Hamiltonian for some scattering processes. **93b:81317**
Cortés Tamayo, Joel Octavio Quantum optics of squeezed states. (Spanish. English and Spanish summaries) **93k:81275**
Crisp, Michael D. Application of the displaced oscillator basis in quantum optics. (English summary) **93k:81276**
Croxson, P. *see* **Colegrave, R. K., 93b:81317**
D'Ariano, G. M. SU(1, 1) symmetry of the balanced homodyne and statistics of the output. **93d:81196**
Dattoli, G. (*with* Mari, C.; Richetta, M.; Torre, Amalia) On the generalized Twiss parameters and Courant-Snyder invariant in classical and quantum optics. **93b:81318**
Drobný, Gabriel *see* **Jex, Igor, 93b:81319**
Drummond, P. D. *see* **Fernée, M., 93i:81313**
Eberly, J. H. *see* **Wódkiewicz, K., 93b:81325**
Fan, Hong Yi[1] (*with* Weng, Hai Guang) Simple approach for discussing the properties of displaced Fock states. (English summary)
Fernée, M. (*with* Drummond, P. D.) Dynamical renormalization of the Jaynes-Cummings model. (English summary) **93i:81313**
Folacci, A. Averaged-null-energy condition for electromagnetism in Minkowski spacetime. (English summary) **93e:81153**
Földesi, I. *see* **Janszky, J.; et al., 93k:81278**
Fougères, A. *see* **Noh, J. W.; et al., 93e:81157**
Furuya, Kyoko *see* **de Aguiar, M. A. M.; et al., 93c:81279**
Gantsog, Ts. (*with* Miranowicz, A.; Tanaś, R.) Phase properties of real field states: the Garrison-Wong versus Pegg-Barnett predictions. (English summary) **93f:81169**
Gardiner, C. W. (*with* Parkins, A. S.; Zoller, P.) Wave-function quantum stochastic differential equations and quantum-jump simulation methods. (English summary) **93k:81277**
Gong, H. Q. SU(2) and SU(1, 1) rotation transformation and pseudo-vector model in quantum optics. (English summary) **93i:81314**
Gray, Robert W. *see* **Chiu, Shao-Hsuan; et al., 93b:81316**
Grigolini, Paolo *see* **Roncaglia, Roberto; et al., 93c:81281**
Haken, H. *see* **Ning, Cun Zheng, 93k:81279**
Hegerfeldt, Gerhard C. (*with* Plenio, Martin B.) Macroscopic dark periods without a metastable state.
Helstrom, Carl W. Calculating photocount distributions by saddlepoint methods. (English summary) (*see* **93e:81158**)
Herfort, W. *see* **Seke, J.; et al., 93d:81198** *and* **93d:81199**
Hirota, Osamu *see* **Uyematsu, Tomohiko; et al., (93e:81158)** *and* **Quantum aspects of optical communications, 93e:81158**
Hittmair, O. *see* **Seke, J.; et al., 93d:81198** *and* **93d:81199**

Ikeda, Kensuke Stationary dissipation due to quantum chaos: simulated light absorption with quantum maps. (English summary)
Janszky, J. (*with* Adam, P.; Földesi, I.) Sudden mass changes of a quantum oscillator and squeezing. (English summary) **93k:81278**
Jex, Igor (*with* Drobný, Gabriel) SU(1, 1) and SU(2) squeezing in trilinear optical processes. **93b:81319**
Karasëv, V. P. Oscillator and other groups in optics. (Russian. Russian summary) **93f:81170**
— (*with* Puzyrevskiĭ, V. I.) Generalized coherent states in quantum optics. (Russian. English summary) **93c:81280**
Kärtner, F. (*with* Schack, R.; Schenzle, A.) Consistent linearization for quasi-probabilities. **93b:81320**
Kim, Y. S. (*with* Yeh, Leehwa) O(2, 1)-like little group for spacelike four-momenta and localized light waves in continuous media. (English summary) **93e:81154**
— (*with* Yeh, Leehwa) $E(2)$-symmetric two-mode sheared states. **93g:81216**
Knöll, Ludwig (*with* Leonhardt, Ulf) Quantum optics in oscillator media. **93b:81321**
Kozerovskiĭ, M. G. (*with* Chumakov, S. M.) Exactly solvable Dicke models and radiation capture. (Russian. Russian summary) **93e:81155**
Leonhardt, Ulf *see* **Knöll, Ludwig, 93b:81321**
Lerner, P. B. *see* **Andreev, V. A., 93f:81168**
Lewenkopf, C. H. *see* **de Aguiar, M. A. M.; et al., 93c:81279**
Lo Cascio, L. (*with* Persico, F.) Strong-field theory of dressed atoms and dressed photons. **93e:81156**
Luis, A. (*with* Sánchez-Soto, L. L.) Phase and statistical properties of multiphoton states. (English summary)
Lynch, R. (*with* Mavromatis, H. A.) Consideration of the general state which minimizes the Nth order minimum uncertainty product. (English summary) **93m:81168**
Mandel, L. *see* **Noh, J. W.; et al., 93e:81157**
Mari, C. *see* **Dattoli, G.; et al., 93b:81318**
Mavromatis, H. A. *see* **Lynch, R., 93m:81168**
Mehta, C. L. *see* **Roy, Anil K., 93c:81282**
Meystre, Pierre Theoretical developments in cavity quantum optics: a brief review.
Miranowicz, A. *see* **Gantsog, Ts.; et al., 93f:81169**
Moore, D. J. Berry phases and Rabi oscillations. **93d:81197**
Nelson, Charles A. *see* **Chiu, Shao-Hsuan; et al., 93b:81316**
Nemes, M. C. *see* **de Aguiar, M. A. M.; et al., 93c:81279**
Ning, Cun Zheng (*with* Haken, H.) The geometric phase in nonlinear dissipative systems. (English summary) **93k:81279**
Noh, J. W. (*with* Fougères, A.; Mandel, L.) Further investigations of the operationally defined quantum phase. (English summary) **93e:81157**
Ohya, Masanori (*with* Suyari, Hiroki) Rigorous derivation of error probability in coherent optical communication. (English summary) **93i:81315**
Paprzycka, M. (*with* Tanaś, R.) Discrete superpositions of coherent states and phase properties of the m-photon anharmonic oscillator. (English summary)
Parkins, A. S. *see* **Gardiner, C. W.; et al., 93k:81277**
le Pas de Sécheval, H. (*with* Bendjaballah, C.) Some remarks on the phase operator in quantum optics. (*see* **93e:81158**)
Persico, F. *see* **Lo Cascio, L., 93e:81156**
Pham Le Kien (*with* Shumovskiĭ, A. S.) Interaction of an atom with a cavity radiation field. **93b:81322**
Plenio, Martin B. *see* **Hegerfeldt, Gerhard C.**
Prants, S. V. (*with* Yakupova, L. S.) The Jaynes-Cummings model with modulated field-atom coupling in resonator quantum electrodynamics. **93b:81323**
Puzyrevskiĭ, V. I. *see* **Karasëv, V. P., 93c:81280**
Rastello, Maria Luisa Jaynes-Cummings spectra by linearization with Clifford variables. (English summary)
Reibold, Reinhard On the "piecing effect" of the projector formalism and its application to repeated measurements in quantum optics. (English summary) **93j:81116**
(Reynaud, S.) *see* **Quantum aspects of optical communications, 93e:81158**
Richetta, M. *see* **Dattoli, G.; et al., 93b:81318**
Roncaglia, Roberto (*with* Bonci, Luca; Grigolini, Paolo; West, Bruce J.) Chaos and quantum irreversibility. **93c:81281**
Roy, Anil K. (*with* Mehta, C. L.) Squeezed states generated by boson creation operator. (English summary) **93c:81282**
Sakaniwa, Kohichi *see* **Uyematsu, Tomohiko; et al., (93e:81158)**
Sánchez-Soto, L. L. *see* **Luis, A.**
Sarkar, Sarben Photon statistics and moving mirrors. (English summary) **93i:81316**
Schack, R. *see* **Kärtner, F.; et al., 93b:81320**
Schenzle, A. *see* **Kärtner, F.; et al., 93b:81320**
Segev, Mordechai (*with* Solomon, Richard; Yariv, Amnon) Manifestation of Berry's phase in image-bearing optical beams.
Seke, J. (*with* Herfort, W.; Adam, Gerhard; Hittmair, O.) Nicht-Markoffsche Bewegungsgleichung für die Besetzungszahlinversion und ihre Lösung bei der spontanen Emission eines Zwei-Niveau-Atoms. I. Anwendung der Rotating-Wave-Approximation. [Non-Markovian equation of motion for the inversion of occupancy number and its solution in the spontaneous emission of a two-level atom. I. Application of the rotating wave approximation] **93d:81198**
— (*with* Herfort, W.; Adam, Gerhard; Hittmair, O.) Nicht-Markoffsche Bewegungsgleichung für die Besetzungszahlinversion und ihre Lösung bei der spontanen Emission eines Zwei-Niveau-Atoms. II. Berücksichtigung der Counter-Rotating-Terme. [Non-Markovian equation of motion for the inversion of occupancy number and its solution in the spontaneous emission of a two-level atom. II. Consideration of counter-rotating terms] **93d:81199**
Shanta, P. (*with* Chaturvedi, S.; Srinivasan, V.) A model which interpolates between the Jaynes-Cummings model and the Buck-Sukumar model. **93b:81324**
Shumovskiĭ, A. S. *see* **Pham Le Kien, 93b:81322**
Solomon, Richard *see* **Segev, Mordechai; et al.**
Srinivasan, V. *see* **Shanta, P.; et al., 93b:81324**
Staszewska, G. *see* **Staszewski, P., 93k:81280**
Staszewski, P. (*with* Staszewska, G.) The atom under a continuous-counting observation: relaxation without mixing. (English summary) **93k:81280**
Stenholm, Stig Measurement aspects of quantum optics. **93a:81222**
Sushilov, N. V. *see* **Alekseev, A. V., 93i:81311**
Suyari, Hiroki *see* **Ohya, Masanori, 93i:81315**
Tanaś, R. *see* **Gantsog, Ts.; et al., 93f:81169** *and* **Paprzycka, M.**
Torre, Amalia *see* **Dattoli, G.; et al., 93b:81318**
Uyematsu, Tomohiko (*with* Hirota, Osamu; Sakaniwa, Kohichi) Quantum nondemolition measurement in optical communication theory. (*see* **93e:81158**)
Vourdas, A. Generalized squeezing, Bogoliubov quasiparticles, and information in two- and three-mode systems. **93k:81281**
Watanabe, Noboru Efficiency of optical modulations with coherent state. (English summary) **93i:81317**
Weng, Hai Guang *see* **Fan, Hong Yi[1]**
West, Bruce J. *see* **Roncaglia, Roberto; et al., 93c:81281**
Wódkiewicz, K. (*with* Eberly, J. H.) Click-counting distributions in optical transitions. **93b:81325**
Yakupova, L. S. *see* **Prants, S. V., 93b:81323**
Yariv, Amnon *see* **Segev, Mordechai; et al.**
Yeh, Leehwa *see* **Kim, Y. S., 93e:81154** *and* **93g:81216**
Zhan, You Bang Squeezing properties of eigenstates of higher powers of photon annihilation operators. (Chinese. English and Chinese summaries) **93k:81282**
— Amplitude-squared squeezing in the Dicke model. **93c:81283**
Zoller, P. *see* **Gardiner, C. W.; et al., 93k:81277**

Items listed otherwise than by author

Lecture Notes in Physics ★ Quantum aspects of optical communications. **93e:81158**
Paris ★ Quantum aspects of optical communications. **93e:81158**
Quantum aspects of optical communications ★ Quantum aspects of optical communications. **93e:81158**
Workshop:
Quantum Aspects of Optical Communications ★ Quantum aspects of optical communications. **93e:81158**

Items with secondary classifications in 81V80

Accardi, Luigi (*with* Lu, Yun Gang) On the weak coupling limit for quantum electrodynamics. (English summary) **93i:81293**
Adam, Gerhard Ordered moments in the case of a one-mode radiation field with Gaussian Wigner functions. (English summary) **93k:81255**
Adam, P. *see* **Földesi, I.; et al., 93j:81040**
Aragone, C. (*with* Mundarain, D.) Comparing quantum entropies and uncertainties for two-mode squeezed, coherent and intelligent spin states. **93a:81074**
Bach, Alexander Why are independent bosons distributed according to Maxwell-Boltzmann statistics? **93b:82006**
Barchielli, Alberto Quantum stochastic calculus: applications to quantum optics. **93b:81125**
— Detection theory in quantum optics and quantum stochastic calculus. (*see* **93e:81158**)
Ben-Aryeh, Y. (*with* Lukš, A.; Peřinová, V.) The concept of equal space commutators in quantum optics. **93d:81189**
Celeghini, E. (*with* Rasetti, Mario; Vitiello, G.) Dissipation in quantum field theory. (*see* **93e:00025**)
Chakrabarti, Ranabir (*with* Jagannathan, Ramaswamy) A two-parameter deformation of the Jaynes-Cummings model: path integral representation. (English summary) **93k:81092**
D'Souza, Richard (*with* Mishra, Adya Prasad) Quasiprobability distributions of negative binomial states. **93b:81102**
Fagnola, Franco (*with* Lu, Yun Gang) The weak coupling limit for free noise. (English summary) **93j:82048**
Fan, Hong Yi[1] *see* **Zhang, Zhong Xi, 93b:81104**
Földesi, I. (*with* Adam, P.; Janszky, J.) Antisymmetric straight line superposition of coherent states. (English summary) **93j:81040**
Gerry, Christopher C. *see* **Hach, Edwin E., III**
Hach, Edwin E., III (*with* Gerry, Christopher C.) Four-photon coherent states. Properties and generation. (English summary)
Honegger, Reinhard (*with* Rieckers, Alfred) On higher-order coherent states of the Weyl algebra. **93d:81082**
Ingarden, Roman S. A new definition and generalization of squeezed states. (English summary) (*see* **93e:81158**)
Jagannathan, Ramaswamy *see* **Chakrabarti, Ranabir, 93k:81092**
Janszky, J. *see* **Földesi, I.; et al., 93j:81040**
Karasëv, V. P. Polynomial deformations of oscillator algebras in quantum theories with internal symmetries. **93k:81073**
Keitel, C. H. (*with* Wódkiewicz, K.) On the information entropy of squeezed states and the entropic uncertainty relation. **93g:81013**
Kolesov, A. Yu. (*with* Kolesov, Yu. S.) Relaxation cycles in systems with delay. (Russian. Russian summary) **93m:34114**
Kolesov, Yu. S. *see* **Kolesov, A. Yu., 93m:34114**
Kuang, Le Man *see* **Wang, Fa Bo, 93m:81067**
Liu, Wen Sen (*with* Tombesi, P.) Eigenstates of a time-dependent quadratic Hamiltonian, a kind of generalized squeezed number states. (English summary) **93f:81049**
Lu, Yun Gang *see* **Accardi, Luigi, 93i:81293** *and* **Fagnola, Franco, 93j:82048**
Lukš, A. *see* **Ben-Aryeh, Y.; et al., 93d:81189**
Mihalache, D. (*with* Panoiu, N. C.) Exact solutions of nonlinear Schrödinger equation for positive group velocity dispersion. **93h:78011**
Mishra, Adya Prasad *see* **D'Souza, Richard, 93b:81102**
Misirpashaev, T. Sh. (*with* Volovik, G. E.) Topology of coherent precession in superfluid ^{3}He-B. (Russian) **93i:82083**
Moloney, Jerome V. *see* **Newell, Alan C., 93i:78010**
Mukunda, N. *see* **Simon, Rajiah, 93k:81067**
Mundarain, D. *see* **Aragone, C., 93a:81074**
Newell, Alan C. (*with* Moloney, Jerome V.) ★ Nonlinear optics. **93i:78010**
Ohya, Masanori Information dynamics and its applications to optical communication processes. (English summary) (*see* **93e:81158**)

Orłowski, Arkadiusz A new quasi-probability approach to the squeezing of quantum fluctuations. **93f:81050**
Panoiu, N. C. *see* **Mihalache, D., 93h:78011**
Peřinová, V. *see* **Ben-Aryeh, Y.; et al., 93d:81189**
Rasetti, Mario *see* **Celeghini, E.; et al., (93e:00025)**
Rieckers, Alfred *see* **Honegger, Reinhard, 93d:81082**
Savage, Craig M. Chaos in dissipative quantum systems. **93a:81054**
Simon, Rajiah (*with* Mukunda, N.) Bargmann invariant and the geometry of the Güoy effect. (English summary) **93k:81067**
Stenholm, Stig Simultaneous measurement of conjugate variables. (English summary) **93k:81028**
Takagi, Shin Quantum dynamics and noninertial frames of reference. II. Harmonic oscillators. **93c:81035**
Tombesi, P. *see* **Liu, Wen Sen, 93f:81049**
Umezawa, H. Origin of nonquantum noise and time dependent thermofield dynamics. **93b:82050**
Vitiello, G. *see* **Celeghini, E.; et al., (93e:00025)**
Volovik, G. E. *see* **Misirpashaev, T. Sh., 93i:82083**
Wang, Fa Bo (*with* Kuang, Le Man) Even and odd q-coherent states and their optical statistics properties. (English summary) **93m:81067**
Wódkiewicz, K. *see* **Keitel, C. H., 93g:81013**
Zhang, Zhong Xi (*with* Fan, Hong Yi[1]) Properties of states generated by excitations on a squeezed vacuum state. **93b:81104**
Żakowski, Marek Definite values for observables versus quantum predictions: a "GHZ-like" test. **93b:81032**
— GHZ correlations in quadrature phase measurements. **93b:81033**

81V99 None of the above, but in this section

Items with secondary classifications in 81V99

Andrianov, I. V. (*with* Manevich, L. I.) Asymptotology. I. Problems, ideas and results. (English summary)
Axenides, Minos Aspects of Q-matter stability. (English summary) **93g:81205**
Caianiello, Eduardo R. Quantum and other physics as systems theory. **93j:81010**
Cheng, K. M. (*with* Fung, P. C. W.) Certain properties of Berry's phases in supersymmetric quantum mechanics. II. (English summary) **93m:81038**
Decker, Roger *see* **Genz, Henning, 93a:81001**
Fung, P. C. W. *see* **Cheng, K. M., 93m:81038**
Genz, Henning (*with* Decker, Roger) ★ Symmetrie und Symmetriebrechung in der Physik. (German) [Symmetry and symmetry-breaking in physics] **93a:81001**
Manevich, L. I. *see* **Andrianov, I. V.**
Rosenberg, R. M. Some remarks about time in Newtonian particle mechanics. **93c:70004**
Shen, Shun Qing (*with* Wu, Xiao Hui; Tao, Rui Bao) The atomic hydrogen in two spatial dimensions. (English summary) **93i:81027**
Tao, Rui Bao *see* **Shen, Shun Qing; et al., 93i:81027**
Wu, Xiao Hui *see* **Shen, Shun Qing; et al., 93i:81027**

82–XX Statistical mechanics, structure of matter

82–01 Instructional exposition (textbooks, tutorial papers, etc.)

(Kisin, Vitaly I.) *see* **Martynov, G. A., 93i:82001**
Martynov, G. A. ★ Fundamental theory of liquids. **93i:82001**
Ruzmaikin, A. A. *see* **Zel'dovich, Ya. B.; et al., 93b:82001**
(Shukurov, A. M.) *see* **Zel'dovich, Ya. B.; et al., 93b:82001**
Sokolov, D. D. *see* **Zel'dovich, Ya. B.; et al., 93b:82001**
Zel'dovich, Ya. B. (*with* Ruzmaikin, A. A.; Sokolov, D. D.) ★ The almighty chance. **93b:82001**

Items with secondary classifications in 82–01

Brézin, Édouard Introduction to critical phenomena and to the renormalization group. **93e:82024**
(Eschrig, H.) *see* **Lifshits, E. M., 93g:00002**
Griffiths, Robert B. Commensurate-incommensurate transitions and area-preserving maps: the Frenkel-Kontorova model. **93g:82030**
(Jäger, Eberhard) *see* **Lifshits, E. M., 93b:00001b** *and* **93g:00002**
Joshua, S. J. ★ Symmetry principles and magnetic symmetry in solid state physics.
Lawrie, Ian D. ★ A unified grand tour of theoretical physics. **93a:00012**
(Lenk, Richard) *see* **Lifshits, E. M., 93b:00001b**
Lifshits, E. M. (*with* Pitaevskiĭ, L. P.) ★ Lehrbuch der theoretischen Physik ("Landau-Lifschitz"). Band V. (German) [Textbook of theoretical physics ("Landau-Lifschitz"). Vol. V] **93b:00001b**
— (*with* Pitaevskiĭ, L. P.) ★ Lehrbuch der theoretischen Physik ("Landau-Lifschitz"). Band IX. (German) [Course of theoretical physics ("Landau-Lifschitz"). Vol. IX] **93g:00002**
Pitaevskiĭ, L. P. *see* **Lifshits, E. M., 93b:00001b** *and* **93g:00002**
(Ziesche, Paul) *see* **Lifshits, E. M., 93b:00001b** *and* **93g:00002**

82–02 Research exposition (monographs, survey articles)

Duplantier, Bertrand Statistical mechanics on a 2D-random surface. (English summary) **93e:82001**
Fort, Jean-Claude *see* **Prum, Bernard, 93k:82001**
Ginsparg, P. Some statistical mechanical models and conformal field theories. **93g:82001**
Mahan, Gerald D. ★ Many-particle physics. **93a:82001**
Prum, Bernard (*with* Fort, Jean-Claude) ★ Stochastic processes on a lattice and Gibbs measures. **93k:82001**
(Schwarzbach, Bertram Eugene) *see* **Prum, Bernard, 93k:82001**
Thompson, Colin J. Validity of mean-field theories in critical phenomena. **93h:82001**

Items with secondary classifications in 82–02

Altmann, Simon L. ★ Band theory of solids: an introduction from the point of view of symmetry. **93g:82097**
Ambjørn, Jan Regularized quantum gravity and string theory. (English summary) **93f:81101**
Barber, Michael N. The Potts model. **93d:82018**
Bellman, R. (*with* Wing, G. Milton) ★ An introduction to invariant imbedding. **93i:82066**
Benfatto, G. The one-dimensional spinless Fermi gas and the Luttinger model. (English summary) **93j:82030**
Bunimovich, L. A. Phase transitions in Lorentz-type gases. **93d:82057**
Cornille, Henri Shock waves for the two speeds $8v_i$, $14v_i$ and $24v_i$ discrete Boltzmann models with temperature. (English summary) **93j:82060**
Dobrushin, R. L. (*with* Kotecký, Roman; Shlosman, S. B.) ★ Wulff construction. (English. English summary) **93k:82002**
Dorlas, T. C. Large deviations for some models of an interacting Bose gas. (English summary) (*see* **93c:81005**)
Drouffe, Jean-Michel *see* **Itzykson, Claude, 93k:81003a** *and* **93k:81003b**
Edwards, S. F. Some reminiscences of the sixties. **93g:82053**
Emch, Gérard G. Kolmogorov flows, dynamical entropies and mechanics. (English summary) (*see* **93e:81006**)
Fischer, K. H. (*with* Hertz, J. A.) ★ Spin glasses. **93m:82019**
Gallavotti, Giovanni Quasi-particles and scaling properties at the Fermi surface. (*see* **93g:81002**)
Gonchar, N. S. ★ Конденсация и кристаллизация. (Russian) [Condensation and crystallization] **93d:82009**
Henkel, Malte Two-dimensional spin systems in an external magnetic field. (English summary) **93i:82012**
Hertz, J. A. *see* **Fischer, K. H., 93m:82019**
(Holický, P.) *see* **Malyshev, V. A., 93i:82003**
Hoppe, Jens ★ Lectures on integrable systems. **93h:58069**
Illner, Reinhard Solutions of the steady Boltzmann equation in a slab: applied problems, pure results. (English summary) (*see* **93f:82001**)
Itzykson, Claude (*with* Drouffe, Jean-Michel) ★ Statistical field theory. Vol. 1. **93k:81003a**
— (*with* Drouffe, Jean-Michel) ★ Statistical field theory. Vol. 2. **93k:81003b**
Jimbo, Michio Solvable lattice models and quantum groups. **93g:82036**
(Kalaba, Robert) *see* **Bellman, R., 93i:82066**
Kotani, Shinichi Random Schrödinger operators. **93d:82048**
Kotecký, Roman *see* **Dobrushin, R. L.; et al., 93k:82002** *and* **Malyshev, V. A., 93i:82003**
Lieb, Elliott H. Absence of ferromagnetism for one-dimensional itinerant electrons. (*see* **93g:81002**)
Lions, Pierre-Louis On kinetic equations. **93c:82051**
Mackey, Michael C. ★ Time's arrow: the origins of thermodynamic behavior. **93a:82003**
— ★ Time's arrow: the origins of thermodynamic behavior. **93a:82003**
Malyshev, V. A. (*with* Minlos, R. A.) ★ Gibbs random fields. **93i:82003**
Martinelli, Fabio Multiscale analysis in random dynamics. (English summary) (*see* **93e:00033**)
— A dynamical proof of the phase transition for the Ising model. (English summary) (*see* **93g:81002**)
McCourt, F. R. W. Status of kinetic theory. **93c:82052**
McCoy, Barry M. The chiral Potts model: from physics to mathematics and back. **93c:82021**
Minlos, R. A. *see* **Malyshev, V. A., 93i:82003**
Miwa, Tetsuji Solvable lattice models and representation theory of quantum groups. **93d:82036**
Mogil'ner, A. I. Hamiltonians in solid-state physics as multiparticle discrete Schrödinger operators: problems and results. **93d:82022**
Nakhapetyan, B. S. ★ Limit theorems and some applications in statistical physics. **93b:60045**
Ojima, Izumi Entropy production and nonequilibrium stationarity in quantum dynamical systems. (English summary) (*see* **93e:81158**)
Privman, Vladimir Finite-size scaling: new results. **93d:82040**
Schlijper, A. G. Entropy and Markov properties of equilibrium states of lattice models. (English summary) **93i:82020**
Seiler, Ruedi On the quantum Hall-effect. (*see* **93e:81007**)
Sewell, Geoffrey L. Nonequilibrium statistical mechanics: dynamics of macroscopic observables. (English summary) **93g:82077**
Shlosman, S. B. *see* **Dobrushin, R. L.; et al., 93k:82002**
Ul'yanov, Vladimir Vladimirovich (*with* Zaslavskiĭ, O. B.) New methods in the theory of quantum spin systems. (English summary) **93g:82025**
Wehrl, A. The many facets of entropy. **93f:82004**
(Wilczek, Frank) *see* **Fractional statistics in action, 93e:81002**
Wing, G. Milton *see* **Bellman, R., 93i:82066**
Zaslavskiĭ, O. B. *see* **Ul'yanov, Vladimir Vladimirovich, 93g:82025**

Items listed otherwise than by author

Fractional statistics in action ★ Fractional statistics in action. **93e:81002**
Special Issue:
Fractional statistics in action ★ Fractional statistics in action. **93e:81002**

82–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 82–03

Edwards, S. F. Some reminiscences of the sixties. **93g:82053**

82–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 82–04

Alexander, Francis J. (*with* Cheng, Zheming; Janowsky, Steven A.; Lebowitz, Joel L.) Shock fluctuations in the two-dimensional asymmetric simple exclusion process. (English summary) **93g:82066**

Asadzadeh, Mohammad (*with* Kumlin, Peter; Larsson, Stig) The discrete ordinates method for the neutron transport equation in an infinite cylindrical domain. (English summary) **93i:82064**

Brak, R. (*with* Guttmann, A. J.; Whittington, S. G.) On the behaviour of collapsing linear and branched polymers. **93a:82070**

Chang, C. Y. (*with* Hui, P. M.; Yu, Kin Wah) Zero-temperature entropy of fully frustrated generalized Sierpiński gaskets. (English summary) **93k:82011**

Cheng, Zheming *see* **Alexander, Francis J.; et al., 93g:82066**

Chorin, Alexandre Joel A vortex model with superfluid and turbulent percolation. (English summary) **93j:82075**

Cornille, Henri Exact periodic solutions for a class of multispeed discrete Boltzmann models. (English summary) (*see* **93e:00025**)

Drunk, W. (*with* Fuchs, D.; Zirnbauer, Martin R.) Migdal-Kadanoff renormalization of a nonlinear supervector model with hyperbolic symmetry. **93g:82027**

Frankowicz, M. *see* **Górecki, J.; et al., (93a:60004)**

Fuchs, D. *see* **Drunk, W.; et al., 93g:82027**

Gonchar, N. S. (*with* Rudyk, A. B.) Oscillation of the radial distribution function. (English summary) **93g:82029**

Górecki, J. (*with* Kawczyński, A. L.; Frankowicz, M.) Molecular dynamics simulations of oscillations in thermochemical systems. (*see* **93a:60004**)

Gredeskul, S. A. (*with* Kivshar, Yu. S.) Propagation and scattering of nonlinear waves in disordered systems. **93d:82079**

Gulyan, A. M. (*with* Zharkov, G. F.; Sergoyan, G. M.) Time-dependent Ginzburg-Landau equations for superconductors with finite gap. (Russian) **93d:82083**

Guttmann, A. J. *see* **Brak, R.; et al., 93a:82070**

Henkel, Malte Two-dimensional spin systems in an external magnetic field. (English summary) **93i:82012**

Hilhorst, H. J. *see* **Nifle, M., 93c:82027**

Hui, P. M. *see* **Chang, C. Y.; et al., 93k:82011**

Janowsky, Steven A. *see* **Alexander, Francis J.; et al., 93g:82066**

Kawashima, Naoki *see* **Kinosita, Yosinori; et al., 93j:82037**

Kawczyński, A. L. *see* **Górecki, J.; et al., (93a:60004)**

Kim, Doochul *see* **Noh, Jae Dong, 93f:82012**

Kinosita, Yosinori (*with* Kawashima, Naoki; Suzuki, Masuo) Coherent-anomaly analysis of series expansions and its application to the Ising model. (English summary) **93j:82037**

Kivshar, Yu. S. *see* **Gredeskul, S. A., 93d:82079**

Kumlin, Peter *see* **Asadzadeh, Mohammad; et al., 93i:82064**

Langlands, Robert P. (*with* Pichet, C.; Pouliot, Ph.; Saint-Aubin, Yvan) On the universality of crossing probabilities in two-dimensional percolation. **93e:82028**

Larsson, Stig *see* **Asadzadeh, Mohammad; et al., 93i:82064**

Lebowitz, Joel L. *see* **Alexander, Francis J.; et al., 93g:82066**

Livi, R. (*with* Politi, Antonio; Ruffo, Stefano) Scaling-law for the maximal Lyapunov exponent. (English summary) **93g:82087**

Mainieri, Ronnie Cycle expansion for the Lyapunov exponent of a product of random matrices. **93e:82029**

Martynov, S. N. Spectral and dispersion properties of paired soliton states in a quasi-one-dimensional anisotropic antiferromagnet with $S = 1/2$. (Russian. English and Russian summaries) **93f:82063**

Menyhárd, Nóra One-dimensional kinetic Ising model with unusual dynamics. **93c:82057**

Mojumder, M. A. $(2,0)$ supersymmetric string theory and the critical exponents of the 3D Ising model. **93f:82011**

Nifle, M. (*with* Hilhorst, H. J.) New critical-point exponent and new scaling laws for short-range Ising spin glasses. **93c:82027**

Noh, Jae Dong (*with* Kim, Doochul) Phase boundary and universality of the triangular lattice antiferromagnetic Ising model. (English summary) **93f:82012**

Pichet, C. *see* **Langlands, Robert P.; et al., 93e:82028**

Politi, Antonio *see* **Livi, R.; et al., 93g:82087**

Pouliot, Ph. *see* **Langlands, Robert P.; et al., 93e:82028**

Rudyk, A. B. *see* **Gonchar, N. S., 93g:82029**

Ruffo, Stefano *see* **Livi, R.; et al., 93g:82087**

Saint-Aubin, Yvan *see* **Langlands, Robert P.; et al., 93e:82028**

Schmeiser, C. (*with* Unterreiter, Andreas; Weiss, Richard) The switching behavior of a one-dimensional PN-diode in low injection. (English summary)

Sergoyan, G. M. *see* **Gulyan, A. M.; et al., 93d:82083**

Sukhinov, A. I. (*with* Vasil′ev, V. S.) Mathematical modeling of charge transfer in devices with charge connection. (Russian. Russian summary) **93g:82110**

Sun, Tao (*with* Yang, Zhong Jin) How far can a random walker go? **93e:82027**

Suzuki, Masuo *see* **Kinosita, Yosinori; et al., 93j:82037**

Unterreiter, Andreas *see* **Schmeiser, C.; et al.**

Vasil′ev, V. S. *see* **Sukhinov, A. I., 93g:82110**

Vicsek, Mária (*with* Vicsek, Tamás) ★ Fractal growth. **93k:82064b**

Vicsek, Tamás *see* **Vicsek, Mária, 93k:82064b**

Weiss, Richard *see* **Schmeiser, C.; et al.**

Whittington, S. G. *see* **Brak, R.; et al., 93a:82070**

Yang, Zhong Jin *see* **Sun, Tao, 93e:82027**

Yu, Kin Wah *see* **Chang, C. Y.; et al., 93k:82011**

Zharkov, G. F. *see* **Gulyan, A. M.; et al., 93d:82083**

Zirnbauer, Martin R. *see* **Drunk, W.; et al., 93g:82027**

82–06 Proceedings, conferences, collections, etc.

(Alves, A. S.) *see* **Discrete models of fluid dynamics, 93f:82001**

(Amann, Anton) *see* **Large-scale molecular systems, 93c:82001**

(Blumen, Alexander) *see* **Large-scale molecular systems, 93c:82001**

(Bogolyubov, N. N.) *see* **Statistical mechanics and the theory of dynamical systems**

(Boon, Jean-Pierre) *see* **Workshop: Lattice Gas Automata, 93d:82002**

(Chakrabarti, Bikas K.) *see* **Statistical physics of disordered solids, polymers and glasses, 93c:82002**

(Gans, Werner) *see* **Large-scale molecular systems, 93c:82001**

(Hess, Siegfried) *see* **Statistical physics, 93i:82002**

(Kosiński, Witold) *see* **Thermodynamics and kinetic theory, 93a:82002**

(Larecki, Wiesław) *see* **Thermodynamics and kinetic theory, 93a:82002**

(Mookerjee, Abhijit) *see* **Statistical physics of disordered solids, polymers and glasses, 93c:82002**

(Morf, R.) *see* **Physics in two dimensions, 93d:82001**

(Morro, Angelo) *see* **Thermodynamics and kinetic theory, 93a:82002**

(Nelson, Paul, Jr.) *see* **Proceedings: Workshop on Mathematical Aspects of Fluid and Plasma Dynamics, 93f:82002**

(Sone, Yoshio) *see* **Proceedings: Workshop on Mathematical Aspects of Fluid and Plasma Dynamics, 93f:82002**

(Zorski, Henryk) *see* **Thermodynamics and kinetic theory, 93a:82002**

Items listed otherwise than by author

Acquafredda di Maratea ★ Large-scale molecular systems. **93c:82001**

Berlin ★ Statistical physics. **93i:82002**

Birthday:
Bogolyubov, N. N. ★ Statistical mechanics and the theory of dynamical systems.

Calcutta ★ Statistical physics of disordered solids, polymers and glasses. **93c:82002**

Colloquium:
Discrete Models of Fluid Dynamics ★ Discrete models of fluid dynamics. **93f:82001**

Conference:
Physics in Two Dimensions ★ Physics in two dimensions. **93d:82001**
Statistical Physics ★ Statistical physics. **93i:82002**

Discrete models of fluid dynamics ★ Discrete models of fluid dynamics. **93f:82001**

Figueira da Foz ★ Discrete models of fluid dynamics. **93f:82001**

Kyoto ★ Proceedings of the Fourth International Workshop on Mathematical Aspects of Fluid and Plasma Dynamics. **93f:82002**

Large-scale molecular systems ★ Large-scale molecular systems. **93c:82001**

Mądralin ★ Thermodynamics and kinetic theory. **93a:82002**

Meeting:
Thermodynamics and Kinetic Theory ★ Thermodynamics and kinetic theory. **93a:82002**

NATO Advanced Research Workshop:
Lattice Gas Automata, Theory, Implementation, Simulations ★ Advanced Research Workshop on Lattice Gas Automata. **93d:82002**

NATO Advanced Study Institute:
Large-scale Molecular Systems: Quantum and Stochastic Aspects—Beyond the Simple Molecular Picture ★ Large-scale molecular systems. **93c:82001**

Neuchâtel ★ Physics in two dimensions. **93d:82001**

Nice ★ Advanced Research Workshop on Lattice Gas Automata. **93d:82002**

Physics in two dimensions ★ Physics in two dimensions. **93d:82001**

Proceedings:
Workshop on Mathematical Aspects of Fluid and Plasma Dynamics ★ Proceedings of the Fourth International Workshop on Mathematical Aspects of Fluid and Plasma Dynamics. **93f:82002**

Statistical mechanics and the theory of dynamical systems ★ Statistical mechanics and the theory of dynamical systems.

Statistical physics ★ Statistical physics. **93i:82002**

Statistical physics of disordered solids, polymers and glasses ★ Statistical physics of disordered solids, polymers and glasses. **93c:82002**

Thermodynamics and kinetic theory ★ Thermodynamics and kinetic theory. **93a:82002**

Workshop:
Lattice Gas Automata ★ Advanced Research Workshop on Lattice Gas Automata. **93d:82002**
Mathematical Aspect of Fluid and Plasma Dynamics ★ Proceedings of the Fourth International Workshop on Mathematical Aspects of Fluid and Plasma Dynamics. **93f:82002**
Statistical Physics of Disordered Solids, Polymers and Glasses ★ Statistical physics of disordered solids, polymers and glasses. **93c:82002**

Items with secondary classifications in 82–06

(Aharony, Amnon) *see* **Fractals in physics, 93d:58004**

(Albeverio, Sergio) *see* **Ideas and methods in quantum and statistical physics, 93e:00034**

(van Baal, Pierre) *see* **Lattice 92, 93m:81005**

(Bar′yakhtar, V. G.) *see* **Nonlinear world, 93b:00013**

(Chernousenko, V. M.) *see* **Nonlinear world, 93b:00013**

(Curtright, Thomas) *see* **Quantum field theory, statistical mechanics, quantum groups and topology, 93m:81007**

(Eguchi, Tohru) *see* **Infinite analysis, 93g:00027**

(Erokhin, N. S.) *see* **Nonlinear world, 93b:00013**

(Family, Fereydoon) *see* **Dynamics of fractal surfaces, 93i:82039**

(Feder, Jens) *see* **Fractals in physics, 93d:58004**

(Fenstad, Jens Erik) *see* **Ideas and methods in quantum and statistical physics, 93e:00034**

(Germogenova, T. A.) *see* **Frontiers in numerical transport theory, 93i:82070**

(Godrèche, C.) *see* **Solids far from equilibrium, 93g:82042**

(Guerra, Francesco) *see* **Probabilistic methods in mathematical physics, 93g:81002**

(Györgyi, Géza) *see* **From phase transitions to chaos, 93b:58001**

(Høegh-Krohn, Raphael) *see* **Ideas and methods in quantum and statistical physics, 93e:00034**

(Holden, Helge) *see* **Ideas and methods in quantum and statistical physics, 93e:00034**

(den Hollander, Frank) *see* **Seminar: Probability and Physics, 93f:00019**
(Jimbo, Michio) *see* **Infinite analysis, 93g:00027**
(Kondor, Imre) *see* **From phase transitions to chaos, 93b:58001**
(Lindstrøm, Tom) *see* **Ideas and methods in quantum and statistical physics, 93e:00034**
(Loffredo, Maria I.) *see* **Probabilistic methods in mathematical physics, 93g:81002**
(Maassen, H.) *see* **Seminar: Probability and Physics, 93f:00019**
(Mandelbrot, Benoit B.) *see* **Fractals in physics, 93d:58004** *and* **Vicsek, Tamás, 93k:82064a**
(Marchioro, Carlo) *see* **Probabilistic methods in mathematical physics, 93g:81002**
(Martellini, Maurizio) *see* **Topological and quantum group methods in field theory and condensed matter physics, 93e:81008**
(Mezincescu, Luca) *see* **Quantum field theory, statistical mechanics, quantum groups and topology, 93m:81007**
(Nelson, Paul, Jr.) *see* **Frontiers in numerical transport theory, 93i:82070**
(Nepomechie, Rafael I.) *see* **Quantum field theory, statistical mechanics, quantum groups and topology, 93m:81007**
(Petrina, D. Ya.) *see* **Methods of mathematical physics in infinite systems, 93e:81004**
(Peyrard, Michel) *see* **Nonlinear coherent structures in physics and biology, 93e:00025**
(Rasetti, Mario) *see* **Topological and quantum group methods in field theory and condensed matter physics, 93e:81008**
(Remoissenet, M.) *see* **Nonlinear coherent structures in physics and biology, 93e:00025**
(Sasvári, László) *see* **From phase transitions to chaos, 93b:58001**
(Sitenko, A. G.) *see* **Nonlinear world, 93b:00013**
(Smit, Jan) *see* **Lattice 92, 93m:81005**
(Szépfalusy, Péter) *see* **From phase transitions to chaos, 93b:58001**
(Tél, Tamás) *see* **From phase transitions to chaos, 93b:58001**
(Tirapegui, Enrique) *see* **Instabilities and nonequilibrium structures, 93b:00027**
(Tsuchiya, Akihiro) *see* **Infinite analysis, 93g:00027**
Vicsek, Tamás ★ Fractal growth phenomena. **93k:82064a**
— *see also* **Dynamics of fractal surfaces, 93i:82039**
(Wilczek, Frank) *see* **Fractional statistics in action, 93e:81002**
(Zakharov, V. E.) *see* **Nonlinear world, 93b:00013**
(Zeller, W.) *see* **Instabilities and nonequilibrium structures, 93b:00027**

Items listed otherwise than by author

Amsterdam ★ Mark Kac Seminar on Probability and Physics. Syllabus 1987–1992. **93f:00019**
— ★ Lattice 92. **93m:81005**
Bibliography:
Mandelbrot, Benoit B. ★ Fractals in physics. **93d:58004**
Birthday:
Mandelbrot, Benoit B. ★ Fractals in physics. **93d:58004**
College Station, TX ★ Frontiers in numerical transport theory. **93i:82070**
Conference:
Fractals in Physics ★ Fractals in physics. **93d:58004**
Coral Gables, FL ★ Quantum field theory, statistical mechanics, quantum groups and topology. **93m:81007**
Dijon ★ Nonlinear coherent structures in physics and biology. **93e:00025**
Dynamics of fractal surfaces ★ Dynamics of fractal surfaces. **93i:82039**
Festschrift:
Szépfalusy, Péter ★ From phase transitions to chaos. **93b:58001**
Fractals in physics ★ Fractals in physics. **93d:58004**
Fractional statistics in action ★ Fractional statistics in action. **93e:81002**
From phase transitions to chaos ★ From phase transitions to chaos. **93b:58001**
Frontiers in numerical transport theory ★ Frontiers in numerical transport theory. **93i:82070**
Ideas and methods in quantum and statistical physics ★ Ideas and methods in quantum and statistical physics. **93e:00034**
Infinite analysis ★ Infinite analysis. Part A, B. **93g:00027**
Instabilities and nonequilibrium structures ★ Instabilities and nonequilibrium structures. III. **93b:00027**
Kiev ★ Nonlinear world. Vol. 2. **93b:00013**
Kyoto ★ Infinite analysis. Part A, B. **93g:00027**
Lattice 92 ★ Lattice 92. **93m:81005**
Lecture Notes in Physics ★ Nonlinear coherent structures in physics and biology. **93e:00025**
Methods of mathematical physics in infinite systems ★ Методы математической физики бесконечных систем. (Russian) [Methods of mathematical physics in infinite systems] **93e:81004**
NATO Advanced Research Workshop:
Quantum Field Theory, Statistical Mechanics, Quantum Groups and Topology ★ Quantum field theory, statistical mechanics, quantum groups and topology. **93m:81007**
Nonlinear coherent structures in physics and biology ★ Nonlinear coherent structures in physics and biology. **93e:00025**
Nonlinear world ★ Nonlinear world. Vol. 2. **93b:00013**
Oslo ★ Ideas and methods in quantum and statistical physics. **93e:00034**
Probabilistic methods in mathematical physics ★ Probabilistic methods in mathematical physics. **93g:81002**
Quantum field theory, statistical mechanics, quantum groups and topology ★ Quantum field theory, statistical mechanics, quantum groups and topology. **93m:81007**
Seminar:
Probability and Physics ★ Mark Kac Seminar on Probability and Physics. Syllabus 1987–1992. **93f:00019**
Siena ★ Probabilistic methods in mathematical physics. **93g:81002**
Solids far from equilibrium ★ Solids far from equilibrium. **93g:82042**
Special Issue:
Fractional statistics in action ★ Fractional statistics in action. **93e:81002**
Topological and quantum group methods in field theory and condensed matter physics ★ Topological and quantum group methods in field theory and condensed matter physics. **93e:81008**
Symposium:
Ideas and Methods in Mathematics and Physics ★ Ideas and methods in quantum and statistical physics. **93e:00034**
Lattice Field Theory ★ Lattice 92. **93m:81005**
Topological and quantum group methods in field theory and condensed matter physics ★ Topological and quantum group methods in field theory and condensed matter physics. **93e:81008**
Valparaíso ★ Instabilities and nonequilibrium structures. III. **93b:00027**
Vence ★ Fractals in physics. **93d:58004**
Workshop:
Instabilities and Nonequilibrium Structures ★ Instabilities and nonequilibrium structures. III. **93b:00027**
Nonlinear and Turbulent Processes in Physics ★ Nonlinear world. Vol. 2. **93b:00013**
Nonlinear Coherent Structures in Physics and Biology ★ Nonlinear coherent structures in physics and biology. **93e:00025**
Numerical Transport Theory ★ Frontiers in numerical transport theory. **93i:82070**
Probabilistic Methods in Mathematical Physics ★ Probabilistic methods in mathematical physics. **93g:81002**

82–08 Computational methods

Joseph, Mvogo Ngono *see* **Onana, Awono; et al.**
Kwankam, S. Yunkap *see* **Onana, Awono; et al.**
Onana, Awono (*with* Kwankam, S. Yunkap; Joseph, Mvogo Ngono) Solution of the two-dimensional neutron transport equation by a hierarchical finite element method. (English summary)

Items with secondary classifications in 82–08

Anistratov, D. Yu. (*with* Gol'din, V. Ya.) Nonlinear methods for solving particle transport problems. (English summary) **93m:82042**
Argon, Ali S. *see* **Mott, Peter H.; et al.**
Averin, A. V. (*with* Voloshchenko, A. M.) A consistent P_1 synthetic acceleration method for outer iterations. (Russian. English summary) **93c:65121**
(Germogenova, T. A.) *see* **Frontiers in numerical transport theory, 93i:82070**
Gol'din, V. Ya. *see* **Anistratov, D. Yu., 93m:82042**
Kamphorst Leal da Silva, J. *see* **das Neves, A.; et al., 93i:82015**
Larsen, Edward W. *see* **Miften, M. M., 93k:82061**
Miften, M. M. (*with* Larsen, Edward W.) The quasi-diffusion method for solving transport problems in planar and spherical geometries. (English summary) **93k:82061**
Mott, Peter H. (*with* Argon, Ali S.; Suter, Ulrich W.) The atomic strain tensor.
(Nelson, Paul, Jr.) *see* **Frontiers in numerical transport theory, 93i:82070**
das Neves, A. (*with* Kamphorst Leal da Silva, J.; Plascak, J. A.) Some exact results from the mean field renormalization group. (English summary) **93i:82015**
Plascak, J. A. *see* **das Neves, A.; et al., 93i:82015**
Shmueli, Uri (*with* Weiss, George H.) Exact conditional joint probability distribution of a three-phase invariant in space group P2. I. Derivation of the Fourier coefficients. **93f:82060**
Suter, Ulrich W. *see* **Mott, Peter H.; et al.**
Voloshchenko, A. M. *see* **Averin, A. V., 93c:65121**
Weiss, George H. *see* **Shmueli, Uri, 93f:82060**
Zaslavskiĭ, L. Yu. An adaptive algebraic multigrid for multigroup neutron diffusion reactor core calculations. (English summary) **93k:82073**

Items listed otherwise than by author

College Station, TX ★ Frontiers in numerical transport theory. **93i:82070**
Frontiers in numerical transport theory ★ Frontiers in numerical transport theory. **93i:82070**
Workshop:
Numerical Transport Theory ★ Frontiers in numerical transport theory. **93i:82070**

82Bxx Equilibrium statistical mechanics

82B03 Foundations

Banach, Zbigniew (*with* Piekarski, Sławomir) The Einstein-Smoluchowski promeasure. **93d:82003**
— (*with* Piekarski, Sławomir) The Einstein-Smoluchowski promeasure for (quasiparticle) gases. **93d:82004**
Barrett, Martin (*with* Sober, Elliott) Is entropy relevant to the asymmetry between retrodiction and prediction? (English summary) **93h:82002**
Beghian, L. E. The theorem of equipartition of energy revisited. (English summary) **93f:82003**
— Statistical foundations of thermal equilibrium. **93g:82002**
Bowick, Mark J. Quantum statistical mechanics and multiplicative number theory. **93e:82002**
Chen, Nan Xian Unified expression for Fermi and Bose distributions. (English summary) **93g:82003**
Ebeling, Werner On the relation between the entropy concepts of Clausius, Boltzmann, Gibbs, Shannon and Kolmogorov. **93c:82003**
Flippen, L. D., Jr. Abstract Zwanzig model reduction theory with application to discretized linear systems. (English summary) **93j:82001**
Grandy, W. T., Jr. On randomness and thermodynamics. **93c:82004**
Hlawka, Edmund Gleichverteilung—Entropie (Das Entropiespiel von T. and P. Ehrenfest) [oder: Über Hausfrauen und Dämone]. (English summary) [Uniform distribution—entropy (The entropy game of T. and P. Ehrenfest) [or: On housewives and demons]] **93m:82001**
Kapur, J. N. Generalised Fermi-Dirac distributions and maximum-entropy principle. (English and Italian summaries)

Levitin, Lev B. Physical information theory for 30 years: basic concepts and results. (*see* **93e:81158**)
Mackey, Michael C. ★ Time's arrow: the origins of thermodynamic behavior. **93a:82003**
Narayanan, Rajamani S. Statistical models based on conditional probability distributions. **93d:82005**
Picci, Giorgio Markovian representation of linear Hamiltonian systems. (English summary) (*see* **93g:81002**)
Piekarski, Sławomir *see* **Banach, Zbigniew**, **93d:82003** *and* **93d:82004**
Sober, Elliott *see* **Barrett, Martin**, **93h:82002**
Suchanecki, Zdzisław Exactness and irreversibility in classical and quantum dynamical systems. **93d:82006**
Wehrl, A. The many facets of entropy. **93f:82004**

Items with secondary classifications in 82B03

Bach, Alexander Indistinguishability, interchangeability, and indeterminism. **93i:81005**
Balachandran, A. P. (*with* Ercolessi, E.) Statistics on networks. (English summary) **93d:81025**
Compagner, Aaldert The hierarchy of correlations in random binary sequences. **93c:65012**
Costantini, Domenico (*with* Garibaldi, Ubaldo) A probabilistic formulation of Pauli's exclusion principle in the context of predictive inference. (Italian. English and Italian summaries) **93f:81008**
Ercolessi, E. *see* **Balachandran, A. P.**, **93d:81025**
Garibaldi, Ubaldo *see* **Costantini, Domenico**, **93f:81008**
Goderis, D. (*with* Maes, Christian) Constructing quantum dissipations and their reversible states from classical interacting spin systems. (French summary) **93d:82014**
Lange, Bogdan Quantum statistics as a basis of the epistemological interpretation of quantum mechanics. (Polish)
Leggett, A. J. On the nature of research in condensed-state physics. **93c:00002**
Maes, Christian *see* **Goderis, D.**, **93d:82014**
Montgomery, R. Heisenberg and isoholonomic inequalities. **93g:81058**
Schiffer, Marcelo Quantum limit for information transmission. **93d:81026**
(Zurek, Wojciech H.) *see* **Complexity, entropy and the physics of information**, **93m:81004**

Items listed otherwise than by author

Complexity, entropy and the physics of information ★ Complexity, entropy and the physics of information. **93m:81004**
Santa Fe, NM ★ Complexity, entropy and the physics of information. **93m:81004**
Workshop:
Complexity, Entropy and the Physics of Information ★ Complexity, entropy and the physics of information. **93m:81004**

82B05 Classical equilibrium statistical mechanics (general)

Arzumanyan, V. A. (*with* Nakhapetyan, B. S.; Pogosyan, S. K.) A local limit theorem for the number of particles in lattice spin systems. (Russian. English summary) **93d:82007**
Basor, Estelle L. (*with* Tracy, Craig A.; Widom, Harold) Asymptotics of level-spacing distributions for random matrices. **93g:82004a**
— (*with* Tracy, Craig A.; Widom, Harold) Errata: "Asymptotics of level-spacing distributions for random matrices". **93g:82004b**
Copeland, E. (*with* Haws, D.; Holbraad, S.; Rivers, R. J.) The statistical mechanics of interacting strings. **93d:82008**
Derrida, B. The zeroes of the partition function of the random energy model. **93b:82002**
Dobrushin, R. L. (*with* Kotecký, Roman; Shlosman, S. B.) ★ Wulff construction. (English. English summary) **93k:82002**
van Enter, Aernout C. D. Nonperiodic ground and Gibbs states. (*see* **93b:00022**)
Gielerak, Roman Uniqueness theorem for a class of continuous systems. (English summary) **93j:82002**
Gonchar, N. S. ★ Конденсация и кристаллизация. (Russian) [Condensation and crystallization] **93d:82009**
Gurevich, B. M. Gibbs random fields that are invariant with respect to infinite-particle Hamiltonian dynamics. (Russian. English and Russian summaries) **93g:82005**
Haws, D. *see* **Copeland, E.**; **et al.**, **93d:82008**
Holbraad, S. *see* **Copeland, E.**; **et al.**, **93d:82008**
(Holický, P.) *see* **Malyshev, V. A.**, **93i:82003**
Johansson, Kurt Separation of phases at low temperatures in a one-dimensional continuous gas. **93e:82003**
Kamchatnov, A. M. Periodic solutions and Whitham equations for the Heisenberg continuous classical spin model. **93g:82006**
Kiessling, Michael K.-H. Finite-volume statistical mechanics of two-component Coulomb-like systems and the principle of macroscopic equivalence. **93g:82007**
— Uniform upper bounds (and thermodynamic limit) for the correlation functions of symmetric Coulomb-type systems. **93d:82010**
— On a recently proposed method for the calculation of partition functions. Comment on: "Exact calculation method of the partition function for one-component classical systems with two-body interactions" [Phys. Lett. A **147** (1990), no. 8-9, 442–444; MR 92a:82010] by A. Yu. Zakharov.
— Statistical mechanics of classical particles with logarithmic interactions. (English summary) **93k:82003**
Kotecký, Roman *see* **Dobrushin, R. L.**; **et al.**, **93k:82002** *and* **Malyshev, V. A.**, **93i:82003**
Koukiou, F. Rigorous bounds for the free energy of the short-range Ising spin glass model. **93b:82003**
Kozitskii, Yu. V. Hierarchical model of a vector ferromagnet. Self-similar block-spin distributions and the Lee-Yang theorem. **93b:82004**
Maes, Christian (*with* Vande Velde, Koen) Defining relative energies for the projected Ising measure. (English summary) **93m:82002**
Malyshev, V. A. (*with* Minlos, R. A.) ★ Gibbs random fields. **93i:82003**
Marchetti, Federico Constrained systems. (English summary) (*see* **93g:81002**)
Mel'nik, N. O. A class of isotropic random vectors that have the Lee-Yang property. (Russian) **93e:82004**
Messer, J. Rigorous results in equilibrium statistical mechanics of terrestrial ecosystems. (English summary)
Minlos, R. A. *see* **Malyshev, V. A.**, **93i:82003**
Nakhapetyan, B. S. *see* **Arzumanyan, V. A.**; **et al.**, **93d:82007**
Pitteri, Mario Some remarks on a derivation of equations of balance for microstructured continua from Maxwell's statistical mechanics. **93e:82005**
Pogosyan, S. K. *see* **Arzumanyan, V. A.**; **et al.**, **93d:82007**
Rebenko, A. L. Poisson measure representation and cluster expansion in classical statistical mechanics. (English and Ukrainian summaries) **93g:82008**
Rivers, R. J. *see* **Copeland, E.**; **et al.**, **93d:82008**
Shlosman, S. B. *see* **Dobrushin, R. L.**; **et al.**, **93k:82002**
Stroock, Daniel W. Microcanonical distributions for one-dimensional lattice gases. **93d:82011**
— (*with* Zegarliński, Bogusław) The equivalence of the logarithmic Sobolev inequality and the Dobrushin-Shlosman mixing condition. **93b:82005**
Tracy, Craig A. *see* **Basor, Estelle L.**; **et al.**, **93g:82004a** *and* **93g:82004b**
Vande Velde, Koen *see* **Maes, Christian**, **93m:82002**
Widom, Harold *see* **Basor, Estelle L.**; **et al.**, **93g:82004a** *and* **93g:82004b**
(Zakharov, A. Yu.) *see* **Kiessling, Michael K.-H.**
Zegarliński, Bogusław *see* **Stroock, Daniel W.**, **93b:82005**

Items with secondary classifications in 82B05

Albeverio, Sergio (*with* Høegh-Krohn, Raphael; Surgailis, Donatas) Some Euclidean integer-valued random fields with Markov properties. (English summary) **93i:60180**
Bogomol'nyĭ, E. B. (*with* Georgeot, B.; Giannoni, M.-J.; Schmit, C.) Chaotic billiards generated by arithmetic groups. (English summary) **93g:81025**
Conlon, Joseph G. (*with* Solovej, Jan Philip) Upper bound on the free energy of the spin 1/2 Heisenberg ferromagnet. **93b:82012**
Dimock, J. (*with* Hurd, T. R.) A renormalization group analysis of correlation functions for the dipole gas. **93g:82047**
Ellis, Richard S. A unified approach to large deviations for Markov chains and applications to statistical mechanics. **93b:60138**
van Enter, Aernout C. D. (*with* Miękisz, Jacek) How should one define a (weak) crystal? **93b:82080**
Florio, A. *see* **Lavenda, B. H.**, **93g:82049**
Fort, Jean-Claude *see* **Prum, Bernard**, **93k:82001**
Frankel, Norman E. *see* **Ninham, Barry W.**; **et al.**, **93h:11143**
Frieden, B. Roy Fisher information and uncertainty complementarity. (English summary) **93k:81022**
Georgeot, B. *see* **Bogomol'nyĭ, E. B.**; **et al.**, **93g:81025**
Giannoni, M.-J. *see* **Bogomol'nyĭ, E. B.**; **et al.**, **93g:81025**
Gielerak, Roman Verification of the global Markov property for strongly coupled trigonometric interactions. (English summary) (*see* **93e:00034**)
Glasser, M. Lawrence *see* **Ninham, Barry W.**; **et al.**, **93h:11143**
Guyon, Xavier (*with* Künsch, Hans R.) Asymptotic comparison of estimators in the Ising model. (*see* **93e:62005**)
Høegh-Krohn, Raphael *see* **Albeverio, Sergio**; **et al.**, **93i:60180**
Hughes, Barry D. *see* **Ninham, Barry W.**; **et al.**, **93h:11143**
Hurd, T. R. *see* **Dimock, J.**, **93g:82047**
Isopi, Marco (*with* Newman, Charles M.) The triangle law for Lyapunov exponents of large random matrices. **93d:60045**
Künsch, Hans R. *see* **Guyon, Xavier**, **(93e:62005)**
Kunz, Hervé (*with* Zumbach, G.) Phase transition in a nematic n-vector model: the large-n limit. (English summary) **93m:82012**
Lavenda, B. H. (*with* Florio, A.) Derivation of a new class of distributions for the microcanonical ensemble. (English summary) **93g:82049**
Matsui, Taku Stochastic Ising model as a C^* dynamical system. (English summary) **93k:82006**
Miękisz, Jacek *see* **van Enter, Aernout C. D.**, **93b:82080**
Moussa, Pierre Hausdorff dimension and dimension spectrum for Julia sets close to unit circle. **93e:58112**
Munton, David Quenched disorder in a hierarchical Coulomb gas model. (English summary) **93j:82035**
Newman, Charles M. *see* **Isopi, Marco**, **93d:60045**
Ninham, Barry W. (*with* Hughes, Barry D.; Frankel, Norman E.; Glasser, M. Lawrence) Möbius, Mellin, and mathematical physics. (English summary) **93h:11143**
Ovrut, Burt A. (*with* Thomas, Steven) Theory of vortices and monopoles on a sphere. **93a:82023**
Pfister, Charles-Edouard Large deviations and phase separation in the two-dimensional Ising model. **93c:82011**
Prum, Bernard (*with* Fort, Jean-Claude) ★ Stochastic processes on a lattice and Gibbs measures. **93k:82001**
Schmit, C. *see* **Bogomol'nyĭ, E. B.**; **et al.**, **93g:81025**
(Schwarzbach, Bertram Eugene) *see* **Prum, Bernard**, **93k:82001**
Sinai, Ya. G. Hyperbolic billiards. **93c:58163**
Solovej, Jan Philip *see* **Conlon, Joseph G.**, **93b:82012**
Surgailis, Donatas *see* **Albeverio, Sergio**; **et al.**, **93i:60180**
Thomas, Steven *see* **Ovrut, Burt A.**, **93a:82023**
Zegarliński, Bogusław Dobrushin uniqueness theorem and logarithmic Sobolev inequalities. **93d:58190**
Zhou, Xian Yin A note on the asymptotics of the polymer measures in one dimension. (English summary) **93m:60204**
Zumbach, G. *see* **Kunz, Hervé**, **93m:82012**

82B10 Quantum equilibrium statistical mechanics (general)

Aldrovandi, R. Two-dimensional quantum gas. (English summary) **93j:82003**
Andreev, V. A. (*with* Ivanova, O. A.) The dynamics of three-boson interaction and algebraic Bethe ansatz. (English summary) **93k:82004**

Angelescu, N. (*with* Bundaru, M.) A remark on the condensation in the hard-core lattice Bose gas. (English summary) **93i:82004**
Bach, Alexander Why are independent bosons distributed according to Maxwell-Boltzmann statistics? **93b:82006**
Barbulyak, V. S. (*with* Kondrat'ev, Yu. G.) The presence of a long-range order in a system of quantum anharmonic oscillators. (Russian) **93d:82012**
— (*with* Kondrat'ev, Yu. G.) Functional integrals and quantum lattice systems. I. The existence of Gibbs states. (Russian. English summary) **93b:82007a**
— (*with* Kondrat'ev, Yu. G.) Functional integrals and quantum lattice systems. II. Periodic Gibbs states. (Russian. English summary) **93b:82007b**
— (*with* Kondrat'ev, Yu. G.) Functional integrals and quantum lattice systems. III. Phase transitions. (Russian. English summary) **93b:82007c**
— (*with* Kondrat'ev, Yu. G.) A quasiclassical limit for the Schrödinger operator, and phase transitions in quantum statistical physics. (Russian) **93g:82009**
Bondarev, B. V. Quantum lattice gas. Method of density matrix. **93f:82005**
Bose, Indrani Quantum antiferromagnets with disordered ground states. (English summary) **93j:82004**
Bundaru, M. *see* **Angelescu, N., 93i:82004**
Chaturvedi, S. *see* **Shanta, P.; et al., 93f:82007**
Coleman, A. J. (*with* Yukalov, V. I.) Order indices for boson density matrices. (English summary) **93h:82003**
Fannes, M. (*with* Nachtergaele, Bruno; Werner, R. F.) Entropy estimates for finitely correlated states. (English and French summaries) **93i:82005**
— (*with* Nachtergaele, Bruno; Werner, R. F.) Finitely correlated states on quantum spin chains. **93i:82006**
— (*with* Nachtergaele, Bruno; Slegers, L.) Functions of Markov processes and algebraic measures. **93g:82010**
Freudenberg, Wolfgang Characterization of states of infinite boson systems. II. On the existence of the conditional reduced density matrix. **93d:82013**
Fröhlich, Jürg (*with* Kerler, T.; Marchetti, P. A.) Nonabelian bosonization in two-dimensional condensed matter physics. **93i:82007**
Gallavotti, Giovanni Quasi-particles and scaling properties at the Fermi surface. (*see* **93g:81002**)
Ge, Mo Lin *see* **Su, Gang, 93k:82008**
Gielerak, Roman (*with* Zagrebnov, V. A.) Analyticity and independence on the classical boundary conditions of the infinite volume thermal KMS states for a class of continuous systems. I. The Maxwell-Boltzmann statistics case. **93b:82008**
Goderis, D. (*with* Maes, Christian) Constructing quantum dissipations and their reversible states from classical interacting spin systems. (French summary) **93d:82014**
Gorunovich, V. V. The Debye-Hückel limit for quantum-statistical charge-symmetric Coulomb systems. (Russian. English summary) **93h:82004**
Hayashi, Masaki (*with* Vera Mendoza, Honorio) Errata: "Quantum phase space for an ideal relativistic gas in d spatial dimensions" [Rev. Mexicana Fís. **38** (1992), no. 1, 81–91; MR 92m:82018]. **93i:82008**
Hertle, Jochen (*with* Honegger, Reinhard) Limiting Gibbs states and dynamics for thermal photons. **93c:82005**
— (*with* Honegger, Reinhard) Rigorous derivation of Planck's law in the thermodynamic limit. **93c:82006**
Honegger, Reinhard *see* **Hertle, Jochen, 93c:82005** *and* **93c:82006**
Iochum, Bruno (*with* Testard, D.) Power law growth for the resistance in the Fibonacci model. **93f:82006**
Ivanova, O. A. *see* **Andreev, V. A., 93k:82004**
Kalanov, T. Z. On a quantum-statistical theory of a monoatomic ideal gas. I. (Russian)
Kapoor, Ashok K. *see* **Shanta, P.; et al., 93f:82007**
Kerler, T. *see* **Fröhlich, Jürg; et al., 93i:82007**
Khorunzhii, A. M. *see* **Pastur, L. A., 93k:82007**
Khoruzhenko, B. A. (*with* Shcherbina, M. V.) The limit of an infinitely large number of spin components of an unordered n-vector model. (Russian. Russian summary) **93g:82011**
Kirichenko, Yu. A. A mean-field limit in infinite systems of quantum gases. (Russian. Russian summary) **93j:82005**
Kondrat'ev, Yu. G. *see* **Barbulyak, V. S., 93b:82007a; 93b:82007b; 93b:82007c; 93d:82012** *and* **93g:82009**
Kravchuk, N. V. Approximation problems in quantum statistics. (Russian. Russian summary) **93k:82005**
Kuznetsov, V. B. On the equivalence of two families of quantum integrable systems. (Russian. English summary) **93i:82009**
Lee, Chin Rong (*with* Yu, Jyh Ping) On q-deformed free electron gases. **93c:82007**
Levi, A. R. An alternative approach to ergodic systems in thermal equilibrium with a reservoir. **93b:82009**
Lieb, Elliott H. Absence of ferromagnetism for one-dimensional itinerant electrons. (*see* **93g:81002**)
Maes, Christian *see* **Goderis, D., 93d:82014**
Mann, Ady (*with* Oz-Vogt, J.; Revzen, M.) Thermofield dynamics for quantum systems with a finite number of levels. (English summary) **93h:82005**
Mansmann, Ulrich The free energy of the Dirac polaron, an explicit solution. **93e:82006**
Marchetti, P. A. *see* **Fröhlich, Jürg; et al., 93i:82007**
Matsui, Taku Stochastic Ising model as a C^* dynamical system. (English summary) **93k:82006**
Müller-Hartmann, Erwin *see* **Wischmann, Hans-Aloys, 93g:82013**
Nachtergaele, Bruno Uniqueness and degeneracy of ground states for some quantum spin chains. **93d:82015**
— *see also* **Fannes, M.; et al., 93g:82010; 93i:82005** *and* **93i:82006**
Nešković, P. V. (*with* Urošević, B. V.) Quantum oscillators: applications in statistical mechanics. **93e:82007**
Oz-Vogt, J. *see* **Mann, Ady; et al., 93h:82005**
Pastur, L. A. (*with* Khorunzhii, A. M.) Integrated density of states of a deformed Wigner ensemble. (Russian. English and Russian summaries) **93k:82007**
Popov, V. N. The theory of model Hamiltonians and the functional integration method. (Russian) **93a:82004**
Revzen, M. *see* **Mann, Ady; et al., 93h:82005**
Scutaru, H. Quasi-free states and a unified treatment of the quantum and thermal fluctuations. **93d:82016**
Shanta, P. (*with* Chaturvedi, S.; Kapoor, Ashok K.; Srinivasan, V.) Parastatistical systems at finite temperatures in thermofield dynamics. **93f:82007**
Shcherbina, M. V. *see* **Khoruzhenko, B. A., 93g:82011**
Slater, Paul B. The moment map and the barycentric/canonical entropy of a density operator. **93c:82008**
Slegers, L. *see* **Fannes, M.; et al., 93g:82010**
Srinivasan, V. *see* **Shanta, P.; et al., 93f:82007**
Su, Gang (*with* Ge, Mo Lin) Thermodynamic characteristics of the q-deformed ideal Bose gas. (English summary) **93k:82008**
Testard, D. *see* **Iochum, Bruno, 93f:82006**
Tian, Guang Shan A rigorous theorem on off-diagonal long-range order of boson systems. **93c:82009**
Tóth, Bálint Probabilistic representation of the quantum Heisenberg ferromagnet—a painless GNS construction. (English summary) **93g:82012**
Urošević, B. V. *see* **Nešković, P. V., 93e:82007**
Vera Mendoza, Honorio *see* **Hayashi, Masaki, 93i:82008**
Werner, R. F. *see* **Fannes, M.; et al., 93i:82005** *and* **93i:82006**
Wischmann, Hans-Aloys (*with* Müller-Hartmann, Erwin) Extended proof of long-range order in the two-dimensional quantum spin-$\frac{1}{2}$ XXZ-model at $T = 0$. (English summary) **93g:82013**
Yu, Jyh Ping *see* **Lee, Chin Rong, 93c:82007**
Yukalov, V. I. Method of thermodynamic quasiaverages. **93d:82017**
— *see also* **Coleman, A. J., 93h:82003**
Zagrebnov, V. A. *see* **Gielerak, Roman, 93b:82008**
Zaripov, R. G. Fluctuations of quantum values in statistical mechanics. (Russian. English, Russian and Ukrainian summaries)

Items with secondary classifications in 82B10

Accardi, Luigi (*with* Korolyuk, D. V.) Quantum Markov chains: the recurrence problem. **93h:81068**
Affleck, Ian (*with* Arovas, Daniel P.; Marston, J. B.; Rabson, D. A.) SU($2n$) quantum antiferromagnets with exact C-breaking ground states. **93m:82003**
Arovas, Daniel P. *see* **Affleck, Ian; et al., 93m:82003**
Balian, Roger (*with* Vénéroni, Marcel) Correlations and fluctuations in static and dynamic mean-field approaches. **93g:81206**
Barbulyak, V. S. Chess estimates and critical temperature in quantum lattice systems. (Russian. Ukrainian summary) **93f:82024**
Basor, Estelle L. (*with* Tracy, Craig A.; Widom, Harold) Asymptotics of level-spacing distributions for random matrices. **93g:82004a**
— (*with* Tracy, Craig A.; Widom, Harold) Errata: "Asymptotics of level-spacing distributions for random matrices". **93g:82004b**
Beghian, L. E. The theorem of equipartition of energy revisited. (English summary) **93f:82003**
— Statistical foundations of thermal equilibrium. **93g:82002**
Benfatto, G. The one-dimensional spinless Fermi gas and the Luttinger model. (English summary) **93j:82030**
Bost, Jean-Benoît (*with* Connes, Alain) Produits eulériens et facteurs de type III. (English and French summaries) [Euler products and type-III factors] **93m:46079**
Broidioi, Marino (*with* Nachtergaele, Bruno; Verbeure, André) The Overhauser model: equilibrium fluctuation dynamics. **93m:82005**
Campbell, C. E. *see* **Senger, G.; et al., 93i:81310**
Clark, J. W. *see* **Senger, G.; et al., 93i:81310**
Connes, Alain *see* **Bost, Jean-Benoît, 93m:46079**
Duffield, N. G. (*with* Roos, Hansjörg O.; Werner, R. F.) Macroscopic limiting dynamics of a class of inhomogeneous mean field quantum systems. (French summary) **93b:82043**
Fannes, M. (*with* Nachtergaele, Bruno; Werner, R. F.) Ground states of VBS models on Cayley trees. **93a:82011**
Fichtner, Karl-Heinz Random permutations of countable sets. **93a:60157**
Grubb, Anthea Some results on diagonals, determinants and eigenvalues of positive selfadjoint matrices. **93f:15013**
Ji, Chuanshu Some estimation problems for Gibbs states. (English summary) (*see* **93g:62004**)
Kastler, Daniel Cyclic cohomology, supersymmetry and KMS states: the KMS states as generalized elliptic operators. **93j:19006**
— KMS states, cyclic cohomology and supersymmetry. (English summary) **93m:46081**
Kiessling, Michael K.-H. Uniform upper bounds (and thermodynamic limit) for the correlation functions of symmetric Coulomb-type systems. **93d:82010**
Korolyuk, D. V. *see* **Accardi, Luigi, 93h:81068**
Last, Y. On the measure of gaps and spectra for discrete 1D Schrödinger operators. (English summary) **93i:47035**
Livi, R. (*with* Politi, Antonio; Ruffo, Stefano) Repeller structure in a hierarchical model. II. Metric properties. **93d:58092**
Mancini, Ferdinando Perturbation theory in equilibrium and nonequilibrium. **93b:82047**
Marston, J. B. *see* **Affleck, Ian; et al., 93m:82003**
Muraki, Naohumi Remarks on continuity of entropy of states on C^*-dynamical systems. **93a:46131**
Nachtergaele, Bruno *see* **Fannes, M.; et al., 93a:82011** *and* **Broidioi, Marino; et al., 93m:82005**
Nishimori, Hidetoshi (*with* Saika, Yôhei) Note on twisted order in the frustrated quantum Heisenberg model. **93d:82023**
Ovrut, Burt A. (*with* Thomas, Steven) Vortices and monopoles on a sphere and their application to Liouville and string theory. **93c:81181**
Politi, Antonio *see* **Livi, R.; et al., 93d:58092**
Rabson, D. A. *see* **Affleck, Ian; et al., 93m:82003**
Ristig, M. L. *see* **Senger, G.; et al., 93i:81310**
Roos, Hansjörg O. *see* **Duffield, N. G.; et al., 93b:82043**
Ruffo, Stefano *see* **Livi, R.; et al., 93d:58092**
Saika, Yôhei *see* **Nishimori, Hidetoshi, 93d:82023**

Sauvageot, Jean-Luc (*with* Thouvenot, Jean-Paul) Une nouvelle définition de l'entropie dynamique des systèmes non commutatifs. (English summary) [A new definition of the dynamical entropy of noncommutative systems] **93d:46113**
Senger, G. (*with* Ristig, M. L.; Campbell, C. E.; Clark, J. W.) Correlated density matrix theory of normal quantum fluids. (English summary) **93i:81310**
Sudarshan, E. C. G. Quantum dynamics, metastable states, and contractive semigroups. **93h:81011**
Thomas, Steven *see* **Ovrut, Burt A., 93c:81181**
Thompson, Colin J. Validity of mean-field theories in critical phenomena. **93h:82001**
Thouvenot, Jean-Paul *see* **Sauvageot, Jean-Luc, 93d:46113**
Tracy, Craig A. *see* **Basor, Estelle L.; et al., 93g:82004a** *and* **93g:82004b**
Vénéroni, Marcel *see* **Balian, Roger, 93g:81206**
Verbeure, André *see* **Broidioi, Marino; et al., 93m:82005**
Werner, R. F. *see* **Fannes, M.; et al., 93a:82011** *and* **Duffield, N. G.; et al., 93b:82043**
Widom, Harold *see* **Basor, Estelle L.; et al., 93g:82004a** *and* **93g:82004b**

82B20 Lattice systems (Ising, dimer, Potts, etc.)

Abanov, A. G. Phase transitions in dimer systems. (Russian) **93f:82008**
Abraham, D. B. (*with* Upton, P. J.) Droplet singularity. (English summary) **93k:82009**
Affleck, Ian (*with* Arovas, Daniel P.; Marston, J. B.; Rabson, D. A.) SU($2n$) quantum antiferromagnets with exact C-breaking ground states. **93m:82003**
Aguilar, A. *see* **Braun, E., 93e:82009**
Akheyan, A. Z. (*with* Anankikyan, N. S.) The gauge Potts model on a generalized Bethe lattice. **93e:82008**
Ananikyan, N. S. *see* **Akheyan, A. Z., 93e:82008**
Antonyuk, A. Vikt. (*with* Kondrat'ev, Yu. G.) Cluster expansions for Gibbs measures of quantum lattice systems at zero temperature. (Russian. Russian summary) **93g:82014**
Argon, Ali S. *see* **Mott, Peter H.; et al.**
Arovas, Daniel P. *see* **Affleck, Ian; et al., 93m:82003**
Askeri, V. M. (*with* Bugrii, A. I.; Shadura, V. N.) The effect of boundary conditions on the operator content of the two-dimensional Ising model: the results of an exact solution. (Russian. English, Russian and Ukrainian summaries) **93i:82010**
Barabanov, A. F. (*with* Mikheenkov, A. V.) The spin-wave spectrum of $s = 1/2$ triangular lattice Heisenberg antiferromagnet. (Russian) **93k:82010**
Barber, Michael N. The Potts model. **93d:82018**
Barbulyak, V. S. (*with* Kondrat'ev, Yu. G.) Existence theorems for functional integrals that correspond to Gibbs states of quantum lattice systems. (Russian) **93b:82010**
Bariev, R. Z. (*with* Truong, T. T.; Turban, L.) Exact solution of an N-sublattice vertex model. **93b:82011**
Bazhanov, V. V. (*with* Kashaev, R. M.; Mangazeev, V. V.; Stroganov, Yu. G.) $(Z_N\times)^{n-1}$ generalization of the chiral Potts model. **93d:82019**
Bogolyubov, N. M. (*with* Bullough, R. K.) Completely integrable model of interacting q-bosons. (English summary) **93i:82011**
Braun, E. (*with* Aguilar, A.) Exact magnetic transitions in the "union jack" model. **93e:82009**
Bugrii, A. I. *see* **Askeri, V. M.; et al., 93i:82010**
Bullough, R. K. *see* **Bogolyubov, N. M., 93i:82011**
Caldi, D. G. Classical SU(2) invariance of quantum SU(2)-invariant Hamiltonians. (English summary) **93h:82006**
Canning, Andrew Saddle-point mean-field theory for long-range Ising spin models in terms of the eigenvalues and eigenvectors of the interaction matrix. (English summary)
Capel, Hans W. *see* **Nijhoff, F. W., 93e:82014**
Chakravarty, Sarbarish (*with* Chayes, L.; Kivelson, S. A.) Absence of pair binding in the $U = \infty$ Hubbard model. **93a:82005**
Chang, C. Y. (*with* Hui, P. M.; Yu, Kin Wah) Zero-temperature entropy of fully frustrated generalized Sierpiński gaskets. (English summary) **93k:82011**
Chayes, L. *see* **Chakravarty, Sarbarish; et al., 93a:82005**
Che, Hao *see* **Lin, D. L.; et al., 93e:82013**
Christe, Philippe S matrices of the tricritical Ising model and Toda systems. **93g:82015**
Conlon, Joseph G. (*with* Solovej, Jan Philip) Upper bound on the free energy of the spin 1/2 Heisenberg ferromagnet. **93b:82012**
Cordero, Patricio Multiscaling structure of the density of states of the Ising Hamiltonian. **93a:82006**
Dunlop, François (*with* Magnen, Jacques; Rivasseau, Vincent; Roche, Philippe) Pinning of an interface by a weak potential. **93a:82007**
Ercolessi, E. (*with* Morandi, G.; Ortolani, F.) Global and gauge symmetries of the Hubbard model. **93a:82008**
Ermilov, A. N. (*with* Kurbatov, A. M.; Kabanovich, V. I.; Racotoaridzauna, S.) Almeida-Thouless inequality for the quenched Ising models with arbitrary distributions of coupling constants. **93a:82009**
Essler, Fabian H. L. (*with* Korepin, V. E.; Schoutens, Kareljan) New eigenstates of the 1-dimensional Hubbard model. **93f:82009**
Evans, James William (*with* Kang, H. C.) Analytic observations for the $d = 1 + 1$ bridge site (or single-step) deposition model. **93a:82010**
Eyink, Gregory L. (*with* Lebowitz, Joel L.; Spohn, Herbert) Lattice gas models in contact with stochastic reservoirs: local equilibrium and relaxation to the steady state. **93b:82013**
Fannes, M. (*with* Nachtergaele, Bruno; Werner, R. F.) Ground states of VBS models on Cayley trees. **93a:82011**
— (*with* Nachtergaele, Bruno; Werner, R. F.) Abundance of translation invariant pure states on quantum spin chains. (English summary) **93j:82006**
Fedotov, S. A. *see* **Popov, V. N., 93a:82014**
Fisher, Michael Ellis *see* **Mikheev, Lev V., 93b:82017**
Florek, W. *see* **Lulek, T., (93g:00029)**
Gebhard, F. *see* **Janiš, Vladimír; et al., 93h:82007**
Golden, Kenneth M. Exponent inequalities for the bulk conductivity of a hierarchical model. **93e:82010**
Gonchar, N. S. (*with* Kozyrskiĭ, V. G.) One-parameter group of symmetries of incommensurate structures of the anisotropic Ising model. (Ukrainian. English, Russian and Ukrainian summaries) **93g:82016**
— (*with* Kozyrskiĭ, V. G.) Hidden symmetry and small branchings in anisotropic lattice models. (Ukrainian. Russian summary) **93a:82012**
Gorunovich, V. V. Bose-Einstein condensation in a model of a lattice gas. (Russian. Russian summary) **93g:82017**
Gruber, Ch. Ground state properties of the spinless Falicov-Kimball model. (*see* **93g:81002**)
— (*with* Jędrzejewski, Janusz; Lemberger, P.) Ground states of the spinless Falicov-Kimball model. II. **93b:82014**
Guan, Xi Wen (*with* Yin, Chun Hao; Xiong, Zhuang) Algebraic Bethe-ansatz equations for one-dimensional small-polaron models. (Chinese. English summary) **93b:82015**
Gutshabash, E. Sh. (*with* Lipovskiĭ, V. D.) A boundary value problem for a two-dimensional stationary Heisenberg magnet with nontrivial background. I. (Russian. English and Russian summaries) **93j:82007**
Hamer, C. J. (*with* Zheng, Weihong) Spin-wave expansion for the O(2) Heisenberg spin model in $(d + 1)$ dimensions. (English summary) **93j:82008**
Henkel, Malte Two-dimensional spin systems in an external magnetic field. (English summary) **93i:82012**
Hock, J. L. *see* **McQuistan, R. B., 93k:82012**
Hu, Bambi *see* **Lin, Bin, 93g:82019**
Hu, Chin Kun *see* **Maillard, J.-M.; et al., 93a:82013**
Hui, P. M. *see* **Chang, C. Y.; et al., 93k:82011**
Ikeda, Kazuyosi (*with* Nisizima, Kunisuke) Volume-dependent cluster sums for triangular lattice gas. II. Behaviour of the cluster sums. **93i:82017**
— *see also* **Nisizima, Kunisuke, 93i:82016** *and* **93i:82018**
Janiš, Vladimír (*with* Gebhard, F.; Strack, R.; Vollhardt, D.) Comment on: "Interacting-electron model exactly solvable in any dimension" [Phys. Rev. Lett. **66** (1991), no. 11, 1383–1387; MR 92b:82032] by A. Montorsi and M. Rasetti. **93h:82007**
Janžura, Martin An approximation of the pressure for the two-dimensional Ising model. **93i:82013**
Jędrzejewski, Janusz *see* **Gruber, Ch.; et al., 93b:82014**
Johannesson, Henrik Spin glasses from vertex models. **93e:82011**
Kabanovich, V. I. *see* **Ermilov, A. N.; et al., 93a:82009**
Kamphorst Leal da Silva, J. *see* **das Neves, A.; et al., 93i:82015**
Kang, H. C. *see* **Evans, James William, 93a:82010**
Karaivanov, V. D. Correspondence between spin-1 and dilute spin-$\frac{1}{2}$ models and exact solution for a chain. (English summary)
Kashaev, R. M. *see* **Bazhanov, V. V.; et al., 93d:82019**
Kennedy, Thomas Garrett (*with* Tasaki, Hal) Hidden symmetry breaking and the Haldane phase in $S = 1$ quantum spin chains. (English summary) **93h:82008**
Kim, Doochul *see* **Noh, Jae Dong, 93f:82012**
Kimura, Minoru *see* **Tanaka, Giichi**
Kivelson, S. A. *see* **Chakravarty, Sarbarish; et al., 93a:82005**
Kolesík, M. Correlation functions of the two-state vertex model on the Cayley tree. (English summary) **93j:82009**
— (*with* Šamaj, L.) New variational series expansions for lattice models. (English summary) **93m:82004**
— *see also* **Šamaj, L., 93f:82014** *and* **93g:82023**
Kondrat'ev, Yu. G. *see* **Barbulyak, V. S., 93b:82010** *and* **Antonyuk, A. Vikt., 93g:82014**
Kooiman, A. (*with* van Leeuwen, J. M. J.) Free fermion approximation for the Ising model with further-neighbor interactions on a triangular lattice. (English summary) **93g:82018**
Korepin, V. E. *see* **Essler, Fabian H. L.; et al., 93f:82009**
Kozlov, S. M. (*with* Malozëmov, L. A.) Hierarchical lattice constructions. (Russian) **93d:82020**
Kozyrskiĭ, V. G. *see* **Gonchar, N. S., 93a:82012** *and* **93g:82016**
Kubo, Kenn *see* **Takada, Satoshi, 93c:82012**
Kurbatov, A. M. *see* **Ermilov, A. N.; et al., 93a:82009**
Laanait, Lahoussine (*with* Messager, Alain; Miracle-Solé, Salvador; Ruiz, Jean; Shlosman, S. B.) Interfaces in the Potts model. I. Pirogov-Sinai theory of the Fortuin-Kasteleyn representation. **93d:82021a**
Lebowitz, Joel L. *see* **Eyink, Gregory L.; et al., 93b:82013**
van Leeuwen, J. M. J. *see* **Kooiman, A., 93g:82018**
Lemberger, P. *see* **Gruber, Ch.; et al., 93b:82014**
Levy, Dan Lattice algebras and the hidden symmetry of the 2D Ising model in a magnetic field. **93i:82014**
Lieb, Elliott H. The flux-phase problem on planar lattices. (English summary) **93e:82012**
Lin, Bin (*with* Hu, Bambi) Frenkel-Kontorova model with Toda interactions. (English summary) **93g:82019**
Lin, D. L. (*with* Che, Hao; Xia, Yu) Critical temperature of $(d + 1)$-dimensional Ising films. (English summary) **93e:82013**
Lin, K'ê Ying (*with* Tzeng, W. J.) On the row-convex polygon generating function for the checkerboard lattice. **93b:82016**
— (*with* Tsai, T. R.) Spontaneous magnetization of the Ising model on the Asanoha lattice. (English summary) **93f:82010**
Lipovskiĭ, V. D. *see* **Gutshabash, E. Sh., 93j:82007**
Lulek, B. Impurities in the Heisenberg magnet and the general recipe of Weyl. (English summary) (*see* **93g:00029**)
Lulek, T. (*with* Florek, W.) Gauge symmetries in the Heisenberg model of a magnet. (English summary) (*see* **93g:00029**)
Maes, Christian (*with* Redig, Frank) Anisotropic perturbations of the simple symmetric exclusion process: long range correlations. (English summary) **93g:82020**
Magnen, Jacques *see* **Dunlop, François; et al., 93a:82007**
Maillard, J.-M. (*with* Wu, F. Y.; Hu, Chin Kun) Thermal transmissivity in discrete spin systems: formulation and applications. **93a:82013**
Makhan'kov, V. G. (*with* Pashaev, O. K.) Continual classical Heisenberg models defined on graded su(2, 1) and su(3) algebras. **93h:82009**
Malozëmov, L. A. *see* **Kozlov, S. M., 93d:82020**
Mangazeev, V. V. *see* **Bazhanov, V. V.; et al., 93d:82019**
Marchetti, Domingos H. U. Smooth phase in the one-dimensional discrete Gaussian model with $1/(i - j)^2$ interaction at inverse temperature $\beta > 1$. **93c:82010**
Markelov, A. V. New exact transformations for Hubbard operators. (English summary) **93h:82010**

Marston, J. B. *see* **Affleck, Ian; et al., 93m:82003**
Martins, Márcio José The off-critical behavior of the multicritical Ising models. (English summary)
McQuistan, R. B. (*with* Hock, J. L.) Composite nearest-neighbor degeneracies for several kinds of simple particles distributed on two-dimensional, square-cell lattices. **93k:82012**
Messager, Alain (*with* Miracle-Solé, Salvador; Ruiz, Jean; Shlosman, S. B.) Interfaces in the Potts model. II. Antonov's rule and rigidity of the order disorder interface. **93d:82021b**
— (*with* Miracle-Solé, Salvador; Ruiz, Jean) Convexity properties of the surface tension and equilibrium crystals. **93g:82021**
— *see also* **Laanait, Lahoussine; et al., 93d:82021a**
Meurice, Yannick Remarks concerning Polyakov's conjecture for the 3D Ising model and the hierarchical approximation. (English summary)
Mezincescu, Luca (*with* Nepomechie, Rafael I.) Analytical Bethe ansatz for quantum-algebra-invariant spin chains. **93g:82022**
Mielke, Andreas Exact ground states for the Hubbard model on the Kagomé lattice. (English summary) **93j:82010**
Mikheenkov, A. V. *see* **Barabanov, A. F., 93k:82010**
Mikheev, Lev V. (*with* Fisher, Michael Ellis) Microcanonical density functionals for critical systems: an exact one-dimensional example. **93b:82017**
Miracle-Solé, Salvador *see* **Laanait, Lahoussine; et al., 93d:82021a; Messager, Alain; et al., 93d:82021b** *and* **93g:82021**
Mogil'ner, A. I. Hamiltonians in solid-state physics as multiparticle discrete Schrödinger operators: problems and results. **93d:82022**
Mojumder, M. A. (2, 0) supersymmetric string theory and the critical exponents of the 3D Ising model. **93f:82011**
Momoi, Tsutomu (*with* Suzuki, Masuo) Ground-state properties and phase diagram of the quantum XXZ antiferromagnet on a triangular lattice. (English summary)
Monti, F. (*with* Sütő, András) Heisenberg antiferromagnet on triangulated trees. (English summary) **93j:82011**
(Montorsi, Arianna) *see* **Janiš, Vladimír; et al., 93h:82007**
Morandi, G. *see* **Ercolessi, E.; et al., 93a:82008**
Morita, Tohru *see* **Tanaka, Kazuyuki[2], 93f:82016**
Mott, Peter H. (*with* Argon, Ali S.; Suter, Ulrich W.) The atomic strain tensor.
Nachtergaele, Bruno Quantum spin chains with residual entropy. (English summary) (*see* **93b:00027**)
— Applications of finitely correlated states to the ground state problem of quantum spin chains. (English summary) **93j:82012**
— *see also* **Fannes, M.; et al., 93a:82011** *and* **93j:82006**
Nepomechie, Rafael I. *see* **Mezincescu, Luca, 93g:82022**
das Neves, A. (*with* Kamphorst Leal da Silva, J.; Plascak, J. A.) Some exact results from the mean field renormalization group. (English summary) **93i:82015**
Nijhoff, F. W. (*with* Capel, Hans W.) Integrable quantum mappings and nonultralocal Yang-Baxter structures. **93e:82014**
Nishimori, Hidetoshi (*with* Saika, Yôhei) Note on twisted order in the frustrated quantum Heisenberg model. **93d:82023**
Nisizima, Kunisuke (*with* Ikeda, Kazuyosi) Volume-dependent cluster sums for triangular lattice gas. I. Exact expressions for the cluster sums with $l \leq 5$. **93i:82016**
— (*with* Ikeda, Kazuyosi) Volume-dependent cluster sums for triangular lattice gas. III. Behaviour of the irreducible cluster sums. **93i:82018**
— *see also* **Ikeda, Kazuyosi, 93i:82017**
Noh, Jae Dong (*with* Kim, Doochul) Phase boundary and universality of the triangular lattice antiferromagnetic Ising model. (English summary) **93f:82012**
Nolden, I. M. The asymmetric six-vertex model. **93f:82013**
de Oliveira, S. Moss *see* **de Souza, S. M.; et al., 93i:82021**
Orland, Peter Fermionic strings and the exact solution of edge models in three dimensions. **93i:82019**
— Exact solution of a quantum gauge magnet in 2 + 1 dimensions. **93d:82024**
Ortolani, F. *see* **Ercolessi, E.; et al., 93a:82008**
Pashaev, O. K. *see* **Makhan'kov, V. G., 93h:82009**
Pearce, Paul A. Row transfer matrix functional equations for *A-D-E* lattice models. (English summary) **93h:82011**
Pfister, Charles-Edouard Large deviations and phase separation in the two-dimensional Ising model. **93c:82011**
Plascak, J. A. *see* **das Neves, A.; et al., 93i:82015**
Popov, V. N. (*with* Fedotov, S. A.) The diagram technique for ferromagnetic systems with spin 1/2. (Russian) **93a:82014**
Rabson, D. A. *see* **Affleck, Ian; et al., 93m:82003**
Racotoaridzauna, S. *see* **Ermilov, A. N.; et al., 93a:82009**
(Rasetti, Mario) *see* **Janiš, Vladimír; et al., 93h:82007**
Redig, Frank *see* **Maes, Christian, 93g:82020**
Rivasseau, Vincent *see* **Dunlop, François; et al., 93a:82007**
Roche, Philippe *see* **Dunlop, François; et al., 93a:82007**
Ruiz, Jean *see* **Laanait, Lahoussine; et al., 93d:82021a; Messager, Alain; et al., 93d:82021b** *and* **93g:82021**
Saika, Yôhei *see* **Nishimori, Hidetoshi, 93d:82023**
Šamaj, L. (*with* Kolesík, M.) Mapping of p-state symmetric vertex model on the honeycomb lattice onto its Ising-spin counterpart. **93g:82023**
— (*with* Kolesík, M.) Mapping of the symmetric vertex model onto the Ising model for an arbitrary lattice coordination. **93f:82014**
— *see also* **Kolesík, M., 93m:82004**
Samuel, Stuart The solution of the three-dimensional twisted group lattices. **93h:82012**
Schlijper, A. G. Entropy and Markov properties of equilibrium states of lattice models. (English summary) **93i:82020**
Schoutens, Kareljan *see* **Essler, Fabian H. L.; et al., 93f:82009**
Shadura, V. N. *see* **Askeri, V. M.; et al., 93i:82010**
Shlosman, S. B. *see* **Laanait, Lahoussine; et al., 93d:82021a** *and* **Messager, Alain; et al., 93d:82021b**
Solovej, Jan Philip *see* **Conlon, Joseph G., 93b:82012**
de Souza, S. M. (*with* de Oliveira, S. Moss; Thomaz, M. T.) Thermodynamic properties of an anharmonic fermionic oscillator. (English summary) **93i:82021**
Spohn, Herbert *see* **Eyink, Gregory L.; et al., 93b:82013**
Strack, R. *see* **Janiš, Vladimír; et al., 93h:82007**
Strobel, Thomas A contribution to shape theory for the Ising model at low temperature. **93b:82018**
Stroganov, Yu. G. *see* **Bazhanov, V. V.; et al., 93d:82019**
Stroock, Daniel W. (*with* Zegarliński, Bogusław) The logarithmic Sobolev inequality for discrete spin systems on a lattice. (English summary) **93j:82013**
— (*with* Zegarliński, Bogusław) The logarithmic Sobolev inequality for continuous spin systems on a lattice. **93f:82015**
Suter, Ulrich W. *see* **Mott, Peter H.; et al.**
Sütő, András The $U = \infty$ Hubbard model at positive temperatures. **93i:82022**
— *see also* **Monti, F., 93j:82011**
Suzuki, Masuo *see* **Momoi, Tsutomu**
Szlachányi, K. (*with* Vecsernyés, Peter) Solution of the star-triangle equation in the S_3 spin model. **93g:82024**
Takada, Satoshi (*with* Kubo, Kenn) Nonlocal unitary transformations on $S = 1$ antiferromagnetic spin chains. **93c:82012**
Tanaka, Giichi (*with* Kimura, Minoru) Critical temperatures and mean-field critical coefficients for the Heisenberg model based on CVM. (English summary)
Tanaka, Kazuyuki[2] (*with* Morita, Tohru) Free energy for layered free fermion models. **93f:82016**
Tasaki, Hal *see* **Kennedy, Thomas Garrett, 93h:82008**
Thomaz, M. T. *see* **de Souza, S. M.; et al., 93i:82021**
Thron, Christopher P. Taylor series expansion of the dominating eigenvalue of the Ruelle-Araki transfer operator. **93c:82013**
Tian, Guang Shan Antiferromagnetism and spin waves in the Hubbard model at half-filling. **93b:82019**
Toda, Morikazu Partition function of nonlinear lattice. (English summary) (*see* **93f:00015**)
Tracy, Craig A. Asymptotics of a τ-function arising in the two-dimensional Ising model. **93c:82014**
Truong, T. T. *see* **Bariev, R. Z.; et al., 93b:82011**
Tsai, T. R. *see* **Lin, K'ê Ying, 93f:82010**
Tsvelik, A. M. Two weakly coupled Heisenberg chains—solution in continuous limit. **93b:82020**
Turban, L. *see* **Bariev, R. Z.; et al., 93b:82011**
Tzeng, W. J. *see* **Lin, K'ê Ying, 93b:82016**
Uchida, Tetsuya *see* **Wada, Koh, 93i:82023**
Ul'yanov, Vladimir Vladimirovich (*with* Zaslavskii, O. B.) New methods in the theory of quantum spin systems. (English summary) **93g:82025**
Upton, P. J. *see* **Abraham, D. B., 93k:82009**
Vecsernyés, Peter *see* **Szlachányi, K., 93g:82024**
Vohwinkel, C. (*with* Weisz, Peter) Low-temperature expansion in the $d = 4$ Ising model. **93a:82015**
Vollhardt, D. *see* **Janiš, Vladimír; et al., 93h:82007**
Wada, Koh (*with* Uchida, Tetsuya) On the anti-causal path of the path probability method by Kikuchi. (English summary) **93i:82023**
Wang, Xue Hua (*with* Yan, Jia Ren; You, Jian Qiang; Yan, Xiao Hong) The Ising model for generalized Fibonacci quasiperiodic chains. (Chinese. English and Chinese summaries) **93e:82015**
Warnaar, S. O. A tri-tricritical Potts model.
Wei, Lian Fu (*with* Xiong, Zhuang; Yin, Chun Hao) The prolongation structure and the Kac-Moody algebra for the SU(N) isotropic continuous Heisenberg model. (Chinese. English summary) **93c:82015**
Weisz, Peter *see* **Vohwinkel, C., 93a:82015**
Werner, R. F. *see* **Fannes, M.; et al., 93a:82011** *and* **93j:82006**
Wu, F. Y. *see* **Maillard, J.-M.; et al., 93a:82013**
Xia, Yu *see* **Lin, D. L.; et al., 93e:82013**
Xiong, Zhuang *see* **Guan, Xi Wen; et al., 93b:82015** *and* **Wei, Lian Fu; et al., 93c:82015**
Yan, Jia Ren *see* **Wang, Xue Hua; et al., 93e:82015; Yan, Xiao Hong; et al., 93e:82016** *and* **You, Jian Qiang; et al., 93i:82024**
Yan, Xiao Hong (*with* Yan, Jia Ren; You, Jian Qiang; Zhong, Jian Xin) Applications of the renormalization group method to a class of generalized Fibonacci lattices. (Chinese. English and Chinese summaries) **93e:82016**
— *see also* **Wang, Xue Hua; et al., 93e:82015**
Yang, Chen Ning Remarks and generalizations about $SU_2 \times SU_2$ symmetry of Hubbard models. **93e:82017**
Yin, Chun Hao *see* **Guan, Xi Wen; et al., 93b:82015** *and* **Wei, Lian Fu; et al., 93c:82015**
You, Jian Qiang (*with* Yan, Jia Ren; Zhong, Jian Xin) Phase transition in aperiodic quantum Ising models. (English summary) **93i:82024**
— *see also* **Wang, Xue Hua; et al., 93e:82015** *and* **Yan, Xiao Hong; et al., 93e:82016**
Yu, Kin Wah *see* **Chang, C. Y.; et al., 93k:82011**
Zabrodin, A. V. Integrable models of field theory and scattering on quantum hyperboloids. **93d:82025**
Zaslavskii, O. B. *see* **Ul'yanov, Vladimir Vladimirovich, 93g:82025**
Zegarliński, Bogusław *see* **Stroock, Daniel W., 93f:82015** *and* **93j:82013**
Zhang, De Gang Integrable deformations of the Heisenberg model. II. (Chinese. English summary) **93g:82026**
Zheng, Weihong *see* **Hamer, C. J., 93j:82008**
Zhong, Jian Xin *see* **Yan, Xiao Hong; et al., 93e:82016** *and* **You, Jian Qiang; et al., 93i:82024**

Items with secondary classifications in 82B20

Affleck, Ian Field theory methods and strongly correlated electrons. **93a:82065**
Aguilar, A. (*with* Braun, E.) The specific heat of a general two-dimensional Ising model. **93a:82016**
Akutsu, Yasuhiro *see* **Kiwata, Hirohito, 93e:82019**
Albertini, Giuseppe Bethe-ansatz type equations for the Fateev-Zamolodchikov spin model. **93g:82031**

Allen, Scott (*with* Pathria, R. K.) Analytical evaluation of a class of phase-modulated lattice sums. (English summary) **93m:11142**
Amaro de Matos, J. M. G. *see* **Zagrebnov, V. A.; et al., 93a:82033**
Angelescu, N. (*with* Bundaru, M.) A remark on the condensation in the hard-core lattice Bose gas. (English summary) **93i:82004**
Aref'eva, I. Ya. (*with* Volovich, I. V.) Quantum group chiral fields and differential Yang-Baxter equations. **93d:81084**
Arzumanyan, V. A. (*with* Nakhapetyan, B. S.; Pogosyan, S. K.) A local limit theorem for the number of particles in lattice spin systems. (Russian. English summary) **93d:82007**
Au-Yang, Helen (*with* Perk, Jacques H. H.) Multicomponent chiral Potts models. (English summary) **93j:82015**
Bandyopadhyay, Pratul *see* **Goswami, Gautam, 93c:81124**
Barbulyak, V. S. Chess estimates and critical temperature in quantum lattice systems. (Russian. Ukrainian summary) **93f:82024**
— (*with* Kondrat'ev, Yu. G.) A quasiclassical limit for the Schrödinger operator, and phase transitions in quantum statistical physics. (Russian) **93g:82009**
Batchelor, Murray T. *see* **Warnaar, S. O.; et al., 93g:82041**
Bättig, Daniel A toroidal compactification of the Fermi surface for the discrete Schrödinger operator. **93g:58118**
Bérard, Alain *see* **Grandati, Y.; et al., 93g:81112**
Borgs, Christian (*with* Imbrie, John Z.) Finite-size scaling and surface tension from effective one-dimensional systems. **93i:82040**
— (*with* Imbrie, John Z.) Crossover finite-size scaling at first-order transitions. (English summary) **93k:82025**
Braun, E. *see* **Aguilar, A., 93a:82016**
Bundaru, M. *see* **Angelescu, N., 93i:82004**
Campbell, Bruce W. *see* **Franceschetti, Donald R.; et al.**
Caracciolo, Sergio (*with* Pelissetto, Andrea; Sokal, Alan D.) Join-and-cut algorithm for self-avoiding walks with variable length and free endpoints. **93f:82031**
Chau, Ling-Lie (*with* Yu, Yue) Unitary polynomials in normal matrix models and wave functions for the fractional quantum Hall effects. **93d:81151**
Chen, Jin Quan *see* **Pan, Feng, 93g:17030**
Coker, David A. Use of projectors for integrable models of quantum field theory. (English summary) **93i:81177**
Daniel, Muthiah *see* **Porsezian, K.; et al., 93c:82022**
De Coninck, Joël (*with* Kotecký, Roman; Laanait, Lahoussine; Ruiz, Jean) SOS approximants for Potts crystal shapes. (English summary) **93m:82011**
Diamantini, Maria Cristina (*with* Link, Robert; Sodano, Pasquale) Chern-Simons effective action for nonrelativistic planar electrons. (English summary) **93h:81082**
Dias, Ricardo G. (*with* Lopes dos Santos, J. M. B.) Simple representation of the eigenstates of the $U \to \infty$ one-dimensional Hubbard model. (English summary) **93k:82070**
Dobrushin, R. L. (*with* Kotecký, Roman; Shlosman, S. B.) ★ Wulff construction. (English. English summary) **93k:82002**
Dolbilin, N. P. (*with* Shtan'ko, M. A.; Shtogrin, M. I.) Quadrillages and parametrizations of lattice cycles. (Russian) **93a:52014**
Dorey, Patrick E. Partition functions, intertwiners and the Coxeter element. (English summary) **93j:82020**
Ellis, Richard S. (*with* Wang, Kong Ming) Limit theorems for maximum likelihood estimators in the Curie-Weiss-Potts model. **93c:62046**
van Enter, Aernout C. D. (*with* Miękisz, Jacek) How should one define a (weak) crystal? **93b:82080**
Essler, Fabian H. L. (*with* Korepin, V. E.; Schoutens, Kareljan) Fine structure of the Bethe ansatz for the spin-$\frac{1}{2}$ Heisenberg XXX model. (English summary) **93i:82030**
Fannes, M. (*with* Nachtergaele, Bruno; Werner, R. F.) Entropy estimates for finitely correlated states. (English and French summaries) **93i:82005**
— (*with* Nachtergaele, Bruno; Slegers, L.) Functions of Markov processes and algebraic measures. **93g:82010**
Fazekas, Patrik Ground state phase diagram of strongly interacting electron systems: the Kondo lattice. **93c:82070**
Florek, W. (*with* Lulek, T.) Combinatorial analysis of magnetic configurations. (English summary) **93i:05134**
Florio, A. *see* **Lavenda, B. H., 93h:82023**
Forrester, P. J. Some multidimensional integrals related to many-body systems with the $1/r^2$ potential. **93a:81057**
— Exact eigenstates of some spin-$\frac{1}{2}$ Heisenberg chains with $1/r^2$ exchange. (English summary) **93k:82015**
Fort, Jean-Claude *see* **Prum, Bernard, 93k:82001**
Frahm, Holger Integrable spin-$\frac{1}{2}$ XXZ Heisenberg chain with competing interactions. **93b:82022**
Franceschetti, Donald R. (*with* Jones, D. Wayne; Campbell, Bruce W.; Hanneken, John W.) Hamming sets, Ising sets, cellular automata, neural nets, and the random walk. (English summary)
Furlan, Paolo (*with* Ganchev, Alexander Ch.; Petkova, Valentina B.) Fusion rules, quantum groups and the Coulomb gas. (*see* **93f:81005**)
Ganchev, Alexander Ch. *see* **Furlan, Paolo; et al., (93f:81005)**
Goswami, Gautam (*with* Bandyopadhyay, Pratul) Fractional statistics, Z_p spin system, and XY model. **93c:81124**
Grandati, Y. (*with* Bérard, Alain; Grangé, P.) Exact partition functions of interacting lattice fermions. **93g:81112**
Grangé, P. *see* **Grandati, Y.; et al., 93g:81112**
Grynberg, Marcelo D. Continuously infinite commensurate-incommensurate phase transition of a two-dimensional competing Ising model. (English summary)
Guyon, Xavier (*with* Künsch, Hans R.) Asymptotic comparison of estimators in the Ising model. (*see* **93e:62005**)
Hanneken, John W. *see* **Franceschetti, Donald R.; et al.**
Iguchi, Kazumoto Quasiperiodic systems without Cantor-set-like energy bands. (English summary) **93k:81252**
Imbrie, John Z. *see* **Borgs, Christian, 93i:82040** *and* **93k:82025**
Jones, D. Wayne *see* **Franceschetti, Donald R.; et al.**
Kashaev, R. M. (*with* Mangazeev, V. V.; Nakanishi, Tomoki) Yang-Baxter equation for the sl(n) chiral Potts model. **93d:82034**
Kawashima, Naoki *see* **Kinosita, Yosinori; et al., 93j:82037**
Kawashima, Takashi A drone representation of the two-dimensional Heisenberg antiferromagnet.
Kennedy, Thomas Garrett Solutions of the Yang-Baxter equation for isotropic quantum spin chains. **93f:82021**
Kesten, Harry Asymptotics in high dimensions for the Fortuin-Kasteleyn random cluster model. **93e:60196**
Kinosita, Yosinori (*with* Kawashima, Naoki; Suzuki, Masuo) Coherent-anomaly analysis of series expansions and its application to the Ising model. (English summary) **93j:82037**
Kitazawa, Yoshihisa Random surfaces and the Liouville theory. **93e:81096**
Kiwata, Hirohito (*with* Akutsu, Yasuhiro) Exactly solvable SU(M) spin chain with long-range interactions. **93e:82019**
Koca, Mehmet Symmetries of the octonionic root system of E_8. **93g:17013**
Kolesík, M. (*with* Šamaj, L.; Markoš, P.) Solvable weak-graph duals of partially frozen vertex models. (English summary) **93g:82039**
— *see also* **Šamaj, L., 93j:82027**
Kondrat'ev, Yu. G. *see* **Barbulyak, V. S., 93g:82009**
Korepin, V. E. *see* **Essler, Fabian H. L.; et al., 93i:82030**
Kostov, Ivan K. (*with* Staudacher, Matthias) Multicritical phases of the O(n) model on a random lattice. (English summary) **93k:81179**
Kotecký, Roman *see* **Dobrushin, R. L.; et al., 93k:82002** *and* **De Coninck, Joël; et al., 93m:82011**
Koukiou, F. Rigorous bounds for the free energy of the short-range Ising spin glass model. **93b:82003**
Künsch, Hans R. *see* **Guyon, Xavier, (93e:62005)**
Laanait, Lahoussine *see* **De Coninck, Joël; et al., 93m:82011**
Lakshmanan, M. *see* **Porsezian, K.; et al., 93c:82022**
Lavenda, B. H. (*with* Florio, A.) Thermodynamics of rare events. (English summary) **93h:82023**
Li, Wen Zhu Lattice approach of the antiferromagnetic Heisenberg model in 2 + 1 dimensions and the Hopf Chern-Simons terms. **93i:81178**
Lin, Zhi Fang (*with* Tao, Rui Bao) Phase transition of quantum Ising spin models on g-letter generalized Thue-Morse aperiodic chains. **93a:82022**
Link, Robert *see* **Diamantini, Maria Cristina; et al., 93h:81082**
Lookman, Turab *see* **Zhao, Dongming; et al., 93i:82043**
Lopes dos Santos, J. M. B. *see* **Dias, Ricardo G., 93k:82070**
Lulek, T. *see* **Florek, W., 93i:05134**
Maes, Christian (*with* Vande Velde, Koen) Defining relative energies for the projected Ising measure. (English summary) **93m:82002**
Makhan'kov, V. G. (*with* Pashaev, O. K.) Integrable classical Heisenberg models on superalgebra spl(2/1). **93c:82018**
Mangazeev, V. V. *see* **Kashaev, R. M.; et al., 93d:82034**
Markoš, P. *see* **Kolesík, M.; et al., 93g:82039**
Martinelli, Fabio A dynamical proof of the phase transition for the Ising model. (English summary) (*see* **93g:81002**)
Matsui, Taku Stochastic Ising model as a C^* dynamical system. (English summary) **93k:82006**
McCoy, Barry M. The chiral Potts model: from physics to mathematics and back. **93c:82021**
Miękisz, Jacek *see* **van Enter, Aernout C. D., 93b:82080**
Mielke, Andreas Ferromagnetism in the Hubbard model and Hund's rule. (English summary) **93m:82052**
Minlos, R. A. (*with* Mogil'ner, A. I.) Some problems concerning spectra of lattice models. **93c:81154**
Mogil'ner, A. I. *see* **Minlos, R. A., 93c:81154**
Monroe, James L. Phase diagrams of Ising models on Husimi trees. II. Pair and multisite interaction systems. **93f:82025**
Nachtergaele, Bruno Uniqueness and degeneracy of ground states for some quantum spin chains. **93d:82015**
— *see also* **Fannes, M.; et al., 93g:82010** *and* **93i:82005**
Nakanishi, Tomoki *see* **Kashaev, R. M.; et al., 93d:82034**
Nakhapetyan, B. S. *see* **Arzumanyan, V. A.; et al., 93d:82007**
Newman, Charles M. Ising models and dependent percolation. (English summary) **93j:60158**
Nienhuis, B. *see* **Warnaar, S. O.; et al., 93g:82041**
Orland, Peter Six-vertex models as Fermi gases. **93j:82026**
Pan, Feng (*with* Chen, Jin Quan) Symmetric irreducible representations of SU(3)$_q$ in the SU(2)$_q$ × U(1) basis and some extensions to SU(N)$_q$ ⊃ SU(N − 1)$_q$ × U(1). **93g:17030**
Pashaev, O. K. *see* **Makhan'kov, V. G., 93c:82018**
Pathria, R. K. *see* **Allen, Scott, 93m:11142**
Patrick, A. E. *see* **Zagrebnov, V. A.; et al., 93a:82033**
Pelissetto, Andrea *see* **Caracciolo, Sergio; et al., 93f:82031**
Perk, Jacques H. H. *see* **Au-Yang, Helen, 93j:82015**
Petkova, Valentina B. *see* **Furlan, Paolo; et al., (93f:81005)**
Pires Idiart, M. A. (*with* Theumann, Alba) Neural network with hierarchical clustering near saturation. **93f:92008**
Pogosyan, S. K. *see* **Arzumanyan, V. A.; et al., 93d:82007**
Porsezian, K. (*with* Daniel, Muthiah; Lakshmanan, M.) On the integrability aspects of the one-dimensional classical continuum isotropic biquadratic Heisenberg spin chain. **93c:82022**
Prum, Bernard (*with* Fort, Jean-Claude) ★ Stochastic processes on a lattice and Gibbs measures. **93k:82001**
Reshetikhin, N. Yu. A new exactly solvable case of an O(n)-model on a hexagonal lattice. **93d:82037**
Ruiz, Jean *see* **De Coninck, Joël; et al., 93m:82011**
Šamaj, L. (*with* Kolesík, M.) Exactly solvable weak-graph duals of a generalized Ising model on the Kagomé lattice. (English summary) **93j:82027**
— *see also* **Kolesík, M.; et al., 93g:82039**
Schoutens, Kareljan *see* **Essler, Fabian H. L.; et al., 93i:82030**

Schütz, G. A new approach to the calculation of the central charge. **93a:81068**
(Schwarzbach, Bertram Eugene) *see* **Prum, Bernard, 93k:82001**
Shlosman, S. B. *see* **Dobrushin, R. L.; et al., 93k:82002**
Shtan'ko, M. A. *see* **Dolbilin, N. P.; et al., 93a:52014**
Shtogrin, M. I. *see* **Dolbilin, N. P.; et al., 93a:52014**
Sławianowska, Anna K. Nonlinear integrable models of one-dimensional lattices with internal degrees of freedom. (Russian and Polish summaries) **93c:58093**
Slegers, L. *see* **Fannes, M.; et al., 93g:82010**
Sodano, Pasquale *see* **Diamantini, Maria Cristina; et al., 93h:81082**
Sokal, Alan D. *see* **Caracciolo, Sergio; et al., 93f:82031**
Sólyom, J. Phase transitions in quantum spin chains. **93c:82025**
Staudacher, Matthias *see* **Kostov, Ivan K., 93k:81179**
Stroock, Daniel W. Microcanonical distributions for one-dimensional lattice gases. **93d:82011**
Suzuki, Masuo *see* **Kinosita, Yosinori; et al., 93j:82037**
Tao, Rui Bao *see* **Lin, Zhi Fang, 93a:82022**
Theumann, Alba *see* **Pires Idiart, M. A., 93f:92008**
Thompson, Colin J. Validity of mean-field theories in critical phenomena. **93h:82001**
Tian, Guang Shan A rigorous theorem on off-diagonal long-range order of boson systems. **93c:82009**
Tóth, Bálint Probabilistic representation of the quantum Heisenberg ferromagnet—a painless GNS construction. (English summary) **93g:82012**
Vande Velde, Koen *see* **Maes, Christian, 93m:82002**
de Vega, H. J. (*with* Woynarovich, F.) New integrable quantum chains combining different kinds of spins. (English summary) **93j:82028**
Volovich, I. V. *see* **Aref'eva, I. Ya., 93d:81084**
Wang, Kong Ming *see* **Ellis, Richard S., 93c:62046**
Warnaar, S. O. (*with* Batchelor, Murray T.; Nienhuis, B.) Critical properties of the Izergin-Korepin and solvable $O(n)$ models and their related quantum spin chains. **93g:82041**
Werner, R. F. *see* **Fannes, M.; et al., 93i:82005**
Woynarovich, F. *see* **de Vega, H. J., 93j:82028**
Wu, Yanan *see* **Zhao, Dongming; et al., 93i:82043**
Yan, Mu Lin *see* **Zhao, Hong Kang, 93g:81115**
Yu, Yue *see* **Chau, Ling-Lie, 93d:81151**
Yüan, Hsi Shih A characterization of "rapidity" curve in the chiral Potts model. **93k:82022**
Zagrebnov, V. A. (*with* Amaro de Matos, J. M. G.; Patrick, A. E.) Gibbs measures for the Curie-Weiss random field Ising model. **93a:82033**
Zhao, Dongming (*with* Wu, Yanan; Lookman, Turab) On the critical exponent ν for c-animals. (English summary) **93i:82043**
Zhao, Hong Kang (*with* Yan, Mu Lin) The energy-spin Green function of Ising quantum field theory in small external magnetic fields for $T > T_c$. (English summary) **93g:81115**

82B21 Continuum models (systems of particles, etc.)

Adin, Ron M. The Gaussian model for fluids and covering a graph by spanning trees. **93c:82016**
Baez, John C. (*with* Bishop, Alan R.; Dandoloff, Rossen) On the Hopf term in a two-dimensional σ model for antiferromagnets. **93f:82017**
Bernardin, D. Global invariants and equilibrium states in lattice gases. (English summary) **93i:82025**
Bishop, Alan R. *see* **Baez, John C.; et al., 93f:82017**
Broidioi, Marino (*with* Nachtergaele, Bruno; Verbeure, André) The Overhauser model: equilibrium fluctuation dynamics. **93m:82005**
Dandoloff, Rossen *see* **Baez, John C.; et al., 93f:82017**
Drunk, W. (*with* Fuchs, D.; Zirnbauer, Martin R.) Migdal-Kadanoff renormalization of a nonlinear supervector model with hyperbolic symmetry. **93g:82027**
Edwards, S. F. The glass transition. **93g:82028**
Forrester, P. J. Surface tension for the two-component plasma at $\Gamma = 2$ near an interface. **93j:82014**
— (*with* Pisani, C.) The hole probability in log-gas and random matrix systems. **93c:82017**
— A constant term identity and its relationship to the log-gas and some quantum many-body systems. **93b:82021**
Fuchs, D. *see* **Drunk, W.; et al., 93g:82027**
Gonchar, N. S. (*with* Rudyk, A. B.) Oscillation of the radial distribution function. (English summary) **93g:82029**
Griffiths, Robert B. Commensurate-incommensurate transitions and area-preserving maps: the Frenkel-Kontorova model. **93g:82030**
Kaup, D. J. (*with* Paine, Gregory H.) A closed form solution of the one-dimensional Born-Green-Yvon equation for a hard-rod fluid. (English summary) **93i:82026**
Luan, Chang Fu The main [mean] field approximation to the finite nearest particle system. (English summary) **93i:82027**
Makhan'kov, V. G. (*with* Pashaev, O. K.) Integrable classical Heisenberg models on superalgebra spl(2/1). **93c:82018**
Nachtergaele, Bruno *see* **Broidioi, Marino; et al., 93m:82005**
Paine, Gregory H. *see* **Kaup, D. J., 93i:82026**
Pashaev, O. K. *see* **Makhan'kov, V. G., 93c:82018**
Pisani, C. *see* **Forrester, P. J., 93c:82017**
Rudyk, A. B. *see* **Gonchar, N. S., 93g:82029**
Verbeure, André *see* **Broidioi, Marino; et al., 93m:82005**
Zirnbauer, Martin R. *see* **Drunk, W.; et al., 93g:82027**

Items with secondary classifications in 82B21

(Allegra, Giuseppe) *see* **de Gennes, Pierre-Gilles, 93i:82084**
Arak, T. (*with* Surgailis, Donatas) Markov random graphs and polygonal fields with Y-shaped nodes. **93c:60054**
Barbulyak, V. S. (*with* Kondrat'ev, Yu. G.) Functional integrals and quantum lattice systems. I. The existence of Gibbs states. (Russian. English summary) **93b:82007a**
— (*with* Kondrat'ev, Yu. G.) Functional integrals and quantum lattice systems. II. Periodic Gibbs states. (Russian. English summary) **93b:82007b**
— (*with* Kondrat'ev, Yu. G.) Functional integrals and quantum lattice systems. III. Phase transitions. (Russian. English summary) **93b:82007c**
Chakravarty, Sarbarish (*with* Kent, Steven; Newman, Ezra T.) Diffeomorphism algebras and the Nahm and Ward equations. **93a:81124**
Cvitanović, Predrag (*with* Gaspard, Pierre; Schreiber, Thomas) Investigation of the Lorentz gas in terms of periodic orbits. **93h:82024**
Edwards, S. F. Some reminiscences of the sixties. **93g:82053**
Gaspard, Pierre *see* **Cvitanović, Predrag; et al., 93h:82024**
de Gennes, Pierre-Gilles ★ Introduction to polymer dynamics. **93i:82084**
Gepner, Doron On the algebraic structure of $N = 2$ string theory. **93b:81215**
Gielerak, Roman (*with* Zagrebnov, V. A.) Analyticity and independence on the classical boundary conditions of the infinite volume thermal KMS states for a class of continuous systems. I. The Maxwell-Boltzmann statistics case. **93b:82008**
— Uniqueness theorem for a class of continuous systems. (English summary) **93j:82002**
Gurevich, B. M. Gibbs random fields that are invariant with respect to infinite-particle Hamiltonian dynamics. (Russian. English and Russian summaries) **93g:82005**
Johansson, Kurt Separation of phases at low temperatures in a one-dimensional continuous gas. **93e:82003**
— Condensation of a one-dimensional lattice gas. **93e:82023**
Kent, Steven *see* **Chakravarty, Sarbarish; et al., 93a:81124**
Kiessling, Michael K.-H. Statistical mechanics of classical particles with logarithmic interactions. (English summary) **93k:82003**
Kondrat'ev, Yu. G. *see* **Barbulyak, V. S., 93b:82007a; 93b:82007b** *and* **93b:82007c**
Kuroda, Koji (*with* Tanemura, Hideki) Limit theorem and large deviation principle for the Voronoi tessellation generated by a Gibbs point process. **93c:60161**
Martins, Márcio José The thermodynamic Bethe ansatz for deformed WA_{N-1} conformal field theories. **93a:81178**
Newman, Ezra T. *see* **Chakravarty, Sarbarish; et al., 93a:81124**
Roelly-Coppoletta, Sylvie (*with* Zessin, Hans) Sur la mécanique statistique d'une particule brownienne sur le tore. [On the statistical mechanics of a Brownian particle on the torus] **93m:60055**
Schreiber, Thomas *see* **Cvitanović, Predrag; et al., 93h:82024**
Surgailis, Donatas *see* **Arak, T., 93c:60054**
Tanemura, Hideki *see* **Kuroda, Koji, 93c:60161**
Zagrebnov, V. A. *see* **Gielerak, Roman, 93b:82008**
Zessin, Hans *see* **Roelly-Coppoletta, Sylvie, 93m:60055**

82B23 Exactly solvable models

Aguilar, A. (*with* Braun, E.) The specific heat of a general two-dimensional Ising model. **93a:82016**
Akutsu, Yasuhiro *see* **Kiwata, Hirohito, 93e:82019; Deguchi, Tetsuo, 93h:82015** *and* **Kiwata, Hirohito, 93k:82019**
Albertini, Giuseppe Bethe-ansatz type equations for the Fateev-Zamolodchikov spin model. **93g:82031**
Au-Yang, Helen (*with* Perk, Jacques H. H.) Solutions of the star-triangle equations in (N_α, N_β) Potts models. (English summary) **93i:82028**
— (*with* Perk, Jacques H. H.) Multicomponent chiral Potts models. (English summary) **93j:82015**
Bariev, R. Z. (*with* Truong, T. T.) Exactly solvable two-sublattice vertex model with interactions of vertex-arrow type. **93c:82019**
Basu Mallick, B. *see* **Kundu, A., 93i:82033** *and* **93j:82022**
Batchelor, Murray T. $U_q[SU(2)]$-invariant spin chains, related algebras and finite-size corrections. (English summary) **93g:82032**
— *see also* **Warnaar, S. O.; et al., 93g:82041**
Baxter, Rodney James Hyperelliptic function parametrization for the chiral Potts model. **93m:82006**
— *see also* **Bazhanov, V. V., 93j:82016**
Bazhanov, V. V. (*with* Reshetikhin, N. Yu.) Scattering amplitudes and offcritical models and RSOS integrable models. **93i:82029**
— (*with* Baxter, Rodney James) New solvable lattice models in three dimensions. (English summary) **93j:82016**
Berkovich, Alexander (*with* Gómez, César; Sierra, Germán) On a new class of integrable models. **93j:82017**
Bernard, Denis *see* **Haldane, F. D. M.; et al., 93h:82020**
Bliev, N. K. (*with* Myrzakulov, R.; Tattibekov, K. S.) An integrable continuous OSp(2/1) Heisenberg model. (Russian. English and Kazakh summaries) **93d:82026**
Bonechi, F. (*with* Celeghini, E.; Giachetti, Riccardo; Sorace, E.; Tarlini, M.) Heisenberg XXZ model and quantum Galilei group. (English summary) **93f:82018**
Boukraa, S. (*with* Maillard, J.-M.) Taxonomy of the sixteen-vertex models. (English summary) **93j:82018**
Braun, E. *see* **Aguilar, A., 93a:82016**
Burdík, Č. (*with* Hellinger, Petr) The universal R-matrix and the Yang-Baxter equation with parameters. (English summary) **93j:82019**
Burkhardt, T. W. (*with* Choi, Je-Young) Correlations of the energy density and conformal invariance in the the 2D Ising model with a defect line. **93h:82013**
Celeghini, E. *see* **Bonechi, F.; et al., 93f:82018**
Choi, Je-Young *see* **Burkhardt, T. W., 93h:82013**
Chung, H. J. (*with* Koh, In Gyu) Solutions to the quantum Yang-Baxter equation for the exceptional Lie algebras with a spectral parameter. **93f:82019**
Colomo, F. (*with* Izergin, A. G.; Korepin, V. E.; Tognetti, V.) Correlators in the Heisenberg $XX0$ chain as Fredholm determinants. (English summary) **93f:82020**
Daniel, Muthiah *see* **Porsezian, K.; et al., 93c:82022**
Davies, Brian Onsager's algebra and the Dolan-Grady condition in the non-self-dual case. **93h:82014**
Deguchi, Tetsuo (*with* Akutsu, Yasuhiro) A new hierarchy of colored vertex models. **93h:82015**
— (*with* Fujii, Akira) IRF models associated with representations of the Lie superalgebras $gl(m|n)$ and $sl(m|n)$. **93a:82017**

Destri, C. (*with* de Vega, H. J.) Bethe ansatz and quantum groups: the light-cone lattice approach. I. Six vertex and SOS models. **93h:82016**
— (*with* de Vega, H. J.) New thermodynamic Bethe ansatz equations without strings. (English summary) **93h:82017**
Di Francesco, Ph. Integrable lattice models, graphs and modular invariant conformal field theories. **93d:82027**
Dorey, Patrick E. Partition functions, intertwiners and the Coxeter element. (English summary) **93j:82020**
Egusquiza, I. L. Quantum group invariance in quantum sphere valued statistical models. **93a:82018**
Essler, Fabian H. L. (*with* Korepin, V. E.; Schoutens, Kareljan) Fine structure of the Bethe ansatz for the spin-$\frac{1}{2}$ Heisenberg XXX model. (English summary) **93i:82030**
— (*with* Korepin, V. E.; Schoutens, Kareljan) Completeness of the SO(4) extended Bethe ansatz for the one-dimensional Hubbard model. (English summary) **93k:82013**
Fei, Shao Ming (*with* Guo, Han Ying; Shi, He) Multiparameter solutions of the Yang-Baxter equation. **93d:82028**
Foda, Omar (*with* Miwa, Tetsuji) Corner transfer matrices and quantum affine algebras. (English summary) **93k:82014**
Forrester, P. J. Exact eigenstates of some spin-$\frac{1}{2}$ Heisenberg chains with $1/r^2$ exchange. (English summary) **93k:82015**
— (*with* Jancovici, B.; Madore, J.) The two-dimensional Coulomb gas on a sphere: exact results. (English summary) **93h:82018**
Frahm, Holger Integrable spin-$\frac{1}{2}$ XXZ Heisenberg chain with competing interactions. **93b:82022**
Freund, Peter G. O. (*with* Zabrodin, A. V.) Z_n-Baxter models and quantum symmetric spaces. **93d:82029**
— (*with* Zabrodin, A. V.) Excitation scattering in integrable models and Hall-Littlewood-Kerov polynomials. (English summary) **93k:82016**
Fujii, Akira *see* **Deguchi, Tetsuo, 93a:82017**
Gade, E., III *see* **Gade, S., 93h:82019**
Gade, S. (*with* Gade, E., III) Natural frequencies of the classical two-spin XXZ system. (English summary) **93h:82019**
Gaudin, M. La relation étoile-triangle d'un modèle elliptique $\mathbf{Z}_N$. (English and French summaries) [The star-triangle relation for an elliptic model $\mathbf{Z}_N$] **93i:82031**
Ge, Mo Lin (*with* Wu, Yong Shi[1]; Xue, Kang) Explicit trigonometric Yang-Baxterization. **93b:82023**
— (*with* Liu, Xu Feng; Sun, Chang Pu; Xue, Kang) General solutions of $R^{j\frac{1}{2}}(x)$ and quantum group structure. **93d:82030**
— (*with* Jing, Nai Huan; Liu, G.-Q.) On quantum groups for Z_N models. **93d:82031**
Giachetti, Riccardo *see* **Bonechi, F.; et al., 93f:82018**
Gómez, César (*with* Sierra, Germán) A new solution to the star-triangle equation based on $U_q(\mathrm{sl}(2))$ at roots of unity. **93d:82032**
— *see also* **Berkovich, Alexander; et al., 93j:82017**
Guan, Xi Wen (*with* Yin, Chun Hao; Xiong, Zhuang) The classical Yang-Baxter equation and an osp(2, 1) Gaudin model. (Chinese. English summary) **93c:82020**
Guo, Han Ying *see* **Fei, Shao Ming; et al., 93d:82028**
Ha, Z. N. C. *see* **Haldane, F. D. M.; et al., 93h:82020**
Haldane, F. D. M. (*with* Ha, Z. N. C.; Talstra, J. C.; Bernard, Denis; Pasquier, V.) Yangian symmetry of integrable quantum chains with long-range interactions and a new description of states in conformal field theory. (English summary) **93h:82020**
Hatsugai, Yasuhiro (*with* Kohmoto, Mahito) Exactly solvable model of correlated lattice electrons in any dimensions. (English summary) **93g:82033**
Hellinger, Petr *see* **Burdík, Č., 93j:82019**
Hikami, Kazuhiro (*with* Kulish, P. P.; Wadati, Miki) Construction of integrable spin systems with long-range interactions. (English summary) **93k:82017**
Hlavatý, Ladislav On solutions of the Yang-Baxter equations without additivity. **93b:82024**
— New constant and trigonometric 4×4 solutions to the Yang-Baxter equations. **93g:82034**
Hou, Bo Yu (*with* Shi, Kang Jie; Yang, Zhong Xia; Yue, Rui Hong) Integrable quantum chain and the representation of the quantum group $\mathrm{SU}_q(2)$. **93d:82033**
— *see also* **Zhou, Yu Kui, 93m:82010**
Ikeda, Kazuyosi (*with* Takano, Takehiko) Statistical mechanics of one-dimensional gases with second-nearest-neighbour interactions. I. Fundamental equations and the high-pressure expansion. **93g:82035a**
— (*with* Takano, Takehiko) Statistical mechanics of one-dimensional gases with second-nearest-neighbour interactions. II. Low-pressure expansion. **93g:82035b**
— (*with* Takano, Takehiko) Statistical mechanics of one-dimensional gases with second-nearest-neighbour interactions. III. High-temperature expansion and the range-constant expansion. **93g:82035c**
Izergin, A. G. *see* **Colomo, F.; et al., 93f:82020**
Jancovici, B. *see* **Forrester, P. J.; et al., 93h:82018**
Jimbo, Michio Solvable lattice models and quantum groups. **93g:82036**
— (*with* Miki, Kei; Miwa, Tetsuji; Nakayashiki, Atsushi) Correlation functions of the XXZ model for $\Delta < -1$. (English summary) **93m:82007**
Jing, Nai Huan *see* **Ge, Mo Lin; et al., 93d:82031**
Johannesson, Henrik Lattice Virasoro algebras, unitarity, and the eight-vertex model. **93g:82037**
Jones, Vaughan F. R. Baxterization. **93e:82018**
Jurčo, Branislav Classical Yang-Baxter equations and quantum integrable systems (Gaudin models). **93k:82018**
Karowski, M. Yang-Baxter algebra, Bethe ansatz, conformal quantum field theories, quantum groups. (English summary) **93j:82021**
Kashaev, R. M. (*with* Mangazeev, V. V.; Nakanishi, Tomoki) Yang-Baxter equation for the sl(n) chiral Potts model. **93d:82034**
— (*with* Mangazeev, V. V.; Stroganov, Yu. G.) N^3-state R-matrix related with $U_q(\mathrm{sl}(3))$ algebra at $q^{2N} = 1$. (English summary) **93m:82008**
Kennedy, Thomas Garrett Solutions of the Yang-Baxter equation for isotropic quantum spin chains. **93f:82021**
Kiwata, Hirohito (*with* Akutsu, Yasuhiro) Exactly solvable SU(M) spin chain with long-range interactions. **93e:82019**
— (*with* Akutsu, Yasuhiro) Long-range SU(M) spin chain: exact ground state with arbitrary symmetry. (English summary) **93k:82019**
Klümper, Andreas (*with* Pearce, Paul A.) Conformal weights of RSOS lattice models and their fusion hierarchies. **93i:82032**
Koh, In Gyu *see* **Chung, H. J., 93f:82019**
Kohmoto, Mahito *see* **Hatsugai, Yasuhiro, 93g:82033**
Kolesík, M. (*with* Šamaj, L.) Solvable cases of the general spin-one Ising model on the honeycomb lattice. **93g:82038**
— (*with* Šamaj, L.; Markoš, P.) Solvable weak-graph duals of partially frozen vertex models. (English summary) **93g:82039**
— *see also* **Šamaj, L., 93j:82027**
Korepin, V. E. *see* **Colomo, F.; et al., 93f:82020**; **Essler, Fabian H. L.; et al., 93i:82030** *and* **93k:82013**
Koubek, A. Interpretation of IRF models as scattering amplitudes of perturbed conformal field theories. **93d:82035**
Kulish, P. P. *see* **Hikami, Kazuhiro; et al., 93k:82017**
Kundu, A. (*with* Basu Mallick, B.) Solutions of the nonadditive YBE by spectral parameter factorization and re-Yang-Baxterization. (English summary) **93j:82022**
— (*with* Basu Mallick, B.) Construction of integrable quantum lattice models through Sklyanin-like algebras. **93i:82033**
Kuniba, Atsuo (*with* Nakanishi, Tomoki) Fusion RSOS models and rational coset models. (English summary) **93i:82034**
Lakshmanan, M. *see* **Porsezian, K.; et al., 93c:82022**
Larsson, T. A. Universal solutions to the simplex equations. (English summary) **93i:82035**
Liu, G.-Q. *see* **Ge, Mo Lin; et al., 93d:82031**
Liu, Xu Feng *see* **Ge, Mo Lin; et al., 93d:82030**
Lopes, E. Exact solution of the multi-component generalized six-vertex model. **93f:82022**
Madore, J. *see* **Forrester, P. J.; et al., 93h:82018**
Maillard, J.-M. *see* **Boukraa, S., 93j:82018**
Mangazeev, V. V. *see* **Kashaev, R. M.; et al., 93d:82034** *and* **93m:82008**
Markoš, P. *see* **Kolesík, M.; et al., 93g:82039**
Martin, Paul Purdon (*with* Rittenberg, Vladimir) A template for quantum spin chain spectra. (English summary) **93j:82023**
— On a two-parameter generalization of Hecke algebras and the XY chain in a magnetic field. (English summary) **93j:82024**
McCoy, Barry M. The chiral Potts model: from physics to mathematics and back. **93c:82021**
Mezincescu, Luca (*with* Nepomechie, Rafael I.) Addendum: "Integrability of open spin chains with quantum algebra symmetry" [Internat. J. Modern Phys. A **6** (1991), no. 29, 5231–5248; MR 92m:82045]. **93g:82040**
— (*with* Nepomechie, Rafael I.) Fusion procedure for open chains. **93j:82025**
Miki, Kei *see* **Jimbo, Michio; et al., 93m:82007**
Miwa, Tetsuji Solvable lattice models and representation theory of quantum groups. **93d:82036**
— *see also* **Foda, Omar, 93k:82014** *and* **Jimbo, Michio; et al., 93m:82007**
Myrzakulov, R. *see* **Bliev, N. K.; et al., 93d:82026**
Nakanishi, Tomoki *see* **Kashaev, R. M.; et al., 93d:82034** *and* **Kuniba, Atsuo, 93i:82034**
Nakayashiki, Atsushi *see* **Jimbo, Michio; et al., 93m:82007**
Nepomechie, Rafael I. *see* **Mezincescu, Luca, 93g:82040** *and* **93j:82025**
Nienhuis, B. *see* **Warnaar, S. O.; et al., 93d:82039** *and* **93g:82041**
Okado, Masato Solvable face models related to the Lie superalgebra sl($m|n$). **93f:82023a**
— Addendum: "Solvable face models related to the Lie superalgebra sl($m|n$)". **93f:82023b**
Orland, Peter Six-vertex models as Fermi gases. **93j:82026**
Pasquier, V. *see* **Haldane, F. D. M.; et al., 93h:82020**
Pearce, Paul A. *see* **Klümper, Andreas, 93i:82032**
Perk, Jacques H. H. *see* **Au-Yang, Helen, 93i:82028** *and* **93j:82015**
Porsezian, K. (*with* Daniel, Muthiah; Lakshmanan, M.) On the integrability aspects of the one-dimensional classical continuum isotropic biquadratic Heisenberg spin chain. **93c:82022**
Profilo, G. (*with* Soliani, G.; Solombrino, L.) Loop algebras and symmetries related to both a compact and a noncompact version of a $(2 + 1)$-dimensional spin model. **93e:82020**
Reshetikhin, N. Yu. S-matrices in integrable models of isotropic magnetic chains. I. **93b:82025**
— A new exactly solvable case of an O(n)-model on a hexagonal lattice. **93d:82037**
— *see also* **Bazhanov, V. V., 93i:82029**
Rittenberg, Vladimir *see* **Martin, Paul Purdon, 93j:82023**
Rutkevich, S. B. Instantons in spherical model thermodynamics. **93d:82038**
Saleur, H. (*with* Zuber, J.-B.) Integrable lattice models and quantum groups. **93m:82009**
— Geometrical lattice models for $N = 2$ supersymmetric theories in two dimensions. (English summary) **93i:82036**
Šamaj, L. (*with* Kolesík, M.) Exactly solvable weak-graph duals of a generalized Ising model on the Kagomé lattice. (English summary) **93j:82027**
— *see also* **Kolesík, M., 93g:82038** *and* **93g:82039**
Schoutens, Kareljan *see* **Essler, Fabian H. L.; et al., 93i:82030** *and* **93k:82013**
Seaton, K. A. *see* **Warnaar, S. O.; et al., 93d:82039**
Shi, He *see* **Fei, Shao Ming; et al., 93d:82028**
Shi, Kang Jie *see* **Hou, Bo Yu; et al., 93d:82033**
Sierra, Germán *see* **Gómez, César, 93d:82032** *and* **Berkovich, Alexander; et al., 93j:82017**
Sklyanin, E. K. Separation of variables in the classical integrable SL(3) magnetic chain. (English summary) **93k:82020**
Soliani, G. *see* **Profilo, G.; et al., 93e:82020**
Solombrino, L. *see* **Profilo, G.; et al., 93e:82020**
Sorace, E. *see* **Bonechi, F.; et al., 93f:82018**
Stroganov, Yu. G. *see* **Kashaev, R. M.; et al., 93m:82008**
Sun, Chang Pu *see* **Ge, Mo Lin; et al., 93d:82030**
Takano, Takehiko *see* **Ikeda, Kazuyosi, 93g:82035a**; **93g:82035b** *and* **93g:82035c**
Takebe, Takashi Generalized Bethe ansatz with the general spin representations of the Sklyanin algebra. **93e:82021**
Talstra, J. C. *see* **Haldane, F. D. M.; et al., 93h:82020**
Tarlini, M. *see* **Bonechi, F.; et al., 93f:82018**
Tattibekov, K. S. *see* **Bliev, N. K.; et al., 93d:82026**

Tognetti, V. *see* **Colomo, F.; et al., 93f:82020**
Truong, T. T. *see* **Bariev, R. Z., 93c:82019**
de Vega, H. J. Yang-Baxter algebras, integrable theories and Bethe ansatz. (English summary) **93k:82021**
— (*with* Woynarovich, F.) New integrable quantum chains combining different kinds of spins. (English summary) **93j:82028**
— *see also* **Destri, C., 93h:82016** *and* **93h:82017**
Vinţeler, Emil The Baxterization of the Zamolodchikov model. **93a:82019**
Wadati, Miki *see* **Hikami, Kazuhiro; et al., 93k:82017**
Warnaar, S. O. (*with* Batchelor, Murray T.; Nienhuis, B.) Critical properties of the Izergin-Korepin and solvable O(n) models and their related quantum spin chains. **93g:82041**
— (*with* Nienhuis, B.; Seaton, K. A.) New construction of solvable lattice models including an Ising model in a field. **93d:82039**
Woynarovich, F. *see* **de Vega, H. J., 93j:82028**
Wu, Yong Shi[1] *see* **Ge, Mo Lin; et al., 93b:82023**
Xiong, Shi Jie Exact ground state of several quasi-two- and three-dimensional frustrated Heisenberg models. (English summary) **93h:82021**
Xiong, Zhuang *see* **Guan, Xi Wen; et al., 93c:82020**
Xue, Kang *see* **Ge, Mo Lin; et al., 93b:82023** *and* **93d:82030**
Yang, Zhong Xia *see* **Hou, Bo Yu; et al., 93d:82033**
Yin, Chun Hao *see* **Guan, Xi Wen; et al., 93c:82020**
Yüan, Hsi Shih A characterization of "rapidity" curve in the chiral Potts model. **93k:82022**
Yue, Rui Hong *see* **Hou, Bo Yu; et al., 93d:82033**
Zabrodin, A. V. *see* **Freund, Peter G. O., 93d:82029** *and* **93k:82016**
Zhou, Yu Kui From inhomogeneous six-vertex lattice models to continuum quantum integrable models. (English summary) **93k:82023**
— (*with* Hou, Bo Yu) Some remarks on the eigenvalue problem for Z_n symmetric vertex and face models. (English summary) **93m:82010**
Zuber, J.-B. *see* **Saleur, H., 93m:82009**

Items with secondary classifications in 82B23

Abanov, A. G. Phase transitions in dimer systems. (Russian) **93f:82008**
Aguilar, A. *see* **Braun, E., 93e:82009**
Akutsu, Yasuhiro *see* **Deguchi, Tetsuo, 93b:81111** *and* **Wadati, Miki; et al., 93e:57016**
Altschüler, D. *see* **Saleur, H., 93b:17051**
Anderson, Arlen (*with* Myers, Robert C.; Periwal, Vipul) Branched polymers from a double-scaling limit of matrix models. **93b:81196**
Aomoto, Kazuhiko (*with* Kato, Yoshifumi; Mimachi, Katsuhisa) A solution of the Yang-Baxter equation as connection coefficients of a holonomic q-difference system. **93d:39007**
Asorey, Manuel Conformal invariance in quantum field theory and statistical mechanics. **93c:81002**
Baker, George A., Jr. (*with* Singh, Rajiv R. P.) Bulk value of the central charge in conformally invariant critical phenomena. **93d:82041**
Baranowski, D. (*with* Rittenberg, Vladimir; Schütz, G.) Higher symmetries in the spin-one Zamolodchikov-Fateev Hamiltonian with a finite number of sites and toroidal boundary conditions. Spectra and operator content of $N = 1$ superconformal systems. **93c:81192**
Bariev, R. Z. (*with* Truong, T. T.; Turban, L.) Exact solution of an N-sublattice vertex model. **93b:82011**
— Excitations in the integrable model with two- and three-particle interactions. **93b:82086**
Basu Mallick, B. (*with* Kundu, A.) Spectral parameter-dependent approach to quantized algebra, its multiparameter deformations and their q-oscillator realizations. (English summary) **93h:81054**
Bazhanov, V. V. (*with* Kashaev, R. M.; Mangazeev, V. V.; Stroganov, Yu. G.) $(Z_N\times)^{n-1}$ generalization of the chiral Potts model. **93d:82019**
Bednář, M. (*with* Burdík, Č.; Couture, Michel Josaphat; Hlavatý, Ladislav) On the quantum symmetries associated with the two parameter free fermion model. **93c:17023**
Bracken, Anthony J. *see* **Gould, M. D.; et al., 93g:81049**
Braden, H. W. (*with* Corrigan, E.; Dorey, Patrick E.; Sasaki, Ryu) Aspects of affine Toda field theory. **93h:81110**
Braun, E. (*with* Aguilar, A.) Exact magnetic transitions in the "union jack" model. **93e:82009**
Burdík, Č. *see* **Bednář, M.; et al., 93c:17023**
Caldi, D. G. Classical SU(2) invariance of quantum SU(2)-invariant Hamiltonians. (English summary) **93h:82006**
Capel, Hans W. *see* **Nijhoff, F. W.; et al., 93h:58076**
Carey, A. L. (*with* Hume, L. R.) Multiple phases and return to equilibrium. (English summary) **93m:82024**
Carmelo, J. M. P. (*with* Castro Neto, A. H.) Dynamical decoupling and Kac-Moody current representation in multicomponent integrable systems. (English summary) **93k:81076**
Carter, J. Scott (*with* Saito, Masahiko) Planar generalizations of the Yang-Baxter equation and their skeins. **93g:20072**
Castro Neto, A. H. *see* **Carmelo, J. M. P., 93k:81076**
Cheng, Yi[1] (*with* Ge, Mo Lin; Liu, Guang Chun; Xue, Kang) New solutions of Yang-Baxter equation and new link polynomials. **93d:57012**
Chernyak, V. Ya. (*with* Grigorishin, K. I.; Ogievetskii, E. I.) Triangle equation and quantum algebra representations. **93g:81047**
Corrigan, E. *see* **Braden, H. W.; et al., 93h:81110**
Couture, Michel Josaphat Quantum symmetries associated with the Perk-Schultz model. **93b:81109**
— *see also* **Bednář, M.; et al., 93c:17023**
Date, Etsurō (*with* Jimbo, Michio; Miki, Kei; Miwa, Tetsuji) Braid group representations arising from the generalized chiral Potts models. **93g:20074**
Deguchi, Tetsuo Link polynomials and solvable models. **93a:57005**
— (*with* Akutsu, Yasuhiro) Colored braid matrices from infinite-dimensional representations of $U_q(g)$. **93b:81111**
— *see also* **Wadati, Miki; et al., 93e:57016**
Demidov, E. E. (*with* Manin, Yu. I.; Mukhin, E. E.; Zhdanovich, D. V.) Nonstandard quantum deformations of GL(n) and constant solutions of the Yang-Baxter equation. **93g:17022**
Dorey, Patrick E. *see* **Braden, H. W.; et al., 93h:81110**
Fannes, M. (*with* Nachtergaele, Bruno; Werner, R. F.) Finitely correlated states on quantum spin chains. **93i:82006**
Fendley, Paul Excited-state thermodynamics. **93k:81162**
Forrester, P. J. Surface tension for the two-component plasma at $\Gamma = 2$ near an interface. **93j:82014**
Ge, Mo Lin (*with* Piao, Fan; Wang, Lu Yu; Xue, Kang) Witten's approach, braid group representations and x-deformations. **93b:20070**
— (*with* Liu, Xu Feng; Sun, Chang Pu) New boson representations of the $\mathrm{sl}_q(2)$ with multiplicity two and new solutions to the Yang-Baxter equation at $q^p = 1$. **93b:17042**
— (*with* Liu, Xu Feng; Sun, Chang Pu) The q-boson realization of new solutions for the Yang-Baxter equation associated with the quantum algebra $U_q\mathrm{sl}(3)$ at $q^p = 1$. **93c:17025**
— (*with* Sun, Chang Pu; Xue, Kang) Construction of general colored R matrices for the Yang-Baxter equation and q-boson realization of quantum algebra $\mathrm{sl}_q(2)$ when q is a root of unity. (English summary) **93k:81096**
— (*with* Sun, Chang Pu; Xue, Kang) New R-matrices for the Yang-Baxter equation associated with the representations of the quantum superalgebra $U_q\mathrm{osp}(1,2)$ with q a root of unity. **93d:17020**
— (*with* Liu, Xu Feng) A new kind of R-matrix associated with the Hopf algebra $U_q(A_2(\mu))$. **93i:81092**
— *see also* **Sun, Chang Pu; et al., 93a:81084** *and* **Cheng, Yi[1]; et al., 93d:57012**
Gebhard, F. *see* **Janiš, Vladimír; et al., 93h:82007**
Ginsparg, P. Some statistical mechanical models and conformal field theories. **93g:82001**
Gould, M. D. (*with* Links, J. R.; Bracken, Anthony J.) Matrix elements and Wigner coefficients for $U_q[\mathrm{gl}(n)]$. **93g:81049**
— Reduced Wigner coefficients for $U_q[\mathrm{gl}(n)]$. **93g:81050**
Greiter, Martin (*with* Wilczek, Frank) Exact solutions and the adiabatic heuristic for quantum Hall states. **93g:81213**
Grigorishin, K. I. *see* **Chernyak, V. Ya.; et al., 93g:81047**
Guan, Xi Wen (*with* Xiong, Zhuang; Zhou, Huan Qiang) Classical Yang-Baxter equations and quantum $\mathrm{gl}(p,q)$-Gaudin model. **93h:17029**
Gurevich, D. I. Algebraic aspects of the quantum Yang-Baxter equation. (Russian) **93e:17018**
— (*with* Rubtsov, V. V.) Équation de Yang-Baxter et S-traces. (English summary) [The Yang-Baxter equation and S-traces] **93m:17011**
Hietarinta, Jarmo All solutions to the constant quantum Yang-Baxter equation in two dimensions. **93d:16050**
Hlavatý, Ladislav *see* **Bednář, M.; et al., 93c:17023**
Hoppe, Jens ★ Lectures on integrable systems. **93b:58069**
Hou, Bo Yuan (*with* Ma, Zhong Qi) Solutions to the Yang-Baxter equation for the spinor representations of q-B_l. **93a:17013**
Hume, L. R. *see* **Carey, A. L., 93m:82024**
Isakov, S. B. Statistics in one dimension: Heisenberg and Schrödinger quantizations. (English summary) **93h:81064**
Ivanov, I. T. (*with* Uglov, D. B.) R-matrices for the semicyclic representations of $U_q\widehat{\mathrm{sl}}(2)$. **93j:81045**
Janiš, Vladimír (*with* Gebhard, F.; Strack, R.; Vollhardt, D.) Comment on: "Interacting-electron model exactly solvable in any dimension" [Phys. Rev. Lett. **66** (1991), no. 11, 1383–1387; MR 92b:82032] by A. Montorsi and M. Rasetti. **93h:82007**
Jimbo, Michio (*with* Misra, Kailash C.; Miwa, Tetsuji; Okado, Masato) Combinatorics of representations of $U_q(\widehat{\mathrm{sl}}(n))$ at $q = 0$. **93a:17015**
— *see also* **Date, Etsurō; et al., 93g:20074**
Johannesson, Henrik Spin glasses from vertex models. **93e:82011**
Jones, Vaughan F. R. ★ Subfactors and knots. **93b:57008**
— Knots, braids and statistical mechanics [MR 92d:57006]. (*see* **93b:00028**)
— Commuting transfer matrices and link polynomials. **93d:57015**
— Knots, braids, statistical mechanics and von Neumann algebras. **93e:57009**
Kang, Seok-Jin (*with* Kashiwara, Masaki; Misra, Kailash C.; Miwa, Tetsuji; Nakashima, Toshiki; Nakayashiki, Atsushi) Vertex models and crystals. (English and French summaries) **93g:17027**
Kashaev, R. M. (*with* Mangazeev, V. V.) $N^{n(n-1)/2}$-state intertwiner related to $U_q(\mathrm{sl}(n))$ algebra at $q^{2N} = 1$. (English summary) **93k:81099**
— *see also* **Bazhanov, V. V.; et al., 93d:82019**
Kashiwara, Masaki *see* **Kang, Seok-Jin; et al., 93g:17027**
Kato, Yoshifumi *see* **Aomoto, Kazuhiko; et al., 93d:39007**
Kauffman, Louis H. Knots and physics. **93a:57009**
— Addendum: "Statistical mechanics and the Jones polynomial" [in *Braids (Santa Cruz, CA, 1986)*, 263–297, Contemp. Math., 78, Amer. Math. Soc., Providence, RI, 1988; MR 89j:57002]. **93b:57009**
— ★ Knots and physics. **93b:57010**
— (*with* Saleur, H.) Free fermions and the Alexander-Conway polynomial. **93d:57017**
Kolesík, M. *see* **Šamaj, L., 93f:82014**
Kulish, P. P. (*with* Sklyanin, E. K.) Algebraic structures related to reflection equations. (English summary) **93k:17032**
Kundu, A. *see* **Basu Mallick, B., 93h:81054**
Leznov, A. N. Toda lattices in classical and quantum regions. (*see* **93f:81005**)
Li, You Quan General form of BGR associated with A_n and its Yang-Baxterization. **93b:20071**
Liguori, A. (*with* Mintchev, M.) Spectral parameters of the quantum Yang-Baxter equation. **93b:17048**
Links, J. R. *see* **Gould, M. D.; et al., 93g:81049**
Liu, Guang Chun *see* **Cheng, Yi[1]; et al., 93d:57012**
Liu, Ke Qin The quantum Witt algebra and quantizations of some Witt-modules. **93e:17022**
Liu, Xu Feng *see* **Sun, Chang Pu; et al., 93a:81084**; **Ge, Mo Lin; et al., 93b:17042**; **93c:17025** *and* **93i:81092**
Ma, Zhong Qi *see* **Hou, Bo Yuan, 93a:17013**
MacKay, N. J. The fusion of R-matrices using the Birman-Wenzl-Murakami algebra. **93f:81054**
Majid, Shahn Quantum group duality in vertex models and other results in the theory of quasitriangular Hopf algebras. **93g:16053**

Makhan'kov, V. G. (*with* Pashaev, O. K.) Continual classical Heisenberg models defined on graded su(2, 1) and su(3) algebras. **93h:82009**
Mangazeev, V. V. *see* **Bazhanov, V. V.; et al., 93d:82019** *and* **Kashaev, R. M., 93k:81099**
Manin, Yu. I. *see* **Demidov, E. E.; et al., 93g:17022**
Martin, Paul Purdon (*with* McAnally, David S.) On commutants, dual pairs and non-semisimple algebras from statistical mechanics. (English summary) **93k:81102**
Matsuyama, A. Periodic Toda lattice in quantum mechanics. (English summary) **93k:81066**
McAnally, David S. *see* **Martin, Paul Purdon, 93k:81102**
Mielke, Andreas Exact ground states for the Hubbard model on the Kagomé lattice. (English summary) **93j:82010**
Miki, Kei *see* **Date, Etsurō; et al., 93g:20074**
Mimachi, Katsuhisa *see* **Aomoto, Kazuhiko; et al., 93d:39007**
Mintchev, M. *see* **Liguori, A., 93b:17048**
Misra, Kailash C. *see* **Jimbo, Michio; et al., 93a:17015** *and* **Kang, Seok-Jin; et al., 93g:17027**
Miwa, Tetsuji *see* **Jimbo, Michio; et al., 93a:17015; Kang, Seok-Jin; et al., 93g:17027** *and* **Date, Etsurō; et al., 93g:20074**
(Montorsi, Arianna) *see* **Janiš, Vladimír; et al., 93h:82007**
Mukhin, E. E. *see* **Demidov, E. E.; et al., 93g:17022**
Murakami, Jun The free-fermion model in presence [presence] of field related to the quantum group $\mathscr{U}_q(\widehat{\mathrm{sl}}_2)$ of affine type and the multi-variable Alexander polynomial of links. (English summary) **93i:57010**
Myers, Robert C. *see* **Anderson, Arlen; et al., 93b:81196**
Nachtergaele, Bruno *see* **Fannes, M.; et al., 93i:82006**
Nakashima, Toshiki *see* **Kang, Seok-Jin; et al., 93g:17027**
Nakayashiki, Atsushi *see* **Kang, Seok-Jin; et al., 93g:17027**
Nijhoff, F. W. (*with* Papageorgiou, V. G.; Capel, Hans W.) Integrable time-discrete systems: lattices and mappings. **93h:58076**
Ogievetskii, E. I. *see* **Chernyak, V. Ya.; et al., 93g:81047**
Okado, Masato *see* **Jimbo, Michio; et al., 93a:17015**
Ooguri, Hirosi Topological lattice models in four dimensions. (English summary) **93h:57031**
Papageorgiou, V. G. *see* **Nijhoff, F. W.; et al., 93h:58076**
Pashaev, O. K. *see* **Makhan'kov, V. G., 93h:82009**
Periwal, Vipul *see* **Anderson, Arlen; et al., 93b:81196**
Piao, Fan *see* **Ge, Mo Lin; et al., 93b:20070**
(Rasetti, Mario) *see* **Janiš, Vladimír; et al., 93h:82007**
Rittenberg, Vladimir *see* **Baranowski, D.; et al., 93c:81192**
Rubtsov, V. V. *see* **Gurevich, D. I., 93m:17011**
Saito, Masahiko *see* **Carter, J. Scott, 93g:20072**
Saleur, H. (*with* Altschüler, D.) Level-rank duality in quantum groups. **93b:17051**
— *see also* **Kauffman, Louis H., 93d:57017**
Šamaj, L. (*with* Kolesík, M.) Mapping of the symmetric vertex model onto the Ising model for an arbitrary lattice coordination. **93f:82014**
Sasaki, Ryu *see* **Braden, H. W.; et al., 93h:81110**
Schücker, Thomas Knots and their links with biology and physics. **93a:57013**
Schütz, G. *see* **Baranowski, D.; et al., 93c:81192**
Shibukawa, Youichi (*with* Ueno, Kimio) Completely Z symmetric R matrix. (English summary) **93m:81066**
Singh, Rajiv R. P. *see* **Baker, George A., Jr., 93d:82041**
Sklyanin, E. K. *see* **Kulish, P. P., 93k:17032**
Soibel'man, Ya. S. Quantum Weyl group and some [of] its applications. **93d:17022**
Steeb, Willi-Hans ★ Kronecker product of matrices and applications. **93f:15027**
Stolin, A. On rational solutions of Yang-Baxter equations. Maximal orders in loop algebra. **93b:17052**
Strack, R. *see* **Janiš, Vladimír; et al., 93h:82007**
Stroganov, Yu. G. *see* **Bazhanov, V. V.; et al., 93d:82019**
Sun, Chang Pu (*with* Xue, Kang; Liu, Xu Feng; Ge, Mo Lin) Boson realization of nongeneric $\mathrm{sl}_q(2)$-R matrices for the Yang-Baxter equation. **93a:81084**
— *see also* **Ge, Mo Lin; et al., 93b:17042; 93c:17025; 93d:17020** *and* **93k:81096**
Tracy, Craig A. Asymptotics of a τ-function arising in the two-dimensional Ising model. **93c:82014**
Truong, T. T. *see* **Bariev, R. Z.; et al., 93b:82011**
Turaev, V. G. State sum models in low-dimensional topology. **93g:57015**
— Shadow links and face models of statistical mechanics. **93e:57015**
Turban, L. *see* **Bariev, R. Z.; et al., 93b:82011**
Ueno, Kimio *see* **Shibukawa, Youichi, 93m:81066**
Uglov, D. B. *see* **Ivanov, I. T., 93j:81045**
de Vega, H. J. Yang-Baxter algebras, integrable theories and quantum groups. **93i:17023**
Vollhardt, D. *see* **Janiš, Vladimír; et al., 93h:82007**
Wadati, Miki (*with* Deguchi, Tetsuo; Akutsu, Yasuhiro) Yang-Baxter relation, exactly solvable models and link polynomials. (English summary) **93e:57016**
Wang, Lu Yu *see* **Ge, Mo Lin; et al., 93b:20070**
Werner, R. F. *see* **Fannes, M.; et al., 93i:82006**
Wilczek, Frank *see* **Greiter, Martin, 93g:81213**
Wu, F. Y. Jones polynomial as a Potts model partition function. **93a:57016**
Xiong, Zhuang *see* **Guan, Xi Wen; et al., 93h:17029**
Xue, Kang *see* **Sun, Chang Pu; et al., 93a:81084; Ge, Mo Lin; et al., 93b:20070; 93d:17020; Cheng, Yi[1]; et al., 93d:57012** *and* **Ge, Mo Lin; et al., 93k:81096**
Zabrodin, A. V. Integrable models of field theory and scattering on quantum hyperboloids. **93d:82025**
Zamolodchikov, Alekseĭ B. From tricritical Ising to critical Ising by thermodynamic Bethe ansatz. **93b:81182**
Zha, Chao Zheng (*with* Zhang, Jun) Yang-Baxterization of braid group representation corresponding to the fundamental representation of G_2. (Chinese summary) **93b:20072**
Zhang, Jun *see* **Zha, Chao Zheng, 93b:20072**
Zhang, R. B. Graded representations of the Temperley-Lieb algebra, quantum supergroups, and the Jones polynomial. **93b:17059**
Zhdanovich, D. V. *see* **Demidov, E. E.; et al., 93g:17022**
Zhou, Huan Qiang *see* **Guan, Xi Wen; et al., 93h:17029**
Zhou, Yu Kui A quantum relativistic integrable model as the continuous limit of the six-vertex model. **93b:81201**
Zuber, J.-B. Graphs, algebras, conformal field theories and integrable lattice models. **93c:81229**

Items listed otherwise than by author

CBMS Regional Conference Series in Mathematics *see* **Jones, Vaughan F. R., 93b:57008**

82B24 Interface problems

Bassler, Kevin E. (*with* Sasaki, Kazuo; Griffiths, Robert B.) Interface interactions in modulated phases, and upsilon points. **93c:82023**
Bovier, Anton (*with* Külske, Christof) Stability of hierarchical interfaces in a random field model. (English summary) **93h:82022**
Cimmelli, Vito Antonio Structured adsorbing interface in phase transition of classical fluid mixtures. (English summary) **93j:82029**
De Coninck, Joël (*with* Kotecký, Roman; Laanait, Lahoussine; Ruiz, Jean) SOS approximants for Potts crystal shapes. (English summary) **93m:82011**
Derrida, B. (*with* Hakim, V.; Vannimenus, J.) Effect of disorder on two-dimensional wetting. **93e:82022**
(Family, Fereydoon) *see* **Dynamics of fractal surfaces, 93i:82039**
(Godrèche, C.) *see* **Solids far from equilibrium, 93g:82042**
Griffiths, Robert B. *see* **Bassler, Kevin E.; et al., 93c:82023**
Hakim, V. *see* **Derrida, B.; et al., 93e:82022**
Kotecký, Roman *see* **De Coninck, Joël; et al., 93m:82011**
Külske, Christof *see* **Bovier, Anton, 93h:82022**
Laanait, Lahoussine *see* **De Coninck, Joël; et al., 93m:82011**
Parry, A. O. A universal parametrization of finite-size effects for interfaces in two dimensions, conformal mappings and local scale invariance. **93a:82020**
Requardt, M. (*with* Wagner, H. J.) Does the three-dimensional capillary wave model lead to a universally valid and pathology-free description of the liquid-vapor interface near $g = 0$? A controversial point of view. **93i:82037**
Ruiz, Jean *see* **De Coninck, Joël; et al., 93m:82011**
Sasaki, Kazuo *see* **Bassler, Kevin E.; et al., 93c:82023**
Tomita, Hiroyuki Statistics and geometry of random interface systems. **93a:82021**
Vannimenus, J. *see* **Derrida, B.; et al., 93e:82022**
(Vicsek, Tamás) *see* **Dynamics of fractal surfaces, 93i:82039**
Wagner, H. J. *see* **Requardt, M., 93i:82037**
Weeks, John D. Comment on the capillary wave model in three dimensions. **93i:82038**

Items listed otherwise than by author

Dynamics of fractal surfaces ★ Dynamics of fractal surfaces. **93i:82039**
Solids far from equilibrium ★ Solids far from equilibrium. **93g:82042**

Items with secondary classifications in 82B24

Dunlop, François (*with* Magnen, Jacques; Rivasseau, Vincent; Roche, Philippe) Pinning of an interface by a weak potential. **93a:82007**
Forrester, P. J. Solvable model of the pairing transition in a two-dimensional one-component plasma/metal interface model. (English summary) **93i:82073**
— Surface tension for the two-component plasma at $\Gamma = 2$ near an interface. **93j:82014**
Kleban, P. (*with* Vassileva, I.) Domain boundary energies in finite regions at 2D criticality via conformal field theory. (English summary) **93i:81237**
Lookman, Turab *see* **Zhao, Dongming, 93a:82029**
Magnen, Jacques *see* **Dunlop, François; et al., 93a:82007**
Marder, M. (*with* Papanicolaou, N.; Psaltakis, G. C.) Phase separation in a t-J model. (*see* **93b:00013**)
Papanicolaou, N. *see* **Marder, M.; et al., (93b:00013)**
Pfister, Charles-Edouard Large deviations and phase separation in the two-dimensional Ising model. **93c:82011**
Psaltakis, G. C. *see* **Marder, M.; et al., (93b:00013)**
Rivasseau, Vincent *see* **Dunlop, François; et al., 93a:82007**
Roche, Philippe *see* **Dunlop, François; et al., 93a:82007**
Vassileva, I. *see* **Kleban, P., 93i:81237**
Zhao, Dongming (*with* Lookman, Turab) Critical exponents for c-animals with nearest-neighbour interaction. **93a:82029**

82B26 Phase transitions (general)

Barbulyak, V. S. Chess estimates and critical temperature in quantum lattice systems. (Russian. Ukrainian summary) **93f:82024**
Bleher, Pavel M. (*with* Major, Péter) Renormalization of Dyson's vector-valued hierarchical model at low temperatures. **93k:82024**
Borgs, Christian (*with* Imbrie, John Z.) Finite-size scaling and surface tension from effective one-dimensional systems. **93i:82040**
— (*with* Imbrie, John Z.) Crossover finite-size scaling at first-order transitions. (English summary) **93k:82025**
Comets, Francis On consistency of a class of estimators for exponential families of Markov random fields on the lattice. **93c:82024**
Fröhlich, Jürg (*with* Zegarliński, Bogusław) The phase transition in the discrete Gaussian chain with $1/r^2$ interaction energy. **93g:82043**
Grynberg, Marcelo D. Continuously infinite commensurate-incommensurate phase transition of a two-dimensional competing Ising model. (English summary)
Hilfer, R. Scaling theory and the classification of phase transitions. **93g:82044**
Imbrie, John Z. *see* **Borgs, Christian, 93i:82040** *and* **93k:82025**
Johansson, Kurt Condensation of a one-dimensional lattice gas. **93e:82023**
Kunz, Hervé (*with* Zumbach, G.) Phase transition in a nematic n-vector model: the large-n limit. (English summary) **93m:82012**
Lin, Zhi Fang (*with* Tao, Rui Bao) Phase transition of quantum Ising spin models on g-letter generalized Thue-Morse aperiodic chains. **93a:82022**
Major, Péter *see* **Bleher, Pavel M., 93k:82024**

Marder, M. (*with* Papanicolaou, N.; Psaltakis, G. C.) Phase separation in a t-J model. (*see* **93b:00013**)
Martinelli, Fabio A dynamical proof of the phase transition for the Ising model. (English summary) (*see* **93g:81002**)
Monroe, James L. Phase diagrams of Ising models on Husimi trees. II. Pair and multisite interaction systems. **93f:82025**
Ovrut, Burt A. (*with* Thomas, Steven) Theory of vortices and monopoles on a sphere. **93a:82023**
Papanicolaou, N. *see* **Marder, M.; et al.,** (**93b:00013**)
Pershin, Vl. K. The butterfly catastrophe and mesophase stability in an external field. **93m:82013**
Privman, Vladimir Finite-size scaling: new results. **93d:82040**
Psaltakis, G. C. *see* **Marder, M.; et al.,** (**93b:00013**)
Sólyom, J. Phase transitions in quantum spin chains. **93c:82025**
Tao, Rui Bao *see* **Lin, Zhi Fang, 93a:82022**
Thomas, Steven *see* **Ovrut, Burt A., 93a:82023**
Zegarliński, Bogusław *see* **Fröhlich, Jürg, 93g:82043**
Zumbach, G. *see* **Kunz, Hervé, 93m:82012**

Items with secondary classifications in 82B26

Allen, Scott (*with* Pathria, R. K.) Analytical evaluation of a class of phase-modulated lattice sums. (English summary) **93m:11142**
Baker, George A., Jr. *see* **Wang, Xidi, 93i:82047**
Barbulyak, V. S. (*with* Kondrat'ev, Yu. G.) A quasiclassical limit for the Schrödinger operator, and phase transitions in quantum statistical physics. (Russian) **93g:82009**
Bassler, Kevin E. (*with* Sasaki, Kazuo; Griffiths, Robert B.) Interface interactions in modulated phases, and upsilon points. **93c:82023**
Bolley, C. Modélisation du champ de retard à la condensation d'un supraconducteur par un problème de bifurcation. (English summary) [Modeling the delay field of condensation of a superconductor via a bifurcation problem] **93a:82066**
Brak, R. (*with* Guttmann, A. J.; Whittington, S. G.) On the behaviour of collapsing linear and branched polymers. **93a:82070**
Burkhardt, T. W. (*with* Choi, Je-Young) Correlations of the energy density and conformal invariance in the the 2D Ising model with a defect line. **93h:82013**
Chayes, J. T. (*with* Chayes, L.; Grannan, E.; Swindle, G.) Phase transitions in Mandelbrot's percolation process in three dimensions. **93a:60156**
Chayes, L. *see* **Chayes, J. T.; et al., 93a:60156**
Che, Hao *see* **Lin, D. L.; et al., 93e:82013**
Choi, Je-Young *see* **Burkhardt, T. W., 93h:82013**
Cimmelli, Vito Antonio Structured adsorbing interface in phase transition of classical fluid mixtures. (English summary) **93j:82029**
Comets, Francis (*with* Gidas, Basilis) Asymptotics of maximum likelihood estimators for the Curie-Weiss model. **93c:62038**
Copeland, E. (*with* Haws, D.; Holbraad, S.; Rivers, R. J.) The statistical mechanics of interacting strings. **93d:82008**
Derrida, B. The zeroes of the partition function of the random energy model. **93b:82002**
van Enter, Aernout C. D. (*with* Hof, A.; Miękisz, Jacek) Overlap distributions for deterministic systems with many pure states. (English summary) **93i:82045**
Ermilov, A. N. (*with* Kurbatov, A. M.; Kabanovich, V. I.; Racotoaridzauna, S.) Almeida-Thouless inequality for the quenched Ising models with arbitrary distributions of coupling constants. **93a:82009**
Gaite, José Symmetry in catastrophe theory, phase diagrams and two-dimensional conformal field theories. **93j:58015**
Gidas, Basilis *see* **Comets, Francis, 93c:62038**
Gonchar, N. S. (*with* Kozyrskiĭ, V. G.) One-parameter group of symmetries of incommensurate structures of the anisotropic Ising model. (Ukrainian. English, Russian and Ukrainian summaries) **93g:82016**
— (*with* Kozyrskiĭ, V. G.) Hidden symmetry and small branchings in anisotropic lattice models. (Ukrainian. Russian summary) **93a:82012**
Gorunovich, V. V. Bose-Einstein condensation in a model of a lattice gas. (Russian. Russian summary) **93g:82017**
Grannan, E. *see* **Chayes, J. T.; et al., 93a:60156**
Griewank, A. *see* **Rabier, P. J., 93h:58019**
Griffiths, Robert B. *see* **Bassler, Kevin E.; et al., 93c:82023**
Guttmann, A. J. *see* **Brak, R.; et al., 93a:82070**
Haws, D. *see* **Copeland, E.; et al., 93d:82008**
Hof, A. *see* **van Enter, Aernout C. D.; et al., 93i:82045**
Holbraad, S. *see* **Copeland, E.; et al., 93d:82008**
Kabanovich, V. I. *see* **Ermilov, A. N.; et al., 93a:82009**
Kawashima, Naoki *see* **Kinosita, Yosinori; et al., 93j:82037**
Kennedy, Thomas Garrett (*with* Tasaki, Hal) Hidden symmetry breaking and the Haldane phase in $S = 1$ quantum spin chains. (English summary) **93h:82008**
Kiessling, Michael K.-H. Finite-volume statistical mechanics of two-component Coulomb-like systems and the principle of macroscopic equivalence. **93g:82007**
Kinosita, Yosinori (*with* Kawashima, Naoki; Suzuki, Masuo) Coherent-anomaly analysis of series expansions and its application to the Ising model. (English summary) **93j:82037**
Kolesík, M. Correlation functions of the two-state vertex model on the Cayley tree. (English summary) **93j:82009**
Kondrat'ev, Yu. G. *see* **Barbulyak, V. S., 93g:82009**
Kozyrskiĭ, V. G. *see* **Gonchar, N. S., 93a:82012** *and* **93g:82016**
Kurbatov, A. M. *see* **Ermilov, A. N.; et al., 93a:82009**
Lin, D. L. (*with* Che, Hao; Xia, Yu) Critical temperature of $(d + 1)$-dimensional Ising films. (English summary) **93e:82013**
Maes, Christian (*with* Vande Velde, Koen) Defining relative energies for the projected Ising measure. (English summary) **93m:82002**
Marchetti, Domingos H. U. Smooth phase in the one-dimensional discrete Gaussian model with $1/(i - j)^2$ interaction at inverse temperature $\beta > 1$. **93c:82010**
Miękisz, Jacek *see* **van Enter, Aernout C. D.; et al., 93i:82045**
Neves, U. P. C. *see* **Onody, R. N., 93m:82017**
Nienhuis, B. *see* **Warnaar, S. O.; et al., 93d:82039**
Onody, R. N. (*with* Neves, U. P. C.) Series expansion of the directed percolation probability. (English summary) **93m:82017**
Parisi, J. (*with* Stoop, R.) A possible scheme for classifying phase transitions in the generalized entropy spectrum of a nonhyperbolic system. (English summary) **93k:58156**
Pathria, R. K. *see* **Allen, Scott, 93m:11142**
Popov, V. N. *see* **Vozyakov, V. I., 93a:82059**
Prellberg, Thomas (*with* Slawny, Joseph) Maps of intervals with indifferent fixed points: thermodynamic formalism and phase transitions. **93g:58085**
Rabier, P. J. (*with* Griewank, A.) Generic aspects of convexification with applications to thermodynamic equilibrium. **93h:58019**
Racotoaridzauna, S. *see* **Ermilov, A. N.; et al., 93a:82009**
Requardt, M. (*with* Wagner, H. J.) Does the three-dimensional capillary wave model lead to a universally valid and pathology-free description of the liquid-vapor interface near $g = 0$? A controversial point of view. **93i:82037**
Rivers, R. J. *see* **Copeland, E.; et al., 93d:82008**
Sasaki, Kazuo *see* **Bassler, Kevin E.; et al., 93c:82023**
Schellnhuber, H. J. (*with* Seyler, A.) Fractional differentiation of devil's staircases. (English summary) **93j:26006**
Seaton, K. A. *see* **Warnaar, S. O.; et al., 93d:82039**
Seyler, A. *see* **Schellnhuber, H. J., 93j:26006**
Shigematsu, H. Phase transitions in thermodynamics of a local Lyapunov exponent for fully-developed chaotic systems. **93c:58148**
Slawny, Joseph *see* **Prellberg, Thomas, 93g:58085**
Stoop, R. *see* **Parisi, J., 93k:58156**
Suzuki, Masuo *see* **Kinosita, Yosinori; et al., 93j:82037**
Swindle, G. *see* **Chayes, J. T.; et al., 93a:60156**
Tasaki, Hal *see* **Kennedy, Thomas Garrett, 93h:82008**
Thomas, Steven A modified Kosterlitz-Thouless phase transition in two-dimensional vortex systems. (English summary) **93j:82076**
Vande Velde, Koen *see* **Maes, Christian, 93m:82002**
Vozyakov, V. I. (*with* Popov, V. N.) The functional approach to the theory of quantum crystallization. (Russian) **93a:82059**
Wagner, H. J. *see* **Requardt, M., 93i:82037**
Wang, Xidi (*with* Baker, George A., Jr.) Monte Carlo calculations of the conformal charge. (English summary) **93i:82047**
Warnaar, S. O. (*with* Nienhuis, B.; Seaton, K. A.) New construction of solvable lattice models including an Ising model in a field. **93d:82039**
Whittington, S. G. *see* **Brak, R.; et al., 93a:82070**
Xia, Yu *see* **Lin, D. L.; et al., 93e:82013**
Yan, Jia Ren *see* **You, Jian Qiang; et al., 93i:82024**
You, Jian Qiang (*with* Yan, Jia Ren; Zhong, Jian Xin) Phase transition in aperiodic quantum Ising models. (English summary) **93i:82024**
Zhong, Jian Xin *see* **You, Jian Qiang; et al., 93i:82024**

82B27 Critical phenomena

Baker, George A., Jr. (*with* Singh, Rajiv R. P.) Bulk value of the central charge in conformally invariant critical phenomena. **93d:82041**
Duplantier, Bertrand Fractal critical phenomena in two dimensions and conformal invariance. (*see* **93k:00018**)
Sakhakyan, D. B. On the behavior of statistical sum of a model with Yang-Lee singularity near critical point. **93i:82041**
Singh, Rajiv R. P. *see* **Baker, George A., Jr., 93d:82041**
Whittle, Peter Random fields on random graphs. **93g:82045**

Items with secondary classifications in 82B27

Brézin, Édouard Introduction to critical phenomena and to the renormalization group. **93e:82024**
Burkhardt, T. W. (*with* Choi, Je-Young) Correlations of the energy density and conformal invariance in the the 2D Ising model with a defect line. **93h:82013**
Caracciolo, Sergio (*with* Pelissetto, Andrea; Sokal, Alan D.) Join-and-cut algorithm for self-avoiding walks with variable length and free endpoints. **93f:82031**
Choi, Je-Young *see* **Burkhardt, T. W., 93h:82013**
Ermilov, A. N. (*with* Kurbatov, A. M.; Kabanovich, V. I.; Racotoaridzauna, S.) Almeida-Thouless inequality for the quenched Ising models with arbitrary distributions of coupling constants. **93a:82009**
Frankel, Norman E. *see* **Taucher, T., 93k:82035**
Hara, Takashi (*with* Slade, Gordon) Self-avoiding walk in five or more dimensions. I. The critical behaviour. **93j:82032**
Kabanovich, V. I. *see* **Ermilov, A. N.; et al., 93a:82009**
Kashaev, R. M. (*with* Mangazeev, V. V.; Nakanishi, Tomoki) Yang-Baxter equation for the sl(n) chiral Potts model. **93d:82034**
Kostov, Ivan K. (*with* Staudacher, Matthias) Multicritical phases of the O(n) model on a random lattice. (English summary) **93k:81179**
Kurbatov, A. M. *see* **Ermilov, A. N.; et al., 93a:82009**
Luan, Chang Fu The main [mean] field approximation to the finite nearest particle system. (English summary) **93i:82027**
Mangazeev, V. V. *see* **Kashaev, R. M.; et al., 93d:82034**
Nakanishi, Tomoki *see* **Kashaev, R. M.; et al., 93d:82034**
Pelissetto, Andrea *see* **Caracciolo, Sergio; et al., 93f:82031**
(Pietronero, Luciano) *see* **Fractals' physical origin and properties, 93k:00018**
Racotoaridzauna, S. *see* **Ermilov, A. N.; et al., 93a:82009**
Saleur, H. Geometrical lattice models for $N = 2$ supersymmetric theories in two dimensions. (English summary) **93i:82036**
Slade, Gordon *see* **Hara, Takashi, 93j:82032**
Sokal, Alan D. *see* **Caracciolo, Sergio; et al., 93f:82031**
Staudacher, Matthias *see* **Kostov, Ivan K., 93k:81179**
Taucher, T. (*with* Frankel, Norman E.) Annealed n-vector p-spin model. (English summary) **93k:82035**

Thomas, Steven A modified Kosterlitz-Thouless phase transition in two-dimensional vortex systems. (English summary) **93j:82076**
Wang, Xue Hua (*with* Yan, Jia Ren; You, Jian Qiang; Yan, Xiao Hong) The Ising model for generalized Fibonacci quasiperiodic chains. (Chinese. English and Chinese summaries) **93e:82015**
Yan, Jia Ren *see* **Wang, Xue Hua; et al., 93e:82015**
Yan, Xiao Hong *see* **Wang, Xue Hua; et al., 93e:82015**
You, Jian Qiang *see* **Wang, Xue Hua; et al., 93e:82015**

Items listed otherwise than by author

Erice ★ Fractals' physical origin and properties. **93k:00018**
Fractals' physical origin and properties ★ Fractals' physical origin and properties. **93k:00018**
Seminar:
Fractals ★ Fractals' physical origin and properties. **93k:00018**

82B28 Renormalization group methods [see also 81T17]

Bandyopadhyay, Pratul *see* **Goswami, Gautam, 93k:82026**
Benfatto, G. The one-dimensional spinless Fermi gas and the Luttinger model. (English summary) **93j:82030**
— (*with* Renn, J.) Nontrivial fixed points and screening in the hierarchical two-dimensional Coulomb gas. **93c:82026**
Brézin, Édouard Introduction to critical phenomena and to the renormalization group. **93e:82024**
Chang, Tom (*with* Vvedensky, D. D.; Nicoll, J. F.) Differential renormalization-group generators for static and dynamic critical phenomena. (English summary) **93g:82046**
Dimock, J. (*with* Hurd, T. R.) A renormalization group analysis of correlation functions for the dipole gas. **93g:82047**
Di Stasio, M. (*with* Seno, F.; Stella, A. L.) Vesicles on a hierarchical lattice: an exact renormalization group approach. **93d:82042**
van Enter, Aernout C. D. (*with* Fernández, Roberto; Sokal, Alan D.) Regularity properties and pathologies of position-space renormalization-group transformations. **93d:82043**
Fernández, Roberto *see* **van Enter, Aernout C. D.; et al., 93d:82043**
Filippov, A. È. On the solution of the exact (local) equation of the renormalization group. (Russian. English and Russian summaries) **93m:82014**
Fogedby, Hans C. On the phase space approach to complexity. (English summary) **93i:82042**
Goswami, Gautam (*with* Bandyopadhyay, Pratul) Spin system, gauge theory, and renormalization group equation. (English summary) **93k:82026**
Hilhorst, H. J. *see* **Nifle, M., 93c:82027**
Hurd, T. R. *see* **Dimock, J., 93g:82047**
Liu, Tian Shi (*with* Zhao, Bao Hua) Density of states of generalized Fibonacci chains. (Chinese. English and Chinese summaries)
Nicoll, J. F. *see* **Chang, Tom; et al., 93g:82046**
Nifle, M. (*with* Hilhorst, H. J.) New critical-point exponent and new scaling laws for short-range Ising spin glasses. **93c:82027**
Renn, J. *see* **Benfatto, G., 93c:82026**
Seno, F. *see* **Di Stasio, M.; et al., 93d:82042**
Sokal, Alan D. *see* **van Enter, Aernout C. D.; et al., 93d:82043**
Stella, A. L. *see* **Di Stasio, M.; et al., 93d:82042**
Vlad, Marcel Ovidiu A renormalization approach to a class of exponential random processes with application to the bronchial tree. **93f:82026**
Vvedensky, D. D. *see* **Chang, Tom; et al., 93g:82046**
Yukalov, V. I. (*with* Yukalova, E. P.) Self-similar renormalization as equation of motion. (English summary) **93m:82015**
Yukalova, E. P. *see* **Yukalov, V. I., 93m:82015**
Zhao, Bao Hua *see* **Liu, Tian Shi**

Items with secondary classifications in 82B28

Bellissard, Jean Renormalization group analysis and quasicrystals. **93k:81045**
Bhattacharjee, Somendra M. Directed walks and vertex models: renormalization, multicriticality and beyond. (English summary) **93f:82027**
Bleher, Pavel M. (*with* Major, Péter) Renormalization of Dyson's vector-valued hierarchical model at low temperatures. **93k:82024**
Bovier, Anton (*with* Külske, Christof) Stability of hierarchical interfaces in a random field model. (English summary) **93h:82022**
Drunk, W. (*with* Fuchs, D.; Zirnbauer, Martin R.) Migdal-Kadanoff renormalization of a nonlinear supervector model with hyperbolic symmetry. **93g:82027**
Duplantier, Bertrand *see* **Schäfer, Lothar; et al., 93a:82072**
Elezović-Hadžić, Sunčica (*with* Milošević, Sava) Critical exponent ν of the self-avoiding walks on plane X and checkerboard fractal families. (English summary) **93g:82050**
von Ferber, Christian *see* **Schäfer, Lothar; et al., 93a:82072**
Fischer, K. H. (*with* Hertz, J. A.) ★ Spin glasses. **93m:82019**
Fuchs, D. *see* **Drunk, W.; et al., 93g:82027**
Hertz, J. A. *see* **Fischer, K. H., 93m:82019**
Hu, Chin Kun Histogram Monte Carlo renormalization group method for phase transition models without critical slowing down. (English summary) **93m:82020**
Kozitskii, Yu. V. Hierarchical model of a vector ferromagnet. Self-similar block-spin distributions and the Lee-Yang theorem. **93b:82004**
Külske, Christof *see* **Bovier, Anton, 93h:82022**
Kupiainen, Antti Renormalization group and random systems. **93k:82034**
Langlands, Robert P. (*with* Pichet, C.; Pouliot, Ph.; Saint-Aubin, Yvan) On the universality of crossing probabilities in two-dimensional percolation. **93e:82028**
Lehr, Ulrike *see* **Schäfer, Lothar; et al., 93a:82072**
Livi, R. (*with* Politi, Antonio; Ruffo, Stefano) Repeller structure in a hierarchical model. I. Topological properties. **93a:58115**
Major, Péter *see* **Bleher, Pavel M., 93k:82024**
Milošević, Sava *see* **Elezović-Hadžić, Sunčica, 93g:82050**
Munton, David Quenched disorder in a hierarchical Coulomb gas model. (English summary) **93j:82035**
Pichet, C. *see* **Langlands, Robert P.; et al., 93e:82028**
Politi, Antonio *see* **Livi, R.; et al., 93a:58115**
Pouliot, Ph. *see* **Langlands, Robert P.; et al., 93e:82028**
Ruffo, Stefano *see* **Livi, R.; et al., 93a:58115**
Saint-Aubin, Yvan *see* **Langlands, Robert P.; et al., 93e:82028**
Schäfer, Lothar (*with* von Ferber, Christian; Lehr, Ulrike; Duplantier, Bertrand) Renormalization of polymer networks and stars. **93a:82072**
Schulz, Michael Renormalization group approach for the site-bond percolation in structured stochastic environments. **93c:82030**
Yan, Jia Ren *see* **Yan, Xiao Hong; et al., 93e:82016**
Yan, Xiao Hong (*with* Yan, Jia Ren; You, Jian Qiang; Zhong, Jian Xin) Applications of the renormalization group method to a class of generalized Fibonacci lattices. (Chinese. English and Chinese summaries) **93e:82016**
You, Jian Qiang *see* **Yan, Xiao Hong; et al., 93e:82016**
Zhong, Jian Xin *see* **Yan, Xiao Hong; et al., 93e:82016**
Zirnbauer, Martin R. *see* **Drunk, W.; et al., 93g:82027**

82B30 Statistical thermodynamics [see also 80–XX]

Dayan, Ido (*with* Gitterman, Moshe; Weiss, George H.) On the entropy of a class of constrained random walks. **93g:82048**
Florio, A. *see* **Lavenda, B. H., 93g:82049** *and* **93h:82023**
Gitterman, Moshe *see* **Dayan, Ido; et al., 93g:82048**
Lavenda, B. H. (*with* Florio, A.) Derivation of a new class of distributions for the microcanonical ensemble. (English summary) **93g:82049**
— (*with* Florio, A.) Thermodynamics of rare events. (English summary) **93h:82023**
Weiss, George H. *see* **Dayan, Ido; et al., 93g:82048**

Items with secondary classifications in 82B30

Dorlas, T. C. (*with* Lewis, John Trevor; Pulé, J. V.) Condensation in a variational problem on the space of measures. **93g:49033**
Kiessling, Michael K.-H. Finite-volume statistical mechanics of two-component Coulomb-like systems and the principle of macroscopic equivalence. **93g:82007**
Lewis, John Trevor *see* **Dorlas, T. C.; et al., 93g:49033**
Pulé, J. V. *see* **Dorlas, T. C.; et al., 93g:49033**

82B31 Stochastic methods

Vlad, Marcel Ovidiu Linear versus nonlinear amplification. A generalization of the Novikov-Montroll-Shlesinger-West cascade. **93b:82026**

Items with secondary classifications in 82B31

Fedotov, S. A. *see* **Popov, V. N., 93a:82014**
Gielerak, Roman Vacuum energy densities in the $\mathcal{J}(\varphi)_2$ Euclidean field theory. (English summary) **93m:81096**
Ikegami, Kenji (*with* Kimura, Tadahiko; Mochizuki, Riuji) Treatment of constraints in the stochastic quantization method and covariantized Langevin equation. (English summary) **93m:81075**
Inoue, Akihiko The Alder-Wainwright effect for stationary processes with reflection positivity. II. **93b:60074**
Kapitonov, V. S. (*with* Popov, V. N.) The functional approach to the theory of Coulomb crystals. (Russian) **93a:82057**
Kimura, Tadahiko *see* **Ikegami, Kenji; et al., 93m:81075**
Mochizuki, Riuji *see* **Ikegami, Kenji; et al., 93m:81075**
Popov, V. N. (*with* Fedotov, S. A.) The diagram technique for ferromagnetic systems with spin 1/2. (Russian) **93a:82014**
— *see also* **Kapitonov, V. S., 93a:82057**
Stroock, Daniel W. (*with* Zegarliński, Bogusław) The logarithmic Sobolev inequality for continuous spin systems on a lattice. **93f:82015**
Zegarliński, Bogusław *see* **Stroock, Daniel W., 93f:82015**

82B35 Irreversible thermodynamics, including Onsager-Machlup theory [see also 92E20]

Items with secondary classifications in 82B35

Belotskii, E. D. (*with* Migranov, N. G.; Tomchuk, P. M.) Applications of the Lie algebras to derivation of the generalized thermodynamic potentials. (*see* **93b:00013**)
Migranov, N. G. *see* **Belotskii, E. D.; et al., (93b:00013)**
Tomchuk, P. M. *see* **Belotskii, E. D.; et al., (93b:00013)**

82B40 Kinetic theory of gases

Cvitanović, Predrag (*with* Gaspard, Pierre; Schreiber, Thomas) Investigation of the Lorentz gas in terms of periodic orbits. **93h:82024**
De Masi, Anna (*with* Esposito, Raffaele; Presutti, Errico) Kinetic limits of the HPP cellular automaton. **93a:82024**
Esposito, Raffaele *see* **De Masi, Anna; et al., 93a:82024**
Gaspard, Pierre *see* **Cvitanović, Predrag; et al., 93h:82024**
Płatkowski, Tadeusz (*with* Spiga, Giampiero) Exact solutions of stationary problems in discrete extended kinetic theory. **93b:82027**
Presutti, Errico *see* **De Masi, Anna; et al., 93a:82024**
Pulvirenti, Mario A stochastic particle system modelling the Broadwell equation. **93b:82028**
Schreiber, Thomas *see* **Cvitanović, Predrag; et al., 93h:82024**
Spiga, Giampiero *see* **Płatkowski, Tadeusz, 93b:82027**

Items with secondary classifications in 82B40

Azmy, Y. Y. (*with* Boffi, V. C.; Mandrekas, J.; Protopopescu, V.) Lie group analysis for a multispecies, spatially inhomogeneous, mutually interacting gas mixture. **93c:35003**

Babovsky, Hans (*with* Padula, Mariarosaria) A new contribution to nonlinear stability of a discrete velocity model. **93b:82060**

Boffi, V. C. *see* **Azmy, Y. Y.; et al., 93c:35003**

Caglioti, E. (*with* Lions, Pierre-Louis; Marchioro, Carlo; Pulvirenti, Mario) A special class of stationary flows for two-dimensional Euler equations: a statistical mechanics description. **93i:82060**

Lions, Pierre-Louis *see* **Caglioti, E.; et al., 93i:82060**

Mandrekas, J. *see* **Azmy, Y. Y.; et al., 93c:35003**

Marchioro, Carlo *see* **Caglioti, E.; et al., 93i:82060**

Monaco, Roberto (*with* Preziosi, Luigi) ★ Fluid dynamic applications of the discrete Boltzmann equation. **93f:76084**

Oggioni, S. *see* **Spiga, Giampiero, 93b:76076**

Padula, Mariarosaria *see* **Babovsky, Hans, 93b:82060**

Preziosi, Luigi Thermal creep problems by the discrete Boltzmann equation. **93g:82085**

— *see also* **Monaco, Roberto, 93f:76084**

Protopopescu, V. *see* **Azmy, Y. Y.; et al., 93c:35003**

Pulvirenti, Mario *see* **Caglioti, E.; et al., 93i:82060**

Spiga, Giampiero (*with* Oggioni, S.) On shock wave solutions in extended discrete kinetic theory. **93b:76076**

82B41 Random walks, random surfaces, lattice animals, etc. [see also 60J15, 82C41]

Balakrishnan, V. *see* **Revathi, S.; et al., 93g:82052**

Bhattacharjee, Somendra M. (*with* Rao, S. Suresh) Randomness in vertex models and directed walks. **93d:82044**

— Directed walks and vertex models: renormalization, multicriticality and beyond. (English summary) **93f:82027**

Brak, R. (*with* Guttmann, A. J.; Whittington, S. G.) A collapse transition in a directed walk model. **93a:82025**

Bricmont, J. (*with* Kupiainen, Antti) Random walks in asymmetric random environments. **93d:82045**

Cassi, D. (*with* Regina, S.) Random walks on d-dimensional comb lattices. (English summary)

Comtet, Alain *see* **Desbois, J., 93b:82029**

Desbois, J. (*with* Comtet, Alain) Algebraic areas enclosed by Brownian curves on bounded domains. **93b:82029**

Durhuus, Bergfinnur Critical properties of some discrete random surface models. (*see* **93g:81074**)

Elezović-Hadžić, Sunčica (*with* Milošević, Sava) Critical exponent ν of the self-avoiding walks on plane X and checkerboard fractal families. (English summary) **93g:82050**

Enting, I. G. (*with* Guttmann, A. J.) Self-avoiding rings on the triangular lattice. **93b:82030**

Filk, Thomas Noncommutative random walks. **93d:82046**

Foster, Damien P. (*with* Vanderzande, Carlo; Yeomans, Julia) Zero-temperature properties of randomly self-interacting polymers. (English summary) **93j:82031**

Giacometti, A. (*with* Maritan, A.) Self-avoiding walks with curvature energy on fractals. **93c:82028**

Golowich, Steven (*with* Imbrie, John Z.) A new approach to the long-time behavior of self-avoiding random walks. **93h:82025**

Gudder, Stanley Schrödinger and Dirac quantum random walks. (English summary) **93m:82016**

Guttmann, A. J. *see* **Brak, R.; et al., 93a:82025** *and* **Enting, I. G., 93b:82030**

Hammersley, J. M. Corrigendum: "Self-avoiding walks" [Phys. A **177** (1991), no. 1-3, 51–57; MR 92i:82054]. **93c:82029**

Happel, Robert *see* **Stadler, Peter F., 93h:82026**

Hara, Takashi (*with* Slade, Gordon) Self-avoiding walk in five or more dimensions. I. The critical behaviour. **93j:82032**

— (*with* Slade, Gordon) The lace expansion for self-avoiding walk in five or more dimensions. **93j:82033**

Herrmann, H. J. *see* **Moukarzel, C., 93f:82030**

den Hollander, Frank (*with* Naudts, J.; Scheunders, P.) A long-time tail for random walk in random scenery. **93f:82028**

Imbrie, John Z. *see* **Golowich, Steven, 93h:82025**

Janse van Rensburg, E. J. Surfaces in the hypercubic lattice. **93f:82029**

— On the number of trees in Z^d. **93g:82051**

Jónsson, Thórdur Intrinsic and extrinsic geometry of random surfaces. **93d:82047**

Kupiainen, Antti *see* **Bricmont, J., 93d:82045**

Lĕtchikov, A. V. Random walks on one-dimensional quasicrystals. (Russian. English summary) **93a:82026**

Lin, K'ê Ying Number of almost-convex polygons on the square lattice. **93e:82025**

Lookman, Turab *see* **Zhao, Dongming, 93a:82029** *and* **93i:82043**

Machta, Jonathan The computational complexity of the self-avoiding walk on random lattices. **93e:82026**

Madras, Neal Bounds on the critical exponent of self-avoiding polygons. **93a:82027**

Maritan, A. *see* **Giacometti, A., 93c:82028**

Mehta, M. L. Power series for level spacing functions of random matrix ensembles. **93a:82028**

Milošević, Sava *see* **Elezović-Hadžić, Sunčica, 93g:82050**

Moukarzel, C. (*with* Herrmann, H. J.) A vectorizable random lattice. (English summary) **93f:82030**

Nagao, Taro (*with* Wadati, Miki) Correlation functions of random matrix ensembles related to classical orthogonal polynomials. **93k:82027**

— (*with* Wadati, Miki) Correlation functions of random matrix ensembles related to classical orthogonal polynomials. II. **93k:82028**

— (*with* Wadati, Miki) Correlation functions of random matrix ensembles related to classical orthogonal polynomials. III. (English summary) **93k:82029**

— (*with* Wadati, Miki) Errata: "Correlation functions of random matrix ensembles related to classical orthogonal polynomials" [J. Phys. Soc. Japan **60** (1991), no. 10, 3298–3322; MR 93k:82027]. **93k:82030a**

— (*with* Wadati, Miki) Errata: "Correlation functions of random matrix ensembles related to classical orthogonal polynomials. II" [J. Phys. Soc. Japan **61** (1992), no. 1, 78–88; MR 93k:82028]. **93k:82030b**

Naudts, J. *see* **den Hollander, Frank; et al., 93f:82028**

Rao, S. Suresh *see* **Bhattacharjee, Somendra M., 93d:82044**

Regina, S. *see* **Cassi, D.**

Revathi, S. (*with* Valsakumar, M. C.; Balakrishnan, V.; Weiss, George H.) Size-dependent diffusion coefficient in a myopic random walk on a strip. (English summary) **93g:82052**

Scheunders, P. *see* **den Hollander, Frank; et al., 93f:82028**

Shi, Yong *see* **Yao, Kai Lun; et al., 93k:82031**

Slade, Gordon *see* **Hara, Takashi, 93j:82032** *and* **93j:82033**

Soteros, C. E. Adsorption of uniform lattice animals with specified topology. **93b:82031**

Stadler, Peter F. (*with* Happel, Robert) Correlation structure of the landscape of the graph-bipartitioning problem. **93h:82026**

Sun, Tao (*with* Yang, Zhong Jin) How far can a random walker go? **93e:82027**

Valsakumar, M. C. *see* **Revathi, S.; et al., 93g:82052**

Vanderzande, Carlo *see* **Foster, Damien P.; et al., 93j:82031**

Wadati, Miki *see* **Nagao, Taro, 93k:82027; 93k:82028; 93k:82029; 93k:82030a** *and* **93k:82030b**

Weiss, George H. *see* **Revathi, S.; et al., 93g:82052**

Whittington, S. G. *see* **Brak, R.; et al., 93a:82025**

Wu, Yanan *see* **Zhao, Dongming; et al., 93i:82043**

Yang, Zhong Jin *see* **Sun, Tao, 93e:82027**

Yao, Kai Lun (*with* Zhuang, Guo Ce; Shi, Yong) A study on the critical behavior of Sierpiński carpets. (Chinese. English and Chinese summaries) **93k:82031**

Yeomans, Julia *see* **Foster, Damien P.; et al., 93j:82031**

Zhao, Dongming (*with* Lookman, Turab) Critical exponents for c-animals with nearest-neighbour interaction. **93a:82029**

— (*with* Wu, Yanan; Lookman, Turab) On the critical exponent ν for c-animals. (English summary) **93i:82043**

Zhuang, Guo Ce *see* **Yao, Kai Lun; et al., 93k:82031**

Items with secondary classifications in 82B41

Abraham, D. B. (*with* Newman, Charles M.) Remarks on a random surface. (English summary) **93h:60160**

Brydges, David (*with* Evans, Steven N.; Imbrie, John Z.) Self-avoiding walk on a hierarchical lattice in four dimensions. **93b:60150**

Caracciolo, Sergio (*with* Pelissetto, Andrea; Sokal, Alan D.) Join-and-cut algorithm for self-avoiding walks with variable length and free endpoints. **93f:82031**

Cassi, D. (*with* Pesando, I.) A new supersymmetric model for self-avoiding polymers. **93c:82074**

Delest, M.-P. Polyominoes and animals: some recent results. **93e:05024**

Drouffe, Jean-Michel *see* **Itzykson, Claude, 93k:81003b**

Duplantier, Bertrand Fractal critical phenomena in two dimensions and conformal invariance. (*see* **93k:00018**)

Evans, Steven N. *see* **Brydges, David; et al., 93b:60150**

Eynard, B. (*with* Zinn-Justin, Jean) The O(n) model on a random surface: critical points and large-order behaviour. (English summary) **93k:81201**

Florio, A. *see* **Lavenda, B. H., 93h:82023**

Hara, Takashi (*with* Slade, Gordon) The number and size of branched polymers in high dimensions. **93c:82075**

Hattori, Tetsuya (*with* Kusuoka, Shigeo) The exponent for the mean square displacement of self-avoiding random walk on the Sierpiński gasket. (English summary) **93m:60199**

Imbrie, John Z. *see* **Brydges, David; et al., 93b:60150**

Itzykson, Claude (*with* Drouffe, Jean-Michel) ★ Statistical field theory. Vol. 2. **93k:81003b**

Janse van Rensburg, E. J. (*with* Whittington, S. G.) The BFACF algorithm and knotted polygons. **93g:82058**

— Ergodicity of the BFACF algorithm in three dimensions. **93m:82021**

Kabanovich, V. I. Reciprocal logarithmic time-dependence for a simple one-dimensional random walk. (English summary) **93f:60104**

Kesten, Harry Some caricatures of multiple contact diffusion-limited aggregation and the η-model. **93j:60156**

Kusuoka, Shigeo *see* **Hattori, Tetsuya, 93m:60199**

Lavenda, B. H. (*with* Florio, A.) Thermodynamics of rare events. (English summary) **93h:82023**

Lyons, Russell (*with* Pemantle, Robin) Random walk in a random environment and first-passage percolation on trees. **93c:60103**

— Random walks, capacity and percolation on trees. (English summary) **93k:60175**

Newman, Charles M. *see* **Abraham, D. B., 93h:60160**

Pelissetto, Andrea *see* **Caracciolo, Sergio; et al., 93f:82031**

Pemantle, Robin *see* **Lyons, Russell, 93c:60103**

Pesando, I. *see* **Cassi, D., 93c:82074**

(Pietronero, Luciano) *see* **Fractals' physical origin and properties, 93k:00018**

Slade, Gordon *see* **Hara, Takashi, 93c:82075**

Sokal, Alan D. *see* **Caracciolo, Sergio; et al., 93f:82031**

Vahidi-Asl, Mohammad Q. (*with* Wierman, John C.) A shape result for first-passage percolation on the Voronoi tessellation and Delaunay triangulation. **93e:60199**

(Velo, G.) *see* **Constructive quantum field theory, 93g:81074**

Whittington, S. G. *see* **Janse van Rensburg, E. J., 93g:82058**

Wierman, John C. *see* **Vahidi-Asl, Mohammad Q., 93e:60199**

(Wightman, Arthur S.) *see* **Constructive quantum field theory, 93g:81074**

Zinn-Justin, Jean *see* **Eynard, B., 93k:81201**

Items listed otherwise than by author

Constructive quantum field theory ★ Constructive quantum field theory. II. **93g:81074**

Erice ★ Fractals' physical origin and properties. **93k:00018**

— ★ Constructive quantum field theory. II. **93g:81074**

Fractals' physical origin and properties ★ Fractals' physical origin and properties. **93k:00018**
NATO Advanced Study Institute:
Constructive Quantum Field Theory ★ Constructive quantum field theory. II. **93g:81074**
School:
Mathematical Physics ★ Constructive quantum field theory. II. **93g:81074**
Seminar:
Fractals ★ Fractals' physical origin and properties. **93k:00018**

82B43 Percolation [see also 60K35]

Cammarota, Camillo On the temperature dependence in percolation. (English summary) (*see* **93g:81002**)
Campanino, Massimo Ornstein-Zernike behavior for connectivities in the subcritical regime and the local limit theorem. (English summary) (*see* **93g:81002**)
Gavioli, Andrea Some bounds on the bulk conductivity of a two-phase medium: a comparison between periodic and random structure. (English summary) **93k:82032**
Golden, Kenneth M. Bulk conductivity of the square lattice for complex volume fraction. (English summary) (*see* **93e:60007**)
Langlands, Robert P. (*with* Pichet, C.; Pouliot, Ph.; Saint-Aubin, Yvan) On the universality of crossing probabilities in two-dimensional percolation. **93e:82028**
Lipowski, Adam (*with* Suzuki, Masuo) Convergence of mean-field approximations in site percolation and application of CAM to $d = 1$ further-neighbors percolation problem. (English summary)
Neves, U. P. C. *see* **Onody, R. N., 93m:82017**
Onody, R. N. (*with* Neves, U. P. C.) Series expansion of the directed percolation probability. (English summary) **93m:82017**
Patrasioiu, A. (*with* Seiler, Erhard) Critical behavior in a model of correlated percolation. (English summary) **93h:82027**
Pichet, C. *see* **Langlands, Robert P.; et al., 93e:82028**
Pouliot, Ph. *see* **Langlands, Robert P.; et al., 93e:82028**
Saint-Aubin, Yvan *see* **Langlands, Robert P.; et al., 93e:82028**
Saleur, H. Polymers and percolation in two dimensions and twisted $N = 2$ supersymmetry. (English summary) **93i:82044**
Schulz, Michael Renormalization group approach for the site-bond percolation in structured stochastic environments. **93c:82030**
Seiler, Erhard *see* **Patrasioiu, A., 93h:82027**
Suzuki, Masuo *see* **Lipowski, Adam**
Tong, P. Y. (*with* Yu, Kin Wah) Anomalous crossover behaviours in the two-component deterministic percolation model. (English summary) **93k:82033**
Yu, Kin Wah *see* **Tong, P. Y., 93k:82033**

Items with secondary classifications in 82B43

Aizenman, Michael *see* **Barsky, David J., 93b:60224**
Alexander, Kenneth S. Stability of the Wulff minimum and fluctuations in shape for large finite clusters in two-dimensional percolation. **93e:60191**
Barsky, David J. (*with* Aizenman, Michael) Percolation critical exponents under the triangle condition. **93b:60224**
Chayes, J. T. (*with* Chayes, L.; Grannan, E.; Swindle, G.) Phase transitions in Mandelbrot's percolation process in three dimensions. **93a:60156**
Chayes, L. *see* **Chayes, J. T.; et al., 93a:60156**
Chorin, Alexandre Joel Equilibrium statistics of a vortex filament with applications. **93j:76041**
Duplantier, Bertrand Fractal critical phenomena in two dimensions and conformal invariance. (*see* **93k:00018**)
Evangelou, S. N. A numerical study of sparse random matrices. (English summary) **93j:82034**
Gandolfi, Alberto (*with* Keane, Michael S.; Newman, Charles M.) Uniqueness of the infinite component in a random graph with applications to percolation and spin glasses. **93f:60149**
Golden, Kenneth M. Exponent inequalities for the bulk conductivity of a hierarchical model. **93e:82010**
Grannan, E. *see* **Chayes, J. T.; et al., 93a:60156**
Keane, Michael S. *see* **Gandolfi, Alberto; et al., 93f:60149**
Lyons, Russell Random walks, capacity and percolation on trees. (English summary) **93k:60175**
Newman, Charles M. Ising models and dependent percolation. (English summary) **93j:60158**
— *see also* **Gandolfi, Alberto; et al., 93f:60149**
Ruzmaikin, A. A. *see* **Zel'dovich, Ya. B.; et al., 93b:82001**
Schonmann, Roberto H. On the behavior of some cellular automata related to bootstrap percolation. **93b:60231**
(Shukurov, A. M.) *see* **Zel'dovich, Ya. B.; et al., 93b:82001**
Sokolov, D. D. *see* **Zel'dovich, Ya. B.; et al., 93b:82001**
Swindle, G. *see* **Chayes, J. T.; et al., 93a:60156**
Tomita, Hiroyuki Statistics and geometry of random interface systems. **93a:82021**
Yang, Wei-Shih (*with* Zhang, Yu[1]) A note on differentiability of the cluster density for indcpendent percolation in high dimensions. **93d:60170**
Zel'dovich, Ya. B. (*with* Ruzmaikin, A. A.; Sokolov, D. D.) ★ The almighty chance. **93b:82001**
Zhang, Yu[1] *see* **Yang, Wei-Shih, 93d:60170**

82B44 Disordered systems (random Ising models, random Schrödinger operators, etc.)

Acosta, Victor (*with* Klein, Abel) Analyticity of the density of states in the Anderson model on the Bethe lattice. (English summary) **93m:82018**
Amaro de Matos, J. M. G. *see* **Zagrebnov, V. A.; et al., 93a:82033**
Behn, Ulrich (*with* Lange, Adrian) 1D random field Ising model and nonlinear dynamics. **93c:82031**
Bogachev, L. V. (*with* Molchanov, S. A.; Pastur, L. A.) On the density of states of random band matrices. (Russian) **93b:82032**
Carneiro, C. E. I. (*with* Henriques, V. B.; Tamashiro, M. N.; Salinas, S. R.) Spin-1 Ising ferromagnet in a random crystal field. **93a:82030**
Dotsenko, Vladimir S. *see* **Parisi, Giorgio, 93g:82057**
Edwards, S. F. Some reminiscences of the sixties. **93g:82053**
— Dynamical extensions of the Edwards model. **93g:82054**
— Some new extensions of the Edwards model. **93h:82028**
— Localisation via the Edwards model. **93h:82029**
van Enter, Aernout C. D. (*with* Hof, A.; Miękisz, Jacek) Overlap distributions for deterministic systems with many pure states. (English summary) **93i:82045**
Evangelou, S. N. A numerical study of sparse random matrices. (English summary) **93j:82034**
Feingold, Mario Banded random matrix ensembles. **93b:82033**
Figotin, Alexander The localization properties of a random steady flow on a lattice. **93g:82055**
Fischer, K. H. (*with* Hertz, J. A.) ★ Spin glasses. **93m:82019**
Forrester, P. J. Some statistical properties of the eigenvalues of complex random matrices. (English summary) **93h:82030**
Frankel, Norman E. *see* **Taucher, T., 93k:82035**
Henriques, V. B. *see* **Carneiro, C. E. I.; et al., 93a:82030**
Hertz, J. A. *see* **Fischer, K. H., 93m:82019**
Hof, A. *see* **van Enter, Aernout C. D.; et al., 93i:82045**
Ishibashi, Yoshihiro *see* **Orihara, Hiroshi, 93a:82032**
Khorunzhii, A. M. *see* **Molchanov, S. A.; et al., 93g:82056**
Klein, Abel (*with* Perez, J. Fernando) Localization in the ground state of a disordered array of quantum rotators. **93i:82046**
— *see also* **Acosta, Victor, 93m:82018**
Koshovets, I. A. A unitary analogue of the Anderson model. Pure point spectrum. (Russian. English summary) **93a:82031**
Kotani, Shinichi Random Schrödinger operators. **93d:82048**
Kupiainen, Antti Renormalization group and random systems. **93k:82034**
Lange, Adrian *see* **Behn, Ulrich, 93c:82031**
Macris, Nicolas (*with* Pulé, J. V.) Density of states of random Schrödinger operators with a uniform magnetic field. **93h:82031**
Mainieri, Ronnie Cycle expansion for the Lyapunov exponent of a product of random matrices. **93e:82029**
Miękisz, Jacek *see* **van Enter, Aernout C. D.; et al., 93i:82045**
Molchanov, S. A. (*with* Pastur, L. A.; Khorunzhii, A. M.) Distribution of the eigenvalues of random band matrices in the limit of their infinite order. (Russian. English and Russian summaries) **93g:82056**
— *see also* **Bogachev, L. V.; et al., 93b:82032**
Munton, David Quenched disorder in a hierarchical Coulomb gas model. (English summary) **93j:82035**
Nagao, Taro (*with* Wadati, Miki) An integration method on generalized circular ensembles. (English summary) **93h:82032**
Niu, Qian Quantum coherence of a narrow-band particle interacting with phonons and static disorder. **93b:82034**
Orihara, Hiroshi (*with* Ishibashi, Yoshihiro) Spatial correlation functions in two-dimensional XY system consisting of randomly distributed topological defects. **93a:82032**
Parisi, Giorgio (*with* Dotsenko, Vladimir S.) Random magnetic fields and instantons in replica space. **93g:82057**
Pastur, L. A. *see* **Bogachev, L. V.; et al., 93b:82032** *and* **Molchanov, S. A.; et al., 93g:82056**
Patrick, A. E. *see* **Zagrebnov, V. A.; et al., 93a:82033**
Perez, J. Fernando *see* **Klein, Abel, 93i:82046**
Pulé, J. V. *see* **Macris, Nicolas, 93h:82031**
Salinas, S. R. *see* **Carneiro, C. E. I.; et al., 93a:82030**
Tamashiro, M. N. *see* **Carneiro, C. E. I.; et al., 93a:82030**
Taucher, T. (*with* Frankel, Norman E.) Annealed n-vector p-spin model. (English summary) **93k:82035**
Wadati, Miki *see* **Nagao, Taro, 93h:82032**
Zagrebnov, V. A. (*with* Amaro de Matos, J. M. G.; Patrick, A. E.) Gibbs measures for the Curie-Weiss random field Ising model. **93a:82033**

Items with secondary classifications in 82B44

Bhattacharjee, Somendra M. Directed walks and vertex models: renormalization, multicriticality and beyond. (English summary) **93f:82027**
Bose, Indrani Quantum antiferromagnets with disordered ground states. (English summary) **93j:82004**
Bovier, Anton (*with* Külske, Christof) Stability of hierarchical interfaces in a random field model. (English summary) **93h:82022**
Brax, Ph. On the emergence of asymptotic localization for some random diffusion processes. **93h:82076**
Christiano, P. L. *see* **Moreira, J. V., 93b:82083**
Darling, R. W. R. (*with* Mukherjea, Arunava) Discrete time voter models: a class of stochastic automata. (English summary) **93h:60161**
Edwards, S. F. The glass transition. **93g:82028**
Eyink, Gregory L. (*with* Lebowitz, Joel L.; Spohn, Herbert) Lattice gas models in contact with stochastic reservoirs: local equilibrium and relaxation to the steady state. **93b:82013**
Gandolfi, Alberto (*with* Keane, Michael S.; Newman, Charles M.) Uniqueness of the infinite component in a random graph with applications to percolation and spin glasses. **93f:60149**
Hilhorst, H. J. *see* **Nifle, M., 93c:82027**
den Hollander, Frank (*with* Naudts, J.; Scheunders, P.) A long-time tail for random walk in random scenery. **93f:82028**
Johannesson, Henrik Spin glasses from vertex models. **93e:82011**
Keane, Michael S. *see* **Gandolfi, Alberto; et al., 93f:60149**
Kirsch, Werner Point interactions as solvable models. **93i:81003**

Koshovets, I. A. Properties of the limit distribution of states for a family of unitary operators that is connected with a quantum rotator. (Russian) **93g:47090**
Koukiou, F. Rigorous bounds for the free energy of the short-range Ising spin glass model. **93b:82003**
Külske, Christof *see* **Bovier, Anton, 93h:82022**
Kunz, Hervé (*with* Zumbach, G.) Phase transition in a nematic n-vector model: the large-n limit. (English summary) **93m:82012**
Lebowitz, Joel L. *see* **Eyink, Gregory L.; et al., 93b:82013**
Lětchikov, A. V. Random walks on one-dimensional quasicrystals. (Russian. English summary) **93a:82026**
Matsui, Taku Stochastic Ising model as a C^* dynamical system. (English summary) **93k:82006**
Mézard, Marc (*with* Parisi, Giorgio) A variational approach to directed polymers. (English summary) **93h:82080**
Moreira, J. V. (*with* Christiano, P. L.) The infinite-range Ashkin-Teller spin glass. **93b:82083**
Mukherjea, Arunava *see* **Darling, R. W. R., 93h:60161**
Naudts, J. *see* **den Hollander, Frank; et al., 93f:82028**
Newman, Charles M. *see* **Gandolfi, Alberto; et al., 93f:60149**
Nifle, M. (*with* Hilhorst, H. J.) New critical-point exponent and new scaling laws for short-range Ising spin glasses. **93c:82027**
Ozawa, Shin Spectra of random media. (Japanese) **93m:35135**
Parisi, Giorgio *see* **Mézard, Marc, 93h:82080**
Scheunders, P. *see* **den Hollander, Frank; et al., 93f:82028**
Spohn, Herbert *see* **Eyink, Gregory L.; et al., 93b:82013**
Stroock, Daniel W. (*with* Zegarliński, Bogusław) The equivalence of the logarithmic Sobolev inequality and the Dobrushin-Shlosman mixing condition. **93b:82005**
Zegarliński, Bogusław *see* **Stroock, Daniel W., 93b:82005**
Zumbach, G. *see* **Kunz, Hervé, 93m:82012**

82B80 Numerical methods (Monte Carlo, series resummation, etc.) [see also 65–XX, 81T80]

Baker, George A., Jr. *see* **Wang, Xidi, 93i:82047**
Bradley, R. Mark *see* **Buchalter, B. J., 93h:82033**
Buchalter, B. J. (*with* Bradley, R. Mark) Orientational order in random packings of ellipses. (English summary) **93h:82033**
Caracciolo, Sergio (*with* Pelissetto, Andrea; Sokal, Alan D.) Join-and-cut algorithm for self-avoiding walks with variable length and free endpoints. **93f:82031**
Dimov, Ivan T. (*with* Tonev, O.) Random walk on distant mesh points: Monte Carlo methods. (English summary) **93j:82036**
Hu, Chin Kun Histogram Monte Carlo renormalization group method for phase transition models without critical slowing down. (English summary) **93m:82020**
Ito, Nobuyasu (*with* Kikuchi, Macoto; Okabe, Yutaka) Recycle of random sequences. (English summary)
Janse van Rensburg, E. J. (*with* Whittington, S. G.) The BFACF algorithm and knotted polygons. **93g:82058**
— Ergodicity of the BFACF algorithm in three dimensions. **93m:82021**
Kawashima, Naoki *see* **Kinosita, Yosinori; et al., 93j:82037**
Kikuchi, Macoto *see* **Ito, Nobuyasu; et al.**
Kinosita, Yosinori (*with* Kawashima, Naoki; Suzuki, Masuo) Coherent-anomaly analysis of series expansions and its application to the Ising model. (English summary) **93j:82037**
Okabe, Yutaka *see* **Ito, Nobuyasu; et al.**
Pelissetto, Andrea *see* **Caracciolo, Sergio; et al., 93f:82031**
Sokal, Alan D. *see* **Caracciolo, Sergio; et al., 93f:82031**
Suzuki, Masuo *see* **Kinosita, Yosinori; et al., 93j:82037**
Tonev, O. *see* **Dimov, Ivan T., 93j:82036**
Wang, Xidi (*with* Baker, George A., Jr.) Monte Carlo calculations of the conformal charge. (English summary) **93i:82047**
Whittington, S. G. *see* **Janse van Rensburg, E. J., 93g:82058**

Items with secondary classifications in 82B80

Cvitanović, Predrag (*with* Gaspard, Pierre; Schreiber, Thomas) Investigation of the Lorentz gas in terms of periodic orbits. **93h:82024**
Drouffe, Jean-Michel *see* **Itzykson, Claude, 93k:81003b**
Evangelou, S. N. A numerical study of sparse random matrices. (English summary) **93j:82034**
Gaspard, Pierre *see* **Cvitanović, Predrag; et al., 93h:82024**
Itzykson, Claude (*with* Drouffe, Jean-Michel) ★ Statistical field theory. Vol. 2. **93k:81003b**
Janke, Wolfhard (*with* Sauer, T.) Properties of higher-order Trotter formulas. **93b:81135**
Jurkiewicz, Jerzy Władysław Twisted boundary conditions and random surfaces with extrinsic curvature. (English summary) **93f:81150**
Narayanan, Rajamani S. Statistical models based on conditional probability distributions. **93d:82005**
Sauer, T. *see* **Janke, Wolfhard, 93b:81135**
Schreiber, Thomas *see* **Cvitanović, Predrag; et al., 93h:82024**
Vohwinkel, C. (*with* Weisz, Peter) Low-temperature expansion in the $d = 4$ Ising model. **93a:82015**
Weisz, Peter *see* **Vohwinkel, C., 93a:82015**

82B99 Miscellaneous topics

Kierlik, E. (*with* Rosinberg, M. L.) The classical fluid of associating hard rods in an external field. (English summary) **93i:82048**
Rosinberg, M. L. *see* **Kierlik, E., 93i:82048**
Zharkov, V. M. Symmetry tower for the Hubbard model. (Russian. English summary) **93b:82035**

Items with secondary classifications in 82B99

Ambjørn, Jan 2D gravity, random surfaces and all that. **93c:81191**
Bakan, A. G. (*with* Golub, A. P.) Some negative results on sequences of multipliers of the first kind. (Russian. Russian and Ukrainian summaries) **93m:26030**
Cenedese, P. (*with* Gratias, D.) Multicomponent formalism in the mean-field approximation: a geometric interpretation of Chebychev polynomials. **93e:82048**
Comets, Francis (*with* Gidas, Basilis) Parameter estimation for Gibbs distributions from partially observed data. **93b:60056**
Deo, Nivedita (*with* Jain, Sanjay[2]; Narayan, Onuttom; Tan, Chung I) Effect of topology on the thermodynamic limit for a string gas. **93a:81152**
Fried, H. M. ★ Basics of functional methods and eikonal models. (English. English summary)
Gautschi, Walter On the computation of generalized Fermi-Dirac and Bose-Einstein integrals. (English summary) **93m:33018**
Gidas, Basilis *see* **Comets, Francis, 93b:60056**
Golub, A. P. *see* **Bakan, A. G., 93m:26030**
Gratias, D. *see* **Cenedese, P., 93e:82048**
Jain, Sanjay[2] *see* **Deo, Nivedita; et al., 93a:81152**
Lebowitz, Joel L. (*with* Macris, Nicolas; Martin, Philippe André[1]) Atomic versus ionized states in many-particle systems and the spectra of reduced density matrices: a model study. **93c:82077**
Macris, Nicolas *see* **Lebowitz, Joel L.; et al., 93c:82077**
Martin, Philippe André[1] *see* **Lebowitz, Joel L.; et al., 93c:82077**
Narayan, Onuttom *see* **Deo, Nivedita; et al., 93a:81152**
Robnik, Marko Improved energy level statistics for a family of billiards with analytic boundaries. **93c:81050**
Tan, Chung I *see* **Deo, Nivedita; et al., 93a:81152**
Yukalov, V. I. Methods for breaking the symmetry of statistical systems. (Russian) (*see* **93d:58002**)

82Cxx Time-dependent statistical mechanics (dynamic and nonequilibrium)

82C03 Foundations

Antoniou, Ioannis E. (*with* Prigogine, Ilya) Intrinsic irreversibility and integrability of dynamics. (English summary) **93m:82022**
Banach, Zbigniew (*with* Piekarski, Sławomir) The Einstein-Smoluchowski promeasure versus the Boltzmann(-Peierls) equation. **93d:82049**
Carlen, Eric A. (*with* Carvalho, Maria Conceicaõ V.) The central limit theorem, entropy production and stability of the rate of convergence to equilibrium for the Boltzmann equation. (English summary) (*see* **93g:81002**)
Carr, Jack (*with* Pego, Robert L.) Self-similarity in a coarsening model in one dimension. (English summary) **93f:82032**
Carvalho, Maria Conceicaõ V. *see* **Carlen, Eric A., (93g:81002)**
Chakrabarti, C. G. (*with* Ghosh, Sutapa) On entropy, H-theorem and statistical equilibrium. (English summary) **93j:82038**
El Naschie, M. S. Statistical mechanics of multi-dimensional Cantor sets, Gödel theorem and quantum spacetime. (English summary) **93k:82036**
Español, Josep (*with* de la Rubia, F. Javier) Mixing and equilibrium probability densities in classical statistical mechanics. (English summary) **93j:82039**
Ghosh, Sutapa *see* **Chakrabarti, C. G., 93j:82038**
Illner, Reinhard The Wigner-Poisson and Schrödinger-Poisson systems. (English summary) **93j:82040**
Jannussis, A. (*with* Mignani, R.; Skaltsas, D.) Lie-admissible perturbation methods for open quantum systems. (English summary) **93j:82041**
van Kampen, N. G. How do stochastic processes enter into physics? **93b:82036**
Mignani, R. *see* **Jannussis, A.; et al., 93j:82041**
Pego, Robert L. *see* **Carr, Jack, 93f:82032**
Piekarski, Sławomir *see* **Banach, Zbigniew, 93d:82049**
Pomeau, Yves Long time behavior of solutions of nonlinear classical field equations: the example of NLS defocusing. (English summary) **93k:82037**
Prigogine, Ilya *see* **Antoniou, Ioannis E., 93m:82022**
de la Rubia, F. Javier *see* **Español, Josep, 93j:82039**
Skaltsas, D. *see* **Jannussis, A.; et al., 93j:82041**
Suchanecki, Zdzisław On lambda and internal time operators. (English summary) **93g:82059**

Items with secondary classifications in 82C03

Beghian, L. E. Statistical foundations of thermal equilibrium. **93g:82002**
Caves, Carlton M. *see* **Schack, Rüdiger, 93h:58047**
Emch, Gérard G. Kolmogorov flows, dynamical entropies and mechanics. (English summary) (*see* **93e:81006**)
García-Colín, L. S. *see* **Velasco, R. M., 93i:82059**
Hasegawa, Hiroshi H. *see* **Saphir, William C., 93j:58078**
van Kampen, N. G. Macroscopic systems in quantum mechanics. (English summary) **93k:81025**
Prigogine, Ilya Dissipative processes in quantum theory.
Saphir, William C. (*with* Hasegawa, Hiroshi H.) Spectral representations of the Bernoulli map. (English summary) **93j:58078**
Schack, Rüdiger (*with* Caves, Carlton M.) Information and entropy in the baker's map. (English summary) **93h:58047**
Sinha, Sudeshna Noisy uncoupled chaotic map ensembles violate the law of large numbers. (English summary) **93h:58105**
Velasco, R. M. (*with* García-Colín, L. S.) The kinetic foundations of extended irreversible thermodynamics revisited. (English summary) **93i:82059**

82C05 Classical dynamic and nonequilibrium statistical mechanics (general)

Abrikosov, A. A., Jr. "Matsubara" approach in classical statistical physics: method and a toy example. (English summary) **93g:82060**

Berezhkovskii, A. M. (*with* Zitserman, V. Yu.) Generalization of the Kramers-Langer theory: decay of the metastable state in the case of strongly anisotropic friction. **93b:82037**

Bulgac, Aurel *see* **Kusnezov, Dimitri, 93d:82051**

Calzetta, Esteban A necessary and sufficient condition for convergence to equilibrium in Kolmogorov systems. **93d:82050**

Cosenza, Mario G. (*with* Kapral, Raymond) Coupled maps on fractal lattices. (English summary) **93e:82030**

Craig, Errol A. *see* **Hoover, William G.; et al., 93a:82035**

Dinariev, O. Yu. On the thermodynamics of interacting classical Hamiltonian systems. (Russian) **93m:82023**

Endo, Kunio *see* **Obata, Tsunehiro; et al., 93b:82039**

Evans, Will J. *see* **Hoover, William G.; et al., 93a:82035**

Fedotov, S. A. Evolution operator and the dynamics of model systems. (Russian) **93a:82034**

Floratos, E. G. A Lagrangian resolution of the momentum problem for two-dimensional ferromagnets. **93b:82038**

Hara, Hiroaki *see* **Obata, Tsunehiro; et al., 93b:82039**

Holz, Arno *see* **Ochiai, Moyuru; et al., 93b:82040**

Hoover, Carol G. *see* **Hoover, William G.; et al., 93a:82035** *and* **93c:82032**

Hoover, William G. (*with* Hoover, Carol G.; Evans, Will J.; Moran, William; Levatin, Joanne A.; Craig, Errol A.) Irreversible processes from reversible mechanics. **93a:82035**

— (*with* Posch, Harald A.; Hoover, Carol G.) Fractal dimension of steady nonequilibrium flows. **93c:82032**

Kapral, Raymond *see* **Cosenza, Mario G., 93e:82030**

Khisamutdinov, A. I. *see* **Kobeleva, N. F., (93e:00018)**

Klimontovich, Yu. L. Some problems of statistical theory of open systems. Criteria of self-organization. Kinetic description of active media. (*see* **93b:00013**)

Kobeleva, N. F. (*with* Khisamutdinov, A. I.) On the property of "molecular chaos" for spatially inhomogeneous rarefied gases. (Russian. Russian summary) (*see* **93e:00018**)

Kusnezov, Dimitri (*with* Bulgac, Aurel) Canonical ensembles from chaos. II. Constrained dynamical systems. **93d:82051**

Lemarchand, A. *see* **Sulpice, E.; et al., 93b:82041**

Lemarchand, H. *see* **Sulpice, E.; et al., 93b:82041**

Levatin, Joanne A. *see* **Hoover, William G.; et al., 93a:82035**

Mackey, Michael C. The second law of thermodynamics: comments from ergodic theory. **93a:82036**

Martinelli, Fabio Multiscale analysis in random dynamics. (English summary) (*see* **93e:00033**)

Moran, William *see* **Hoover, William G.; et al., 93a:82035**

Obata, Tsunehiro (*with* Hara, Hiroaki; Endo, Kunio) Differential geometry of nonequilibrium processes. **93b:82039**

Ochiai, Moyuru (*with* Holz, Arno; Yamazaki, Yoshitake; Ozao, Riko) Regression law of fluctuations and self-similarity law at a critical point in diffusion-reaction processes. **93b:82040**

Oppenheim, Irwin (*with* Orsky, Alex) Uses and abuses of the Langevin equation for chemical reactions in condensed phases. **93a:82037**

Orsky, Alex *see* **Oppenheim, Irwin, 93a:82037**

Ozao, Riko *see* **Ochiai, Moyuru; et al., 93b:82040**

Posch, Harald A. *see* **Hoover, William G.; et al., 93c:82032**

Sulpice, E. (*with* Lemarchand, A.; Lemarchand, H.) Normal form of stochastic equations for chemical systems near bifurcation points. **93b:82041**

Yamazaki, Yoshitake *see* **Ochiai, Moyuru; et al., 93b:82040**

Zitserman, V. Yu. *see* **Berezhkovskii, A. M., 93b:82037**

Items with secondary classifications in 82C05

Anile, A. M. (*with* Pennisi, Sebastiano) Extended thermodynamics of the Blotekjaer hydrodynamical model for semiconductors. (English summary) **93h:82068**

Antoniou, Ioannis E. (*with* Tasaki, S.) Generalized spectral decomposition of the β-adic baker's transformation and intrinsic irreversibility. (English summary) **93j:58071**

Dão Quang Tuyên *see* **Erdős, L., 93d:82058**

De Masi, Anna (*with* Presutti, Errico) ★ Mathematical methods for hydrodynamic limits. **93k:60234**

Erdős, L. (*with* Dão Quang Tuyên) Central limit theorems for the one-dimensional Rayleigh gas with semipermeable barriers. **93d:82058**

Funaki, Tadahisa The reversible measures of multi-dimensional Ginzburg-Landau type continuum model. **93d:60105**

Gaspard, Pierre (*with* Ramirez, D. Alonso) Ruelle classical resonances and dynamical chaos: the three- and four-disk scatterers. **93d:58125**

(Godrèche, C.) *see* **Solids far from equilibrium, 93g:82042**

Graham, Robert *see* **Hamm, Andreas, 93c:58188**

Hamm, Andreas (*with* Graham, Robert) Quasipotentials for simple noisy maps with complicated dynamics. **93c:58188**

van Kampen, N. G. How do stochastic processes enter into physics? **93b:82036**

Kharrasov, M. Kh. Asymptotic behavior of solutions of the Fokker-Planck equation as $t \to \infty$. (Russian) **93i:34102**

Liggett, Thomas M. Spatially inhomogeneous contact processes. **93a:60158**

— L_2 rates of convergence for attractive reversible nearest particle systems: the critical case. **93a:60159**

Losson, Jérôme (*with* Mackey, Michael C.) A Hopf-like equation and perturbation theory for differential delay equations. (English summary) **93k:34172**

Mackey, Michael C. *see* **Losson, Jérôme, 93k:34172**

Pennisi, Sebastiano *see* **Anile, A. M., 93h:82068**

Politi, Antonio (*with* Torcini, Alessandro) Towards a statistical mechanics of spatiotemporal chaos. (English summary) **93h:58103**

Pomeau, Yves Asymptotic time behaviour of nonlinear classical field equations. **93b:76048**

Presutti, Errico *see* **De Masi, Anna, 93k:60234**

Ramirez, D. Alonso *see* **Gaspard, Pierre, 93d:58125**

Rodin, Yu. L. Riemann problem method for generalized Heisenberg equation. (English summary) **93j:35143**

Sri Namachchivaya, N. (*with* Van Roessel, H. J.) Maximal Lyapunov exponent and rotation numbers for two coupled oscillators driven by real noise. (English summary) **93m:60125**

Suchanecki, Zdzisław On lambda and internal time operators. (English summary) **93g:82059**

Tasaki, S. *see* **Antoniou, Ioannis E., 93j:58071**

Torcini, Alessandro *see* **Politi, Antonio, 93h:58103**

Van Roessel, H. J. *see* **Sri Namachchivaya, N., 93m:60125**

Items listed otherwise than by author

Solids far from equilibrium ★ Solids far from equilibrium. **93g:82042**

82C10 Quantum dynamics and nonequilibrium statistical mechanics (general)

Accardi, Luigi (*with* Lu, Yun Gang) The low density limit in the finite temperature case. I. **93c:82033**

Arimitsu, Toshihico Nonequilibrium thermofield dynamics and thermal processes. **93a:82038**

— *see also* **Ban, Masashi; et al., 93d:82052**

Bagarello, F. (*with* Morchio, G.) Dynamics of mean-field spin models from basic results in abstract differential equations. **93c:82034**

Ban, Masashi (*with* Arimitsu, Toshihico; Saito, Takesi) A new aspect within nonequilibrium thermofield dynamics and its applications. **93d:82052**

Benatti, Fabio Deterministic quantum noise and Kolmogorov systems. **93d:82053**

Berman, Michael (*with* Kosloff, Ronnie; Tal-Ezer, Hillel) Solution of the time-dependent Liouville-von Neumann equation: dissipative evolution. **93d:82054**

Botvich, D. D. (*with* Malyshev, V. A.; Manita, A. D.) Translation invariant quantum master equation. **93b:82042**

Bullough, R. K. (*with* Chen, Yu-zhong; Timonen, J.) Soliton statistical mechanics—thermodynamic limits for quantum and classical integrable models. (*see* **93b:00013**)

Carey, A. L. (*with* Hume, L. R.) Multiple phases and return to equilibrium. (English summary) **93m:82024**

Chen, Yu-zhong *see* **Bullough, R. K.; et al., (93b:00013)**

Chernousenko, V. M. (*with* Kuklin, V. M.; Panchenko, I. P.) Structures in nonequilibrium media. (Russian) **93g:82061**

Dorlas, T. C. (*with* Lewis, John Trevor; Pulé, J. V.) Condensation in some perturbed meanfield models of a Bose gas. **93c:82035**

— Large deviations for some models of an interacting Bose gas. (English summary) (*see* **93c:81005**)

Duffield, N. G. (*with* Werner, R. F.) Classical Hamiltonian dynamics for quantum Hamiltonian mean-field limits. (English summary) **93j:82042**

— (*with* Roos, Hansjörg O.; Werner, R. F.) Macroscopic limiting dynamics of a class of inhomogeneous mean field quantum systems. (French summary) **93b:82043**

Ezawa, Hiroshi *see* **Watanabe, Keiji; et al., 93b:82051**

Fukuda, Reijiro *see* **Sumino, Masayoshi; et al., 93g:82063**

Georgelin, Y. (*with* Leblanc, Y.) New nonequilibrium regimes of the reservoir model. **93b:82044**

Gerasimenko, V. I. On the existence of global solutions of the Cauchy problem for Bogolyubov equations. (Russian. English summary) **93b:82045**

Golden, Sidney Irreversible evolution of isolated quantum systems and a discreteness of time. (English summary) **93k:82038**

Guo, Bo Ling (*with* Hong, Min Chun) Landau-Lifshitz equations of the ferromagnetic spin chain and harmonic maps.

Higurashi, Hitoshi *see* **Sumino, Masayoshi; et al., 93g:82063**

Hong, Min Chun *see* **Guo, Bo Ling**

Hu, B. L. (*with* Paz, Juan Pablo; Zhang, Yuhong) Quantum Brownian motion in a general environment: exact master equation with nonlocal dissipation and colored noise. **93g:82062**

Hu, Gang[1] Microscopic entropy in a quantum model. (English and Chinese summaries) **93j:82043**

Hume, L. R. *see* **Carey, A. L., 93m:82024**

It·s, A. R. (*with* Izergin, A. G.; Korepin, V. E.; Varzugin, G. G.) Large time and distance asymptotics of field correlation function of impenetrable bosons at finite temperature. **93b:82046**

Izergin, A. G. *see* **It·s, A. R.; et al., 93b:82046**

Korepin, V. E. *see* **It·s, A. R.; et al., 93b:82046**

Kosloff, Ronnie *see* **Berman, Michael; et al., 93d:82054**

Kuklin, V. M. *see* **Chernousenko, V. M.; et al., 93g:82061**

Lai, Choy-Heng *see* **Ting, Christopher, 93d:82056**

Larecki, Wiesław Equations of heat transport based on approximate kinetic description of phonon processes. (*see* **93a:82002**)

Leblanc, Y. *see* **Georgelin, Y., 93b:82044**

Lewis, John Trevor *see* **Dorlas, T. C.; et al., 93c:82035**

Lu, Yun Gang The weak coupling limit for quadratic interaction. (English summary) **93i:82049**

— *see also* **Accardi, Luigi, 93c:82033**

Malyshev, V. A. *see* **Botvich, D. D.; et al., 93b:82042**

Mancini, Ferdinando Perturbation theory in equilibrium and nonequilibrium. **93b:82047**

Manita, A. D. *see* **Botvich, D. D.; et al., 93b:82042**

Matsui, Taku On ground state degeneracy of Z_2 symmetric quantum spin models. **93d:82055**

Morchio, G. *see* **Bagarello, F., 93c:82034**

Nakamura, Koichi[2] (*with* Umezawa, H.; Yamanaka, Yoshiya) Time-space dependent formulation in thermofield dynamics. (English summary) **93j:82044**

— *see also* **Watanabe, Keiji; et al., 93b:82051**

Ojima, Izumi Entropy production and nonequilibrium stationarity in quantum dynamical systems. (English summary) (*see* **93e:81158**)
Otero, Dino (*with* Zunino, Veronica) Unbounded operators in statistical mechanics. **93b:82048**
Panchenko, I. P. *see* **Chernousenko, V. M.; et al., 93g:82061**
Paz, Juan Pablo *see* **Hu, B. L.; et al., 93g:82062**
Pulé, J. V. *see* **Dorlas, T. C.; et al., 93c:82035**
Roos, Hansjörg O. *see* **Duffield, N. G.; et al., 93b:82043**
Saito, Takesi *see* **Ban, Masashi; et al., 93d:82052**
Shukhov, A. G. (*with* Sukhov, Yu. M.; Teslenko, A. V.) Towards time-dynamics for bosonic systems in quantum statistical mechanics. (English summary) **93k:82039**
— (*with* Sukhov, Yu. M.) Towards time-dynamics for bosonic systems in quantum statistical mechanics. II. (English summary) **93k:82040**
Soyeur, Alain The Cauchy problem for the Ishimori equations. **93h:82034**
Suchanecki, Zdzisław (*with* Weron, Aleksander) Characterizations of intrinsically random dynamical systems in the Prigogine theory of irreversibility. (*see* **93a:60004**)
Sukhov, Yu. M. *see* **Shukhov, A. G.; et al., 93k:82039** *and* **93k:82040**
Sumino, Masayoshi (*with* Fukuda, Reijiro; Higurashi, Hitoshi) The generating functional of the nonequilibrium process. The case of macrovariable. **93g:82063**
Suzuki, Masuo Emerging broken symmetry in space and time. **93b:82049**
Tal-Ezer, Hillel *see* **Berman, Michael; et al., 93d:82054**
Teslenko, A. V. *see* **Shukhov, A. G.; et al., 93k:82039**
Timonen, J. *see* **Bullough, R. K.; et al., (93b:00013)**
Ting, Christopher (*with* Lai, Choy-Heng) Braid group representation and fractional quantum Hall effect. **93d:82056**
Umezawa, H. Origin of nonquantum noise and time dependent thermofield dynamics. **93b:82050**
— *see also* **Nakamura, Koichi[2]; et al., 93j:82044**
Varzugin, G. G. *see* **It-s, A. R.; et al., 93b:82046**
Verbeure, André Quantum fluctuations and linear response theory. **93h:82035**
Watanabe, Keiji (*with* Nakamura, Koichi[2]; Ezawa, Hiroshi) Quantum field theory of thermal diffusion. **93b:82051**
Werner, R. F. *see* **Duffield, N. G.; et al., 93b:82043** *and* **93j:82042**
Weron, Aleksander *see* **Suchanecki, Zdzisław, (93a:60004)**
Yamanaka, Yoshiya *see* **Nakamura, Koichi[2]; et al., 93j:82044**
Zhang, Yuhong *see* **Hu, B. L.; et al., 93g:82062**
Zunino, Veronica *see* **Otero, Dino, 93b:82048**

Items with secondary classifications in 82C10

Accardi, Luigi (*with* Lu, Yun Gang) The low density limit and the quantum Poisson process. **93i:46122**
Balian, Roger (*with* Vénéroni, Marcel) Correlations and fluctuations in static and dynamic mean-field approaches. **93g:81206**
Ban, Masashi Relative number state representation and phase operator for physical systems. **93e:81062**
Benatti, Fabio Entropic and algebraic K-systems: a comparison. **93b:46126**
Boyanovsky, Daniel (*with* Willey, R.; Holman, R.) Quantum mechanical metastability: when and why? **93b:81066**
Bulinskii, A. V. Markov dilatations and asymptotics for dynamical semigroups. (Russian) (*see* **93m:00036**)
Collet, P. (*with* Eckmann, J.-P.) Solutions without phase-slip for the Ginsburg-Landau equation. **93d:35151**
Combescure, M. Recurrent versus diffusive dynamics for a kicked quantum oscillator. (English and French summaries) **93j:81021**
Davies, E. Brian (*with* Lindsay, J. Martin) Noncommutative symmetric Markov semigroups. **93f:46088**
Eckmann, J.-P. *see* **Collet, P., 93d:35151**
Eu, Byung Chan (*with* Mao, Kefei) Note on the kinetic theory approach to irreversible thermodynamics of radiation and matter. **93e:82039**
Funaki, Tadahisa On the stochastic partial differential equations of Ginzburg-Landau type. **93g:35152**
Ge, Mo Lin *see* **Pang, Lin; et al., 93m:81056**
Hensel, M. (*with* Korsch, H. J.) Dissipative quantum dynamics: solution of the generalized von Neumann equation for the damped harmonic oscillator. **93g:81032**
Hiai, Fumio (*with* Petz, Dénes) The proper formula for relative entropy and its asymptotics in quantum probability. **93b:46122**
Holman, R. *see* **Boyanovsky, Daniel; et al., 93b:81066**
Ignatyuk, I. A. (*with* Malyshev, V. A.; Sidoravičius, V.) Convergence of the stochastic quantization method. **93d:81094**
Just, Wolfram Projection operator approach to the thermodynamic formalism of dynamical systems. **93b:58091**
Khalfin, L. A. (*with* Tsirelson, Boris S.) Quantum/classical correspondence in the light of Bell's inequalities. (English summary) **93k:81017**
Korsch, H. J. *see* **Hensel, M., 93g:81032**
Lieb, Elliott H. Absence of ferromagnetism for one-dimensional itinerant electrons. (*see* **93g:81002**)
Lindsay, J. Martin *see* **Davies, E. Brian, 93f:46088**
Lu, Yun Gang *see* **Accardi, Luigi, 93i:46122**
Malyshev, V. A. *see* **Ignatyuk, I. A.; et al., 93d:81094**
Mao, Kefei *see* **Eu, Byung Chan, 93e:82039**
Pang, Lin (*with* Sun, Chang Pu; Ge, Mo Lin) Topological action for one-dimensional antiferromagnet as superposition of Berry's phase for coherent states. (English summary) **93m:81056**
Park, Yong Moon (*with* Shin, Hyun Hye) Dynamical entropy of quasi-local algebras in quantum statistical mechanics. **93a:46132**
Petz, Dénes *see* **Hiai, Fumio, 93b:46122**
Polychronakos, Alexios P. Exchange operator formalism for integrable systems of particles. **93g:58063**
Raggio, G. A. Noncommutative large deviations and applications. (English summary) (*see* **93b:00027**)
Reichl, L. E. A delta-kicked Brownian rotor. (English summary) **93k:82047**
Ringhofer, Christian A spectral collocation technique for the solution of the Wigner-Poisson problem. **93e:82046**
Shin, Hyun Hye *see* **Park, Yong Moon, 93a:46132**
Sidoravičius, V. *see* **Ignatyuk, I. A.; et al., 93d:81094**
Sun, Chang Pu *see* **Pang, Lin; et al., 93m:81056**
Tsirelson, Boris S. *see* **Khalfin, L. A., 93k:81017**
Vénéroni, Marcel *see* **Balian, Roger, 93g:81206**
Willey, R. *see* **Boyanovsky, Daniel; et al., 93b:81066**
Zagatti, Sandro The Cauchy problem for Hartree-Fock time-dependent equations. (English and French summaries) **93h:35170**

82C20 Dynamic lattice systems (kinetic Ising, etc.)

Abdulloev, Kh. O. (*with* Maksudov, A. T.; Muminov, Kh. Kh.) Hamiltonian equations of motion in the space $SU(3)/SU(2) \times U(1)$. (Russian. Tajiki summary) **93j:82045**
Ahn, Ho S. (*with* Carmona, René A.; Molchanov, S. A.) Nonstationary Anderson model with Lévy potential. **93h:82036**
van Beijeren, H. (*with* Ernst, M. H.) Diffusion in Lorentz lattice gas automata with backscattering. (English summary) **93k:82041**
Bunimovich, L. A. Phase transitions in Lorentz-type gases. **93d:82057**
Carmona, René A. *see* **Ahn, Ho S.; et al., 93h:82036**
Common, A. K. Q-D algorithm and the discrete time Toda lattice. (English summary)
Debnath, M. (*with* Roy Chowdhury, A.) Integrable mapping, perturbations and attractors. (English summary) **93f:82033**
Ernst, M. H. *see* **van Beijeren, H., 93k:82041**
Gabetta, Ester Some remarks on a spatial lattice model. (English summary) (*see* **93g:00030**)
Grensing, D. *see* **Münier, M.; et al., 93h:82037**
Grøn, Øyvind (*with* Soleng, Harald H.) Static plane-symmetric space-time with a conformally coupled massless scalar field. **93c:82036**
Hasslacher, Brosl (*with* Meyer, David A.) Lattice gases and exactly solvable models. (English summary) **93j:82046**
Hennig, D. Analytic structure of a harmonically perturbed nonlinear dimer model. (English summary) **93g:82064**
Holley, Richard On the asymptotics of the spin-spin autocorrelation function in stochastic Ising models near the critical temperature. **93a:82039**
Jüttner, H.-U. *see* **Münier, M.; et al., 93h:82037**
Lima Montenegro, S. (*with* Pashaev, O. K.) ★ Динамика вихрей модели магнетика Ишимори. (Russian. English and Russian summaries) [Dynamics of vortices in the Ishimori magnet model]
Maksudov, A. T. *see* **Abdulloev, Kh. O.; et al., 93j:82045**
Meyer, David A. *see* **Hasslacher, Brosl, 93j:82046**
Mielke, Andreas Exact results for the $U = \infty$ Hubbard model. (English summary) **93k:82042**
Molchanov, S. A. *see* **Ahn, Ho S.; et al., 93h:82036**
Müller, Gerhard *see* **Stolze, Joachim; et al., 93h:82038**
Muminov, Kh. Kh. *see* **Abdulloev, Kh. O.; et al., 93j:82045**
Münier, M. (*with* Grensing, D.; Jüttner, H.-U.) Exact phase transition points for vertex models on even-coordinated lattices. **93h:82037**
Neves, E. Jordão (*with* Schonmann, Roberto H.) Behavior of droplets for a class of Glauber dynamics at very low temperature. **93f:82034**
Pashaev, O. K. *see* **Lima Montenegro, S.**
Privman, Vladimir Model of cluster growth and phase separation: exact results in one dimension. (English summary) **93m:82025**
Roy Chowdhury, A. *see* **Debnath, M., 93f:82033**
Ruelle, Philippe (*with* Sen, Siddhartha[1]) Toppling distributions in one-dimensional abelian sandpiles. (English summary) **93i:82050**
Schonmann, Roberto H. The pattern of escape from metastability of a stochastic Ising model. **93g:82065**
— *see also* **Neves, E. Jordão, 93f:82034**
Scoppola, Elisabetta A model of stochastic cluster dynamics with non-Gibbsian invariant measure. (English summary) (*see* **93g:81002**)
Sen, Siddhartha[1] *see* **Ruelle, Philippe, 93i:82050**
Soleng, Harald H. *see* **Grøn, Øyvind, 93c:82036**
Stolze, Joachim (*with* Viswanath, V. S.; Müller, Gerhard) Dynamics of semi-infinite quantum spin chains at $T = \infty$. (English summary) **93h:82038**
Viswanath, V. S. *see* **Stolze, Joachim; et al., 93h:82038**

Items with secondary classifications in 82C20

Bernardin, D. (*with* Séro-Guillaume, O. E.; Sun, C. H.) Thermal conduction in 2D-lattice gases. (English summary) **93g:82080**
Blanchard, Philippe (*with* Krüger, Tyll) Critical parameters and threshold properties for epidemic dynamical systems on random graphs. (*see* **93g:81002**)
Castejón-Amenedo, J. (*with* Coley, Alan A.) Exact solutions with conformal Killing vector fields. (English summary) **93j:83017**
Chang, Chih Chung (*with* Yau, Horng-Tzer) Fluctuations of one-dimensional Ginzburg-Landau models in nonequilibrium. **93g:82069**
Christiansen, Peter L. (*with* Rionero, Salvatore; Lomdahl, Peter S.; Muto, Virginia) Stability of a solitary wave solution to a set of coupled Boussinesq-like equations. (English summary) (*see* **93g:00030**)
— *see also* **Muto, Virginia; et al., (93g:00030)**
Coley, Alan A. *see* **Castejón-Amenedo, J., 93j:83017**
De Masi, Anna (*with* Esposito, Raffaele; Presutti, Errico) Kinetic limits of the HPP cellular automaton. **93a:82024**
Esipov, S. E. (*with* Newman, T. J.) New formulation of restricted growth processes. (English summary) **93k:82044**
Esposito, Raffaele *see* **De Masi, Anna; et al., 93a:82024**
Goles Ch., Eric (*with* Kiwi, Marcos) One-dimensional sand piles, cellular automata and related models. **93c:68074**
Holley, Richard The one-dimensional stochastic X-Y model. **93b:60229**

Kiwi, Marcos *see* **Goles Ch., Eric**, 93c:68074
Koch, Hans A scaling limit of the Glauber dynamics for a class of neural network models. **93c:82040**
Krapivskii, P. L. Kinetics of a monomer-monomer model of heterogeneous catalysis. (English summary) **93j:82049**
Krüger, Tyll *see* **Blanchard, Philippe**, (93g:81002)
Landim, C. Hydrodynamical limit for asymmetric attractive particle systems on $\mathbf{Z}^d$. (French summary) **93m:60200**
Lomdahl, Peter S. *see* **Christiansen, Peter L.; et al.**, (93g:00030) *and* **Muto, Virginia; et al.**, (93g:00030)
Matsui, Taku On ground state degeneracy of Z_2 symmetric quantum spin models. **93d:82055**
Muto, Virginia (*with* Scott, A. C.; Christiansen, Peter L.; Lomdahl, Peter S.) Nonlinear discrete models for DNA dynamics. (English summary) (*see* **93g:00030**)
— *see also* **Christiansen, Peter L.; et al.**, (93g:00030)
Newman, T. J. *see* **Esipov, S. E.**, 93k:82044
Presutti, Errico *see* **De Masi, Anna; et al.**, 93a:82024
Rionero, Salvatore *see* **Christiansen, Peter L.; et al.**, (93g:00030)
Sacchetti, Andrea Asymptotic expansion of the Stark-Wannier states. **93d:82078**
Scott, A. C. *see* **Muto, Virginia; et al.**, (93g:00030)
Séro-Guillaume, O. E. *see* **Bernardin, D.; et al.**, 93g:82080
Shukhov, A. G. (*with* Sukhov, Yu. M.; Teslenko, A. V.) Towards time-dynamics for bosonic systems in quantum statistical mechanics. (English summary) **93k:82039**
— (*with* Sukhov, Yu. M.) Towards time-dynamics for bosonic systems in quantum statistical mechanics. II. (English summary) **93k:82040**
Streater, Raymond F. The F-theorem for stochastic models. (English summary) **93k:82048**
Stroock, Daniel W. (*with* Zegarliński, Bogusław) The logarithmic Sobolev inequality for discrete spin systems on a lattice. (English summary) **93j:82013**
Sukhov, Yu. M. *see* **Shukhov, A. G.; et al.**, 93k:82039 *and* **93k:82040**
Sun, C. H. *see* **Bernardin, D.; et al.**, 93g:82080
Teslenko, A. V. *see* **Shukhov, A. G.; et al.**, 93k:82039
Vares, M. E. On long time behaviour of a class of reaction-diffusion models. (French summary) **93d:82059**
Yau, Horng-Tzer *see* **Chang, Chih Chung**, 93g:82069
Zee, A. Nonabelian flux and spin liquid states. **93f:82065**
Zegarliński, Bogusław *see* **Stroock, Daniel W.**, 93j:82013

82C21 Dynamic continuum models (systems of particles, etc.)

Bleher, Pavel M. Statistical properties of two-dimensional periodic Lorentz gas with infinite horizon. **93b:82052**
Funaki, Tadahisa The hydrodynamic limit for a system with interactions prescribed by Ginzburg-Landau type random Hamiltonian. **93e:82031**
Gerasimenko, V. I. (*with* Gorunovich, V. V.) A discrete model of Bogolyubov equations. (Russian. Russian summary) **93h:82039**
Gorunovich, V. V. *see* **Gerasimenko, V. I.**, 93h:82039
Kusnezov, Dimitri Diffusive aspects of global demons. **93j:82047**

Items with secondary classifications in 82C21

Bernardin, D. Global invariants and equilibrium states in lattice gases. (English summary) **93i:82025**
Ferrari, Pablo Augusto Shock fluctuations in asymmetric simple exclusion. **93b:60228**
Gerasimenko, V. I. (*with* Gorunovich, V. V.) Bogolyubov equations for a discrete model of a one-dimensional system of particles. (Russian. English summary) **93a:82048**
Gorunovich, V. V. *see* **Gerasimenko, V. I.**, 93a:82048
Greenberg, J. M. The shock generation problem for a discrete gas with short-range repulsive forces. **93g:76076**
Gurevich, B. M. Gibbs random fields that are invariant with respect to infinite-particle Hamiltonian dynamics. (Russian. English and Russian summaries) **93g:82005**
Markov, Yu. A. (*with* Rudykh, G.; Sidorov, N. A.; Sinitsyn, A. V.; Tolstonogov, D.) Steady-state solutions of the Vlasov-Maxwell system and their stability. (English summary) **93m:82047**
Petritis, D. The zero-level set of the Brownian bridge as a model of disordered physical systems. **93k:60240**
Rudykh, G. *see* **Markov, Yu. A.; et al.**, 93m:82047
Sidorov, N. A. *see* **Markov, Yu. A.; et al.**, 93m:82047
Sinitsyn, A. V. *see* **Markov, Yu. A.; et al.**, 93m:82047
Tolstonogov, D. *see* **Markov, Yu. A.; et al.**, 93m:82047
Vertgeim, L. B. An inverse problem for a system of kinetic equations that arises from the Vlasov equation of an equilibrium plasma. (Russian) **93m:82049**

82C22 Interacting particle systems [see also 60K35]

Alexander, Francis J. (*with* Cheng, Zheming; Janowsky, Steven A.; Lebowitz, Joel L.) Shock fluctuations in the two-dimensional asymmetric simple exclusion process. (English summary) **93g:82066**
Banach, Zbigniew (*with* Piekarski, Sławomir) The Einstein-Smoluchowski promeasure and the stochastic Boltzmann-Peierls equation. (English summary) **93k:82043**
Cheng, Zheming *see* **Alexander, Francis J.; et al.**, 93g:82066
Dão Quang Tuyên *see* **Erdős, L.**, 93d:82058
Erdős, L. (*with* Dão Quang Tuyên) Central limit theorems for the one-dimensional Rayleigh gas with semipermeable barriers. **93d:82058**
Fagnola, Franco (*with* Lu, Yun Gang) The weak coupling limit for free noise. (English summary) **93j:82048**
Ferrari, Pablo Augusto Microscopic shocks in one-dimensional driven systems. (French summary) **93e:82032**
Frosali, Giovanni (*with* van der Mee, Cornelis) Mathematical study of the runaway process in particle swarms. **93b:82053**
Gal'perin, G. A. Asymptotic behavior of a particle in a Lorentz gas. (Russian) **93e:82033**
Greven, Andreas (*with* den Hollander, Frank) Population growth in random media. I. Variational formula and phase diagram. **93g:82067**
— (*with* den Hollander, Frank) Population growth in random media. II. Wavefront propagation. **93g:82068**
Grynberg, Marcelo D. *see* **Privman, Vladimir**
den Hollander, Frank (*with* Naudts, J.; Redig, Frank) Invariance principle for the stochastic Lorentz lattice gas. **93e:82034**
— *see also* **Greven, Andreas**, 93g:82067 *and* **93g:82068**
Ito, H. M. (*with* Ogura, Yukio; Tomisaki, Matsuyo) Stretched-exponential decay laws of general defect diffusion models. **93a:82040**
Janowsky, Steven A. *see* **Alexander, Francis J.; et al.**, 93g:82066
Lachowicz, Mirosław Stochastic systems modelling the hydrodynamic equations. (*see* **93a:82002**)
Landim, C. Large fluctuations for Markov processes: an application to interacting particle systems. (English summary) **93m:82026**
Lebowitz, Joel L. *see* **Alexander, Francis J.; et al.**, 93g:82066
Lu, Yun Gang *see* **Fagnola, Franco**, 93j:82048
van der Mee, Cornelis *see* **Frosali, Giovanni**, 93b:82053
Molchanov, S. A. Localization and intermittency: new results. **93i:82051**
Naudts, J. *see* **den Hollander, Frank; et al.**, 93e:82034
Ogura, Yukio *see* **Ito, H. M.; et al.**, 93a:82040
Pellegrinotti, Alessandro Phase separation in an interacting particle system. (English summary) (*see* 93g:81002)
Piekarski, Sławomir *see* **Banach, Zbigniew**, 93k:82043
Privman, Vladimir (*with* Grynberg, Marcelo D.) Fast-diffusion mean-field theory for k-body reactions in one dimension. (English summary)
Redig, Frank *see* **den Hollander, Frank; et al.**, 93e:82034
Rein, Gerhard (*with* Weckler, Jürgen) Generic global classical solutions of the Vlasov-Fokker-Planck-Poisson system in three dimensions. (English summary) **93m:82027**
Rezakhanlou, Fraydoun Hydrodynamic limit for attractive particle systems on $\mathbf{Z}^d$. **93f:82035**
Tomisaki, Matsuyo *see* **Ito, H. M.; et al.**, 93a:82040
Vares, M. E. On long time behaviour of a class of reaction-diffusion models. (French summary) **93d:82059**
Venakides, Stephanos The Toda shock problem. **93b:82054**
Weckler, Jürgen *see* **Rein, Gerhard**, 93m:82027
Yau, Horng-Tzer Relative entropy and hydrodynamics of Ginzburg-Landau models. **93e:82035**

Items with secondary classifications in 82C22

Azmy, Y. Y. (*with* Boffi, V. C.; Mandrekas, J.; Protopopescu, V.) Lie group analysis for a multispecies, spatially inhomogeneous, mutually interacting gas mixture. **93c:35003**
Boffi, V. C. *see* **Azmy, Y. Y.; et al.**, 93c:35003
Boldrighini, C. (*with* De Masi, Anna; Pellegrinotti, Alessandro) Nonequilibrium fluctuations in particle systems modelling reaction-diffusion equations. **93m:60196**
Bryc, Włodzimierz On the large deviation principle for stationary weakly dependent random fields. **93c:60031**
Campbell, C. E. *see* **Senger, G.; et al.**, 93i:81310
Cheng, Zheming (*with* Lebowitz, Joel L.; Speer, Eugene R.) Microscopic shock structure in model particle systems: the Boghosian-Levermore cellular automaton revisited. **93b:60226**
Clark, J. W. *see* **Senger, G.; et al.**, 93i:81310
Comets, Francis Limites hydrodynamiques. [Hydrodynamical limits] **93e:60194**
Cox, J. T. (*with* Greven, Andreas) On the long term behavior of finite particle systems: a critical dimension example. **93d:60163**
— (*with* Durrett, Richard) Nonlinear voter models. **93e:60195**
De Masi, Anna *see* **Boldrighini, C.; et al.**, 93m:60196
Derrida, B. (*with* Domany, E.; Mukamel, D.) An exact solution of a one-dimensional asymmetric exclusion model with open boundaries. (English summary) **93m:60197**
Dobrushin, R. L. (*with* Sokolovskii, F.) Higher order hydrodynamic equations for a system of independent random walks. **93c:60157**
Domany, E. *see* **Derrida, B.; et al.**, 93m:60197
Durrett, Richard A new method for proving the existence of phase transitions. **93c:60158**
— *see also* **Cox, J. T.**, 93e:60195
Fouque, Jean-Pierre Hydrodynamical behavior of asymmetric attractive particle systems. One example: one-dimensional nearest-neighbors asymmetric simple exclusion process. **93c:60159**
Greven, Andreas *see* **Cox, J. T.**, 93d:60163
den Hollander, Frank (*with* Naudts, J.; Redig, Frank) Long-time tails in a random diffusion model. (English summary) **93k:82056**
Lebowitz, Joel L. *see* **Cheng, Zheming; et al.**, 93b:60226
Mandrekas, J. *see* **Azmy, Y. Y.; et al.**, 93c:35003
Mukamel, D. *see* **Derrida, B.; et al.**, 93m:60197
Naudts, J. *see* **den Hollander, Frank; et al.**, 93k:82056
Noble, Chris Equilibrium behavior of the sexual reproduction process with rapid diffusion. **93f:60152**
Pellegrinotti, Alessandro *see* **Boldrighini, C.; et al.**, 93m:60196
Piekarski, Sławomir *see* **Trzęsowski, Andrzej**, 93m:82035
Protopopescu, V. *see* **Azmy, Y. Y.; et al.**, 93c:35003
Quastel, Jeremy Diffusion of color in the simple exclusion process. **93e:60198**
Redig, Frank *see* **den Hollander, Frank; et al.**, 93k:82056
Ristig, M. L. *see* **Senger, G.; et al.**, 93i:81310
Saisho, Yasumasa On the equation describing the random motion of mutually reflecting molecules. **93b:60125**
Schinazi, Rinaldo Brownian fluctuations of the edge for critical reversible nearest-particle systems. **93a:60160**
Senger, G. (*with* Ristig, M. L.; Campbell, C. E.; Clark, J. W.) Correlated density matrix theory of normal quantum fluids. (English summary) **93i:81310**
Sokolovskii, F. *see* **Dobrushin, R. L.**, 93c:60157
Speer, Eugene R. *see* **Cheng, Zheming; et al.**, 93b:60226

Srinivasan, Rengarajan Stochastic comparisons of density profiles for the road-hog process. **93d:60169**
Streater, Raymond F. The F-theorem for stochastic models. (English summary) **93k:82048**
Tempelman, A. A. *see* **Žalys, Albertas**, **93f:60053**
Trzęsowski, Andrzej (*with* Piekarski, Sławomir) Markovian description of irreversible processes and the time randomization. (English summary) **93m:82035**
Žalys, Albertas (*with* Tempelman, A. A.) Generalized Gaussian fields with local interaction. (Russian. English and Lithuanian summaries) **93f:60053**

82C23 Exactly solvable dynamic models [see also 58F07]

Bellon, M. P. (*with* Maillard, J.-M.; Rollet, G.; Viallet, Claude-Michel) Deformations of dynamics associated to the chiral Potts model. (English summary) **93m:82028**
Maillard, J.-M. *see* **Bellon, M. P.; et al.**, **93m:82028**
Rollet, G. *see* **Bellon, M. P.; et al.**, **93m:82028**
Viallet, Claude-Michel *see* **Bellon, M. P.; et al.**, **93m:82028**

Items with secondary classifications in 82C23

Bogolyubov, N. M. (*with* Bullough, R. K.) A q-deformed completely integrable Bose gas model. **93f:81164**
Bullough, R. K. *see* **Bogolyubov, N. M.**, **93f:81164**
Grandenz, Dirk Multi-state spin glasses, neural networks and generalized subgraph polynomials. (English summary) **93d:05147**
Hasslacher, Brosl (*with* Meyer, David A.) Lattice gases and exactly solvable models. (English summary) **93j:82046**
Kainz, A. J. (*with* Titulaer, U. M.) The structure of the stationary kinetic boundary layer for the linear BGK equation. **93b:82065**
Meyer, David A. *see* **Hasslacher, Brosl**, **93j:82046**
Privman, Vladimir Model of cluster growth and phase separation: exact results in one dimension. (English summary) **93m:82025**
— Exact results for a three-body reaction-diffusion system. (English summary) **93j:82065**
Titulaer, U. M. *see* **Kainz, A. J.**, **93b:82065**

82C24 Interface problems

Bondar', V. A. (*with* Lagno, V. I.; Serov, N. I.) Invariant solutions of eikonal equation simulating process of corrosion. (Russian summary) **93f:82036**
Dell'isola, Francesco (*with* Kosiński, Witold) The curved interface with variable thickness. **93d:82060**
Esipov, S. E. (*with* Newman, T. J.) New formulation of restricted growth processes. (English summary) **93k:82044**
Gobron, T. On a discrete model of phase separation dynamics. (English summary) **93i:82052**
Indekeu, J. O. Line tension near the wetting transition: results from an interface displacement model. **93a:82041**
Kosiński, Witold *see* **Dell'isola, Francesco**, **93d:82060**
Krapivskii, P. L. Kinetics of a monomer-monomer model of heterogeneous catalysis. (English summary) **93j:82049**
Lagno, V. I. *see* **Bondar', V. A.; et al.**, **93f:82036**
McKee, Sean *see* **Swailes, David**, **93j:82050**
Mountford, Thomas S. (*with* Sudbury, Aidan) An extension of a result of Grannan and Swindle on the poisoning of catalytic surfaces. **93b:82055**
Newman, T. J. *see* **Esipov, S. E.**, **93k:82044**
Serov, N. I. *see* **Bondar', V. A.; et al.**, **93f:82036**
Sudbury, Aidan *see* **Mountford, Thomas S.**, **93b:82055**
Swailes, David (*with* McKee, Sean) Construction and analysis of some micellization-adsorption models. (English summary) **93j:82050**

Items with secondary classifications in 82C24

Alexander, Francis J. (*with* Cheng, Zheming; Janowsky, Steven A.; Lebowitz, Joel L.) Shock fluctuations in the two-dimensional asymmetric simple exclusion process. (English summary) **93g:82066**
Cheng, Zheming *see* **Alexander, Francis J.; et al.**, **93g:82066**
Couder, Yves Growth patterns: from stable curved fronts to fractal structures. **93m:76030**
Edwards, S. F. Dynamical extensions of the Edwards model. **93g:82054**
— Some new extensions of the Edwards model. **93h:82028**
(Godrèche, C.) *see* **Solids far from equilibrium**, **93g:82042**
Janowsky, Steven A. *see* **Alexander, Francis J.; et al.**, **93g:82066**
Kamchatnov, A. M. Periodic solutions and Whitham equations for the Heisenberg continuous classical spin model. **93g:82006**
Kassner, K. (*with* Misbah, C.) Similarity equation in nonaxisymmetric lamellar eutectic growth. **93b:82084**
Lebowitz, Joel L. *see* **Alexander, Francis J.; et al.**, **93g:82066**
Misbah, C. *see* **Kassner, K.**, **93b:82084**
Owen, Nicholas C. (*with* Sternberg, Peter) Gradient flow and front propagation with boundary contact energy. **93e:82053**
Privman, Vladimir Model of cluster growth and phase separation: exact results in one dimension. (English summary) **93m:82025**
Rica, Sergio (*with* Tirapegui, Enrique) Dynamics of spirals defects in two-dimensional extended systems. (English summary) **93e:76045**
Rubinstein, Jacob (*with* Sternberg, Peter) Nonlocal reaction-diffusion equations and nucleation. **93f:35116**
Sternberg, Peter *see* **Owen, Nicholas C.**, **93e:82053** *and* **Rubinstein, Jacob**, **93f:35116**
Tirapegui, Enrique *see* **Rica, Sergio**, **93e:76045**

Items listed otherwise than by author

Solids far from equilibrium ★ Solids far from equilibrium. **93g:82042**

82C26 Dynamic and nonequilibrium phase transitions (general)

Alt, Hans Wilhelm (*with* Pawlow, Irena) A mathematical model of dynamics of nonisothermal phase separation. (English summary) **93m:82029**
Amellal, A. *see* **Nicolis, G.; et al.**, **93b:82056**
Chang, Chih Chung (*with* Yau, Horng-Tzer) Fluctuations of one-dimensional Ginzburg-Landau models in nonequilibrium. **93g:82069**
Coullet, Pierre (*with* Emilsson, Kjartan Pierre; Plaza, Frédéric) Qualitative theory of defects in nonequilibrium systems. (*see* **93b:00027**)
Dupont, G. *see* **Nicolis, G.; et al.**, **93b:82056**
Emilsson, Kjartan Pierre *see* **Coullet, Pierre; et al.**, **(93b:00027)**
Fujisaka, Hirokazu *see* **Just, Wolfram**, **93g:82070**
Just, Wolfram (*with* Fujisaka, Hirokazu) On the scaling laws of higher-order q-phase transitions. **93g:82070**
Mareschal, M. *see* **Nicolis, G.; et al.**, **93b:82056**
Nicolis, G. (*with* Amellal, A.; Dupont, G.; Mareschal, M.) Nonequilibrium states and long range correlations in chemical dynamics. **93b:82056**
Pawlow, Irena *see* **Alt, Hans Wilhelm**, **93m:82029**
Plaza, Frédéric *see* **Coullet, Pierre; et al.**, **(93b:00027)**
Stoop, R. On hyperbolic elements hiding phase transitions. (English summary) **93k:82045**
Yau, Horng-Tzer *see* **Chang, Chih Chung**, **93g:82069**

Items with secondary classifications in 82C26

Capel, Hans W. *see* **Kluiving, R.; et al.**, **93g:58043**
Kluiving, R. (*with* Capel, Hans W.; Pasmanter, R. A.) Symbolic dynamics of fully developed chaos. III. Infinite-memory sequences and phase transitions. (English summary) **93g:58043**
Lebedev, Vladimir *see* **L'vov, V. S.; et al.**, **93m:81167**
L'vov, V. S. (*with* Lebedev, Vladimir; Paton, Miriam; Procaccia, Itamar) Proof of scale invariant solutions in the Kardar-Parisi-Zhang and Kuramoto-Sivashinksy equations in $1+1$ dimensions: analytical and numerical results. (English summary) **93m:81167**
Pasmanter, R. A. *see* **Kluiving, R.; et al.**, **93g:58043**
Paton, Miriam *see* **L'vov, V. S.; et al.**, **93m:81167**
Procaccia, Itamar *see* **L'vov, V. S.; et al.**, **93m:81167**
Ruelle, Philippe (*with* Sen, Siddhartha[1]) Toppling distributions in one-dimensional abelian sandpiles. (English summary) **93i:82050**
Schonmann, Roberto H. The pattern of escape from metastability of a stochastic Ising model. **93g:82065**
Sen, Siddhartha[1] *see* **Ruelle, Philippe**, **93i:82050**
Zheng, Song Mu Global existence for a thermodynamically consistent model of phase field type. **93a:35091**

82C27 Dynamic critical phenomena

Chalyi, A. V. *see* **Tsekhmister, Ya. V.**, **93j:82052**
Janssen, H. K. On the renormalized field theory of nonlinear critical relaxation. **93c:82037**
Ooguri, Hirosi Partition functions and topology-changing amplitudes in the three-dimensional lattice gravity of Ponzano and Regge. (English summary) **93j:82051**
Tsekhmister, Ya. V. (*with* Chalyi, A. V.) Hopf bifurcation in fluctuation models of self-organization processes. (Russian. English, Russian and Ukrainian summaries) **93j:82052**

Items with secondary classifications in 82C27

Artuso, Roberto (*with* Casati, Giulio; Shepelyanskii, D. L.) Breakdown of universality in renormalization dynamics for critical invariant torus. **93a:58118**
Casati, Giulio *see* **Artuso, Roberto; et al.**, **93a:58118**
Holley, Richard On the asymptotics of the spin-spin autocorrelation function in stochastic Ising models near the critical temperature. **93a:82039**
Katori, Makoto *see* **Konno, Norio**, **93g:82072**
Konno, Norio (*with* Katori, Makoto) Upper bounds for order parameters of a class of attractive nearest-particle systems with finite ranges. **93g:82072**
Lebedev, Vladimir *see* **L'vov, V. S.; et al.**, **93m:81167**
L'vov, V. S. (*with* Lebedev, Vladimir; Paton, Miriam; Procaccia, Itamar) Proof of scale invariant solutions in the Kardar-Parisi-Zhang and Kuramoto-Sivashinksy equations in $1+1$ dimensions: analytical and numerical results. (English summary) **93m:81167**
Neves, E. Jordão (*with* Schonmann, Roberto H.) Behavior of droplets for a class of Glauber dynamics at very low temperature. **93f:82034**
Paton, Miriam *see* **L'vov, V. S.; et al.**, **93m:81167**
Procaccia, Itamar *see* **L'vov, V. S.; et al.**, **93m:81167**
Schonmann, Roberto H. *see* **Neves, E. Jordão**, **93f:82034**
Shcherbina, M. V. The Hopfield model in the multicomponent limit. (Russian) **93c:82043**
Shepelyanskii, D. L. *see* **Artuso, Roberto; et al.**, **93a:58118**

82C28 Dynamic renormalization group methods [see also 81T17]

Chang, Tom Path integrals, differential renormalization-group, and stochastic systems near criticality. (English summary) **93g:82071**

Items with secondary classifications in 82C28

Artuso, Roberto (*with* Casati, Giulio; Shepelyanskii, D. L.) Breakdown of universality in renormalization dynamics for critical invariant torus. **93a:58118**
Barsky, David J. (*with* Grimmett, Geoffrey R.; Newman, Charles M.) Dynamic renormalization and continuity of the percolation transition in orthants. **93a:60155**
Bramson, Maury D. (*with* Gray, Lawrence) A useful renormalization argument. **93d:60162**
Casati, Giulio *see* **Artuso, Roberto; et al.**, **93a:58118**
Entov, V. M. *see* **Ginzburg, I. S.; et al.**, **93c:76075**
Eyink, Gregory L. Lagrangian field theory, multifractals, and universal scaling in turbulence. (English summary) **93k:76059**
Ginzburg, I. S. (*with* Entov, V. M.; Teodorovich, È. V.) The renormalization group method in a problem of convective diffusion with irreversible sorption. (Russian) **93c:76075**
Graham, Robert *see* **Hamm, Andreas**, **93k:58151**
Gray, Lawrence *see* **Bramson, Maury D.**, **93d:60162**

Grimmett, Geoffrey R. *see* **Barsky, David J.; et al., 93a:60155**
Hamm, Andreas (*with* Graham, Robert) Scaling for small random perturbations of golden critical circle maps. (English summary) **93k:58151**
Kosygin, D. V. Multidimensional KAM theory from the renormalization group viewpoint. **93c:58183**
(Nazaikinskii, V. E.) *see* **Kosygin, D. V., 93c:58183**
Newman, Charles M. *see* **Barsky, David J.; et al., 93a:60155**
Shepelyanskii, D. L. *see* **Artuso, Roberto; et al., 93a:58118**
Smith, Leslie M. *see* **Yakhot, Victor, 93c:76054**
Teodorovich, È. V. *see* **Ginzburg, I. S.; et al., 93c:76075**
Yakhot, Victor (*with* Smith, Leslie M.) The renormalization group, the ε-expansion and derivation of turbulence models. **93c:76054**

82C31 Stochastic methods (Fokker-Planck, Langevin, etc.) [see also 60H10]

Barvík, I. *see* **Čápek, V., 93m:82031**
Bedeaux, D. *see* **Mazur, Peter, 93i:82055**
Bianucci, Marco (*with* Bonci, Luca; Trefan, Gyorgy; West, Bruce J.; Grigolini, Paolo) Brownian motion generated by a two-dimensional mapping. (English summary) **93m:82030**
Bonci, Luca *see* **Bianucci, Marco; et al., 93m:82030**
Cao, Li[1] *see* **Ma, Song She; et al., 93c:82038**
Čápek, V. (*with* Barvík, I.) Interpolation between the Grover-Silbey and the generalized stochastic Liouville equation theories. (English summary) **93m:82031**
Cercignani, Carlo (*with* Sgarra, C.) Half-range completeness for the Fokker-Planck equation with an external force. **93a:82042**
Descalzi, O. (*with* Graham, Robert) Gradient expansion of the nonequilibrium potential for the supercritical Ginzburg-Landau equation. (English summary) **93h:82040**
Drummond, I. T. Multiplicative stochastic differential equations with noise-induced transitions. **93d:82061**
Frigerio, Alberto (*with* Grillo, Gabriele) Time-dependent Schrödinger operators and simulated annealing. **93i:82053**
Giona, Massimiliano (*with* Roman, H. Eduardo) Fractional diffusion equation on fractals: one-dimensional case and asymptotic behaviour. **93a:82043**
— *see also* **Roman, H. Eduardo, 93a:82044**
Graham, Robert *see* **Descalzi, O., 93h:82040**
Grigolini, Paolo *see* **Bianucci, Marco; et al., 93m:82030**
Grillo, Gabriele *see* **Frigerio, Alberto, 93i:82053**
Hongler, M.-O. On the diffusion induced by alternating renewal processes. (English summary) **93j:82053**
Igarashi, A. (*with* McClintock, P. V. E.; Stocks, N. G.) Velocity spectrum for non-Markovian Brownian motion in a periodic potential. **93d:82062**
Jumarie, Guy A Fokker-Planck equation of fractional order with respect to time. (English summary) **93j:82054**
van Kampen, N. G. Short first-passage times. (English summary) **93m:82032**
Katori, Makoto *see* **Konno, Norio, 93g:82072**
Konno, Norio (*with* Katori, Makoto) Upper bounds for order parameters of a class of attractive nearest-particle systems with finite ranges. **93g:82072**
Lindblad, Göran Fokker-Planck equations for eigenstate distributions. (English summary) **93i:82054**
Ma, Song She (*with* Wu, Da Jin; Cao, Li[1]) A unified description of internal and external noise in nonlinear models. (Chinese. English summary) **93c:82038**
Mazur, Peter (*with* Bedeaux, D.) Erratum: "Causality, time-reversal invariance and the Langevin equation" [Phys. A **173** (1991), no. 1-2, 155–174; MR 92g:82083]. **93i:82055**
McClintock, P. V. E. *see* **Igarashi, A.; et al., 93d:82062**
Miyazawa, Toru Structure of the reflection coefficient and the eigenvalue problem of the Fokker-Planck equation. **93k:82046**
Piekarski, Sławomir *see* **Trzęsowski, Andrzej, (93a:82002)**
Reichl, L. E. A delta-kicked Brownian rotor. (English summary) **93k:82047**
Ricci, T. F. (*with* Scherer, Claudio) A stochastic model for the dynamics of a classical spin. **93b:82057**
Roman, H. Eduardo (*with* Giona, Massimiliano) Fractional diffusion equation on fractals: three-dimensional case and scattering function. **93a:82044**
— *see also* **Giona, Massimiliano, 93a:82043**
Scherer, Claudio *see* **Ricci, T. F., 93b:82057**
Sgarra, C. *see* **Cercignani, Carlo, 93a:82042**
Stocks, N. G. *see* **Igarashi, A.; et al., 93d:82062**
Streater, Raymond F. The F-theorem for stochastic models. (English summary) **93k:82048**
Trefan, Gyorgy *see* **Bianucci, Marco; et al., 93m:82030**
Trzęsowski, Andrzej (*with* Piekarski, Sławomir) Markov description of irreversible processes and time randomization. (*see* **93a:82002**)
West, Bruce J. *see* **Bianucci, Marco; et al., 93m:82030**
Wu, Da Jin *see* **Ma, Song She; et al., 93c:82038**

Items with secondary classifications in 82C31

Amellal, A. *see* **Nicolis, G.; et al., 93b:82056**
Balabanyan, G. O. Construction of equations for classical equilibrium correlation Green functions on the basis of kinetic equations. II. (Russian. English summary) **93b:82061**
Banach, Zbigniew (*with* Piekarski, Sławomir) The Einstein-Smoluchowski promeasure and the stochastic Boltzmann-Peierls equation. (English summary) **93k:82043**
Bouchut, François Existence and uniqueness of a global smooth solution for the Vlasov-Poisson-Fokker-Planck system in three dimensions. (English summary) **93m:82045**
Bulychev, Yu. G. Methods for the numerical-analytic integration of differential equations. (Russian) **93b:65120**
Calisto, H. (*with* Cerda, E.; Tirapegui, Enrique) Comment on: "Noise and bifurcations" [J. Statist. Phys. **50** (1988), no. 1-2, 345–375; MR 89b:58156] by C. Meunier and A. D. Verga. (English summary) **93j:58095**
Cerda, E. *see* **Calisto, H.; et al., 93j:58095**
Chang, Tom Path integrals, differential renormalization-group, and stochastic systems near criticality. (English summary) **93g:82071**
Cortés, Emilio Extremal trajectories for stochastic equations obtained directly from the Langevin differential operator. II. First integrals. **93c:81092**
Dupont, G. *see* **Nicolis, G.; et al., 93b:82056**
Gong, Guang Lu *see* **Qian, Min Ping; et al., 93a:60108**
Hu, B. L. (*with* Paz, Juan Pablo; Zhang, Yuhong) Quantum Brownian motion in a general environment: exact master equation with nonlocal dissipation and colored noise. **93g:82062**
Inoue, Akihiko *see* **Okabe, Yasunori, 93m:60072**
van Kampen, N. G. How do stochastic processes enter into physics? **93b:82036**
Kusnezov, Dimitri Diffusive aspects of global demons. **93j:82047**
Lasota, Andrzej (*with* Mackey, Michael C.; Tyrcha, Joanna) The statistical dynamics of recurrent biological events. (English summary) **93m:92009**
Lichtenberg, Allan J. The application of mappings to physical systems. **93g:58133**
Mackey, Michael C. *see* **Lasota, Andrzej; et al., 93m:92009**
Malakhov, A. N. Diffusion through steep potential barriers. II. Temporal characteristics of diffusion. (Russian. English summary) **93g:82090**
Mareschal, M. *see* **Nicolis, G.; et al., 93b:82056**
Marra, Rossana Hydrodynamical stochastic formalism and representation formulas. **93a:60090**
(Meunier, C.) *see* **Calisto, H.; et al., 93j:58095**
Neves, E. Jordão (*with* Schonmann, Roberto H.) Behavior of droplets for a class of Glauber dynamics at very low temperature. **93f:82034**
Nicolis, G. (*with* Amellal, A.; Dupont, G.; Mareschal, M.) Nonequilibrium states and long range correlations in chemical dynamics. **93b:82056**
Okabe, Yasunori Langevin equations and causal analysis. (Japanese) **93e:60071**
— (*with* Inoue, Akihiko) On the exponential decay of the correlation functions for KMO-Langevin equations. **93m:60072**
Paz, Juan Pablo *see* **Hu, B. L.; et al., 93g:82062**
Piekarski, Sławomir *see* **Banach, Zbigniew, 93k:82043**
Qian, Min *see* **Qian, Min Ping; et al., 93a:60108**
Qian, Min Ping (*with* Qian, Min; Gong, Guang Lu) The reversibility and the entropy production of Markov processes. **93a:60108**
Rein, Gerhard (*with* Weckler, Jürgen) Generic global classical solutions of the Vlasov-Fokker-Planck-Poisson system in three dimensions. (English summary) **93m:82027**
Roncadelli, Marco Langevin formulation of quantum dynamics. **93b:81036**
Rowlands, George *see* **Yannacopoulos, A. N., 93m:58078**
Ruzmaikin, A. A. *see* **Zel'dovich, Ya. B.; et al., 93b:82001**
Schonmann, Roberto H. The pattern of escape from metastability of a stochastic Ising model. **93g:82065**
— *see also* **Neves, E. Jordão, 93f:82034**
(Shukurov, A. M.) *see* **Zel'dovich, Ya. B.; et al., 93b:82001**
Sokolov, D. D. *see* **Zel'dovich, Ya. B.; et al., 93b:82001**
Spigler, Renato (*with* Zanette, Damián H.) Reaction-diffusion models from the Fokker-Planck formulation of chemical processes. (English summary) **93i:92021**
Tirapegui, Enrique *see* **Calisto, H.; et al., 93j:58095**
Tyrcha, Joanna *see* **Lasota, Andrzej; et al., 93m:92009**
Vanaja, V. Numerical solution of a simple Fokker-Planck equation. **93b:65130**
(Verga, A. D.) *see* **Calisto, H.; et al., 93j:58095**
Weckler, Jürgen *see* **Rein, Gerhard, 93m:82027**
Wedig, Walter V. Lyapunov exponents and invariant measures of equilibria and limit cycles. (English summary) **93k:58139**
Yannacopoulos, A. N. (*with* Rowlands, George) Calculation of diffusion coefficients for chaotic maps. (English summary) **93m:58078**
Zanette, Damián H. *see* **Spigler, Renato, 93i:92021**
Zel'dovich, Ya. B. (*with* Ruzmaikin, A. A.; Sokolov, D. D.) ★ The almighty chance. **93b:82001**
Zhang, Yuhong *see* **Hu, B. L.; et al., 93g:82062**

82C32 Neural nets [see also 68T05, 92B20, 92J40]

de Almeida, R. M. C. *see* **Arenzon, J. J.; et al., 93g:82073**
Apolloni, Bruno (*with* de Falco, Diego) Probabilistic aspects of machine learning. **93a:82045**
Arenzon, J. J. (*with* de Almeida, R. M. C.; Iglesias, J. R.) A multineuron interaction model for neural networks. (English summary) **93g:82073**
Bassias, K. V. (*with* Frank, B.) The Hopfield model as the minimum noise model for neurons with variable firing strength. (English summary)
Blanchard, Philippe (*with* Combe, Ph.; Nencka, H.; Rodriguez, Roger) Stochastic dynamical models for synaptic connections. (English summary) **93h:82041**
Boccara, N. (*with* Roger, M.) Period-doubling route to chaos for a global variable of a probabilistic automata network. (English summary)
Bollé, D. (*with* Dupont, Patrick Jean; Vinck, B.) On the overlap dynamics of multi-state neural networks with a finite number of patterns. **93h:82042**
— (*with* Vinck, B.; Zagrebnov, V. A.) On the parallel dynamics of the Q-state Potts and Q-Ising neural networks. (English summary) **93j:82055**
Bös, S. *see* **Kühn, Reimer**
Bovier, Anton (*with* Gayrard, Véronique) Rigorous bounds on the storage capacity of the dilute Hopfield model. (English summary) **93k:82049**
Brunel, N. (*with* Nadal, J.-P.; Toulouse, G.) Information capacity of a perceptron. (English summary)
Campbell, Bruce W. *see* **Franceschetti, Donald R.; et al.**
Campbell, Ian Colin Grant *see* **Wong, K. Y. M., 93b:82058**
Combe, Ph. *see* **Blanchard, Philippe; et al., 93h:82041**
Coolen, A. C. C. (*with* Lenders, L. G. V. M.) Dual processes in neural network models. I. Neural dynamics versus dynamics of learning. **93f:82037a**
— (*with* Lenders, L. G. V. M.) Dual processes in neural network models. II. Analysis of zero-temperature fixed-point equations. **93f:82037b**

Dasgupta, Chandan Neural network modeling of associative memory: beyond the Hopfield model. (English summary) **93f:82038**
Der, R. (*with* Dotsenko, Vladimir S.; Tirozzi, Brunello) Modified pseudo-inverse neural networks storing correlated patterns. **93h:82043**
Dotsenko, Vladimir S. *see* **Der, R.; et al., 93h:82043**
Dupont, Patrick Jean *see* **Bollé, D.; et al., 93h:82042**
Engel, Andreas *see* **Reimers, L.**
de Falco, Diego *see* **Apolloni, Bruno, 93a:82045**
Ferrari, Pablo Augusto (*with* Martínez, Servet A.; Picco, Pierre) A lower bound for the memory capacity in the Potts-Hopfield model. **93d:82063**
Franceschetti, Donald R. (*with* Jones, D. Wayne; Campbell, Bruce W.; Hanneken, John W.) Hamming sets, Ising sets, cellular automata, neural nets, and the random walk. (English summary)
Frank, B. *see* **Bassias, K. V.**
Fukai, T. (*with* Shiino, M.) Comparative study of spurious-state distribution in analogous neural networks and the Boltzmann machine. **93g:82074**
Gayrard, Véronique Thermodynamic limit of the q-state Potts-Hopfield model with infinitely many patterns. (English summary) **93g:82075**
— *see also* **Bovier, Anton, 93k:82049**
Geszti, Tamás Hydrodynamics of learning vector quantization. **93c:82039**
Hanneken, John W. *see* **Franceschetti, Donald R.; et al.**
Iglesias, J. R. *see* **Arenzon, J. J.; et al., 93g:82073**
Jones, D. Wayne *see* **Franceschetti, Donald R.; et al.**
Koch, Hans A scaling limit of the Glauber dynamics for a class of neural network models. **93c:82040**
Kühn, Reimer (*with* Bös, S.) Statistical mechanics for neural networks with continuous-time dynamics. (English summary)
Lenders, L. G. V. M. *see* **Coolen, A. C. C., 93f:82037a** *and* **93f:82037b**
Liao, Shi Xiang (*with* Luo, Liao Fu) A spin-glass model for asymmetrical neural networks and its transition temperature. (Chinese. English and Chinese summaries)
Linkevich, A. D. A sequential pseudo-inverse learning rule for networks of formal neurons. (English summary) **93f:82039**
Luo, Liao Fu *see* **Liao, Shi Xiang**
Maes, Christian An invitation to probabilistic cellular automata. (English summary) **93k:82050**
Martínez, Servet A. *see* **Ferrari, Pablo Augusto; et al., 93d:82063**
Nadal, J.-P. *see* **Brunel, N.; et al.**
Nencka, H. *see* **Blanchard, Philippe; et al., 93h:82041**
de Oliveira, P. M. C. *see* **Penna, T. J. P.**
Pázmándi, F. Learning dynamics: a replica approach. (English summary) **93h:82044**
Penna, T. J. P. (*with* de Oliveira, P. M. C.) Culture and evolution on populations of neural networks. (English summary)
Picco, Pierre *see* **Ferrari, Pablo Augusto; et al., 93d:82063**
Pires Idiart, M. A. (*with* Theumann, Alba) The space of interactions in neural networks with hierarchical cluster organization. (English summary) **93i:82056**
Radons, G. (*with* Schuster, H. G.; Werner, D.) Fractal measures and diffusion as results of learning in neural networks. (English summary) **93m:82033**
Reimers, L. (*with* Engel, Andreas) Generalization from educated teachers. (English summary)
Rodriguez, Roger *see* **Blanchard, Philippe; et al., 93h:82041**
Roger, M. *see* **Boccara, N.**
Sakaguchi, Hidetsugu Learning rules for an oscillator network. (English summary) **93m:82034**
Scacciatelli, E. (*with* Tirozzi, Brunello) Fluctuation of the free energy in the Hopfield model. **93c:82041**
Schuster, H. G. *see* **Radons, G.; et al., 93m:82033**
Seung, H. S. (*with* Sompolinsky, H.; Tishby, N.) Statistical mechanics of learning from examples. **93c:82042**
Shcherbina, M. V. The Hopfield model in the multicomponent limit. (Russian) **93c:82043**
Shiino, M. *see* **Fukai, T., 93g:82074**
Sompolinsky, H. *see* **Seung, H. S.; et al., 93c:82042**
Theumann, Alba *see* **Pires Idiart, M. A., 93i:82056**
Tirozzi, Brunello *see* **Scacciatelli, E., 93c:82041** *and* **Der, R.; et al., 93h:82043**
Tishby, N. *see* **Seung, H. S.; et al., 93c:82042**
Toulouse, G. *see* **Brunel, N.; et al.**
Vermet, Franck Convergence de la variance de l'énergie libre pour le modèle de Hopfield. (English and French summaries) [Convergence of the variance of the free energy in the Hopfield model] **93h:82045**
Vinck, B. *see* **Bollé, D.; et al., 93h:82042** *and* **93j:82055**
Vogt, H. (*with* Zippelius, A.) Invariant recognition in Potts glass neural networks. **93c:82044**
Werner, D. *see* **Radons, G.; et al., 93m:82033**
Wong, K. Y. M. (*with* Campbell, Ian Colin Grant) Competitive attraction in neural networks with sign-constrained weights. **93b:82058**
Zagrebnov, V. A. *see* **Bollé, D.; et al., 93j:82055**
Zippelius, A. *see* **Vogt, H., 93c:82044**

Items with secondary classifications in 82C32

Baldi, Pierre *see* **Venkatesh, Santosh S., 93a:68123**
Bressloff, Paul C. (*with* Taylor, John G.) Temporal sequence storage capacity of time-summating neural networks. **93f:92005**
— (*with* Taylor, John G.) Perceptron-like learning in time-summating neural networks. (English summary) **93h:92005**
Bruschi, M. (*with* Santini, Paolo Maria; Ragnisco, Orlando) Integrable cellular automata. (English summary) **93f:58122**
Caticha, Nestor *see* **Kinouchi, Osame**
Ciliz, M. Kemal Equilibrium point basins of analog neural networks. (English summary) **93i:92005**
Esposito, Raffaele Kinetic and hydrodynamical limits for cellular automata. (English summary) (*see* **93g:81002**)
Ferrari, Pablo Augusto Microscopic shocks in one-dimensional driven systems. (French summary) **93e:82032**
— (*with* Ravishankar, Krishnamurthi) Shocks in asymmetric exclusion automata. (English summary) **93k:60235**
Fleischmann, Klaus (*with* Greven, Andreas) Localization and selection in a mean field branching random walk in a random environment. (English summary) **93k:60236**
Fukai, T. (*with* Shiino, M.) Study of self-inhibited analogue neural networks using the self-consistent signal-to-noise analysis. (English summary) **93g:92004**
Greven, Andreas *see* **Fleischmann, Klaus, 93k:60236**
Hirsch, Morris W. Dynamics and neural networks. **93j:92004**
Hoppensteadt, F. C. Signal processing by model neural networks. (English summary)
Jen, Erica Aperiodicity in one-dimensional cellular automata. **93d:68052**
Kinouchi, Osame (*with* Caticha, Nestor) Optimal generalization in perceptrons. (English summary)
Kumar, Satish (*with* Satsangi, Prem S.) System dynamics simulation of Hopfield neural networks. (English summary)
Murthy, G. *see* **Zhuo, J.; et al.**
Parisi, Giorgio On the classification of learning machines. (English summary) **93g:68113**
Peretto, Pierre ★ An introduction to the modeling of neural networks. **93m:92006**
Ragnisco, Orlando *see* **Bruschi, M.; et al., 93f:58122**
Ravishankar, Krishnamurthi *see* **Ferrari, Pablo Augusto, 93k:60235**
Redner, S. *see* **Zhuo, J.; et al.**
Santini, Paolo Maria *see* **Bruschi, M.; et al., 93f:58122**
Satsangi, Prem S. *see* **Kumar, Satish**
Shiino, M. *see* **Fukai, T., 93g:92004**
Taylor, John G. *see* **Bressloff, Paul C., 93f:92005** *and* **93h:92005**
Tsai, Jyun-Hwei *see* **Wu, Chwan-Hwa, (93g:65178)**
Venkatesh, Santosh S. (*with* Baldi, Pierre) Programmed interactions in higher-order neural networks: the outer-product algorithm. **93a:68123**
Wu, Chwan-Hwa (*with* Tsai, Jyun-Hwei) An asynchronous relaxation method for the parallel simulation of the learning of recurrent neural networks. (English summary) (*see* **93g:65178**)
Zhuo, J. (*with* Murthy, G.; Redner, S.) Dynamics and spatial organization in two-species competition. (English summary)

82C35 Irreversible thermodynamics, including Onsager-Machlup theory

Arimitsu, Toshihico *see* **Saito, Takesi, 93h:82046**
Cortés, Emilio On extremal paths for stochastic processes that involve step potentials and the generalized Hamilton-Jacobi equation. **93d:82064**
García-Colín, L. S. *see* **Velasco, R. M., 93i:82059**
Hanggi, Peter (*with* Jung, Peter; Zerbe, Christine; Moss, Frank) Can colored noise improve stochastic resonance? (English summary)
Ichiyanagi, Masakazu A projection operator approach to extended irreversible thermodynamics. **93b:82059**
Jung, Peter *see* **Hanggi, Peter; et al.**
Kawakatsu, Toshihiro *see* **Kawasaki, Kyozi, 93i:82057**
Kawasaki, Kyozi (*with* Kawakatsu, Toshihiro) Projector formalism of generalized Brownian motion theory applied to dissipative and noisy systems. **93i:82057**
Lee, Jing-Yee (*with* Tasaki, S.) Poincaré's theorem and subdynamics for driven systems. **93g:82076**
Moss, Frank *see* **Hanggi, Peter; et al.**
Pavon, Michele On Lyapunov functionals, and stochastic variational principles in nonequilibrium thermodynamics. (English summary) **93k:82051**
Piekarski, Sławomir *see* **Trzęsowski, Andrzej, 93m:82035**
Polovinkin, A. V. The reciprocity relation of solutions of the Einstein-Fokker-Planck equation. (Russian. English and Russian summaries) **93i:82058**
Rudakov, E. S. Entropy and interaction. (Russian)
Saito, Takesi (*with* Arimitsu, Toshihico) Quantum stochastic Heisenberg equation. (English summary) **93h:82046**
Sen, Surajit Aspects of nonergodicity in Hermitian systems. (English summary) **93j:82056**
Sewell, Geoffrey L. Nonequilibrium statistical mechanics: dynamics of macroscopic observables. (English summary) **93g:82077**
Tasaki, S. *see* **Lee, Jing-Yee, 93g:82076**
Trzęsowski, Andrzej (*with* Piekarski, Sławomir) Markovian description of irreversible processes and the time randomization. (English summary) **93m:82035**
Tzanakis, C. Kinetic theory in the weak-coupling approximation. III. Classical systems: extensions of the theory and further applications. **93f:82040**
Ulmer, W. Solution spectrum of nonlinear diffusion equations. (English summary) **93h:82047**
Velasco, R. M. (*with* García-Colín, L. S.) The kinetic foundations of extended irreversible thermodynamics revisited. (English summary) **93i:82059**
Zerbe, Christine *see* **Hanggi, Peter; et al.**

Items with secondary classifications in 82C35

Anile, A. M. (*with* Pennisi, Sebastiano) Extended thermodynamics of the Blotekjaer hydrodynamical model for semiconductors. (English summary) **93h:82068**
Chakrabarti, C. G. (*with* Ghosh, Sutapa) On entropy, H-theorem and statistical equilibrium. (English summary) **93j:82038**
— *see also* **Ghosh, Sutapa**
Chalyi, A. V. *see* **Tsekhmister, Ya. V., 93j:82052**
Christov, Christo Ivanov *see* **Markov, Konstantin Z., 93h:82070**
Demetrius, Lloyd The thermodynamics of evolution. (English summary) **93j:92021**
Ghosh, Sutapa (*with* Chakrabarti, C. G.) Stability of two competing species: thermodynamic approach. (English summary)
— *see also* **Chakrabarti, C. G., 93j:82038**
Habib, Salman (*with* Kandrup, Henry E.) Nonlinear noise in cosmology. (English summary) **93h:83037**
Helleman, Robert H. G. Chaos toys. **93d:58098**

Kandrup, Henry E. *see* **Habib, Salman, 93h:83037**
Markov, Konstantin Z. (*with* Christov, Christo Ivanov) On the problem of heat conduction for random dispersions of spheres allowed to overlap. (English summary) **93h:82070**
Osterle, Fletcher On the relationship between Lorentz's theorem for viscous flow and Onsager's reciprocal theorem. (English summary) **93g:76047**
Pennisi, Sebastiano *see* **Anile, A. M., 93h:82068**
Suchanecki, Zdzisław Entropy and asymptotic stability of stochastic operators. **93c:47010**
Tsekhmister, Ya. V. (*with* Chalyi, A. V.) Hopf bifurcation in fluctuation models of self-organization processes. (Russian. English, Russian and Ukrainian summaries) **93j:82052**

82C40 Kinetic theory of gases

Arkeryd, Leif On stability and long term behaviour for rarefied gases. (English summary) (*see* **93g:00030**)
— On the strong L^1 trend to equilibrium for the Boltzmann equation. (English summary) **93h:82048**
Arlotti, Luisa (*with* Frosali, Giovanni) Runaway particles for a Boltzmann-like transport equation. **93g:82078**
Babovsky, Hans (*with* Padula, Mariarosaria) A new contribution to nonlinear stability of a discrete velocity model. **93b:82060**
— Efficient treatment of collisions in simulation codes for heavy-ion reactions. (English summary)
Balabanyan, G. O. Construction of equations for classical equilibrium correlation Green functions on the basis of kinetic equations. II. (Russian. English summary) **93b:82061**
Baumann, Gerd (*with* Grmela, Miroslav; Nonnenmacher, Theo F.) Discrete Boltzmann-like equations: a dynamical formulation. (English summary) **93g:82079**
van Beijeren, H. *see* **Bławzdziewicz, J.; et al., 93b:82062**
Belleni-Morante, Aldo A mathematical model for particle transport with mollified boundary conditions. **93c:82045**
Bellomo, N. (*with* Longo, E.) Shock wave profiles in one dimension by the discrete Boltzmann equation with multiple collisions. (English summary) (*see* **93g:00030**)
— *see also* **Bonzani, I., 93e:82037**
Benassi, Albert (*with* Fouque, Jean-Pierre; Saada, E.; Vares, M. E.) Asymmetric attractive particle systems on Z: hydrodynamic limit for monotone initial profiles. **93d:82065**
Benzi, R. *see* **Succi, S.; et al., (93f:82001)**
Bernardin, D. (*with* Séro-Guillaume, O. E.; Sun, C. H.) Thermal conduction in 2D-lattice gases. (English summary) **93g:82080**
Bławzdziewicz, J. (*with* Cichocki, B.; van Beijeren, H.) H-theorem for a linear kinetic theory. **93b:82062**
Bobylëv, A. V. (*with* Toscani, G.) On the generalization of the Boltzmann H-theorem for a spatially homogeneous Maxwell gas. **93c:82046**
Bogdanov, A. V. (*with* Shapiro, D. A.) On the Kramers problem in the kinetic theory of a molecular gas. (Russian) **93e:82036**
Bonzani, I. (*with* Bellomo, N.) Mathematical aspects of nonlinear shock waves propagation by the discrete Boltzmann equation. **93e:82037**
Borgioli, G. (*with* Monaco, Roberto; Toscani, G.) The semidiscrete Enskog equation. (*see* **93g:00030**)
Cabannes, Henri On the initial value problem in discrete kinetic theory. (English summary) **93m:82036a**
— Global solution of the discrete Boltzmann equation with multiple collisions. (English summary) **93g:82081**
— Solution of a discrete Boltzmann equation with triple collisions, for partially negative initial data. (English summary) **93m:82036b**
Caglioti, E. (*with* Lions, Pierre-Louis; Marchioro, Carlo; Pulvirenti, Mario) A special class of stationary flows for two-dimensional Euler equations: a statistical mechanics description. **93i:82060**
Carlen, Eric A. (*with* Carvalho, Maria Conceicaõ V.) Strict entropy production bounds and stability of the rate of convergence to equilibrium for the Boltzmann equation. **93h:82049**
Carvalho, Maria Conceicaõ V. *see* **Carlen, Eric A., 93h:82049**
Cercignani, Carlo Boundary value problems in discrete kinetic theory. (Italian) **93e:82038**
— The trend to equilibrium in discrete and continuous kinetic theory: a comparison. (English summary) **93j:82057**
— Measure solutions of the steady Boltzmann equation in a slab. (English summary) **93j:82058**
Chauvat, Philippe (*with* Gatignol, Renée) Macroscopic variables in discrete kinetic theory. (English summary) **93j:82059**
— (*with* Gatignol, Renée) Euler and Navier-Stokes description for a class of discrete models of gases with different moduli. (English summary) **93m:82037**
Chvála, František On the linear Boltzmann kinetic equation involving external forces. **93c:82047**
— Corrigenda: "On the linear Boltzmann kinetic equation involving external forces" [Acta Tech. ČSAV **36** (1991), no. 2, 231–253; MR 93b:82047]. **93c:82048**
— Spatially homogeneous linear Boltzmann equation with external forces in Lebesgue spaces involving exponential weights. (English summary) **93i:82061**
Cichocki, B. *see* **Bławzdziewicz, J.; et al., 93b:82062**
Cohen, E. G. D. Kinetic theory: understanding nature through collisions. (English summary)
Cornille, Henri Shock waves for the two speeds $8v_i$, $14v_i$ and $24v_i$ discrete Boltzmann models with temperature. (English summary) **93j:82060**
— Exact periodic solutions for a class of multispeed discrete Boltzmann models. (English summary) (*see* **93e:00025**)
— $(1+1)$-dimensional hierarchies of multispeed discrete Boltzmann model equations. **93a:82046**
— Exact $(1+1)$-dimensional solutions to the multispeed discrete Boltzmann models. (English summary) **93h:82050**
— (*with* Platkowski, Tadeusz) Exact solutions of a hierarchy of mixing speeds models. **93g:82082**
Costantini, Cristina (*with* Marra, Rossana) Hydrodynamic limits for the Boltzmann process. **93c:82049**
Curtiss, C. F. Bound-state effects on the classical Boltzmann equation. **93c:82050**
Degond, Pierre (*with* Lucquin-Desreux, B.) The Fokker-Planck asymptotics of the Boltzmann collision operator in the Coulomb case. **93g:82083**
Desvillettes, L. On asymptotics of the Boltzmann equation when the collisions become grazing. **93h:82051**
Dmitruk, Pablo (*with* Saúl, Andrés; Reyna, Luis G.) High electric field approximation to charge transport in semiconductor devices. **93f:82041**
Dubovskiĭ, P. B. (*with* Galkin, V. A.; Stewart, I. W.) Exact solutions for the coagulation-fragmentation equation. (English summary) **93h:82052**
Dudyński, Marek (*with* Ekiel-Jeżewska, Maria L.) Global existence proof for relativistic Boltzmann equation. **93b:82064**
Ekiel-Jeżewska, Maria L. *see* **Dudyński, Marek, 93b:82064**
Ènder, A. Ya. *see* **Kolyshkin, I. N.; et al.**
Ènder, I. A. *see* **Kolyshkin, I. N.; et al.**
Esposito, Raffaele Kinetic and hydrodynamical limits for cellular automata. (English summary) (*see* **93g:81002**)
Eu, Byung Chan (*with* Mao, Kefei) Note on the kinetic theory approach to irreversible thermodynamics of radiation and matter. **93e:82039**
Ferland, René Fluctuations pour des équations de Boltzmann scalaires. [Fluctuations for scalar Boltzmann equations] **93d:82066**
Fouque, Jean-Pierre *see* **Benassi, Albert; et al., 93d:82065**
Fritz, J. Derivation of hydrodynamic equations from microscopic principles. **93d:82067**
Frosali, Giovanni *see* **Arlotti, Luisa, 93g:82078**
Gabetta, Ester Probabilistic aspects of the relationships between the discrete kinetic theory and lattice model. (Italian summary) **93a:82047**
— (*with* Monaco, Roberto) The discrete Boltzmann equation for gases with bi-molecular chemical reactions. (English summary) **93k:82052**
— On a Broadwell-like lattice in a box. (English summary) (*see* **93f:82001**)
Galkin, V. A. *see* **Dubovskiĭ, P. B.; et al., 93h:82052**
Ganapol, B. D. (*with* Spiga, Giampiero; Zanette, Damián H.) An accurate evaluation of the distribution functions of nonlinear extended kinetic theory. **93f:82042**
Gatignol, Renée *see* **Chauvat, Philippe, 93j:82059** *and* **93m:82037**
Gerasimenko, V. I. (*with* Gorunovich, V. V.) Bogolyubov equations for a discrete model of a one-dimensional system of particles. (Russian. English summary) **93a:82048**
— Solutions of Bogolyubov equations for a one-dimensional system of elastic balls. (Russian. English and Russian summaries) **93h:82053**
Golse, François (*with* Poupaud, Frédéric) Limite fluide des équations de Boltzmann des semi-conducteurs pour une statistique de Fermi-Dirac. (French summary) [Fluid limit of Boltzmann semiconductor equations for a Fermi-Dirac statistic] **93m:82038**
— Incompressible hydrodynamics as a limit of the Boltzmann equation. (English summary) **93m:82039**
Gorban', A. N. (*with* Karlin, I. V.) Thermodynamic parameterization. (English summary) **93m:82040**
Gorunovich, V. V. *see* **Gerasimenko, V. I., 93a:82048**
Greenberg, J. M. Exponential decay theorems for the four velocity Broadwell equations. (English summary) **93m:82041**
Grigor'ev, Yu. N. (*with* Meleshko, S. V.) Group-theoretic analysis of some kinetic equations. (Russian) **93h:82054**
Grmela, Miroslav *see* **Baumann, Gerd; et al., 93g:82079**
Gropengiesser, F. *see* **Neunzert, H.; et al., 93b:82066**
Ianiro, N. (*with* Triolo, L.) Initial-boundary value problem for a model Boltzmann equation. (English summary) **93h:82055**
Illner, Reinhard Solutions of the steady Boltzmann equation in a slab: applied problems, pure results. (English summary) (*see* **93f:82001**)
Kainz, A. J. (*with* Titulaer, U. M.) The structure of the stationary kinetic boundary layer for the linear BGK equation. **93b:82065**
— (*with* Titulaer, U. M.) An accurate two-stream moment method for kinetic boundary layer problems of linear kinetic equations. **93d:82068**
Karlin, I. V. Simplest nonlinear regularization. **93d:82069**
— *see also* **Gorban', A. N., 93m:82040**
Kawashima, Shuichi Asymptotic behavior of solutions to the discrete Boltzmann equation. **93k:82053**
— Exponential stability of stationary solutions to the discrete Boltzmann equation in a bounded domain. **93g:82084**
Kolyshkin, I. N. (*with* Ènder, A. Ya.; Ènder, I. A.) Anisotropic solutions of the Boltzmann equation. (Russian. Russian summary)
Latyshev, A. V. Analytic solution of the ellipsoidal-statistical model Boltzmann equation. (Russian. Russian summary) **93k:82054**
— (*with* Yushkanov, A. A.) Analytic solution of inhomogeneous linear kinetic equations in a second-order heat slip problem. (Russian. English and Russian summaries) **93h:82056**
Lions, Pierre-Louis On kinetic equations. **93c:82051**
— *see also* **Caglioti, E.; et al., 93i:82060**
Longo, E. *see* **Bellomo, N., (93g:00030)**
Lucquin-Desreux, B. *see* **Degond, Pierre, 93g:82083**
Malvagi, F. (*with* Sammartino, Marco; Pomraning, Gerald C.) Asymptotically exact diffusive boundary conditions in linear kinetic theory. **93f:82043**
Mao, Kefei *see* **Eu, Byung Chan, 93e:82039**
Marchioro, Carlo *see* **Caglioti, E.; et al., 93i:82060**
Marra, Rossana Hydrodynamical behavior of a test particle of the Boltzmann gas. (English summary) (*see* **93g:81002**)
— *see also* **Costantini, Cristina, 93c:82049**
McCourt, F. R. W. Status of kinetic theory. **93c:82052**
Meleshko, S. V. *see* **Grigor'ev, Yu. N., 93h:82054**
Monaco, Roberto *see* **Gabetta, Ester, 93k:82052** *and* **Borgioli, G.; et al., (93g:00030)**
Neunzert, H. (*with* Gropengiesser, F.; Struckmeier, J.) Computational methods for the Boltzmann equation. **93b:82066**
Nonnenmacher, Theo F. *see* **Baumann, Gerd; et al., 93g:82079**
Nurlybaev, N. A. Discrete velocity method in the theory of kinetic equations. (English summary) **93j:82061**
Padula, Mariarosaria Nonlinear stability results for a discrete velocity model of a gas in a slab. (*see* **93g:00030**)

— *see also* **Babovsky, Hans**, **93b:82060**
Palczewski, Andrzej (*with* Wennberg, Bernt) The Boltzmann equation with a source term—global solution for weakly inhomogeneous data. **93c:82053**
Pettersson, Rolf On the linear Boltzmann equation with sources, external forces, boundary conditions and infinite range collisions. **93a:82049**
Pfirsch, D. *see* **Stevens, D. C.; et al., 93f:82045**
Piechór, Kazimierz The shock-wave structure by a four-velocity model of the Uehling-Uhlenbeck equations. **93b:82067**
Piekarski, Sławomir Extended field theory of a rigid conductor of heat versus hydrodynamics of a phonon gas. Hilbert iteration. **93b:82068**
Płatkowski, Tadeusz On a boundary value problem for the Carleman model of the Boltzmann equation. (English summary) (*see* **93f:82001**)
— Exact solutions of boundary value problems for two-velocity models of the Boltzmann equation. (English, Russian and Polish summaries) **93j:82062**
— *see also* **Spiga, Giampiero, 93f:82044** *and* **Cornille, Henri, 93g:82082**
Pomraning, Gerald C. *see* **Malvagi, F.; et al., 93f:82043**
Popyrin, S. L. Some stochastic models of a moderately dense gas. (Russian. English summary) **93b:82063**
Poupaud, Frédéric *see* **Golse, François, 93m:82038**
Preziosi, Luigi Thermal creep problems by the discrete Boltzmann equation. **93g:82085**
Pulvirenti, Ada Global solutions to the initial-boundary value problem for the discrete Boltzmann equation. **93b:82069**
Pulvirenti, Mario *see* **Caglioti, E.; et al., 93i:82060**
Reyna, Luis G. *see* **Dmitruk, Pablo; et al., 93f:82041**
Roux, Jean-Noël Brownian particles at different times scales: a new derivation of the Smoluchowski equation. (English summary) **93h:82057**
Saada, E. *see* **Benassi, Albert; et al., 93d:82065**
Sakabekov, A. Justification of a variational principle for a system of Boltzmann moment equations in the first approximation. (Russian. Kazakh summary) **93h:82058**
— An initial value problem for a system of Boltzmann moment equations. (Russian. English and Kazakh summaries) **93i:82062**
— Weak convergence of solutions of a system of Boltzmann moment equations. (Russian) **93e:82040**
Sammartino, Marco *see* **Malvagi, F.; et al., 93f:82043**
Saúl, Andrés *see* **Dmitruk, Pablo; et al., 93f:82041**
Schaler, M. *see* **Schürrer, F., 93c:82054**
Schürrer, F. (*with* Schaler, M.) Exact solutions of the Boltzmann equation in the VHP model with removal interaction. **93c:82054**
Séro-Guillaume, O. E. *see* **Bernardin, D.; et al., 93g:82080**
Shapiro, D. A. *see* **Bogdanov, A. V., 93e:82036**
Slemrod, M. Long time behavior of initial-boundary value problems for a discrete velocity Boltzmann equation. (*see* **93g:00030**)
Spiga, Giampiero (*with* Platkowski, Tadeusz) Exact solutions of stationary problems in discrete extended kinetic theory. II. (Italian summary) **93f:82044**
— *see also* **Ganapol, B. D.; et al., 93f:82042**
Standish, Russell K. On the spectrum of the linear Boltzmann operator. **93d:82070**
Stevens, D. C. (*with* Weitzner, H.; Pfirsch, D.) Moment series expansions for a model kinetic equation. (English summary) **93f:82045**
Stewart, I. W. *see* **Dubovskii, P. B.; et al., 93h:82052**
Struckmeier, J. *see* **Neunzert, H.; et al., 93b:82066**
Succi, S. (*with* Benzi, R.; Vergassola, M.) Recent advances in the theory of the lattice Boltzmann equation. (English summary) (*see* **93f:82001**)
Sun, C. H. *see* **Bernardin, D.; et al., 93g:82080**
Titulaer, U. M. *see* **Kainz, A. J., 93b:82065** *and* **93d:82068**
Toscani, G. On the discrete Boltzmann equation with multiple collisions. **93c:82055**
— (*with* Waluś, W.) Recent results on the fractional step method in discrete kinetic theory. (English summary) (*see* **93f:82001**)
— Existence results for some nonlinear hyperbolic systems from kinetic theory of gases. (*see* **93d:35003**)
— Lyapunov functionals for a Maxwell gas. (English summary) **93h:82059**
— New a priori estimates for the spatially homogeneous Boltzmann equation. **93f:82046**
— Convergence towards equilibrium for a gas of Maxwellian pseudomolecules. **93f:82047**
— *see also* **Bobylëv, A. V., 93c:82046** *and* **Borgioli, G.; et al., (93g:00030)**
Triolo, L. *see* **Ianiro, N., 93h:82055**
Ukai, Seiji Stationary solutions of the BGK model equation on a finite interval with large boundary data. (English summary) **93k:82055**
Vares, M. E. *see* **Benassi, Albert; et al., 93d:82065**
Vergassola, M. *see* **Succi, S.; et al., (93f:82001)**
Waluś, W. *see* **Toscani, G., (93f:82001)**
Weitzner, H. *see* **Stevens, D. C.; et al., 93f:82045**
Wennberg, Bernt On an entropy dissipation inequality for the Boltzmann equation. (English and French summaries) **93j:82063**
— *see also* **Palczewski, Andrzej, 93c:82053**
Wiesen, Bernd On a phenomenological generalized Boltzmann equation. **93c:82056**
Xin, Zhou Ping The fluid-dynamic limit of the Broadwell equation. **93b:82070**
Yamazaki, Mitsuru Étude de l'équation de Boltzmann pour les modèles discrets dans un tube mince infini. [Study of the Boltzmann equation for discrete models in an infinite thin tube] **93j:82064**
Yang, Bo Jun (*with* Yao, Shu Guang) Quantum kinetic equation of a Bose gas. **93a:82050**
Yao, Shu Guang *see* **Yang, Bo Jun, 93a:82050**
Yushkanov, A. A. *see* **Latyshev, A. V., 93h:82056**
Zanette, Damián H. Reducibility of a class of nonlinear kinetic integral equations. (English summary)
— *see also* **Ganapol, B. D.; et al., 93f:82042**

Items with secondary classifications in 82C40

Amirov, A. Kh. (*with* Ègamov, B. N.) On the existence and uniqueness of the solution of an inverse problem for a kinetic equation. (Russian. Russian summary) **93k:35268**
Anikonov, Yu. E. New methods and results in multidimensional inverse problems for kinetic equations. (*see* **93m:00041**)
Bardos, Claude (*with* Ukai, Seiji) The classical incompressible Navier-Stokes limit of the Boltzmann equation. **93a:76023**
van Beijeren, H. (*with* Ernst, M. H.) Diffusion in Lorentz lattice gas automata with backscattering. (English summary) **93k:82041**
Bishaev, A. M. (*with* Rykov, V. A.) Variational principles for the linear Boltzmann equation. (Russian. Russian summary) **93j:49046**
Bleher, Pavel M. Statistical properties of two-dimensional periodic Lorentz gas with infinite horizon. **93b:82052**
Börgers, Christoph (*with* Greengard, Claude; Thomann, Enrique) The diffusion limit of free molecular flow in thin plane channels. **93g:76101**
Botvich, D. D. (*with* Malyshev, V. A.; Manita, A. D.) Translation invariant quantum master equation. **93b:82042**
Bunimovich, L. A. Phase transitions in Lorentz-type gases. **93d:82057**
Coquel, F. (*with* Rogier, François; Schneider, Jacques) A deterministic method for solving the homogeneous Boltzmann equation. (French. English and French summaries) **93k:76099**
Delaurens, F. (*with* Mustieles Moreno, Francisco-José) A deterministic particle method for solving kinetic transport equations: the semiconductor Boltzmann equation case. **93k:65008**
De Masi, Anna (*with* Presutti, Errico) ★ Mathematical methods for hydrodynamic limits. **93k:60234**
Denisov, A. M. (*with* Tuĭkina, S. R.) Uniqueness of the solution of some inverse problems in sorption dynamics for a model with mixed-diffusion kinetics. (Russian. Russian summary) **93h:35207**
Dolgosheina, E. B. (*with* Latyshev, A. V.; Yushkanov, A. A.) Exact solutions of model BGK Boltzmann equation in temperature jump and weak evaporation problems. (Russian. Russian summary) **93h:76065**
Ègamov, B. N. *see* **Amirov, A. Kh., 93k:35268**
Ekiel-Jeżewska, Maria L. (*with* Turski, L. A.) Relativistic hydrodynamics. **93e:76070**
Ernst, M. H. *see* **van Beijeren, H., 93k:82041**
Funaki, Tadahisa Hydrodynamic limit for Ginzburg-Landau type continuum model. **93f:60094**
Gabetta, Ester Some remarks on a spatial lattice model. (English summary) (*see* **93g:00030**)
García-Colín, L. S. *see* **Velasco, R. M., 93i:82059**
Golse, François Knudsen layers from a computational viewpoint. **93e:82043**
Greengard, Claude *see* **Börgers, Christoph; et al., 93g:76101**
Grigor'ev, Yu. N. (*with* Meleshko, S. V.) Group theoretical analysis of kinetic Boltzmann equation and its models. (English, Russian and Polish summaries) **93f:35017**
Hamdache, K. Initial-boundary value problems for the Boltzmann equation: global existence of weak solutions. (English summary) **93g:35132**
Helbing, Dirk A fluid-dynamic model for the movement of pedestrians. (English summary) **93m:90027**
Huynh-Servet, Madeleine *see* **Pichon, Guy, 93a:58004**
Khisamutdinov, A. I. An approximate method for the statistical modeling of the Boltzmann equation using the weak dependence of the subparts. (Russian. Russian summary) (*see* **93e:00018**).
— Algorithms with "different time coordinates" of Monte Carlo methods for a nonlinear "smoothed" Boltzmann equation. (Russian) **93b:82078**
Kingdon, R. D. (*with* Schofield, P.) A reaction-flow lattice Boltzmann model. **93d:82074**
Lachowicz, Mirosław On the asymptotic behaviour of solutions of nonlinear kinetic equations. **93e:35113**
Landim, C. Hydrodynamical equation for attractive particle systems on $\mathbf{Z}^d$. **93d:60167**
Latyshev, A. V. (*with* Spitkovsky, Ilya M.) The matrix Riemann-Hilbert boundary value problem and its application in kinetic theory. (Russian) (*see* **93f:34004**)
— *see also* **Dolgosheina, E. B.; et al., 93h:76065**
Malyshev, V. A. *see* **Botvich, D. D.; et al., 93b:82042**
Manita, A. D. *see* **Botvich, D. D.; et al., 93b:82042**
Martin, Yves-Loïc (*with* Rogier, François; Schneider, Jacques) Une méthode déterministe pour la résolution de l'équation de Boltzmann inhomogène. (English summary) [A deterministic method for solving the nonhomogeneous Boltzmann equation] **93b:65198**
McNamara, Sean (*with* Young, W. R.) Kinetics of a one-dimensional granular medium in the quasielastic limit. (English summary) **93i:76006**
Meleshko, S. V. *see* **Grigor'ev, Yu. N., 93f:35017**
Mingalev, I. V. On the solvability in the large of the Cauchy problem for discrete models of the Uehling-Uhlenbeck equation. (Russian) **93k:35218**
Mustieles Moreno, Francisco-José *see* **Delaurens, F., 93k:65008**
Ohwada, Taku Structure of normal shock waves: direct numerical analysis of the Boltzmann equation for hard-sphere molecules. (English summary) **93i:76077**
Onishi, Yoshimoto Kinetic theory based nonlinear treatment for motions of a binary gas mixture involving slightly strong evaporation and condensation processes—a system of macroscopic equations, the boundary conditions and the Knudsen-layer corrections. (English summary) **93j:76052**
Palczewski, Andrzej Stationary Boltzmann's equation with Maxwell's boundary conditions in a bounded domain. (English summary) **93i:35114**
Pfaffelmoser, K. Global classical solutions of the Vlasov-Poisson system in three dimensions for general initial data. **93d:35170**
Pichon, Guy (*with* Huynh-Servet, Madeleine) Distribution de Boltzmann discrète sur un fibré tangent. (English summary) [Discrete Boltzmann distribution on a tangent bundle] **93a:58004**
Piechór, Kazimierz The Couette flow by a four-velocity model of the Uehling-Uhlenbeck equation. (English summary) (*see* **93f:82001**)
Pinsky, Mark A. ★ Lectures on random evolution. **93b:60160**
Pomraning, Gerald C. Linear transport and kinetic theory in stochastic media. (English summary) (*see* **93g:00030**)
Presutti, Errico *see* **De Masi, Anna, 93k:60234**
Protopopescu, V. Integral methods for solving Fokker-Planck-type equations. (English summary) **93h:35204**
Pulvirenti, Mario A stochastic particle system modelling the Broadwell equation. **93b:82028**
Rammer, Jørgen Quantum transport theory of electrons in solids: a single-particle approach. **93e:82049**

Ravishankar, Krishnamurthi Fluctuations from the hydrodynamical limit for the symmetric simple exclusion in Z^d. **93m:60202**
Robert, Raoul (*with* Sommeria, J.) Statistical equilibrium states for two-dimensional flows. **93d:76034**
Rogier, François *see* **Martin, Yves-Loïc; et al., 93b:65198** *and* **Coquel, F.; et al., 93k:76099**
Rykov, V. A. *see* **Bishaev, A. M., 93j:49046**
Sakabekov, A. Choice of boundary conditions for Boltzmann moment equations. (Russian. English, Russian and Kazakh summaries) **93g:45011**
— The moment method for the linearized Boltzmann equation. (Russian) **93a:35150**
Schneider, Jacques *see* **Martin, Yves-Loïc; et al., 93b:65198** *and* **Coquel, F.; et al., 93k:76099**
Schochet, Steven (*with* Tadmor, Eitan) The regularized Chapman-Enskog expansion for scalar conservation laws. (English summary) **93f:35191**
Schofield, P. *see* **Kingdon, R. D., 93d:82074**
Smirnov, A. P. *see* **Zaitsev, F. S., (93f:00006)**
Sommeria, J. *see* **Robert, Raoul, 93d:76034**
Spitkovsky, Ilya M. *see* **Latyshev, A. V., (93f:34004)**
Sznitman, Alain-Sol Topics in propagation of chaos. **93b:60179**
Tadmor, Eitan *see* **Schochet, Steven, 93f:35191**
Thomann, Enrique *see* **Börgers, Christoph; et al., 93g:76101**
Tuikina, S. R. *see* **Denisov, A. M., 93h:35207**
Turski, L. A. *see* **Ekiel-Jeżewska, Maria L., 93e:76070**
Tzanakis, C. Kinetic theory in the weak-coupling approximation. III. Classical systems: extensions of the theory and further applications. **93f:82040**
Ukai, Seiji *see* **Bardos, Claude, 93a:76023**
Vedenyapin, V. V. Dissipative properties of kinetic equations. (*see* **93f:34004**)
Velasco, R. M. (*with* García-Colín, L. S.) The kinetic foundations of extended irreversible thermodynamics revisited. (English summary) **93i:82059**
Voronina, V. A. A stochastic method for solving an initial-boundary value problem for the Boltzmann equation. (Russian) **93i:76078**
Yamazaki, Mitsuru Existence globale pour les modèles discrets de l'équation de Boltzmann dans un tube mince infini en dimension 1 d'espace. [Global existence for discrete models of the Boltzmann equation in an infinite thin tube in one space dimension] **93d:76058**
Yatsenko, Ye. V. The method of two time scales for the solution of the Cauchy problem for the Boltzmann equation. **93f:76086**
Young, W. R. *see* **McNamara, Sean, 93i:76006**
Yushkanov, A. A. *see* **Dolgosheina, E. B.; et al., 93h:76065**
Zaitsev, F. S. (*with* Smirnov, A. P.) Difference schemes for a two-dimensional kinetic equation with a Coulomb collision operator. (Russian. Russian summary) (*see* **93f:00006**)

82C41 Dynamics of random walks, random surfaces, lattice animals, etc. [see also 60J15]

Aslangul, C. (*with* Pottier, N.; Chvosta, P.; Saint-James, D.; Skála, L.) Random-random walk on an asymmetric chain with a trapping attractive center. (English summary) **93g:82086**
Baram, Asher (*with* Kutasov, David) Random sequential adsorption on a quasi-one-dimensional lattice: an exact solution. **93a:82051**
Battezzati, M. The diffusion equation for a particle in a zero-point field. **93h:82060**
Bondarev, B. V. Quantum Markovian master equation theory of particle migration in a stochastic medium. **93a:82052**
Bonner, R. F. *see* **Gandjbakhche, A. H.; et al., 93h:82062**
Chvosta, P. *see* **Aslangul, C.; et al., 93g:82086**
Dayan, Ido (*with* Havlin, Shlomo) Number of distinct sites visited by a random walker in the presence of a trap. **93a:82053**
Farkasovsky, Pavol Ground state properties of the simplified Hubbard model. (English summary) **93h:82061**
Gandjbakhche, A. H. (*with* Bonner, R. F.; Nossal, R.) Scaling relationships for anisotropic random walks. (English summary) **93h:82062**
Havlin, Shlomo *see* **Dayan, Ido, 93a:82053**
den Hollander, Frank (*with* Shuler, Kurt E.) Random walks in a random field of decaying traps. **93f:82048**
— (*with* Naudts, J.; Redig, Frank) Long-time tails in a random diffusion model. (English summary) **93k:82056**
Kawasaki, Harumi *see* **Shibata, Fumiaki; et al., 93k:82057**
Krapivskiĭ, P. L. Kinetics of random sequential parking on a line. (English summary) **93h:82063**
Kutasov, David *see* **Baram, Asher, 93a:82051**
March, Peter Remarks on scaling a model of Witten-Sander type. **93h:82064**
Masoliver, Jaume (*with* Porrà, Josep M.; Weiss, George H.) The continuum limit of a two-dimensional persistent random walk. **93i:82063**
Mezey, Paul G. Similarity analysis in two and three dimensions using lattice animals and polycubes. (English summary) **93h:82065**
Naudts, J. *see* **den Hollander, Frank; et al., 93k:82056**
Nossal, R. *see* **Gandjbakhche, A. H.; et al., 93h:82062**
Peng, Gongwen Self-organized critical state in a directed sandpile automaton on Bethe lattices: equivalence to site percolation. (English summary)
Porrà, Josep M. *see* **Masoliver, Jaume; et al., 93i:82063**
Pottier, N. *see* **Aslangul, C.; et al., 93g:82086**
Privman, Vladimir Exact results for a three-body reaction-diffusion system. (English summary) **93j:82065**
Redig, Frank *see* **den Hollander, Frank; et al., 93k:82056**
Saint-James, D. *see* **Aslangul, C.; et al., 93g:82086**
Shibata, Fumiaki (*with* Kawasaki, Harumi; Watabe, Miki) Path integral theory of Brownian motion. (English summary) **93k:82057**
Shuler, Kurt E. *see* **den Hollander, Frank, 93f:82048**
Skála, L. *see* **Aslangul, C.; et al., 93g:82086**
Watabe, Miki *see* **Shibata, Fumiaki; et al., 93k:82057**
Weiss, George H. *see* **Masoliver, Jaume; et al., 93i:82063**

Items with secondary classifications in 82C41

Axelrad, D. R. (*with* Frydrychowicz, W.; Kamal, M. R.) Stochastic analysis of polymer melts with a binary structure. **93e:82056**
Briozzo, Carlos B. (*with* Budde, Carlos E.; Osenda, Omar; Cáceres, Manuel O.) Exact and asymptotic properties of multistate random walks. **93c:60101**
Budde, Carlos E. *see* **Briozzo, Carlos B.; et al., 93c:60101**
Buffet, E. (*with* Hannigan, P.) Directed random walks in random environments. **93b:60151**
Cáceres, Manuel O. *see* **Briozzo, Carlos B.; et al., 93c:60101**
Essam, J. W. *see* **Zhao, Dongming; et al., 93j:82077**
Frydrychowicz, W. *see* **Axelrad, D. R.; et al., 93e:82056**
Fujita, Shigeji *see* **Godoy, S.**
Godoy, S. (*with* Fujita, Shigeji) Reflection principles for biased correlated walks. Simple applications. (English summary)
Hannigan, P. *see* **Buffet, E., 93b:60151**
Happel, Robert *see* **Stadler, Peter F., 93h:82026**
Ito, H. M. (*with* Ogura, Yukio; Tomisaki, Matsuyo) Stretched-exponential decay laws of general defect diffusion models. **93a:82040**
Kamal, M. R. *see* **Axelrad, D. R.; et al., 93e:82056**
Liggett, Thomas M. The periodic threshold contact process. **93b:60230**
Lookman, Turab *see* **Zhao, Dongming; et al., 93j:82077**
Malvagi, F. *see* **Sammartino, Marco; et al., 93b:82075**
Ogura, Yukio *see* **Ito, H. M.; et al., 93a:82040**
Osenda, Omar *see* **Briozzo, Carlos B.; et al., 93c:60101**
Pomraning, Gerald C. *see* **Sammartino, Marco; et al., 93b:82075**
Sammartino, Marco (*with* Malvagi, F.; Pomraning, Gerald C.) Diffusive limits for particle transport in stochastic mixtures. **93b:82075**
Stadler, Peter F. (*with* Happel, Robert) Correlation structure of the landscape of the graph-bipartitioning problem. **93h:82026**
Tomisaki, Matsuyo *see* **Ito, H. M.; et al., 93a:82040**
Zhao, Dongming (*with* Lookman, Turab; Essam, J. W.) Exact results for fully directed polymer networks in two dimensions. (English summary) **93j:82077**

82C43 Time-dependent percolation [see also 60K35]

Items with secondary classifications in 82C43

Barsky, David J. (*with* Grimmett, Geoffrey R.; Newman, Charles M.) Dynamic renormalization and continuity of the percolation transition in orthants. **93a:60155**
Chayes, L. On the critical behavior of the first passage time in $d \geq 3$. **93e:60193**
Chorin, Alexandre Joel A vortex model with superfluid and turbulent percolation. (English summary) **93j:82075**
Grimmett, Geoffrey R. *see* **Barsky, David J.; et al., 93a:60155**
Newman, Charles M. *see* **Barsky, David J.; et al., 93a:60155**
Peng, Gongwen Self-organized critical state in a directed sandpile automaton on Bethe lattices: equivalence to site percolation. (English summary)

82C44 Dynamics of disordered systems (random Ising systems, etc.)

Amaro de Matos, J. M. G. (*with* Baêta Segundo, J. A.; Perez, J. Fernando) Fluctuations in dilute antiferromagnets: Curie-Weiss models. **93b:82071**
Baêta Segundo, J. A. *see* **Amaro de Matos, J. M. G.; et al., 93b:82071**
Cardy, John L. Random initial conditions and nonlinear relaxation. **93h:82066**
Kotecký, Roman (*with* Olivieri, E.) Stochastic models for nucleation and crystal growth. (English summary) **93h:82067**
Livi, R. (*with* Politi, Antonio; Ruffo, Stefano) Scaling-law for the maximal Lyapunov exponent. (English summary) **93g:82087**
Łuczka, J. (*with* Niemiec, M.; Piotrowski, E.) Randomly interrupted diffusion. **93d:82071**
Menyhárd, Nóra One-dimensional kinetic Ising model with unusual dynamics. **93c:82057**
Németh, R. On the relaxation processes of the one-dimensional kinetic Ising model. (English summary)
Niemiec, M. *see* **Łuczka, J.; et al., 93d:82071**
Olivieri, E. *see* **Kotecký, Roman, 93h:82067**
Paladin, Giovanni (*with* Serva, Maurizio) Analytic solution of the random Ising model in one dimension. **93d:82072**
Perez, J. Fernando *see* **Amaro de Matos, J. M. G.; et al., 93b:82071**
Piotrowski, E. *see* **Łuczka, J.; et al., 93d:82071**
Politi, Antonio *see* **Livi, R.; et al., 93g:82087**
Ruffo, Stefano *see* **Livi, R.; et al., 93g:82087**
Schlösser, Till (*with* Spohn, Herbert) Sample-to-sample fluctuations in the conductivity of a disordered medium. (English summary)
Schonmann, Roberto H. An approach to characterize metastability and critical droplets in stochastic Ising models. (French summary) **93g:82088**
Serva, Maurizio *see* **Paladin, Giovanni, 93d:82072**
Spohn, Herbert *see* **Schlösser, Till**
Vlad, Marcel Ovidiu An inverse scaling approach to a multi-state random activation energy model.
— A branched chain approach to fractal time.
Walgraef, D. Pattern formation, external fields and fluctuations. **93c:82058**

Items with secondary classifications in 82C44

Boldrighini, C. (*with* Ignatyuk, I. A.; Malyshev, V. A.; Pellegrinotti, Alessandro) Random walk in dynamic environment with mutual influence. **93b:60148**
Combes, J.-M. (*with* Hislop, Peter D.) Some transport and spectral properties of disordered media. **93k:81047**
Dawson, Donald A. (*with* Fleischmann, Klaus) Critical branching in a highly fluctuating random medium. **93a:60130**
Edwards, S. F. The glass transition. **93g:82028**
— Dynamical extensions of the Edwards model. **93g:82054**
— Some new extensions of the Edwards model. **93h:82028**

Fleischmann, Klaus *see* **Dawson, Donald A., 93a:60130**
Gaudron, Isabelle (*with* Trouvé, Alain) Massive parallelization of simulated annealing: an experimental and theoretical approach for spin glass models. **93i:82071**
Geist, Karlheinz (*with* Lauterborn, Werner) The nonlinear dynamics of the damped and driven Toda chain. III. Classification of the nonlinear resonances and local bifurcations. **93a:58130**
Greven, Andreas (*with* den Hollander, Frank) Branching random walk in random environment: phase transitions for local and global growth rates. **93c:60160**
Hislop, Peter D. *see* **Combes, J.-M., 93k:81047**
den Hollander, Frank *see* **Greven, Andreas, 93c:60160**
Holley, Richard The one-dimensional stochastic X-Y model. **93b:60229**
Honkonen, Juha Anomalous diffusion in a unidirectional random velocity field with long-range correlations. **93a:82056**
Ignatyuk, I. A. *see* **Boldrighini, C.; et al., 93b:60148**
Kaneko, Kunihiko Simulating physics with coupled map lattices—pattern dynamics, information flow, and thermodynamics of spatiotemporal chaos. **93a:58155**
Koch, Hans A scaling limit of the Glauber dynamics for a class of neural network models. **93c:82040**
Lauterborn, Werner *see* **Geist, Karlheinz, 93a:58130**
Malyshev, V. A. *see* **Boldrighini, C.; et al., 93b:60148**
Meron, Ehud Pattern formation in excitable media. (English summary)
Mountford, Thomas S. Generalized voter models. **93e:60197**
Pellegrinotti, Alessandro *see* **Boldrighini, C.; et al., 93b:60148**
Petritis, D. The zero-level set of the Brownian bridge as a model of disordered physical systems. **93k:60240**
Pomraning, Gerald C. Linear transport and kinetic theory in stochastic media. (English summary) (*see* **93g:00030**)
Trouvé, Alain *see* **Gaudron, Isabelle, 93i:82071**

82C70 Transport processes

Agoshkov, V. I. An inverse problem in transport theory and properties of a reflection operator. (Russian) **93f:82049**
Amirat, Youcef (*with* Hamdache, K.; Ziani, A.) Kinetic formulation for a transport equation with memory. **93a:82054**
Anile, A. M. (*with* Pennisi, Sebastiano) Extended thermodynamics of the Blotekjaer hydrodynamical model for semiconductors. (English summary) **93h:82068**
Anistratov, D. Yu. (*with* Gol'din, V. Ya.) Nonlinear methods for solving particle transport problems. (English summary) **93m:82042**
Asadzadeh, Mohammad (*with* Kumlin, Peter; Larsson, Stig) The discrete ordinates method for the neutron transport equation in an infinite cylindrical domain. (English summary) **93i:82064**
Belleni-Morante, Aldo (*with* Totaro, Silvia) A mathematical model for transport and absorption of particles of a poison gas. (English summary) **93i:82065**
Bellman, R. (*with* Wing, G. Milton) ★ An introduction to invariant imbedding. **93i:82066**
Ben Abdallah, Naoufel Étude d'un système différentiel issu de l'équation de Boltzmann des semi-conducteurs. (English summary) [On a differential system arising from the Boltzmann semiconductor equation] **93d:82073**
Borgonovi, Fausto (*with* Guarneri, Italo) Irregular scattering and quantum transport fluctuations. **93f:82050**
Busoni, Giorgio (*with* Frosali, Giovanni) Asymptotic behaviour for a charged particle transport problem with time-varying acceleration field. (English summary) **93k:82058**
Chen, Liao-Yuan *see* **Su, Zhao Bing; et al., 93b:82076**
Chen, Yong Cong Kubo-Einstein relation for quantum Brownian motion in a periodic potential. **93e:82041**
Choulli, Mourad Determination of the spatially-dependent scattering function for overspecified boundary conditions. (English summary) **93k:82059**
Christov, Christo Ivanov *see* **Markov, Konstantin Z., 93h:82070**
Clercx, H. J. H. (*with* Schram, P. P. J. M.) Brownian particles in shear flow and harmonic potentials: a study of long-time tails. (English summary) **93e:82042**
Cordier, Stéphane Hyperbolicité des systèmes de Grad. (English and French summaries) [Hyperbolicity of Grad systems] **93i:82067**
Costantini, Cristina Diffusion approximation for a class of transport processes with physical reflection boundary conditions. **93b:82072**
Degond, Pierre (*with* Markowich, Peter A.) A mathematical analysis of quantum transport in three-dimensional crystals. **93h:82069**
Dinariev, O. Yu. Perturbation front structure for transport processes with relaxation. (Russian) **93g:82089**
Esser, B. *see* **Hennig, D., 93i:82068**
Fasano, Antonio (*with* Primicerio, Mario) On the problem of outgassing and contamination of surfaces in a rarefied atmosphere. (Italian) **93a:82055**
Frosali, Giovanni *see* **Busoni, Giorgio, 93k:82058**
Ganapol, B. D. An investigation of a simple transport model. **93c:82059**
(Germogenova, T. A.) *see* **Frontiers in numerical transport theory, 93i:82070**
Gol'din, V. Ya. *see* **Anistratov, D. Yu., 93m:82042**
Golse, François Knudsen layers from a computational viewpoint. **93e:82043**
Guarneri, Italo *see* **Borgonovi, Fausto, 93f:82050**
Guerriero, Gabriele On the existence and stability of a steady solution to a nonlinear integral equation of the particle transport theory. (Italian summary) **93c:82060**
Hamdache, K. *see* **Amirat, Youcef; et al., 93a:82054**
Hennig, D. (*with* Esser, B.) Transfer dynamics of a quasiparticle in a nonlinear dimer coupled to an intersite vibration: chaos on the Bloch sphere. (English summary) **93i:82068**
Honkonen, Juha Anomalous diffusion in a unidirectional random velocity field with long-range correlations. **93a:82056**
Ichiyanagi, Masakazu New variational approach in the theory of nonequilibrium stationary processes. (English summary) **93f:82051**
(Kalaba, Robert) *see* **Bellman, R., 93i:82066**
Kingdon, R. D. (*with* Schofield, P.) A reaction-flow lattice Boltzmann model. **93d:82074**
Kumlin, Peter *see* **Asadzadeh, Mohammad; et al., 93i:82064**
Kuznetsov, Yu. A. Some nonlinear mathematical problems in particle transport theory. (Russian) **93e:82044**
Larsen, Edward W. *see* **Miften, M. M., 93k:82061**
Larsson, Stig *see* **Asadzadeh, Mohammad; et al., 93i:82064**
Latrach, Khalid Compactness properties for linear transport operators with abstract boundary conditions in slab geometry. (English summary) **93k:82060**
Malakhov, A. N. Diffusion through steep potential barriers. II. Temporal characteristics of diffusion. (Russian. English summary) **93g:82090**
Malvagi, F. *see* **Sammartino, Marco; et al., 93b:82075**
Markov, Konstantin Z. (*with* Christov, Christo Ivanov) On the problem of heat conduction for random dispersions of spheres allowed to overlap. (English summary) **93h:82070**
Markowich, Peter A. *see* **Degond, Pierre, 93h:82069**
Masoliver, Jaume (*with* Weiss, George H.) First passage times for a generalized telegrapher's equation. **93b:82073**
Mei, Ming (*with* Xiao, Ying Kun) Monotonic decay of solutions to neutron transport problems with nonlocal boundary constraints. (Chinese)
Miften, M. M. (*with* Larsen, Edward W.) The quasi-diffusion method for solving transport problems in planar and spherical geometries. (English summary) **93k:82061**
Miyazawa, Toru Diffusion in asymptotically logarithmic potentials. **93f:82052**
Mokhtar-Kharroubi, Mustapha Quelques applications de la positivité en théorie du transport. (English and French summaries) [Some applications of positivity in transport theory] **93k:82062**
Molzahn, F. H. Exponential cluster solutions to quantum transport equations. (English summary) **93i:82069**
Morozova, M. V. A mathematical model of diffusion into granules of sorbent. (Russian) **93e:82045**
Nelson, Paul, Jr. (*with* Seth, Daniel L.; Vasudevan, R.) An integrodifferential equation for the two-dimensional reflection kernel. **93c:82061**
— (*with* Yu, Fan) Errors and optimality for spatial approximations in one-dimensional transport. **93g:82091**
— (*with* Yu, Fan) Worst-case errors for some spatial approximations to a model problem in two-dimensional transport theory. (English summary) **93m:82043**
— *see also* **Frontiers in numerical transport theory, 93i:82070**
Pennisi, Sebastiano (*with* Sammartino, Marco) Hyperbolic models for linear transport theory. (English summary) **93j:82066**
— *see also* **Anile, A. M., 93h:82068**
Piekarski, Sławomir Quasiparticle kinetic equation for phonons in deformable medium. General form of moment identities. (*see* **93a:82002**)
Pomraning, Gerald C. ★ Linear kinetic theory and particle transport in stochastic mixtures. **93g:82092**
— Linear transport and kinetic theory in stochastic media. (English summary) (*see* **93g:00030**)
— The Fokker-Planck operator as an asymptotic limit. **93b:82074**
— *see also* **Sammartino, Marco; et al., 93b:82075**
Primicerio, Mario *see* **Fasano, Antonio, 93a:82055**
Sammartino, Marco (*with* Malvagi, F.; Pomraning, Gerald C.) Diffusive limits for particle transport in stochastic mixtures. **93b:82075**
— *see also* **Pennisi, Sebastiano, 93j:82066**
Schofield, P. *see* **Kingdon, R. D., 93d:82074**
Schram, P. P. J. M. *see* **Clercx, H. J. H., 93e:82042**
Seth, Daniel L. *see* **Nelson, Paul, Jr.; et al., 93c:82061**
Sokhin, A. S. Observation of a bilinear evolution system described by a transport equation. (Russian) **93j:82067**
Su, Zhao Bing (*with* Yu, Lu; Chen, Liao-Yuan) Closed time path Green's function and its applications in transport theory. **93b:82076**
Totaro, Silvia *see* **Belleni-Morante, Aldo, 93i:82065**
Vasudevan, R. *see* **Nelson, Paul, Jr.; et al., 93c:82061**
Weiss, George H. *see* **Masoliver, Jaume, 93b:82073**
Wing, G. Milton *see* **Bellman, R., 93i:82066**
Wolansky, Gershon On steady distributions of self-attracting clusters under friction and fluctuations. (English summary) **93h:82071**
Xiao, Ying Kun *see* **Mei, Ming**
Yu, Fan *see* **Nelson, Paul, Jr., 93g:82091** *and* **93m:82043**
Yu, Lu *see* **Su, Zhao Bing; et al., 93b:82076**
Ziani, A. *see* **Amirat, Youcef; et al., 93a:82054**

Items listed otherwise than by author

College Station, TX ★ Frontiers in numerical transport theory. **93i:82070**
Frontiers in numerical transport theory ★ Frontiers in numerical transport theory. **93i:82070**
Workshop:
Numerical Transport Theory ★ Frontiers in numerical transport theory. **93i:82070**

Items with secondary classifications in 82C70

Alabau, Fatiha Comportement de la courbe caractéristique potentiel appliqué-courant d'une diode en polarisation inverse et directe. (English summary) [Behavior of the characteristic voltage-current curve of reverse and forward biased diodes] **93d:82086**
Avellaneda, Marco (*with* Majda, Andrew J.) Mathematical models with exact renormalization for turbulent transport. II. Fractal interfaces, non-Gaussian statistics and the sweeping effect. **93g:76066**
— (*with* Majda, Andrew J.) Superdiffusion in nearly stratified flows. (English summary) **93j:82068**
— (*with* Majda, Andrew J.) Approximate and exact renormalization theories for a model for turbulent transport. **93g:76067**
— *see also* **Lafarge, Denis, 93k:76111**
Averin, A. V. (*with* Voloshchenko, A. M.) A consistent P_1 synthetic acceleration method for outer iterations. (Russian. English summary) **93c:65121**
Belleni-Morante, Aldo A mathematical model for particle transport with mollified boundary conditions. **93c:82045**

Bellomo, N. (*with* Toscani, G.) On the Cauchy problem for the discrete Boltzmann equation with multiple collisions: existence, uniqueness and stability. (English summary) **93j:35173**

Choulli, Mourad Un problème inverse pour l'équation du transport. (English summary) [An inverse problem for the transport equation] **93c:45010**

Combes, J.-M. (*with* Hislop, Peter D.) Some transport and spectral properties of disordered media. **93k:81047**

Dão Quang Tuyên *see* **Erdős, L., 93d:82058**

Dawson, Donald A. (*with* Fleischmann, Klaus) Diffusion and reaction caused by point catalysts. **93e:35055**

Deb, T. K. *see* **Karanjai, S., 93j:85006**

De Barros, Ricardo C. (*with* Larsen, Edward W.) A numerical method for multigroup slab-geometry discrete ordinates problems with no spatial truncation error. **93b:82077**

Driebe, Dean J. *see* **Hasegawa, Hiroshi H., 93d:58096**

Durdiev, D. K. A problem on determining the scattering indicatrix in the transport equation. (Russian) (*see* **93m:00026**)

Erdős, L. (*with* Dão Quang Tuyên) Central limit theorems for the one-dimensional Rayleigh gas with semipermeable barriers. **93d:82058**

Fleischmann, Klaus *see* **Dawson, Donald A., 93e:35055**

Foong, See Kit First-passage time, maximum displacement, and Kac's solution of the telegrapher equation. (English summary)

Galimov, A. A. Mathematical modeling of electric fields and mass transport processes in electrochemical systems. (Russian) (*see* **93m:00033**)

Giona, Massimiliano (*with* Roman, H. Eduardo) Fractional diffusion equation on fractals: one-dimensional case and asymptotic behaviour. **93a:82043**

— *see also* **Roman, H. Eduardo, 93a:82044**

Glimm, James *see* **Zhang, Qiang, 93g:76068**

Grünbaum, F. Alberto An inverse problem in transport theory: diffuse tomography. (*see* **93e:00023**)

Gryn', V. I. (*with* Nitishinskaya, L. V.) Inverse three-dimensional problems for the joint determination of the absorption coefficient and the source function for the transport equation. (Russian) **93b:35133**

Guerriero, Gabriele Perturbative method for a nonlinear integral equation of the particle transport theory. (English summary) (*see* **93g:00030**)

Hasegawa, Hiroshi H. (*with* Driebe, Dean J.) Transport as a dynamical property of a simple map. (English summary) **93d:58096**

Hislop, Peter D. *see* **Combes, J.-M., 93k:81047**

Jin, Shi (*with* Levermore, C. David) The discrete-ordinate method in diffusive regimes. **93c:35004**

Joseph, Mvogo Ngono *see* **Onana, Awono; et al.**

van Kampen, N. G. Short first-passage times. (English summary) **93m:82032**

Kapustyan, V. E. Minimax estimation for singularly perturbed boundary problems of transport in a planar layer. (Russian. English summary) **93c:45011**

Karanjai, S. (*with* Deb, T. K.) The time-dependent X- and Y-functions. (English summary) **93j:85006**

Kruse, Kai-Olaf (*with* Rein, Gerhard) A stability result for the relativistic Vlasov-Maxwell system. (English summary) **93j:82070**

Kwankam, S. Yunkap *see* **Onana, Awono; et al.**

Lafarge, Denis Comments on: "Rigorous link between fluid permeability, electrical conductivity, and relaxation times for transport in porous media" [Phys. Fluids A **3** (1991), no. 11, 2529–2540; MR 92j:76090] by M. Avellaneda and S. Torquato. (English summary) **93k:76111**

Larsen, Edward W. *see* **De Barros, Ricardo C., 93b:82077**

Latrach, Khalid Compacité et spectre essentiel d'opérateurs de transport avec des conditions aux limites abstraites. (English and French summaries) [Compactness and essential spectrum for transport operators with abstract boundary conditions] **93f:47092**

Latyshev, A. V. Analytic solution of the ellipsoidal-statistical model Boltzmann equation. (Russian. Russian summary) **93k:82054**

Levermore, C. David *see* **Jin, Shi, 93c:35004**

Lions, Pierre-Louis (*with* Perthame, Benoît) Lemmes de moments, de moyenne et de dispersion. (English summary) [Moments, averaging and dispersion lemmas] **93f:35217**

Majda, Andrew J. *see* **Avellaneda, Marco, 93g:76066; 93g:76067** *and* **93j:82068**

Malczak, Jan On the strong convergence to equilibrium of the Foias solutions of the transport equation. (English summary) **93j:45009**

(Nelson, Paul, Jr.) *see* **Proceedings: Workshop on Mathematical Aspects of Fluid and Plasma Dynamics, 93f:82002**

Nitishinskaya, L. V. *see* **Gryn', V. I., 93b:35133**

Onana, Awono (*with* Kwankam, S. Yunkap; Joseph, Mvogo Ngono) Solution of the two-dimensional neutron transport equation by a hierarchical finite element method. (English summary)

Pennisi, Sebastiano (*with* Sammartino, Marco) A mathematical model for radiation hydrodynamics. **93b:85003**

Perovich, S. M. The transcendental method in the theory of neutron slowing down. **93b:82091**

Perthame, Benoît *see* **Lions, Pierre-Louis, 93f:35217**

Poupaud, Frédéric Runaway phenomena and fluid approximation under high fields in semiconductor kinetic theory. (English, German and Russian summaries) **93h:82074**

Pulvirenti, Mario On the 2-D turbulence. (*see* **93g:81002**)

Rein, Gerhard *see* **Kruse, Kai-Olaf, 93j:82070**

Ringhofer, Christian On the convergence of spectral methods for the Wigner-Poisson problem. **93c:65120**

Roman, H. Eduardo (*with* Giona, Massimiliano) Fractional diffusion equation on fractals: three-dimensional case and scattering function. **93a:82044**

— *see also* **Giona, Massimiliano, 93a:82043**

Salimov, K. D. Generalized solutions of an inverse problem for the transport equation. (Russian) (*see* **93d:35001**)

Sammartino, Marco *see* **Pennisi, Sebastiano, 93b:85003**

(Sone, Yoshio) *see* **Proceedings: Workshop on Mathematical Aspects of Fluid and Plasma Dynamics, 93f:82002**

Sun, Feng Ting *see* **Wei, Shu Zhi; et al., 93b:65165**

Sun, Wan Gui Bifurcation points of a class of nonlinear neutron transport operators. (Chinese. English summary)

Surinov, Yu. A. Integral equations of the relation between resolvents for different formulations of problems in the theory of radiation transfer and radiation heat exchange. (Russian) **93a:85004**

(Torquato, S.) *see* **Lafarge, Denis, 93k:76111**

Toscani, G. *see* **Bellomo, N., 93j:35173**

Voitishek, A. V. Statistical estimation of radiative flows in numerical solution of radiative-conductive heat transfer problems. (English summary) **93g:80003**

Voloshchenko, A. M. *see* **Averin, A. V., 93c:65121**

Voronina, V. A. A stochastic algorithm for solving an initial-boundary value problem for the Boltzmann equation. (Russian) **93f:76085**

Wang, Mian Sen *see* **Wei, Shu Zhi; et al., 93b:65165**

Wei, Shu Zhi (*with* Wang, Mian Sen; Sun, Feng Ting; Zhu, Guang Tian) On the discrete-ordinates method for the monoenergetic neutron transport equation in a slab with generalized boundary conditions. **93b:65165**

Yan, Xin Li Fixed-point theorems for mixed monotone operators and their applications. (Chinese. English summary) **93d:47106**

Zhang, Qiang (*with* Glimm, James) Inertial range scaling of laminar shear flow as a model of turbulent transport. **93g:76068**

Zhu, Guang Tian *see* **Wei, Shu Zhi; et al., 93b:65165**

Items listed otherwise than by author

Kyoto ★ Proceedings of the Fourth International Workshop on Mathematical Aspects of Fluid and Plasma Dynamics. **93f:82002**

Proceedings:

Workshop on Mathematical Aspects of Fluid and Plasma Dynamics ★ Proceedings of the Fourth International Workshop on Mathematical Aspects of Fluid and Plasma Dynamics. **93f:82002**

Workshop:

Mathematical Aspect of Fluid and Plasma Dynamics ★ Proceedings of the Fourth International Workshop on Mathematical Aspects of Fluid and Plasma Dynamics. **93f:82002**

82C80 Numerical methods (Monte Carlo, series resummation, etc.)

Avellaneda, Marco (*with* Majda, Andrew J.) Superdiffusion in nearly stratified flows. (English summary) **93j:82068**

Bagnoli, Franco (*with* Rechtman, Raúl; Ruffo, Stefano) General algorithm for two-dimensional totalistic cellular automata.

Bonomi, Ernesto *see* **Brieger, Leesa, 93j:82069**

Brieger, Leesa (*with* Bonomi, Ernesto) A stochastic lattice gas for Burgers' equation: a practical study. (English summary) **93j:82069**

Brito, R. *see* **van Velzen, G. A.; et al.**

Brugé, F. Systolic calculation of pair interactions using the cell linked-lists method on multi-processor systems.

De Barros, Ricardo C. (*with* Larsen, Edward W.) A numerical method for multigroup slab-geometry discrete ordinates problems with no spatial truncation error. **93b:82077**

Eilbeck, J. C. Numerical studies of solitons on lattices. (English summary) (*see* **93e:00025**)

Ernst, M. H. *see* **van Velzen, G. A.; et al.**

Gaudron, Isabelle (*with* Trouvé, Alain) Massive parallelization of simulated annealing: an experimental and theoretical approach for spin glass models. **93i:82071**

Gupta, Sumnesh Computing aspects of molecular dynamics simulation.

Khisamutdinov, A. I. Algorithms with "different time coordinates" of Monte Carlo methods for a nonlinear "smoothed" Boltzmann equation. (Russian) **93b:82078**

— (*with* Kobeleva, N. F.) "Nonsymmetric" interactions in Monte Carlo methods with continuous time and the approximation of the Boltzmann equation. (Russian. English and Russian summaries) **93g:82093**

Kobeleva, N. F. *see* **Khisamutdinov, A. I., 93g:82093**

Kostin, M. D. Cellular automata for quantum systems. (English summary) **93k:82063**

Laganá, Antonio The impact of parallel computing on reactive scattering calculations.

Larrea, B. *see* **Martínez de Lafuente, O.; et al., (93j:00009)**

Larsen, Edward W. *see* **De Barros, Ricardo C., 93b:82077**

Machta, Jonathan The computational complexity of pattern formation. (English summary) **93m:82044**

Majda, Andrew J. *see* **Avellaneda, Marco, 93j:82068**

Martínez de Lafuente, O. (*with* Larrea, B.; Pérez-García, Carlos) Treatment of Rayleigh scattering via the Boltzmann-Fokker-Planck equation. Implementation in S_N codes. (Spanish. Spanish summary) (*see* **93j:00009**)

Mora, Peter The lattice Boltzmann phononic lattice solid. (English summary) **93g:82094**

Nosé, Shuichi Constant temperature molecular dynamics methods. (English summary) **93g:82095**

Palleschi, V. (*with* de Rosa, M.) Numerical solution of the Fokker-Planck equation. II. Multidimensional case. **93d:82075**

Pérez-García, Carlos *see* **Martínez de Lafuente, O.; et al., (93j:00009)**

Rechtman, Raúl *see* **Bagnoli, Franco; et al.**

Ringhofer, Christian A spectral collocation technique for the solution of the Wigner-Poisson problem. **93e:82046**

de Rosa, M. *see* **Palleschi, V., 93d:82075**

Ruffo, Stefano *see* **Bagnoli, Franco; et al.**

Sandvik, A. W. A generalization of Handscomb's quantum Monte Carlo scheme—application to the 1D Hubbard model. **93c:82062**

Trouvé, Alain *see* **Gaudron, Isabelle, 93i:82071**

van Velzen, G. A. (*with* Brito, R.; Ernst, M. H.) Stress-stress correlation functions in lattice gases beyond Boltzmann's approximation. (English summary)

Wagner, Wolfgang[1] A convergence proof for Bird's direct simulation Monte Carlo method for the Boltzmann equation. **93f:82053**

Items with secondary classifications in 82C80

Anistratov, D. Yu. (*with* Gol'din, V. Ya.) Nonlinear methods for solving particle transport problems. (English summary) **93m:82042**
Babovsky, Hans Efficient treatment of collisions in simulation codes for heavy-ion reactions. (English summary)
(Boon, Jean-Pierre) *see* **Workshop: Lattice Gas Automata, 93d:82002**
Breuer, H. P. (*with* Petruccione, Francesco) A stochastic formulation of Burgers' equation. (English summary) **93j:76028**
Durrett, Richard Some new games for your computer.
Ershov, S. V. Asymptotic theory of multidimensional chaos. (English summary) **93k:58149**
Frigerio, Alberto (*with* Grillo, Gabriele) Time-dependent Schrödinger operators and simulated annealing. **93i:82053**
Ganapol, B. D. An investigation of a simple transport model. **93c:82059**
van Ginneken, L. P. P. P. *see* **Otten, R. H. J. M., 93h:90001**
Gol'din, V. Ya. *see* **Anistratov, D. Yu., 93m:82042**
Grillo, Gabriele *see* **Frigerio, Alberto, 93i:82053**
Igarashi, A. (*with* McClintock, P. V. E.; Stocks, N. G.) Velocity spectrum for non-Markovian Brownian motion in a periodic potential. **93d:82062**
Kainz, A. J. (*with* Titulaer, U. M.) The structure of the stationary kinetic boundary layer for the linear BGK equation. **93b:82065**
Larsen, Edward W. *see* **Mifften, M. M., 93k:82061**
March, Peter Remarks on scaling a model of Witten-Sander type. **93h:82064**
McClintock, P. V. E. *see* **Igarashi, A.; et al., 93d:82062**
McKee, Sean *see* **Swailes, David, 93j:82050**
Mifften, M. M. (*with* Larsen, Edward W.) The quasi-diffusion method for solving transport problems in planar and spherical geometries. (English summary) **93k:82061**
Mikhailov, G. A. ★ Minimization of computational costs of nonanalogue Monte Carlo methods. **93c:65011**
Morozova, M. V. A mathematical model of diffusion into granules of sorbent. (Russian) **93e:82045**
Nelson, Paul, Jr. (*with* Yu, Fan) Errors and optimality for spatial approximations in one-dimensional transport. **93g:82091**
Otten, R. H. J. M. (*with* van Ginneken, L. P. P. P.) ★ The annealing algorithm. **93h:90001**
Petruccione, Francesco *see* **Breuer, H. P., 93j:76028**
Smirnov, A. P. *see* **Zaitsev, F. S., (93f:00006)**
Stocks, N. G. *see* **Igarashi, A.; et al., 93d:82062**
Swailes, David (*with* McKee, Sean) Construction and analysis of some micellization-adsorption models. (English summary) **93j:82050**
Titulaer, U. M. *see* **Kainz, A. J., 93b:82065**
Toscani, G. (*with* Waluś, W.) Recent results on the fractional step method in discrete kinetic theory. (English summary) (*see* **93f:82001**)
Waluś, W. *see* **Toscani, G., (93f:82001)**
Whittle, Peter Random fields on random graphs. **93g:82045**
Yu, Fan *see* **Nelson, Paul, Jr., 93g:82091**
Zaitsev, F. S. (*with* Smirnov, A. P.) Difference schemes for a two-dimensional kinetic equation with a Coulomb collision operator. (Russian. Russian summary) (*see* **93f:00006**)

Items listed otherwise than by author

NATO Advanced Research Workshop:
Lattice Gas Automata, Theory, Implementation, Simulations ★ Advanced Research Workshop on Lattice Gas Automata. **93d:82002**
Nice ★ Advanced Research Workshop on Lattice Gas Automata. **93d:82002**
Workshop:
Lattice Gas Automata ★ Advanced Research Workshop on Lattice Gas Automata. **93d:82002**

82C99 None of the above, but in this section

Carr, Jack Asymptotic behaviour of solutions to the coagulation-fragmentation equations. I. The strong fragmentation case. (English summary) **93i:82072**
Chen, Li Hua (*with* Jia, Ya) A nonlinear relaxation time theory for transient stochastic dynamics. (Chinese. English and Chinese summaries)
Coniglio, Antonio (*with* Zannetti, Marco) Analytical study of scaling behavior in growth kinetics. **93c:82063**
— (*with* Zannetti, Marco) Multiscaling in spinodal decomposition. (English summary) (*see* **93g:81002**)
Demetrius, Lloyd Thermodynamic perturbations of molecular systems. (English summary)
Frankowicz, M. *see* **Górecki, J.; et al., (93a:60004)**
Górecki, J. (*with* Kawczyński, A. L.; Frankowicz, M.) Molecular dynamics simulations of oscillations in thermochemical systems. (*see* **93a:60004**)
Graham, Robert (*with* Tél, Tamás) Nonequilibrium potentials in spatially extended pattern forming systems. (English summary) **93f:82054**
Jia, Ya *see* **Chen, Li Hua**
Jurlewicz, A. *see* **Weron, K., 93k:82065**
Kats, A. V. The exact nonstationary solutions of the generalized Smolukhowsky equation in the availability of the source. (*see* **93b:00012**)
Kawczyński, A. L. *see* **Górecki, J.; et al., (93a:60004)**
(Mandelbrot, Benoit B.) *see* **Vicsek, Tamás, 93k:82064a**
Tél, Tamás *see* **Graham, Robert, 93f:82054**
Vicsek, Mária (*with* Vicsek, Tamás) ★ Fractal growth. **93k:82064b**
Vicsek, Tamás ★ Fractal growth phenomena. **93k:82064a**
— *see also* **Vicsek, Mária, 93k:82064b**
Weron, K. (*with* Jurlewicz, A.) Two forms of self-similarity as a fundamental feature of the power-law dielectric response. (English summary) **93k:82065**
Zannetti, Marco *see* **Coniglio, Antonio, 93c:82063** *and* **(93g:81002)**

Items with secondary classifications in 82C99

Accardi, Luigi (*with* Frigerio, Alberto; Lu, Yun Gang) On the relation between the singular and the weak coupling limits. **93i:81109**
— (*with* Lu, Yun Gang) The low density limit in finite temperature case. **93j:81056**
Bruno, Oscar P. (*with* Friedman, Avner; Reitich, Fernando) Asymptotic behavior for a coalescence problem. **93j:35174**
Chorin, Alexandre Joel Vortices, turbulence, and statistical mechanics. (*see* **93f:76078**)
Fried, H. M. ★ Basics of functional methods and eikonal models. (English. English summary)
Friedman, Avner *see* **Bruno, Oscar P.; et al., 93j:35174**
Frigerio, Alberto *see* **Accardi, Luigi; et al., 93i:81109**
Gulyan, A. M. (*with* Zharkov, G. F.; Sergoyan, G. M.) Time-dependent Ginzburg-Landau equations for superconductors with finite gap. (Russian) **93d:82083**
Harms, B. (*with* Leblanc, Y.) Statistical mechanics of extended black objects. (English summary) **93k:83050**
(Howlett, Jack) *see* **le Méhauté, Alain, 93d:51049**
Iordache, O. Dyadic frames for intermittency. Perturbed models. **93b:58134**
Leblanc, Y. *see* **Harms, B., 93k:83050**
Lu, Yun Gang *see* **Accardi, Luigi; et al., 93i:81109** *and* **93j:81056**
Matthews, Paul C. *see* **Strogatz, Steven H.; et al., 93d:92004**
le Méhauté, Alain ★ Fractal geometries. **93d:51049**
Mirollo, Renato E. *see* **Strogatz, Steven H.; et al., 93d:92004**
Reitich, Fernando *see* **Bruno, Oscar P.; et al., 93j:35174**
Rica, Sergio (*with* Tirapegui, Enrique) Dynamics of vortices in the Ginzburg-Landau equation. **93b:82093**
Sergoyan, G. M. *see* **Gulyan, A. M.; et al., 93d:82083**
Strogatz, Steven H. (*with* Mirollo, Renato E.; Matthews, Paul C.) Coupled nonlinear oscillators below the synchronization threshold: relaxation by generalized Landau damping. **93d:92004**
Tirapegui, Enrique *see* **Rica, Sergio, 93b:82093**
Zharkov, G. F. *see* **Gulyan, A. M.; et al., 93d:82083**
Zhou, Xiao Lin Some applications of the virial theorem. (Chinese. English summary)

82Dxx Applications to specific types of physical systems

82D05 Gases

Items with secondary classifications in 82D05

Banach, Zbigniew (*with* Piekarski, Sławomir) The Einstein-Smoluchowski promeasure and the stochastic Boltzmann-Peierls equation. (English summary) **93k:82043**
Piekarski, Sławomir *see* **Banach, Zbigniew, 93k:82043**
Xin, Zhou Ping The fluid-dynamic limit of the Broadwell equation. **93b:82070**

82D10 Plasmas

Abramovici, Gilles *see* **Aubry, Serge; et al., 93e:82047**
Aly, Jean-Jacques Some properties of a thermodynamic model for the equilibrium of a current-carrying quasineutral plasma. (English summary) **93k:82066**
Aubry, Serge (*with* Abramovici, Gilles; Raimbault, Jean-Luc) Chaotic polaronic and bipolaronic states in the adiabatic Holstein model. **93e:82047**
Bouchut, François Existence and uniqueness of a global smooth solution for the Vlasov-Poisson-Fokker-Planck system in three dimensions. (English summary) **93m:82045**
Brizard, Alain J. (*with* Cook, Daniel R.; Kaufman, Allan N.) Wave-action conservation for pseudo-Hermitian fields. (English summary) **93m:82046**
Cook, Daniel R. *see* **Brizard, Alain J.; et al., 93m:82046**
Escande, D. F. Large scale structures in kinetic plasma turbulence. (English summary) (*see* **93d:00036**)
Forrester, P. J. Solvable model of the pairing transition in a two-dimensional one-component plasma/metal interface model. (English summary) **93i:82073**
Glassey, Robert (*with* Schaeffer, Jack W.) The relativistic Vlasov-Maxwell equations in low dimension. **93i:82074**
Jancovici, B. (*with* Manificat, G.) Classical Coulomb fluids in a confined geometry. (English summary) **93f:82055**
Kaufman, Allan N. *see* **Brizard, Alain J.; et al., 93m:82046**
Kruse, Kai-Olaf (*with* Rein, Gerhard) A stability result for the relativistic Vlasov-Maxwell system. (English summary) **93j:82070**
Latyshev, A. V. (*with* Lesskis, A. G.; Yushkanov, A. A.) Exact solution of a problem on the behavior of an electron plasma in a layer of metal in a variable electric field. (Russian. English and Russian summaries) **93h:82072**
Lesskis, A. G. *see* **Latyshev, A. V.; et al., 93h:82072**
Manificat, G. *see* **Jancovici, B., 93f:82055**
Markov, Yu. A. (*with* Rudykh, G.; Sidorov, N. A.; Sinitsyn, A. V.; Tolstonogov, D.) Steady-state solutions of the Vlasov-Maxwell system and their stability. (English summary) **93m:82047**
Mathur, Samir D. Onset of linear instability in homogeneous plasmas. (English summary) **93g:82096**
Morrison, P. J. *see* **Ye, Huanchun, 93b:82079**
Pennisi, Sebastiano On the hyperbolicity of a relativistic warm-plasma model. (English summary) **93f:82056**
Raimbault, Jean-Luc *see* **Aubry, Serge; et al., 93e:82047**
Rein, Gerhard Existence of stationary, collisionless plasmas in bounded domains. **93d:82076**
— *see also* **Kruse, Kai-Olaf, 93j:82070**
Rudykh, G. *see* **Markov, Yu. A.; et al., 93m:82047**
Samoilenko, V. Gr. *see* **Suyarov, U. S., 93m:82048b**
Schaeffer, Jack W. *see* **Glassey, Robert, 93i:82074**
Sidorov, N. A. *see* **Markov, Yu. A.; et al., 93m:82047**
Sinitsyn, A. V. *see* **Markov, Yu. A.; et al., 93m:82047**
Sitenko, A. G. (*with* Sosenko, P. P.) Nonlinear electromagnetic fluctuations in plasmas (renormalization concept). (*see* **93b:00013**)
— (*with* Sosenko, P. P.) Renormalized theory of low-frequency hydrodynamic fluctuations in plasmas. (*see* **93b:00013**)

Sosenko, P. P. *see* **Sitenko, A. G., (93b:00013)** *and* **(93b:00013)**
Suyarov, U. S. The Vlasov kinetic equation and its algebraic structure. (Russian. Russian summary) **93m:82048a**
— (*with* Samoilenko, V. Gr.) Boltzmann-Vlasov kinetic equations on an axis and their Hamiltonian structure. (Russian. Russian summary) **93m:82048b**
Tolstonogov, D. *see* **Markov, Yu. A.; et al., 93m:82047**
Vertgeim, L. B. An inverse problem for a system of kinetic equations that arises from the Vlasov equation of an equilibrium plasma. (Russian) **93m:82049**
Ye, Huanchun (*with* Morrison, P. J.) Action principles for the Vlasov equation. **93b:82079**
Yushkanov, A. A. *see* **Latyshev, A. V.; et al., 93h:82072**

Items with secondary classifications in 82D10

Aly, Jean-Jacques A model for magnetic energy storage and Taylor's relaxation in the solar corona. I. Helicity-constrained minimum energy state in a half-cylinder. (English summary) **93k:85004**
Arlotti, Luisa (*with* Frosali, Giovanni) Runaway particles for a Boltzmann-like transport equation. **93g:82078**
Chechkin, A. V. *see* **Tur, A. V.; et al., 93i:76103**
Chernousenko, V. M. (*with* Kuklin, V. M.; Panchenko, I. P.) Structures in nonequilibrium media. (Russian) **93g:82061**
Cordier, Stéphane Hyperbolicité des systèmes de Grad. (English and French summaries) [Hyperbolicity of Grad systems] **93i:82067**
Degond, Pierre (*with* Raviart, P.-A.) On a penalization of the Child-Langmuir emission condition for the one-dimensional Vlasov-Poisson equation. (English summary) **93i:35029**
— (*with* Lucquin-Desreux, B.) The Fokker-Planck asymptotics of the Boltzmann collision operator in the Coulomb case. **93g:82083**
Eickermann, Th. *see* **Spatschek, K. H.; et al., 93i:76102**
Fabre, Sylvie Stability analysis of the Euler-Poisson equations. **93e:76052**
Fanjul, R. *see* **Shivamoggi, Bhimsen K.; et al., 93h:35205**
Forrester, P. J. (*with* Jancovici, B.; Madore, J.) The two-dimensional Coulomb gas on a sphere: exact results. (English summary) **93h:82018**
Frosali, Giovanni *see* **Arlotti, Luisa, 93g:82078**
Jancovici, B. *see* **Forrester, P. J.; et al., 93h:82018**
Kaup, D. J. (*with* Malomed, B. A.) The resonant three-wave interaction in an inhomogeneous medium. (English summary) **93h:35198**
Krokhin, O. N. (*with* Tsybenko, S. P.) The structure of plane nonlinear waves in conservative systems of plasma electrodynamics and hydrodynamics. (Russian. Russian summary) **93k:76128**
Kuklin, V. M. *see* **Chernousenko, V. M.; et al., 93g:82061**
Leon, Jérôme Jp. Integrable nonlinear boundary value problems. (English summary) **93i:81296**
Lucquin-Desreux, B. *see* **Degond, Pierre, 93g:82083**
Madore, J. *see* **Forrester, P. J.; et al., 93h:82018**
Malomed, B. A. *see* **Kaup, D. J., 93h:35198**
Markov, Yu. A. A class of exact solutions of a kinetic model of plasma equilibrium. (Russian. English and Russian summaries) **93g:35124**
Matthews, Paul C. *see* **Strogatz, Steven H.; et al., 93d:92004**
Mirollo, Renato E. *see* **Strogatz, Steven H.; et al., 93d:92004**
Naulin, V. *see* **Spatschek, K. H.; et al., 93i:76102**
Panchenko, I. P. *see* **Chernousenko, V. M.; et al., 93g:82061**
Poupaud, Frédéric Boundary value problems for the stationary Vlasov-Maxwell system. (English summary) **93i:35144**
Raviart, P.-A. *see* **Degond, Pierre, 93i:35029**
Rollins, David K. *see* **Shivamoggi, Bhimsen K.; et al., 93h:35205**
Shivamoggi, Bhimsen K. (*with* Rollins, David K.; Fanjul, R.) Analytic aspects of the Zakharov-Kuznetsov equation. (English summary) **93h:35205**
— (*with* Rollins, David K.; Fanjul, R.) Erratum on: "Analytic aspects of the Zakharov-Kuznetsov equation" [Phys. Scripta **47** (1993), no. 1, 15–17; MR 93h:35205].
Skrynnikov, Yu. I. Shock wave in resonant dispersion media. (*see* **93h:00019**)
Spatschek, K. H. (*with* Zhang, W.; Naulin, V.; Eickermann, Th.) Self-organization of nonlinear waves and vortices in driven and damped systems. (English summary) **93i:76102**
Strogatz, Steven H. (*with* Mirollo, Renato E.; Matthews, Paul C.) Coupled nonlinear oscillators below the synchronization threshold: relaxation by generalized Landau damping. **93d:92004**
Tsybenko, S. P. *see* **Krokhin, O. N., 93k:76128**
Tur, A. V. (*with* Chechkin, A. V.; Yanovskii, V. V.) Negative viscosity and generation of dissipative solitons and zonal dissipative structures by drift waves. (English summary) **93i:76103**
Wilhelmsson, Hans Evolution and self-formation in some nonlinear systems. **93e:35059**
Yanovskii, V. V. *see* **Tur, A. V.; et al., 93i:76103**
Zhang, W. *see* **Spatschek, K. H.; et al., 93i:76102**

82D15 Liquids

Fourcade, B. Theoretical results on toroidal vesicles. (English and French summaries) **93h:82073**

Items with secondary classifications in 82D15

Bondar', V. A. (*with* Lagno, V. I.; Serov, N. I.) Invariant solutions of eikonal equation simulating process of corrosion. (Russian summary) **93f:82036**
Dowker, J. S. (*with* Wolski, A.) Finite model of two-dimensional ideal hydrodynamics. (English summary) **93i:76019**
Grmela, Miroslav Mesoscopic dynamics and thermodynamics: applications to polymeric fluids. **93g:76010**
Kierlik, E. (*with* Rosinberg, M. L.) The classical fluid of associating hard rods in an external field. (English summary) **93i:82048**
(Kisin, Vitaly I.) *see* **Martynov, G. A., 93i:82001**
Lagno, V. I. *see* **Bondar', V. A.; et al., 93f:82036**
Martynov, G. A. ★ Fundamental theory of liquids. **93i:82001**
Nasilowski, Ralf A cellular-automaton fluid model with simple rules in arbitrarily many dimensions. **93a:76080**
Rosinberg, M. L. *see* **Kierlik, E., 93i:82048**
Serov, N. I. *see* **Bondar', V. A.; et al., 93f:82036**
Wolski, A. *see* **Dowker, J. S., 93i:76019**

82D20 Solids

Altmann, Simon L. ★ Band theory of solids: an introduction from the point of view of symmetry. **93g:82097**
Cenedese, P. (*with* Gratias, D.) Multicomponent formalism in the mean-field approximation: a geometric interpretation of Chebychev polynomials. **93e:82048**
Gratias, D. *see* **Cenedese, P., 93e:82048**
Greiter, Martin (*with* Wen, Xiao-Gang; Wilczek, Frank) Paired Hall states. **93i:82075**
Janicki, Aleksander *see* **Weron, K., (93a:60004)**
Joshua, S. J. ★ Symmetry principles and magnetic symmetry in solid state physics.
Kinderlehrer, David Some methods of analysis in the study of microstructure. (*see* **93m:00047**)
Lipiński, S. Solitons in a one-dimensional degenerate Hubbard model. **93c:82064**
Luchinskaya, E. A. (*with* Tareeva, E. E.) An isotropic model of quadrupolar glass. II. Breakdown of replica symmetry. (Russian. English and Russian summaries) **93j:82071**
Nachaoui, Abdeljalil (*with* Nassif, Nabil R.) On the uniqueness of the solution to the drift-diffusion model in semiconductor analysis. (English summary) **93k:82067**
Nassif, Nabil R. *see* **Nachaoui, Abdeljalil, 93k:82067**
Piekarski, Sławomir Quasi-particle kinetic equation in a deformable material continuum. **93g:82098**
Poupaud, Frédéric Runaway phenomena and fluid approximation under high fields in semiconductor kinetic theory. (English, German and Russian summaries) **93h:82074**
Rammer, Jørgen Quantum transport theory of electrons in solids: a single-particle approach. **93e:82049**
Schwinger, Julian Casimir energy for dielectrics: spherical geometry. (English summary) **93j:82072**
Skrynnikov, Yu. I. Shock wave in resonant dispersion media. (*see* **93h:00019**)
Tareeva, E. E. *see* **Luchinskaya, E. A., 93j:82071**
Wen, Xiao-Gang *see* **Greiter, Martin; et al., 93i:82075**
Weron, K. (*with* Janicki, Aleksander) A fractal time model for non-Debye relaxation in polar dielectrics. (*see* **93a:60004**)
Wilczek, Frank *see* **Greiter, Martin; et al., 93i:82075**

Items with secondary classifications in 82D20

Chernyak, V. Ya. The most general representation of spin operators via boson operators. **93b:81101**
Fang, Wei Fu (*with* Ito, Kazufumi) Identifiability of semiconductor defects from LBIC images. (English summary) **93j:35186**
Ito, Kazufumi *see* **Fang, Wei Fu, 93j:35186**
Kawakami, Norio (*with* Yang, Sung-Kil) Conformal field theory approach to one-dimensional quantum liquids. (English summary) **93k:81268**
Koptsik, V. A. Crystallography of quasicrystals: the problem of restoration of broken symmetry. **93i:82077**
Kramer, Peter (*with* Papadopolos, Z.; Zeidler, D.) Symmetries of icosahedral quasicrystals. **93b:82081**
Mahan, Gerald D. ★ Many-particle physics. **93a:82001**
Malyshev, K. L. Gauge group and gauge transformation in the continuum theory of defects. (Russian. English summary) **93k:73014**
Maruszewski, Bogdan Extended thermodynamical description of elastic semiconductors. **93b:80003**
Mermin, N. David The space groups of icosahedral quasicrystals and cubic, orthorhombic, monoclinic, and triclinic crystals. **93d:82077a**
— Erratum: "The space groups of icosahedral quasicrystals and cubic, orthorhombic, monoclinic, and triclinic crystals". **93d:82077b**
— Erratum: "The space groups of icosahedral quasicrystals and cubic, orthorhombic, monoclinic, and triclinic crystals" [Rev. Modern Phys. **64** (1992), no. 1, 3–49; MR 93d:82077a]. **93m:82051**
Niizeki, Komajiro The space groups of orthorhombic approximants to the icosahedral quasilattice. **93f:82058**
Papadopolos, Z. *see* **Kramer, Peter; et al., 93b:82081**
Peters, C. A. M. Algebraic Fermi curves (after Gieseker, Trubowitz and Knörrer). **93b:58115**
Pitteri, Mario Some remarks on a derivation of equations of balance for microstructured continua from Maxwell's statistical mechanics. **93e:82005**
Sánchez, Angel (*with* Vázquez, Luis) Nonlinear wave propagation in disordered media. **93d:35147**
Sandvik, A. W. A generalization of Handscomb's quantum Monte Carlo scheme—application to the 1D Hubbard model. **93c:82062**
Stone, Michael Wilson loops and nonabelian statistics in the quantum Hall effect. (English summary) **93f:81166**
Su, W. P. *see* **Yang, J., 93k:81272**
Tanasi, Corrado The triple linking number and applications to the theory of defects in ordered media. (Italian. English summary) **93c:57009**
Vázquez, Luis *see* **Sánchez, Angel, 93d:35147**
Yang, J. (*with* Su, W. P.) The hierarchy theory of the fractional quantum Hall effect. (English summary) **93k:81272**
Yang, Sung-Kil *see* **Kawakami, Norio, 93k:81268**
Zeidler, D. *see* **Kramer, Peter; et al., 93b:82081**
Zhidkov, P. E. On the existence of a countable set of solutions in a problem of polaron theory. (Russian) **93i:34048**
Zubov, V. I. Quasi-classical self-consistent theory of anharmonic crystals. **93b:82082**

82D25 Crystals {For crystallographic group theory, see 20H15.}

Ben-Abraham, S. I. Defective vertex configurations in quasicrystalline structures. (English summary) **93m:82050**
Bentosela, F. Stark-Wannier resonant states. (English summary) **93f:82057**
Conti, Luigi G. Decahedral and icosahedral symmetries: an aperiodic multiple twinning model with linear strains and density inhomogeneity. **93c:82065**
Dumas, H. Scott Existence and stability of particle channeling in crystals on timescales beyond all orders. (*see* **93i:00016**)
van Enter, Aernout C. D. (*with* Miękisz, Jacek) How should one define a (weak) crystal? **93b:82080**
Gruber, Boris Topological approach to the Niggli lattice characters. **93c:82066**
Heinz, A. (*with* Neumann, P.) Representation of orientation and disorientation data for cubic, hexagonal, tetragonal and orthorhombic crystals. **93c:82067**
Iochum, Bruno (*with* Raymond, L.; Testard, D.) Resistance of one-dimensional quasicrystals. (English summary) **93i:82076**
Kapitonov, V. S. (*with* Popov, V. N.) The functional approach to the theory of Coulomb crystals. (Russian) **93a:82057**
Koptsik, V. A. Crystallography of quasicrystals: the problem of restoration of broken symmetry. **93i:82077**
Kramer, Peter (*with* Papadopolos, Z.; Zeidler, D.) Symmetries of icosahedral quasicrystals. **93b:82081**
Kruskal, Martin D. (*with* Segur, Harvey) Asymptotics beyond all orders in a model of crystal growth. **93a:82058**
Liopo, V. A. Point symmetry and the lattice of a crystal. (Russian. English and Russian summaries) **93k:82068**
Mermin, N. David The space groups of icosahedral quasicrystals and cubic, orthorhombic, monoclinic, and triclinic crystals. **93d:82077a**
— Erratum: "The space groups of icosahedral quasicrystals and cubic, orthorhombic, monoclinic, and triclinic crystals". **93d:82077b**
— Erratum: "The space groups of icosahedral quasicrystals and cubic, orthorhombic, monoclinic, and triclinic crystals" [Rev. Modern Phys. **64** (1992), no. 1, 3–49; MR 93d:82077a]. **93m:82051**
Miękisz, Jacek *see* **van Enter, Aernout C. D., 93b:82080**
Neumann, P. *see* **Heinz, A., 93c:82067**
Niizeki, Komajiro Theory of "self-similarity" of periodic approximants to a quasilattice. **93f:82059**
— The space groups of orthorhombic approximants to the icosahedral quasilattice. **93f:82058**
Papadopolos, Z. *see* **Kramer, Peter; et al., 93b:82081**
Pillet, C.-A. Stabilization of needle-crystals by the Gibbs-Thomson effect. **93h:82075**
Plokhotnikov, K. È. The possibility of a finite crystal at zero temperature (the energy-geometric aspect). (Russian) **93e:82050**
Popov, V. N. *see* **Kapitonov, V. S., 93a:82057** *and* **Vozyakov, V. I., 93a:82059**
Raymond, L. *see* **Iochum, Bruno; et al., 93i:82076**
Sacchetti, Andrea Asymptotic expansion of the Stark-Wannier states. **93d:82078**
Segur, Harvey *see* **Kruskal, Martin D., 93a:82058**
Shmueli, Uri (*with* Weiss, George H.) Exact conditional joint probability distribution of a three-phase invariant in space group P2. I. Derivation of the Fourier coefficients. **93f:82060**
Steinrück, H. The Wigner Poisson problem in a crystal: existence, uniqueness, semiclassical limit in the one-dimensional case. (German and Russian summaries) **93e:82051**
Szeto, K. Y. *see* **Wu, Yihren, 93g:82099**
Testard, D. *see* **Iochum, Bruno; et al., 93i:82076**
Vozyakov, V. I. (*with* Popov, V. N.) The functional approach to the theory of quantum crystallization. (Russian) **93a:82059**
Weiss, George H. *see* **Shmueli, Uri, 93f:82060**
Wu, Yihren (*with* Szeto, K. Y.) Topological classification of defects in two-dimensional quasicrystals. **93g:82099**
Zeidler, D. *see* **Kramer, Peter; et al., 93b:82081**
Zubov, V. I. Quasi-classical self-consistent theory of anharmonic crystals. **93b:82082**

Items with secondary classifications in 82D25

Adams, B. L. (*with* Boehler, J.-P.; Guidi, M.; Onat, E. T.) Group theory and representation of microstructure and mechanical behavior of polycrystals. **93b:73002**
Banach, Zbigniew (*with* Piekarski, Sławomir) The Einstein-Smoluchowski promeasure and the stochastic Boltzmann-Peierls equation. (English summary) **93k:82043**
Baranidharan, S. (*with* Gopal, E. S. R.; Sasisekharan, V.) Quasiperiodic tilings with fourfold symmetry. (English summary) **93h:52026**
Bellissard, Jean Renormalization group analysis and quasicrystals. **93k:81045**
Beukemann, A. (*with* Klee, W. E.) Minimal nets. (English summary) **93d:05127**
Billiet, Yves *see* **Rekik, Mongi**
Boehler, J.-P. *see* **Adams, B. L.; et al., 93b:73002**
Bousquet-Mélou, Mireille Convex polyominoes and heaps of segments. **93f:05030**
— Convex polyominoes and algebraic languages. **93f:05031**
Brattkus, K. (*with* Meiron, D. I.) Numerical simulations of unsteady crystal growth. (English summary) **93f:35245**
Chen, Chuan Hong The setting of space groups and transformations of symmetry elements. (Chinese. English summary) **93d:20089**
Clark, D. S. (*with* Suryanarayan, E. R.) Quasiperiodic tilings with low-order rotational symmetry. **93b:52021a**
— (*with* Suryanarayan, E. R.) Erratum: "Quasiperiodic tilings with low-order rotational symmetry". **93b:52021b**
Clemence, Dominic P. Some layer-stripping formulae for the Schrödinger equation with a periodic potential. (English summary) **93h:35150**
Degond, Pierre (*with* Markowich, Peter A.) A mathematical analysis of quantum transport in three-dimensional crystals. **93h:82069**
Dencker, Nils The propagation of polarization in double refraction. **93e:35108**
Duneau, M. (*with* Oguey, C.; Thalal, A.) Coincidence lattices and associated shear transformations. (English summary) **93f:52021**
Engel, Peter On the symmetry classification of the four-dimensional parallelohedra. **93i:52020**
Ericksen, J. L. Bifurcation and martensitic transformations in Bravais lattices. **93f:73013**
Eringen, A. Cemal Continuum theory of microstretch liquid crystals. (English summary) **93k:73011**
Fradkin, M. A. Special algorithm for computer calculation of the point group invariants. (English summary) **93j:20036**
Frésard, R. (*with* Wölfle, P.) Unified slave boson representation of spin and charge degrees of freedom for strongly correlated Fermi systems. **93k:81266a**
— (*with* Wölfle, P.) Errata: "Unified slave boson representation of spin and charge degrees of freedom for strongly correlated Fermi systems". **93k:81266b**
Godrèche, C. (*with* Lançon, F.) A simple example of a non-Pisot tiling with five-fold symmetry. (English and French summaries) **93j:52033**
— *see also* **Solids far from equilibrium, 93g:82042**
Gonchar, N. S. ★ Конденсация и кристаллизация. (Russian) [Condensation and crystallization] **93d:82009**
Goncharskiĭ, A. V. (*with* Kolpakov, A. V.; Stepanov, Aleksei Alekseevich) ★ Обратные задачи рентгеновской дифрактометрии. (Russian. Russian summary) [Inverse problems of X-ray diffractometry] **93m:78016**
Gopal, E. S. R. *see* **Baranidharan, S.; et al., 93h:52026**
Guidi, M. *see* **Adams, B. L.; et al., 93b:73002**
Hu, Bambi *see* **Lin, Bin, 93g:82019**
Jablan, Slavik V. Point groups of simple and multiple antihomology $H^1_{3^0}$. (Serbo-Croatian summary) **93d:20032**
— $(p2, 2^l)$-symmetry three-dimensional space groups $G_3^{l,p2}$. **93a:20078**
Janssen, Ted W. J. M. The symmetry operations for n-dimensional periodic and quasi-periodic structures. **93b:20073**
Joshua, S. J. ★ Symmetry principles and magnetic symmetry in solid state physics.
Klee, W. E. *see* **Beukemann, A., 93d:05127**
Kolpakov, A. V. *see* **Goncharskiĭ, A. V.; et al., 93m:78016**
Lagarias, Jeffrey C. Number theory and dynamical systems. (English summary) **93m:11143**
Lançon, F. *see* **Godrèche, C., 93j:52033**
(Lima-de-Faria, J.) *see* **Historical atlas of crystallography, 93b:01001**
Lin, Bin (*with* Hu, Bambi) Frenkel-Kontorova model with Toda interactions. (English summary) **93g:82019**
Lomont, J. S. ★ Applications of finite groups. (English. English summary) **93k:20002**
Luka, A. G. *see* **Palistrant, A. F., 93d:20093**
Mansmann, Ulrich The free energy of the Dirac polaron, an explicit solution. **93e:82006**
Markowich, Peter A. *see* **Degond, Pierre, 93h:82069**
Meiron, D. I. *see* **Brattkus, K., 93f:35245**
Messager, Alain (*with* Miracle-Solé, Salvador; Ruiz, Jean) Convexity properties of the surface tension and equilibrium crystals. **93g:82021**
Milton, Graeme W. *see* **Nesi, Vincenzo, 93a:73070**
Miracle-Solé, Salvador *see* **Messager, Alain; et al., 93g:82021**
Nesi, Vincenzo (*with* Milton, Graeme W.) Polycrystalline configurations that maximize electrical resistivity. **93a:73070**
Oguey, C. *see* **Duneau, M.; et al., 93f:52021**
Onat, E. T. *see* **Adams, B. L.; et al., 93b:73002**
Ou, Biao Uniqueness of $x/|x|$ as a stable configuration in liquid crystals. **93a:76006**
Palistrant, A. F. Groups of $(p, 2)$- and $(p', 2)$-symmetry and their geometric applications. (Russian) **93d:20092**
— (*with* Luka, A. G.) Crystallographic homology groups and generalized antihomology of two-sided rosettes. (Russian) **93d:20093**
Pankratov, M. A. Evolution of the complex spectrum of a periodic operator. (Russian) **93c:34164**
Piekarski, Sławomir Quasi-particle kinetic equation in a deformable material continuum. **93g:82098**
— *see also* **Banach, Zbigniew, 93k:82043**
Rekik, Mongi (*with* Billiet, Yves) Le coloriage des familles de positions équivalentes générales et spéciales dans les groupes d'espace bidimensionnels quadricolorés. (English summary) [The coloring of general and special sets of equivalent points in two-dimensional four-colored space groups]
Ruiz, Jean *see* **Messager, Alain; et al., 93g:82021**
Sasisekharan, V. *see* **Baranidharan, S.; et al., 93h:52026**
Scholz, Erhard Die implizite Verwendung endlicher orthogonaler Gruppen in der Kristallographie der ersten Hälfte des 19. Jahrhunderts. [The implicit use of finite orthogonal groups in the crystallography of the first half of the 19th century] **93k:01040**
Senechal, Marjorie Brief history of geometrical crystallography. (*see* **93b:01001**)
Shirai, Koun The basis functions and the matrix representations of the single and double icosahedral point group. (English summary) **93m:20014**
Starita, Giulio Nonlocal variational mechanics and equilibrium of small crystals. (English summary) (*see* **93g:00030**)
Stepanov, Aleksei Alekseevich *see* **Goncharskiĭ, A. V.; et al., 93m:78016**
Suryanarayan, E. R. *see* **Clark, D. S., 93b:52021a** *and* **93b:52021b**
Thalal, A. *see* **Duneau, M.; et al., 93f:52021**
Vaskevich, V. L. Mathematical foundations of a method for the numerical analysis of the electronic band structure of a crystal. (Russian. Russian summary) **93d:35134**
Wölfle, P. *see* **Frésard, R., 93k:81266a** *and* **93k:81266b**

Items listed otherwise than by author

Historical atlas of crystallography ★ Historical atlas of crystallography. **93b:01001**
Solids far from equilibrium ★ Solids far from equilibrium. **93g:82042**

82D30 Random media, disordered materials (including liquid crystals and spin glasses)

Biscari, P. *see* **Parisi, Giorgio, 93h:82077**
Brax, Ph. On the emergence of asymptotic localization for some random diffusion processes. **93h:82076**

Cascon, Ana (*with* Koiller, Jair; Rezende, Sergio M.) Bifurcations of mode equations: spin waves. **93g:82100**
Christiano, P. L. *see* **Moreira, J. V., 93b:82083**
Glandt, Eduardo D. *see* **Thompson, Aidan P., 93d:82081**
Gredeskul, S. A. (*with* Kivshar, Yu. S.) Propagation and scattering of nonlinear waves in disordered systems. **93d:82079**
Gulyan, A. M. (*with* Nersesyan, O. N.; Sergoyan, G. M.) Electromagnetic and kinetic phenomena in superconductors and superfluid helium-3. (Russian) **93g:82101**
Heilmann, Ole J. Analytical solutions of Smoluchowski's coagulation equation. **93c:82068**
Holz, Arno Topological properties of static and dynamic defect configurations in ordered liquids. **93d:82080**
Kivshar, Yu. S. *see* **Gredeskul, S. A., 93d:82079** *and* **Virchenko, Yu. P.; et al., (93b:00013)**
Koiller, Jair *see* **Cascon, Ana; et al., 93g:82100**
Lautrup, B. Uniqueness of Parisi's scheme for replica symmetry breaking. **93e:82052**
Le Doussal, Pierre Diffusion in layered random flows, polymers, electrons in random potentials, and spin depolarization in random fields. (English summary) **93j:82073**
Luchinskaya, E. A. (*with* Tareeva, E. E.) Spin glass with $S = 1$. (Russian. English and Russian summaries) **93i:82078**
MacKinnon, A. *see* **Pendry, J. B.; et al., 93g:82102**
Moreira, J. V. (*with* Christiano, P. L.) The infinite-range Ashkin-Teller spin glass. **93b:82083**
Mühlschlegel, Bernhard Random matrix theory applied to electrons in small metal particles. (*see* **93e:81003**)
Nersesyan, O. N. *see* **Gulyan, A. M.; et al., 93g:82101**
Parisi, Giorgio (*with* Biscari, P.) Finite-volume corrections to the mean-field solution of the SK model. (English summary) **93h:82077**
Pendry, J. B. (*with* MacKinnon, A.; Roberts, P. J.) Universality classes and fluctuations in disordered systems. (English summary) **93g:82102**
Rezende, Sergio M. *see* **Cascon, Ana; et al., 93g:82100**
Roberts, P. J. *see* **Pendry, J. B.; et al., 93g:82102**
Roccato, Diego (*with* Virga, Epifanio G.) On plane defects in nematic liquid crystals with variable degree of orientation. **93g:82103**
Rymarz, Cz. Ferroelectric liquid crystals as micropolar medium in bundle space. (Russian and Polish summaries) **93a:82060**
Sergoyan, G. M. *see* **Gulyan, A. M.; et al., 93g:82101**
Shramkov, A. N. (*with* Shtifanyuk, P. P.) Branchings of a completely symmetric solution of the molecular field equation. (Russian. English and Russian summaries) **93g:82104**
Shtifanyuk, P. P. *see* **Shramkov, A. N., 93g:82104**
Soboleva, T. K. *see* **Virchenko, Yu. P.; et al., (93b:00013)**
Tareeva, E. E. *see* **Luchinskaya, E. A., 93i:82078**
Thompson, Aidan P. (*with* Glandt, Eduardo D.) The length of intersection lines and the number of cusps in assemblies of interpenetrating spheres. **93d:82081**
Virchenko, Yu. P. (*with* Kivshar, Yu. S.; Soboleva, T. K.) Kink in randomly inhomogeneous system. (*see* **93b:00013**)
Virga, Epifanio G. *see* **Roccato, Diego, 93g:82103**

Items with secondary classifications in 82D30

Calderer, Maria Carme On the mathematical modeling of textures in polymeric liquid crystals. (English summary) **93f:58058**
Carlsson, T. *see* **Leslie, F. M.; et al., 93f:73005** *and* **93m:76003**
Carneiro, C. E. I. (*with* Henriques, V. B.; Tamashiro, M. N.; Salinas, S. R.) Spin-1 Ising ferromagnet in a random crystal field. **93a:82030**
Comtet, Alain *see* **Desbois, J., 93b:82029**
Cosenza, Mario G. (*with* Kapral, Raymond) Coupled maps and pattern formation on the Sierpiński gasket. (English summary) **93g:58095**
Desbois, J. (*with* Comtet, Alain) Algebraic areas enclosed by Brownian curves on bounded domains. **93b:82029**
Edwards, S. F. The glass transition. **93g:82028**
— Some reminiscences of the sixties. **93g:82053**
— Some new extensions of the Edwards model. **93h:82028**
— Localisation via the Edwards model. **93h:82029**
Eringen, A. Cemal An assessment of director and micropolar theories of liquid crystals. (English summary) **93m:76002**
Feingold, Mario Banded random matrix ensembles. **93b:82033**
Figotin, Alexander The localization properties of a random steady flow on a lattice. **93g:82055**
Fischer, K. H. (*with* Hertz, J. A.) ★ Spin glasses. **93m:82019**
Frankel, Norman E. *see* **Taucher, T., 93k:82035**
Gandolfi, Alberto (*with* Keane, Michael S.; Newman, Charles M.) Uniqueness of the infinite component in a random graph with applications to percolation and spin glasses. **93f:60149**
Giona, Massimiliano (*with* Roman, H. Eduardo) Fractional diffusion equation on fractals: one-dimensional case and asymptotic behaviour. **93a:82043**
Graudenz, Dirk Multi-state spin glasses, neural networks and generalized subgraph polynomials. (English summary) **93d:05147**
Happel, Robert *see* **Stadler, Peter F., 93h:82026**
Hatsugai, Yasuhiro (*with* Kohmoto, Mahito) Exactly solvable model of correlated lattice electrons in any dimensions. (English summary) **93g:82033**
Henriques, V. B. *see* **Carneiro, C. E. I.; et al., 93a:82030**
Hertz, J. A. *see* **Fischer, K. H., 93m:82019**
Kapral, Raymond *see* **Cosenza, Mario G., 93g:58095**
Keane, Michael S. *see* **Gandolfi, Alberto; et al., 93f:60149**
Kohmoto, Mahito *see* **Hatsugai, Yasuhiro, 93g:82033**
Kunz, Hervé (*with* Zumbach, G.) Phase transition in a nematic n-vector model: the large-n limit. (English summary) **93m:82012**
Lang, Reinhard ★ Spectral theory of random Schrödinger operators. **93d:47144**
Laverty, J. S. *see* **Leslie, F. M.; et al., 93m:76003**
Le Caër, G. Topological models of cellular structures. **93a:82061a**
— Topological models of 2D cellular structures. II. $z \geq 5$. **93a:82061b**
Leslie, F. M. (*with* Stewart, I. W.; Carlsson, T.; Nakagawa, Masahiro) Equivalent smectic C liquid crystal energies. **93f:73005**
— (*with* Laverty, J. S.; Carlsson, T.) Continuum theory for biaxial nematic liquid crystals. (English summary) **93m:76003**
MacMillan, Ernest H. On the hydrodynamics of biaxial nematic liquid crystals. I. General theory. **93f:76005a**
— On the hydrodynamics of biaxial nematic liquid crystals. II. Steady-state analysis. **93f:76005b**
Mizel, Victor J. (*with* Roccato, Diego; Virga, Epifanio G.) A variational problem for nematic liquid crystals with variable degree of orientation. **93g:58033**
Munton, David Quenched disorder in a hierarchical Coulomb gas model. (English summary) **93j:82035**
Nakagawa, Masahiro *see* **Leslie, F. M.; et al., 93f:73005**
Newman, Charles M. *see* **Gandolfi, Alberto; et al., 93f:60149**
Niu, Qian Quantum coherence of a narrow-band particle interacting with phonons and static disorder. **93b:82034**
Pershin, Vl. K. The butterfly catastrophe and mesophase stability in an external field. **93m:82013**
Pismen, L. M. (*with* Rubinstein, Jacob) Dynamics of disclinations in liquid crystals. **93h:73008**
Pomraning, Gerald C. ★ Linear kinetic theory and particle transport in stochastic mixtures. **93g:82092**
Rica, Sergio (*with* Tirapegui, Enrique) Dynamics of vortices in the Ginzburg-Landau equation. **93b:82093**
Roccato, Diego *see* **Mizel, Victor J.; et al., 93g:58033**
Roman, H. Eduardo *see* **Giona, Massimiliano, 93a:82043**
Rubinstein, Jacob *see* **Pismen, L. M., 93h:73008**
Ruzmaikin, A. A. *see* **Zel'dovich, Ya. B.; et al., 93b:82001**
Salinas, S. R. *see* **Carneiro, C. E. I.; et al., 93a:82030**
(Shukurov, A. M.) *see* **Zel'dovich, Ya. B.; et al., 93b:82001**
Sokolov, D. D. *see* **Zel'dovich, Ya. B.; et al., 93b:82001**
Stadler, Peter F. (*with* Happel, Robert) Correlation structure of the landscape of the graph-bipartitioning problem. **93h:82026**
Stewart, I. W. *see* **Leslie, F. M.; et al., 93f:73005**
Tamashiro, M. N. *see* **Carneiro, C. E. I.; et al., 93a:82030**
Taucher, T. (*with* Frankel, Norman E.) Annealed n-vector p-spin model. (English summary) **93k:82035**
Tirapegui, Enrique *see* **Rica, Sergio, 93b:82093**
Virga, Epifanio G. *see* **Mizel, Victor J.; et al., 93g:58033**
Vlad, Marcel Ovidiu A renormalization approach to a class of exponential random processes with application to the bronchial tree. **93f:82026**
Zel'dovich, Ya. B. (*with* Ruzmaikin, A. A.; Sokolov, D. D.) ★ The almighty chance. **93b:82001**
Zimmermann, Walter On travelling waves in electrohydrodynamic convection in nematics. **93g:76013**
Zumbach, G. *see* **Kunz, Hervé, 93m:82012**

82D35 Metals

Fujita, Shigeji (*with* Godoy, S.) Newtonian equations of motion for a Bloch electron. (Spanish summary) **93g:82105**
Godoy, S. *see* **Fujita, Shigeji, 93g:82105**
Kassner, K. (*with* Misbah, C.) Similarity equation in nonaxisymmetric lamellar eutectic growth. **93b:82084**
Le Caër, G. Topological models of cellular structures. **93a:82061a**
— Topological models of 2D cellular structures. II. $z \geq 5$. **93a:82061b**
Misbah, C. *see* **Kassner, K., 93b:82084**
Moroz, Alexander Dimensional reduction of a generalized flux problem. **93c:82069**
Owen, Nicholas C. (*with* Sternberg, Peter) Gradient flow and front propagation with boundary contact energy. **93e:82053**
Pankratov, M. A. *see* **Pavlov, B. S., 93e:82054**
Pavlov, B. S. (*with* Pankratov, M. A.) Electron transport in quasi-one-dimensional random structure. **93e:82054**
Sternberg, Peter *see* **Owen, Nicholas C., 93e:82053**
Wen, Xiao-Gang Theory of the edge states in fractional quantum Hall effects. **93a:82062**
Zirnbauer, Martin R. Super Fourier analysis and localization in disordered wires. (English summary) **93f:82061**

Items with secondary classifications in 82D35

Altmann, Simon L. ★ Band theory of solids: an introduction from the point of view of symmetry. **93g:82097**
Bezák, V. A modification of the Wiener process due to a Poisson random train of diffusion-enhancing pulses. (English summary) **93g:60170**
Farkasovsky, Pavol Ground state properties of the simplified Hubbard model. (English summary) **93h:82061**
Grinshpun, V. Z. The point spectrum of an infinite-order random operator that acts in $l^2(\mathbf{Z}^d)$. (Russian. English and Russian summaries) **93i:47121**
Hikami, Shinobu Localization, nonlinear σ model and string theory. (English summary) **93i:81308**
Lee, Chin Rong (*with* Yu, Jyh Ping) On q-deformed free electron gases. **93c:82007**
Sugiyama, Akira Pseudopotential theory for interionic interaction potentials in metals at nonzero temperature. I. Elementary derivation of asymptotic expressions on basis of Hilbert transforms. (English summary) **93m:44008**
Yu, Jyh Ping *see* **Lee, Chin Rong, 93c:82007**
Zhang, Hong Fei On the sputtering of metals and insulators: a nonlinear evolution problem with nonlinear boundary condition. **93h:35110**
Zharkov, V. M. Symmetry tower for the Hubbard model. (Russian. English summary) **93b:82035**

82D40 Magnetic materials

Bar'yakhtar, V. G. Phenomenological theory of relaxation processes in magnets. (Russian) **93e:82055**

Brandon, D. (*with* Rogers, R. C.) The coercivity paradox and nonlocal ferromagnetism. **93b:82085**

Fazekas, Patrik Ground state phase diagram of strongly interacting electron systems: the Kondo lattice. **93c:82070**

Georges, Antoine (*with* Kotliar, Gabriel; Si, Qimiao) Strongly correlated systems in infinite dimensions and their zero-dimensional counterparts. **93f:82062**

Gutshabash, E. Sh. (*with* Lipovskiĭ, V. D.) Exact solutions of the nonlinear sigma model in curved space and the theory of magneto-ordered media with variable saturation time. (Russian. English summary) **93c:82071**

James, Richard Dana (*with* Kinderlehrer, David) An example of frustration in a ferromagnetic material. (English summary) (*see* **93d:58007**)

Kamchatnov, A. M. Periodic nonlinear waves in a uniaxial ferromagnet. (Russian) **93k:82069**

Kawashima, Takashi A drone representation of the two-dimensional Heisenberg antiferromagnet.

Kinderlehrer, David *see* **James, Richard Dana**, (**93d:58007**)

Kotliar, Gabriel *see* **Georges, Antoine; et al.**, **93f:82062**

Lipovskiĭ, V. D. *see* **Gutshabash, E. Sh.**, **93c:82071**

Martynov, S. N. Spectral and dispersion properties of paired soliton states in a quasi-one-dimensional anisotropic antiferromagnet with $S = 1/2$. (Russian. English and Russian summaries) **93f:82063**

Mielke, Andreas Ferromagnetism in the Hubbard model and Hund's rule. (English summary) **93m:82052**

Rogers, R. C. *see* **Brandon, D.**, **93b:82085**

Si, Qimiao *see* **Georges, Antoine; et al.**, **93f:82062**

Tasaki, Hal Ferromagnetism in the Hubbard models with degenerate single-electron ground states. (English summary) **93f:82064**

Zee, A. Nonabelian flux and spin liquid states. **93f:82065**

Items with secondary classifications in 82D40

Abraham, D. B. (*with* Upton, P. J.) Droplet singularity. (English summary) **93k:82009**

Alouges, François (*with* Soyeur, Alain) On global weak solutions for Landau-Lifshitz equations: existence and nonuniqueness. **93i:35148**

Baez, John C. (*with* Bishop, Alan R.; Dandoloff, Rossen) On the Hopf term in a two-dimensional σ model for antiferromagnets. **93f:82017**

Balachandran, A. P. (*with* Ercolessi, E.; Morandi, G.; Srivastava, A. M.) ★ Hubbard model and anyon superconductivity. **93g:82108**

Bishop, Alan R. *see* **Baez, John C.; et al.**, **93f:82017**

Dandoloff, Rossen *see* **Baez, John C.; et al.**, **93f:82017**

Dotsenko, Vladimir S. *see* **Parisi, Giorgio**, **93g:82057**

Ercolessi, E. *see* **Balachandran, A. P.; et al.**, **93g:82108**

Floratos, E. G. A Lagrangian resolution of the momentum problem for two-dimensional ferromagnets. **93b:82038**

Frésard, R. (*with* Wölfle, P.) Unified slave boson representation of spin and charge degrees of freedom for strongly correlated Fermi systems. **93k:81266a**

— (*with* Wölfle, P.) Errata: "Unified slave boson representation of spin and charge degrees of freedom for strongly correlated Fermi systems". **93k:81266b**

Khoruzhenko, B. A. (*with* Shcherbina, M. V.) The limit of an infinitely large number of spin components of an unordered n-vector model. (Russian. Russian summary) **93g:82011**

Mezincescu, Luca (*with* Nepomechie, Rafael I.) Fusion procedure for open chains. **93j:82025**

Minlos, R. A. (*with* Mogil'ner, A. I.) Some problems concerning spectra of lattice models. **93c:81154**

Mogil'ner, A. I. *see* **Minlos, R. A.**, **93c:81154**

Morandi, G. *see* **Balachandran, A. P.; et al.**, **93g:82108**

Nepomechie, Rafael I. *see* **Mezincescu, Luca**, **93j:82025**

Nishimori, Hidetoshi (*with* Saika, Yôhei) Note on twisted order in the frustrated quantum Heisenberg model. **93d:82023**

Parisi, Giorgio (*with* Dotsenko, Vladimir S.) Random magnetic fields and instantons in replica space. **93g:82057**

Saika, Yôhei *see* **Nishimori, Hidetoshi**, **93d:82023**

Shcherbina, M. V. *see* **Khoruzhenko, B. A.**, **93g:82011**

Soyeur, Alain *see* **Alouges, François**, **93i:35148**

Srivastava, A. M. *see* **Balachandran, A. P.; et al.**, **93g:82108**

Tian, Guang Shan Antiferromagnetism and spin waves in the Hubbard model at half-filling. **93b:82019**

Ul'yanov, Vladimir Vladimirovich (*with* Zaslavskiĭ, O. B.) New methods in the theory of quantum spin systems. (English summary) **93g:82025**

Upton, P. J. *see* **Abraham, D. B.**, **93k:82009**

Wölfle, P. *see* **Frésard, R.**, **93k:81266a** *and* **93k:81266b**

Zaslavskiĭ, O. B. *see* **Ul'yanov, Vladimir Vladimirovich**, **93g:82025**

82D45 Ferroelectrics

Barbulyak, V. S. (*with* Kondrat'ev, Yu. G.) Phase transition in order-disorder ferroelectrics. (Russian. Russian summary) **93j:82074**

Kondrat'ev, Yu. G. *see* **Barbulyak, V. S.**, **93j:82074**

Romano, Antonio (*with* Şuhubi, Erdoğan S.) Structure of Weiss domains in ferroelectric crystals. (English summary) **93h:82078**

Şuhubi, Erdoğan S. *see* **Romano, Antonio**, **93h:82078**

82D50 Superfluids

Ahmad, Mubarak (*with* Hanna, M. H.; Tikoo, S. K.; Raina, T. K.) Coherent state in the roton region of superfluid helium-4. **93a:82063**

— Nucleation of vortices in superfluid helium-4. **93a:82064**

Angelescu, N. (*with* Verbeure, André; Zagrebnov, V. A.) On Bogoliubov's model of superfluidity. **93d:82082**

Boyanovsky, Daniel Gauge invariance and broken symmetries in anyon superfluids. (English summary) **93g:82106**

Chorin, Alexandre Joel A vortex model with superfluid and turbulent percolation. (English summary) **93j:82075**

Gredzhuk, V. I. Justification of the approximating Hamiltonian method in Bogolyubov's theory of superfluidity. (Russian. English and Russian summaries) **93g:82107**

Hanna, M. H. *see* **Ahmad, Mubarak; et al.**, **93a:82063**

Raina, T. K. *see* **Ahmad, Mubarak; et al.**, **93a:82063**

Thomas, Steven A modified Kosterlitz-Thouless phase transition in two-dimensional vortex systems. (English summary) **93j:82076**

Tikoo, S. K. *see* **Ahmad, Mubarak; et al.**, **93a:82063**

Verbeure, André *see* **Angelescu, N.; et al.**, **93d:82082**

Zagrebnov, V. A. *see* **Angelescu, N.; et al.**, **93d:82082**

Items with secondary classifications in 82D50

Balachandran, A. P. (*with* Ercolessi, E.; Morandi, G.; Srivastava, A. M.) ★ Hubbard model and anyon superconductivity. **93g:82108**

Buttke, Thomas F. Turbulence and vortices in superfluid helium. (*see* **93f:76078**)

Campbell, C. E. *see* **Senger, G.; et al.**, **93i:81310**

Carter, Brandon (*with* Khalatnikov, I. M.) Momentum, vorticity, and helicity in covariant superfluid dynamics. (English summary) **93m:83046**

Chorin, Alexandre Joel Equilibrium statistics of a vortex filament with applications. **93j:76041**

Clark, J. W. *see* **Senger, G.; et al.**, **93i:81310**

Ercolessi, E. *see* **Balachandran, A. P.; et al.**, **93g:82108**

Ichiyanagi, Masakazu Field-theoretic approach to hydrodynamics. II. The superfluid hydrodynamics. **93a:76002b**

Khalatnikov, I. M. *see* **Carter, Brandon**, **93m:83046**

Morandi, G. *see* **Balachandran, A. P.; et al.**, **93g:82108**

Ristig, M. L. *see* **Senger, G.; et al.**, **93i:81310**

Senger, G. (*with* Ristig, M. L.; Campbell, C. E.; Clark, J. W.) Correlated density matrix theory of normal quantum fluids. (English summary) **93i:81310**

Srivastava, A. M. *see* **Balachandran, A. P.; et al.**, **93g:82108**

Tian, Guang Shan A rigorous theorem on off-diagonal long-range order of boson systems. **93c:82009**

van Weert, Ch. G. Derivative expansion method in superconductivity and superfluidity theory. **93b:82089**

Zhang, Shou Cheng The Chern-Simons-Landau-Ginzburg theory of the fractional quantum Hall effect. **93f:81167**

82D55 Superconductors

Adkhamov, A. A. (*with* Tailanov, N. A.) The self-similar regime and the dynamics of the development of instability of the critical state in high-temperature superconductors. (Russian. Tajiki summary)

Affleck, Ian Field theory methods and strongly correlated electrons. **93a:82065**

Balachandran, A. P. (*with* Ercolessi, E.; Morandi, G.; Srivastava, A. M.) ★ Hubbard model and anyon superconductivity. **93g:82108**

Barany, Ernest (*with* Golubitsky, Martin; Turski, Jacek) Bifurcations with local gauge symmetries in the Ginzburg-Landau equations. **93i:82079**

Bariev, R. Z. Excitations in the integrable model with two- and three-particle interactions. **93b:82086**

— (*with* Klümper, Andreas; Schadschneider, A.; Zittartz, J.) Exact solution of a one-dimensional model of hole superconductivity. (English summary)

Bolley, C. Modélisation du champ de retard à la condensation d'un supraconducteur par un problème de bifurcation. (English summary) [Modeling the delay field of condensation of a superconductor via a bifurcation problem] **93a:82066**

Boutet de Monvel-Berthier, Anne-Marie (*with* Georgescu, Vladimir; Purice, Radu) A boundary value problem related to the Ginzburg-Landau model. **93a:82067**

Danani, Andrea (*with* Montorsi, Arianna; Rasetti, Mario) Pairing in the extended Hubbard model: dimer Fermi-linearized approach. (English summary) (*see* **93g:81002**)

Dias, Ricardo G. (*with* Lopes dos Santos, J. M. B.) Simple representation of the eigenstates of the $U \to \infty$ one-dimensional Hubbard model. (English summary) **93k:82070**

Du, Qiang (*with* Gunzburger, Max D.; Peterson, Janet S.) Analysis and approximation of the Ginzburg-Landau model of superconductivity. **93g:82109**

Englisch, H. (*with* Šeba, P.) Cooper pairs with point interaction. **93c:82072**

Ercolessi, E. *see* **Balachandran, A. P.; et al.**, **93g:82108**

Esebbag, C. (*with* Getino, J. M.; de Llano, M.; et al.) Cooper pairing in one, two, and three dimensions. **93a:82068**

Friedman, Avner (*with* Hu, Bei) A free boundary problem arising in superconductor modeling. (English summary) **93k:82071**

Garcia de Andrade, L. C. Torsion, superconductivity, and massive electrodynamics. **93b:82087**

Georgescu, Vladimir *see* **Boutet de Monvel-Berthier, Anne-Marie; et al.**, **93a:82067**

Getino, J. M. *see* **Esebbag, C.; et al.**, **93a:82068**

(Glowinski, Roland) *see* **Barany, Ernest; et al.**, **93i:82079**

Golubitsky, Martin *see* **Barany, Ernest; et al.**, **93i:82079**

Gulyan, A. M. (*with* Zharkov, G. F.; Sergoyan, G. M.) Time-dependent Ginzburg-Landau equations for superconductors with finite gap. (Russian) **93d:82083**

Gunzburger, Max D. *see* **Du, Qiang; et al.**, **93g:82109**

Hu, Bei *see* **Friedman, Avner**, **93k:82071**

Ishikawa, Kenzo A mean field theory for the quantum Hall liquid. I. (English summary) **93h:82079**

Izmailov, A. F. (*with* Kessel', A. R.) Calculation of a quantum partition function of the BCS model in a nonregular phase. (Russian. English and Russian summaries) **93i:82080**

Kalalb, M. G. (*with* Kochorbé, F. G.; Palistrant, M. E.) Superconductivity on the basis of a model with three intersecting energy zones with a nonphonon mechanism. (Russian. English and Russian summaries) **93i:82081**

Kessel', A. R. *see* **Izmailov, A. F., 93i:82080**
Klümper, Andreas *see* **Bariev, R. Z.; et al.**
Kochorbé, F. G. *see* **Kalaĭb, M. G.; et al., 93i:82081**
de Llano, M. *see* **Esebbag, C.; et al., 93a:82068**
Lopes dos Santos, J. M. B. *see* **Dias, Ricardo G., 93k:82070**
Maksimov, A. G. (*with* Nekorkin, V. I.) Fronts in distributed Josephson junctions. (Russian. English and Russian summaries) **93i:82082**
Malyshev, K. (*with* Popov, V. N.) Superconducting states in the two-dimensional Hubbard model with repulsion. (Russian. English summary) **93c:82073**
Marino, E. C. Continuum models for high-T_c superconductors: topological excitations and generalized statistics. (English summary) (*see* **93b:81004**)
Misirpashaev, T. Sh. (*with* Volovik, G. E.) Topology of coherent precession in superfluid ^{3}He-*B*. (Russian) **93i:82083**
Montorsi, Arianna *see* **Danani, Andrea; et al., (93g:81002)**
Morandi, G. *see* **Balachandran, A. P.; et al., 93g:82108**
Nekorkin, V. I. *see* **Maksimov, A. G., 93i:82082**
(Nussenzveig Lopes, H. J.) *see* **Barany, Ernest; et al., 93i:82079**
Ockendon, J. R. Some macroscopic models for superconductivity. (*see* **93f:35008**)
Palistrant, M. E. *see* **Kalaĭb, M. G.; et al., 93i:82081**
Peterson, Janet S. *see* **Du, Qiang; et al., 93g:82109**
Popov, V. N. *see* **Malyshev, K., 93c:82073**
Purice, Radu *see* **Boutet de Monvel-Berthier, Anne-Marie; et al., 93a:82067**
Rasetti, Mario *see* **Danani, Andrea; et al., (93g:81002)**
Schadschneider, A. *see* **Bariev, R. Z.; et al.**
Šeba, P. *see* **Englisch, H., 93c:82072**
Seiler, Ruedi On the quantum Hall-effect. (*see* **93e:81007**)
Sergoyan, G. M. *see* **Gulyan, A. M.; et al., 93d:82083**
Srivastava, A. M. *see* **Balachandran, A. P.; et al., 93g:82108**
Tsilanov, N. A. *see* **Adkhamov, A. A.**
Takahashi, Yasushi *see* **Toyoda, Tadashi, 93a:82069**
Toyoda, Tadashi (*with* Takahashi, Yasushi) Marginal Fermi-liquid model and Ward-Takahashi relations. **93a:82069**
Tran Minh Tien The electron-phonon superconductivity mechanism in the Hubbard model. (Russian. English and Russian summaries)
Turski, Jacek *see* **Barany, Ernest; et al., 93i:82079**
Volovik, G. E. *see* **Misirpashaev, T. Sh., 93i:82083**
Wang, Sheng (*with* Yang, Yi Song) Symmetric superconducting states in thin films. **93b:82088**
van Weert, Ch. G. Derivative expansion method in superconductivity and superfluidity theory. **93b:82089**
Weiss, Nathan Bosonic Chern-Simons field theory of anyon superconductivity. (English summary)
Yang, Yi Song On the Bardeen-Cooper-Schrieffer integral equation in the theory of superconductivity. **93d:82084**
— *see also* **Wang, Sheng, 93b:82088**
Zharkov, G. F. *see* **Gulyan, A. M.; et al., 93d:82083**
Zittartz, J. *see* **Bariev, R. Z.; et al.**

Items with secondary classifications in 82D55

Chapline, George Quantum model for space-time. **93g:83045**
Chau, Ling-Lie (*with* Yu, Yue) Unitary polynomials in normal matrix models and wave functions for the fractional quantum Hall effects. **93d:81151**
Cristofano, Gerardo (*with* Maiella, G.; Musto, R.; Nicodemi, F.) Coulomb gas vertex operators for the fractional quantum Hall effect. (English summary) **93i:81216**
Du, Qiang (*with* Gunzburger, Max D.; Peterson, Janet S.) Finite element approximation of a periodic Ginzburg-Landau model for type-II superconductors. (English summary) **93j:65178**
Eliezer, D. (*with* Semenoff, Gordon W.) Anyonization of lattice Chern-Simons theory. **93i:81174**
Ezawa, Zyun F. (*with* Iwazaki, Aiichi) Derivation of Laughlin's wavefunction in anyon system. **93c:81278**
— (*with* Hotta, Masahiro; Iwazaki, Aiichi) Anyon field theory and fractional quantum Hall states. (English summary) **93i:81307**
Fradkin, Eduardo Anyons for beginners. (English summary) (*see* **93b:81004**)
Fröhlich, Jürg (*with* Gabbiani, F.; Marchetti, P. A.) Braid statistics in three-dimensional local quantum theory. **93a:81112**
Gabbiani, F. *see* **Fröhlich, Jürg; et al., 93a:81112**
Gulyan, A. M. (*with* Nersesyan, O. N.; Sergoyan, G. M.) Electromagnetic and kinetic phenomena in superconductors and superfluid helium-3. (Russian) **93g:82101**
Gunzburger, Max D. *see* **Du, Qiang; et al., 93j:65178**
Hotta, Masahiro *see* **Ezawa, Zyun F.; et al., 93i:81307**
Ichinose, Ikuo (*with* Matsui, Tetsuo) Dynamics of the composite gauge boson in the CP^{N-1} model with fermion and the charge-spin separation. (English summary) **93k:81267**
Iengo, Roberto (*with* Lechner, Kurt) Anyon quantum mechanics and Chern-Simons theory. **93e:81073**
Iwazaki, Aiichi *see* **Ezawa, Zyun F., 93c:81278** *and* **93i:81307**
Kapitonov, V. S. (*with* Popov, V. N.) The functional approach to the theory of Coulomb crystals. (Russian) **93a:82057**
Kazantsev, V. P. *see* **Zolotov, O. A., 93m:78007**
Lechner, Kurt *see* **Iengo, Roberto, 93e:81073**
Lykken, Joseph D. (*with* Sonnenschein, Jacob; Weiss, Nathan) The theory of anyonic superconductivity: a review. **93b:81314**
Maiella, G. *see* **Cristofano, Gerardo; et al., 93i:81216**
Makhan'kov, V. G. (*with* Pashaev, O. K.) Integrable classical Heisenberg models on superalgebra spl(2/1). **93c:82018**
Marchetti, P. A. *see* **Fröhlich, Jürg; et al., 93a:81112**
Marder, M. (*with* Papanicolaou, N.; Psaltakis, G. C.) Phase separation in a *t-J* model. (*see* **93b:00013**)
Matsui, Tetsuo *see* **Ichinose, Ikuo, 93k:81267**
Matsumoto, Hideki Retarded formulation at finite temperature. **93b:81294**
Musto, R. *see* **Cristofano, Gerardo; et al., 93i:81216**
Nersesyan, O. N. *see* **Gulyan, A. M.; et al., 93g:82101**
Nicodemi, F. *see* **Cristofano, Gerardo; et al., 93i:81216**
Papanicolaou, N. *see* **Marder, M.; et al., (93b:00013)**
Pashaev, O. K. *see* **Makhan'kov, V. G., 93c:82018**
Peterson, Janet S. *see* **Du, Qiang; et al., 93j:65178**
Popov, V. N. The theory of model Hamiltonians and the functional integration method. (Russian) **93a:82004**
— *see also* **Kapitonov, V. S., 93a:82057**
Psaltakis, G. C. *see* **Marder, M.; et al., (93b:00013)**
Reitmann, Volker Globale Stabilität und Umlauflösungen für ein System zweier gekoppelter Josephson-Kontakt-Gleichungen. (English, German and Russian summaries) [Global stability and circular solutions for a system of equations of two coupled Josephson junctions] **93h:34051**
Semenoff, Gordon W. *see* **Eliezer, D., 93i:81174**
Sergoyan, G. M. *see* **Gulyan, A. M.; et al., 93g:82101**
Sonnenschein, Jacob *see* **Lykken, Joseph D.; et al., 93b:81314**
Suzuki, Tōru Quantized Bogoliubov transformation and the holon-spinon operator formalism. **93d:81128**
Weiss, Nathan *see* **Lykken, Joseph D.; et al., 93b:81314**
Yu, Yue *see* **Chau, Ling-Lie, 93d:81151**
Zhitnitskiĭ, A. R. Nonperturbative effects and long range order in the $(2+1)$-dimensional CP^1 model. **93b:81151**
Zolotov, O. A. (*with* Kazantsev, V. P.) Variational principles of superconductor magnetostatics. I, II. (Russian. Russian summary) **93m:78007**

82D60 Polymers

(Allegra, Giuseppe) *see* **de Gennes, Pierre-Gilles, 93i:82084**
Aragão de Carvalho, C. Fermion induced solitons. (English summary) (*see* **93b:81004**)
Axelrad, D. R. (*with* Frydrychowicz, W.; Kamal, M. R.) Stochastic analysis of polymer melts with a binary structure. **93e:82056**
Brak, R. (*with* Guttmann, A. J.; Whittington, S. G.) On the behaviour of collapsing linear and branched polymers. **93a:82070**
Cassi, D. (*with* Pesando, I.) A new supersymmetric model for self-avoiding polymers. **93c:82074**
— *see also* **Pesando, I., 93i:82085**
Duplantier, Bertrand *see* **Schäfer, Lothar; et al., 93a:82072**
Essam, J. W. *see* **Zhao, Dongming; et al., 93j:82077**
von Ferber, Christian *see* **Schäfer, Lothar; et al., 93a:82072**
Frydrychowicz, W. *see* **Axelrad, D. R.; et al., 93e:82056**
de Gennes, Pierre-Gilles ★ Introduction to polymer dynamics. **93i:82084**
Grosberg, A. Yu. *see* **Gutin, A. M.; et al., 93k:82072**
Gutin, A. M. (*with* Grosberg, A. Yu.; Shakhnovich, E. I.) Globular state of branched random heteropolymers. (English summary) **93k:82072**
Guttmann, A. J. *see* **Brak, R.; et al., 93a:82070**
Hara, Takashi (*with* Slade, Gordon) The number and size of branched polymers in high dimensions. **93c:82075**
Kamal, M. R. *see* **Axelrad, D. R.; et al., 93e:82056**
Lehr, Ulrike *see* **Schäfer, Lothar; et al., 93a:82072**
Lookman, Turab *see* **Zhao, Dongming; et al., 93j:82077**
Matsushita, Mitsugu Diffusion-limited aggregation and related problems. **93a:82071**
Mézard, Marc (*with* Parisi, Giorgio) A variational approach to directed polymers. (English summary) **93h:82080**
Okamoto, Tosihiko *see* **Suematsu, Kazumi, 93a:82073**
Parisi, Giorgio *see* **Mézard, Marc, 93h:82080**
Pesando, I. (*with* Cassi, D.) Polymers and topological field theory. **93i:82085**
— *see also* **Cassi, D., 93c:82074**
Schäfer, Lothar (*with* von Ferber, Christian; Lehr, Ulrike; Duplantier, Bertrand) Renormalization of polymer networks and stars. **93a:82072**
Shakhnovich, E. I. *see* **Gutin, A. M.; et al., 93k:82072**
Shirvani, M. (*with* Van Roessel, H. J.) The mass-conserving solutions of Smoluchowski's coagulation equation: the general bilinear kernel. **93f:82066**
Slade, Gordon *see* **Hara, Takashi, 93c:82075**
Suematsu, Kazumi (*with* Okamoto, Tosihiko) Distribution of cyclic species in network formation: microscopic theory of branching processes. **93a:82073**
Van Roessel, H. J. *see* **Shirvani, M., 93f:82066**
Wang, X. J. *see* **Warner, M., 93b:82090**
Warner, M. (*with* Wang, X. J.) Discrete and continuum models of nematic polymers. **93b:82090**
Whittington, S. G. *see* **Brak, R.; et al., 93a:82070**
Zhao, Dongming (*with* Lookman, Turab; Essam, J. W.) Exact results for fully directed polymer networks in two dimensions. (English summary) **93j:82077**
Ziff, Robert M. An explicit solution to a discrete fragmentation model. **93a:82074**

Items with secondary classifications in 82D60

Anderson, Arlen (*with* Myers, Robert C.; Periwal, Vipul) Branched polymers from a double-scaling limit of matrix models. **93b:81196**
Batchelor, Murray T. *see* **Warnaar, S. O.; et al., 93g:82041**
Bolthausen, Erwin On directed polymers in a random environment. **93g:60147**
Bousquet-Mélou, Mireille Convex polyominoes and heaps of segments. **93f:05030**
— Convex polyominoes and algebraic languages. **93f:05031**
Brak, R. (*with* Guttmann, A. J.; Whittington, S. G.) A collapse transition in a directed walk model. **93a:82025**
Dean, David S. (*with* Jansons, Kalvis M.) A note on the integral of a Brownian bridge. **93g:60173**
Di Stasio, M. (*with* Seno, F.; Stella, A. L.) Vesicles on a hierarchical lattice: an exact renormalization group approach. **93d:82042**
Edwards, S. F. Some reminiscences of the sixties. **93g:82053**
— Dynamical extensions of the Edwards model. **93g:82054**

— Localisation via the Edwards model. **93h:82029**
Foster, Damien P. (*with* Vanderzande, Carlo; Yeomans, Julia) Zero-temperature properties of randomly self-interacting polymers. (English summary) **93j:82031**
Giacometti, A. (*with* Maritan, A.) Self-avoiding walks with curvature energy on fractals. **93c:82028**
Grmela, Miroslav Mesoscopic dynamics and thermodynamics: applications to polymeric fluids. **93g:76010**
Guttmann, A. J. *see* **Brak, R.; et al., 93a:82025**
Hammersley, J. M. Corrigendum: "Self-avoiding walks" [Phys. A **177** (1991), no. 1-3, 51–57; MR 92i:82054]. **93c:82029**
Jansons, Kalvis M. (*with* Rogers, L. C. G.) Probability theory and polymer physics. **93b:60187**
— *see also* **Dean, David S., 93g:60173**
Kawakatsu, Toshihiro *see* **Kawasaki, Kyozi, 93i:82057**
Kawasaki, Kyozi (*with* Kawakatsu, Toshihiro) Projector formalism of generalized Brownian motion theory applied to dissipative and noisy systems. **93i:82057**
Le Doussal, Pierre Diffusion in layered random flows, polymers, electrons in random potentials, and spin depolarization in random fields. (English summary) **93j:82073**
Livi, R. (*with* Politi, Antonio; Ruffo, Stefano) Scaling-law for the maximal Lyapunov exponent. (English summary) **93g:82087**
Mann, J. Adin, Jr. *see* **Pittel, Boris; et al., 93c:60105**
Maritan, A. *see* **Giacometti, A., 93c:82028**
Myers, Robert C. *see* **Anderson, Arlen; et al., 93b:81196**
Nienhuis, B. *see* **Warnaar, S. O.; et al., 93g:82041**
Periwal, Vipul *see* **Anderson, Arlen; et al., 93b:81196**
Pittel, Boris (*with* Woyczyński, W. A.; Mann, J. Adin, Jr.) Correction: "Random tree-type partitions as a model for acyclic polymerization: Holtsmark (3/2-stable) distribution of the supercritical gel" [Ann. Probab. **18** (1990), no. 1, 319–341; MR 91f:60122]. **93c:60105**
Politi, Antonio *see* **Livi, R.; et al., 93g:82087**
Rogers, L. C. G. *see* **Jansons, Kalvis M., 93b:60187**
Ruffo, Stefano *see* **Livi, R.; et al., 93g:82087**
Saleur, H. Polymers and percolation in two dimensions and twisted $N = 2$ supersymmetry. (English summary) **93i:82044**
Seno, F. *see* **Di Stasio, M.; et al., 93d:82042**
Stella, A. L. *see* **Di Stasio, M.; et al., 93d:82042**
Vanderzande, Carlo *see* **Foster, Damien P.; et al., 93j:82031**
Warnaar, S. O. (*with* Batchelor, Murray T.; Nienhuis, B.) Critical properties of the Izergin-Korepin and solvable O(n) models and their related quantum spin chains. **93g:82041**
Whittington, S. G. *see* **Brak, R.; et al., 93a:82025**
Woyczyński, W. A. *see* **Pittel, Boris; et al., 93c:60105**
Yeomans, Julia *see* **Foster, Damien P.; et al., 93j:82031**

82D75 Nuclear reactor theory

Bazhenov, M. V. A qualitative study of a simplified model of the dynamics of a reactor with a nonlinear controller. (Russian) **93i:82086**
Makin, R. S. On the existence of a global solution of a nonlinear diffusion system of equations of reactor dynamics. (Russian. Russian summary) **93m:82053**
Mokhtar-Kharroubi, Mustapha On the stochastic nonlinear neutron transport equation. (English summary) **93m:82054**
Perovich, S. M. The transcendental method in the theory of neutron slowing down. **93b:82091**
Sun, Wan Gui Bifurcation points of a class of nonlinear neutron transport operators. (Chinese. English summary)
Yan, Zi Qian The global existence and blowing-up property of solutions for a nuclear model. **93d:82085**
Zaslavskii, L. Yu. An adaptive algebraic multigrid for multigroup neutron diffusion reactor core calculations. (English summary) **93k:82073**

Items with secondary classifications in 82D75

Algazin, S. D. Prediction of the dynamics of a nuclear reactor. (Russian. Russian summary) (*see* **93m:93004**)
Feng, Min Fu Streamline diffusion finite element methods for nonlinear neutron transport equations. (Chinese)
Golse, François Knudsen layers from a computational viewpoint. **93e:82043**
Henkel, C. S. *see* **Sarsour, H. N.; et al., (93g:65178)**
Kuznetsov, Yu. A. Some nonlinear mathematical problems in particle transport theory. (Russian) **93e:82044**
Mei, Ming (*with* Xiao, Ying Kun) Monotonic decay of solutions to neutron transport problems with nonlocal boundary constraints. (Chinese)
Pomraning, Gerald C. ★ Linear kinetic theory and particle transport in stochastic mixtures. **93g:82092**
Sarsour, H. N. (*with* Turinsky, P. J.; Henkel, C. S.) Parallel solution of the few-group neutron diffusion equations. (English summary) (*see* **93g:65178**)
Siddiqui, A. (*with* Uppal, S. M.) Some representations of unified Voigt functions $\Omega^{\mu}_{\eta,\nu,\lambda}(x, y)$. **93a:33001**
Turinsky, P. J. *see* **Sarsour, H. N.; et al., (93g:65178)**
Uppal, S. M. *see* **Siddiqui, A., 93a:33001**
Van de Velde, Eric F. *see* **Ward, Michael J., 93a:80010**
Ward, Michael J. (*with* Van de Velde, Eric F.) The onset of thermal runaway in partially insulated or cooled reactors. **93a:80010**
Xiao, Ying Kun *see* **Mei, Ming**

82D99 None of the above, but in this section

Alabau, Fatiha Comportement de la courbe caractéristique potentiel appliqué-courant d'une diode en polarisation inverse et directe. (English summary) [Behavior of the characteristic voltage-current curve of reverse and forward biased diodes] **93d:82086**
d'Ambrumenil, N. *see* **Li, Y. M.**
Baccarani, G. *see* **Ventura, D.; et al., 93f:82067**
Broidioi, Marino (*with* Verbeure, André) Plasmon frequency for a spin-density wave model. **93b:82092**
Burtseva, M. N. A weighted algorithm for solving a system of nonlinear Boltzmann equations for a many-valley semiconductor. (Russian. English and Russian summaries) **93h:82081**
Exner, P. Spectral properties of bent quantum wires. (English summary) (*see* **93e:81007**)
Friedman, Avner Elliptic and parabolic systems associated with semiconductor modeling. (*see* **93f:35007**)
Gnudi, A. *see* **Ventura, D.; et al., 93f:82067**
Jerome, Joseph W. Evolution systems in semiconductor device modeling: a cyclic uncoupled line analysis for the Gummel map. (English summary) **93i:82087**
Kadanoff, Leo P. Scaling and multiscaling (fractals and multifractals). **93c:82076**
Lebowitz, Joel L. (*with* Macris, Nicolas; Martin, Philippe André[1]) Atomic versus ionized states in many-particle systems and the spectra of reduced density matrices: a model study. **93c:82077**
Lega, J. Defects in macroscopic structures: Ginzburg-Landau approach. (English summary) (*see* **93d:58007**)
Li, Y. M. (*with* d'Ambrumenil, N.) A self-energy functional for the infinite-dimensional Hubbard model. (English summary)
Macris, Nicolas *see* **Lebowitz, Joel L.; et al., 93c:82077**
Martin, Philippe André[1] *see* **Lebowitz, Joel L.; et al., 93c:82077**
Mustieles Moreno, Francisco-José Mathematical analysis of a system of Vlasov-Poisson-Boltzmann equations describing the kinetic semiconductor model. (Spanish) (*see* **93j:00009**)
Odeh, Farouk *see* **Ventura, D.; et al., 93f:82067**
Odintsov, S. D. Quantum properties of a boson membrane at a nonzero temperature. (Russian. Russian summary)
Rica, Sergio (*with* Tirapegui, Enrique) Dynamics of vortices in the Ginzburg-Landau equation. **93b:82093**
Schmeiser, C. Free boundaries in semiconductor devices. (English summary) (*see* **93k:00035**)
— (*with* Unterreiter, Andreas; Weiss, Richard) The switching behavior of a one-dimensional PN-diode in low injection. (English summary)
Shipilin, A. V. (*with* Shlënskii, V. N.) An iterative method for the numerical solution of equations of a semiconductor plasma. (Russian. Russian summary) **93i:82088**
Shlënskii, V. N. *see* **Shipilin, A. V., 93i:82088**
Sukhinov, A. I. (*with* Vasil'ev, V. S.) Mathematical modeling of charge transfer in devices with charge connection. (Russian. Russian summary) **93g:82110**
Tirapegui, Enrique *see* **Rica, Sergio, 93b:82093**
Unterreiter, Andreas *see* **Schmeiser, C.; et al.**
Vasil'ev, V. S. *see* **Sukhinov, A. I., 93g:82110**
Ventura, D. (*with* Gnudi, A.; Baccarani, G.; Odeh, Farouk) Multidimensional spherical harmonics expansion of Boltzmann equation for transport in semiconductors. **93f:82067**
Verbeure, André *see* **Broidioi, Marino, 93b:82092**
Weiss, Richard *see* **Schmeiser, C.; et al.**

Items with secondary classifications in 82D99

Afraimovich, V. S. (*with* Nekorkin, V. I.) Stable states in chain models of unbounded nonequilibrium media. (Russian. English summary) **93f:58128**
Blank, Albert A. (*with* Kress, Michael E.) Connections between adiabatic and low-resistivity magnetohydrodynamics. (English summary) **93f:76100**
Cockburn, Bernardo (*with* Triandaf, Ioana) Convergence of a finite element method for the drift-diffusion semiconductor device equations: the zero diffusion case. **93f:65080**
Cole, Julian D. *see* **Pimbley, J. M., 93f:78005**
Dmitruk, Pablo (*with* Saúl, Andrés; Reyna, Luis G.) High electric field approximation to charge transport in semiconductor devices. **93f:82041**
Edwards, S. F. *see* **Oakeshott, R. B. S., 93f:52009** *and* **93f:52010**
Ezawa, Zyun F. (*with* Iwazaki, Aiichi) Chern-Simons gauge theory for double-layer electron system. (English summary) **93h:81152**
Florio, A. *see* **Lavenda, B. H., 93g:82049**
Friedman, Avner (*with* Liu, Wen Xiong) An augmented drift-diffusion model in a semiconductor device. (English summary) **93d:35162**
Fröhlich, Jürg (*with* Studer, U. M.) Gauge invariance in nonrelativistic many-body theory. (English summary) **93h:81153**
Fubini, Sergio Finite Euclidean magnetic group and theta functions. (English summary) **93j:14058**
Gorbenko, N. I. Convergence of the Stone method for equations of charge transfer in semiconductor devices. (Russian. Russian summary) **93m:78001**
(Howlett, Jack) *see* **le Méhauté, Alain, 93d:51049**
Iwazaki, Aiichi *see* **Ezawa, Zyun F., 93h:81152**
Kalachëv, L. V. (*with* Obukhov, I. A.) Asymptotic behavior of a solution of the Poisson equation in a model of a three-dimensional semiconductor structure. (Russian. Russian summary) **93h:78006**
Kress, Michael E. *see* **Blank, Albert A., 93f:76100**
Lavenda, B. H. (*with* Florio, A.) Derivation of a new class of distributions for the microcanonical ensemble. (English summary) **93g:82049**
Liu, Wen Xiong *see* **Friedman, Avner, 93d:35162**
le Méhauté, Alain ★ Fractal geometries. **93d:51049**
Moore, Gregory W. *see* **Read, N., 93j:81094**
Nekorkin, V. I. *see* **Afraimovich, V. S., 93f:58128**
Nier, Francis Formulation variationnelle de systèmes Schrödinger-Poisson en dimension $d \leq 3$. (English and French summaries) [Variational formulation of Schrödinger-Poisson systems in dimension $d \leq 3$] **93j:35163**
Oakeshott, R. B. S. (*with* Edwards, S. F.) Local theory of the statistics of sphere packings. (English summary) **93f:52009**
— (*with* Edwards, S. F.) On the stereology of ellipsoids and cylinders. (English summary) **93f:52010**
Obukhov, I. A. *see* **Kalachëv, L. V., 93h:78006**

Onuki, Akira Instabilities and patterns in elastic materials: gels and solid solutions. **93h:73006**
Pennisi, Sebastiano (*with* Sammartino, Marco) Hyperbolic models for linear transport theory. (English summary) **93j:82066**
Pimbley, J. M. (*with* Cole, Julian D.) Charge carrier dynamics in alpha particle tracks. **93f:78005**
Read, N. (*with* Moore, Gregory W.) Fractional quantum Hall effect and nonabelian statistics. (English summary) **93j:81094**
Reyna, Luis G. *see* **Dmitruk, Pablo; et al., 93f:82041**
Sammartino, Marco *see* **Pennisi, Sebastiano, 93j:82066**
Saúl, Andrés *see* **Dmitruk, Pablo; et al., 93f:82041**
Servizi, Graziano (*with* Todesco, Ezio) Resonant normal forms and applications to beam dynamics. (*see* **93i:58004**)
Shirvani, M. (*with* Van Roessel, H. J.) The mass-conserving solutions of Smoluchowski's coagulation equation: the general bilinear kernel. **93f:82066**
Strogatz, Steven H. *see* **Watanabe, Shinya, 93k:34081**
Studer, U. M. *see* **Fröhlich, Jürg, 93h:81153**
Todesco, Ezio *see* **Servizi, Graziano, (93i:58004)**
Triandaf, Ioana *see* **Cockburn, Bernardo, 93f:65080**
Van Roessel, H. J. *see* **Shirvani, M., 93f:82066**
Watanabe, Shinya (*with* Strogatz, Steven H.) Integrability of a globally coupled oscillator array. (English summary) **93k:34081**
Zikatanov, L. T. A modified Galerkin-Petrov method for modeling semiconductor devices on the basis of the finite element method. (Russian. Russian summary) **93m:78019**

83–XX Relativity and gravitational theory

83–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Items with secondary classifications in 83–00

Tuckey, Philip A. *see* **Williams, Ruth M., 93c:83034**
Williams, Ruth M. (*with* Tuckey, Philip A.) Regge calculus: a brief review and bibliography. **93c:83034**

83–01 Instructional exposition (textbooks, tutorial papers, etc.)

(Bałdyga, Jerzy) *see* **Kopczyński, Wojciech, 93e:83001**
Banerjee, Asit Kumar *see* **Raychaudhuri, A. K.; et al., 93j:83001**
Banerji, S. *see* **Raychaudhuri, A. K.; et al., 93j:83001**
Bondi, Hermann Gravitation. (English summary) **93i:83001**
Harpaz, Amos ★ Relativity theory. **93d:83001**
d'Inverno, R. A. ★ Introducing Einstein's relativity. **93i:83002**
Kopczyński, Wojciech (*with* Trautman, Andrzej) ★ Spacetime and gravitation. **93e:83001**
(Pol, Antoni) *see* **Kopczyński, Wojciech, 93e:83001**
Raychaudhuri, A. K. (*with* Banerji, S.; Banerjee, Asit Kumar) ★ General relativity, astrophysics, and cosmology. **93j:83001**
Stewart, John Malcolm ★ Advanced general relativity. **93e:83002**
Tang, Zhi Ming *see* **Wang, Yong Jiu, 93j:83002**
Trautman, Andrzej *see* **Kopczyński, Wojciech, 93e:83001**
Wang, Yong Jiu (*with* Tang, Zhi Ming) ★ Yinli lilun he yinli xiaoying. (Chinese. English and Chinese summaries) [The theory and effects of gravitation] **93j:83002**
Williams, Ruth M. ★ An introduction to curved space-times. **93b:83001**

Items with secondary classifications in 83–01

Fang, Li Zhi (*with* Li, Shu Xian) ★ Creation of the Universe. **93b:83065**
Gal'tsov, D. V. (*with* Grats, Yu. V.; Zhukovskiĭ, V. Ch.) ★ Классические поля. (Russian) [Classical fields] **93g:70015**
Grats, Yu. V. *see* **Gal'tsov, D. V.; et al., 93g:70015**
Islam, J. N. ★ An introduction to mathematical cosmology. (English. English summary) **93m:83083**
(Kiang, T.) *see* **Fang, Li Zhi, 93b:83065**
Kolb, Edward W. (*with* Turner, Michael S.) ★ The early universe. **93e:83073**
(Kühnel, Adolf) *see* **Landau, L. D., 93b:00001c**
Landau, L. D. (*with* Lifshits, E. M.) ★ Lehrbuch der theoretischen Physik ("Landau-Lifschitz"). Band VI. (German) [Textbook of theoretical physics ("Landau-Lifschitz"). Vol. VI] **93b:00001c**
Lawrie, Ian D. ★ A unified grand tour of theoretical physics. **93a:00012**
Li, Shu Xian *see* **Fang, Li Zhi, 93b:83065**
Lifshits, E. M. *see* **Landau, L. D., 93b:00001c**
Misra, S. P. ★ Introduction to supersymmetry and supergravity. **93m:81001**
Mitter, Heinrich ★ Mechanik. (German) [Mechanics] **93d:00001**
Naber, Gregory L. ★ The geometry of Minkowski spacetime. **93f:83004**
(Pines, David) *see* **Kolb, Edward W., 93e:83073**
(Rama Rao, P.) *see* **Misra, S. P., 93m:81001**
Sedov, L. I. ★ Об основных моделях в механике. (Russian. Russian summary) [Basic models in mechanics] **93k:70005**
Turner, Michael S. *see* **Kolb, Edward W., 93e:83073**
(Weller, Wolfgang) *see* **Landau, L. D., 93b:00001c**
Woodhouse, Nicholas M. J. ★ Special relativity. **93e:83006**
Zhukovskiĭ, V. Ch. *see* **Gal'tsov, D. V.; et al., 93g:70015**
(Ziesche, Paul) *see* **Landau, L. D., 93b:00001c**

83–02 Research exposition (monographs, survey articles)

Esposito, Giampiero Mathematical structures of space-time. **93i:83003**
Sardanashvili, G. A. (*with* Zakharov, O. A.) ★ Gauge gravitation theory. **93e:83003**
Zakharov, O. A. *see* **Sardanashvili, G. A., 93e:83003**

Items with secondary classifications in 83–02

Ashtekar, Abhay ★ Lectures on nonperturbative canonical gravity. **93c:83003**
Chandrasekhar, Subrahmanyan ★ The mathematical theory of black holes. **93k:83046**
Friedrich, Helmut Asymptotic structure of space-time. **93c:83036**
Kolb, Edward W. (*with* Turner, Michael S.) ★ The early universe. **93e:83073**
Kuchař, Karel V. Time and interpretations of quantum gravity. **93m:83033**
Markov, M. A. On some problems of quantum and classical gravitation. (*see* **93b:83004**)
Nakanishi, Noboru (*with* Ojima, Izumi) ★ Covariant operator formalism of gauge theories and quantum gravity. **93g:81097**
Ojima, Izumi *see* **Nakanishi, Noboru, 93g:81097**
(Pines, David) *see* **Kolb, Edward W., 93e:83073**
(Tate, Ranjeet S.) *see* **Ashtekar, Abhay, 93c:83003**
Turner, Michael S. *see* **Kolb, Edward W., 93e:83073**

83–03 Historical (must also be assigned at least one classification number from Section 01)

Schucking, E. L. The introduction of the cosmological constant. (*see* **93j:83004**)

Items with secondary classifications in 83–03

(Balbinot, Roberto) *see* **Modern cosmology in retrospect, 93f:83088**
Barbour, Julian B. Einstein and Mach's principle. (French summary) **93d:01037**
Berg, Gunnar Torsten On the origin of the concept of an Einstein space. (French summary) (*see* **93a:01001**)
(Bergia, S.) *see* **Modern cosmology in retrospect, 93f:83088**
Bergmann, Peter Gabriel The canonical formulation of general-relativistic theories: the early years, 1930–1959. (*see* **93g:83001**)
(Bertotti, B.) *see* **Modern cosmology in retrospect, 93f:83088**
Biezunski, Michel Inside the coconut: the Einstein-Cartan discussion on distant parallelism. (*see* **93g:83001**)
Cattani, Carlo (*with* De Maria, Michelangelo) Max Abraham and the reception of relativity in Italy: his 1912 and 1914 controversies with Einstein. (*see* **93g:83001**)
— (*with* De Maria, Michelangelo) The 1915 epistolary controversy between Einstein and Tullio Levi-Civita. (*see* **93g:83001**)
da Costa Leite, Manuel *see* **Lopes Gagean, David, (93a:01001)**
Czerniawski, Jan The heuristic role of philosophy in the discovery of the special theory of relativity. (Polish)
Damour, Thibault (*with* Schäfer, Gerhard) Levi-Civita and the general-relativistic problem of motion. (French summary) (*see* **93a:01001**)
De Maria, Michelangelo *see* **Cattani, Carlo, (93g:83001)** *and* **(93g:83001)**
(Einstein, Albert) *see* **Temple, Blake, 93c:01001; Barbour, Julian B., 93d:01037; Illy, József, 93g:01045** *and* **Liu, Chuang, 93g:01048**
Eisenstaedt, Jean The early interpretation of the Schwarzschild solution. (*see* **93g:83001**)
— The low water mark of general relativity, 1925–1955. (*see* **93g:83001**)
Godart, Odon Contributions of Lemaître to general relativity (1922–1934). (French summary) **93k:01067**
Goenner, Hubert F. M. The reception of the theory of relativity in Germany as reflected by books published between 1908 and 1945. (French summary) **93d:01039**
Gorelik, G. E. The first steps of quantum gravity and the Planck values. (French summary) **93k:01050**
Gray, Jeremy ★ Ideas of space. **93m:01033**
Havas, Peter The early history of the "problem of motion" in general relativity. (*see* **93g:83001**)
Howard, Don Einstein and Eindeutigkeit: a neglected theme in the philosophical background to general relativity. (French summary) **93g:01044**
Illy, József The correspondence of Albert Einstein and Gustav Mie, 1917–1918. (French summary) **93g:01045**
Janssen, Michel H. A. Lorentz's attempt to give a coordinate-free formulation of the general theory of relativity. (French summary) **93d:01041**
Kerszberg, Pierre ★ The invented universe. **93j:01007**
— The Einstein-de Sitter controversy of 1916–1917 and the rise of relativistic cosmology. **93i:01020**
Kichenassamy, S. Dirac equations in curved space-time. (French summary) (*see* **93a:01001**)
Kostro, Ludwik An outline of the history of Einstein's relativistic ether concept. (French summary) **93d:01042**
Kox, A. J. Hendrik Antoon Lorentz, the ether, and the general theory of relativity. **93h:01030**
— General relativity in the Netherlands, 1915–1920. (French summary) **93d:01043**
(von Laue, Max) *see* **Liu, Chuang, 93g:01048**
(Lemaître, Georges) *see* **Godart, Odon, 93k:01067**
(Lenard, Filip) *see* **Pöss, Ondrej, 93g:01079**
Lichnerowicz, André Mathematics and general relativity: a recollection. (French summary) (*see* **93a:01001**)
Liu, Chuang Einstein and relativistic thermodynamics in 1952: a historical and critical study of a strange episode in the history of modern physics. **93g:01048**
(Loinger, Angelo) *see* **Weyl, Hermann, 93g:01104**
Lopes Gagean, David (*with* da Costa Leite, Manuel) General relativity and Portugal: a few pointers towards peripheral reception studies. (French summary) (*see* **93a:01001**)
(Lorentz, Hendrik Antoon) *see* **Kox, A. J., 93h:01030**
(Mach, Ernst) *see* **Barbour, Julian B., 93d:01037**
(Mathisson, Myron) *see* **Średniawa, Bronisław, 93g:01052**
Mercier, André General relativity at the turning point of its renewal. (French summary) **93d:01047**
(Messina, Antonio) *see* **Modern cosmology in retrospect, 93f:83088**

(Mie, Gustav) *see* **Illy, József, 93g:01045**
Miller, Arthur I. Albert Einstein's 1907 Jahrbuch paper: the first step from SRT to GRT. (French summary) **93d:01048**
Morgan, Frank Calculus, planets, and general relativity. **93b:01002**
(Newton, Isaac) *see* **Temple, Blake, 93c:01001**
Norton, John Daniel What was Einstein's principle of equivalence? [Stud. Hist. Philos. Sci. **16** (1985), no. 3, 203–246; MR 86h:01059]. (*see* **93g:83001**)
— The physical content of general covariance. (French summary) **93g:01049**
Pöss, Ondrej The changing views of Filip [Philipp] Lenard. (Slovak) **93g:01079**
Ryckman, T. A. "P(OINT)-C(oincidence) thinking": the ironical attachment of logical empiricism to general relativity (and some lingering consequences).
Sánchez-Ron, José Manuel The reception of general relativity among British physicists and mathematicians (1915–1930). (French summary) **93d:01051**
Schäfer, Gerhard *see* **Damour, Thibault, (93a:01001)**
Średniawa, Bronisław Myron Mathisson's and Jan Weyssenhoff's work on the problem of motion in general relativity. (French summary) **93g:01052**
Stachel, John The rigidly rotating disk as the "missing link" in the history of general relativity. (*see* **93g:83001**)
— The Cauchy problem in general relativity—the early years. (French summary) (*see* **93a:01001**)
Temple, Blake (*with* Tracy, Craig A.) From Newton to Einstein. **93c:01001**
Tracy, Craig A. *see* **Temple, Blake, 93c:01001**
Urbantke, Helmuth Schrödinger and cosmology. (French summary) (*see* **93a:01001**)
Vilain, Christiane Spherical coordinates in general relativity from 1915 to 1960: a physical interpretation. (French summary) **93g:01055**
Vizgin, Vl. P. Einstein, Hilbert, and Weyl: the genesis of the geometrical unified field theory program. (*see* **93g:83001**)
Weyl, Hermann ★ Analisi matematica del problema dello spazio. (Italian) [Mathematical analysis of the problem of space] **93g:01104**
(Weyssenhoff, Jan) *see* **Średniawa, Bronisław, 93g:01052**

Items listed otherwise than by author

Biography:
Lenard, Filip *see* **Pöss, Ondrej, 93g:01079**
Bologna ★ Modern cosmology in retrospect. **93f:83088**
Modern cosmology in retrospect ★ Modern cosmology in retrospect. **93f:83088**
Symposium:
Astronomy, Cosmology and Fundamental Physics ★ Modern cosmology in retrospect. **93f:83088**

83–04 Explicit machine computation and programs (not the theory of computation or programming)

Araujo, Marcelo E. (*with* Dray, Tevian; Skea, James E. F.) Finding isometry groups in theory and practice. **93c:83001**
Carminati, John *see* **Czapor, S. R.; et al., 93f:83001**
Czapor, S. R. (*with* McLenaghan, R. G.; Carminati, John) The automatic conversion of spinor equations to dyad form in MAPLE. (English summary) **93f:83001**
Daftardar, Varsha *see* **Giannopoulos, Abraham, 93d:83002**
Dray, Tevian *see* **Araujo, Marcelo E.; et al., 93c:83001**
Giannopoulos, Abraham (*with* Daftardar, Varsha) Evaluation of the Ashtekar variables for any given metric using the algebraic computing system STENSOR. **93d:83002**
Krasiński, Andrzej The program ORTOCARTAN for algebraic calculations in relativity. (English summary) **93m:83001**
MacCallum, M. A. H. Computer algebra in gravity—past, present and future. **93e:83004**
McLenaghan, R. G. *see* **Czapor, S. R.; et al., 93f:83001**
Melfo, A. (*with* Núñez, L. A.) Checking collineation vectors with REDUCE. (English summary) **93i:83004**
Núñez, L. A. *see* **Melfo, A., 93i:83004**
Skea, James E. F. *see* **Araujo, Marcelo E.; et al., 93c:83001**

83–05 Experimental papers

Items with secondary classifications in 83–05

Kozlov, A. A. *see* **Zhokhov, N. L.; et al., 93e:47101**
Ljubičić, A. (*with* Logan, B. A.) A proposed test of the general validity of Mach's principle. (English summary) **93k:83005**
Logan, B. A. *see* **Ljubičić, A., 93k:83005**
Pyt'ev, Yu. P. *see* **Zhokhov, N. L.; et al., 93e:47101**
Will, Clifford M. The confrontation between general relativity and experiment: a 1992 update. (English summary) **93e:83007**
Zhokhov, N. L. (*with* Kozlov, A. A.; Pyt'ev, Yu. P.) Limit capabilities of second-order parametric measurement transformers with lumped parameters. (Russian. English summary) **93e:47101**

83–06 Proceedings, conferences, collections, etc.

(Ashby, Neil) *see* **General relativity and gravitation, 93b:83002**
(Audretsch, Jürgen) *see* **Quantum mechanics in curved space-time, 93d:83003**
(Bartlett, David F.) *see* **General relativity and gravitation, 93b:83002**
(Berezin, V. A.) *see* **Quantum gravity, 93b:83004**
(Bergmann, Peter Gabriel) *see* **Gravitation and modern cosmology, 93j:83004**
(Cattaneo, Carlo) *see* **Classical mechanics and relativity: relationship and consistency, 93h:83001**
(De Sabbata, Venzo) *see* **Quantum mechanics in curved space-time, 93d:83003** *and* **Gravitation and modern cosmology, 93j:83004**
Ehlers, Jürgen Conference summary. (*see* **93b:83002**)
(Ferrarese, Giorgio) *see* **Classical mechanics and relativity: relationship and consistency, 93h:83001**
(Frolov, V. P.) *see* **Quantum gravity, 93b:83004**
(Howard, Don) *see* **Einstein and the history of general relativity, 93g:83001**
(Kunstatter, G.) *see* **Proceedings: Conference on General Relativity and Relativistic Astrophysics, 93b:83003**
(van Leeuwen, W. A.) *see* **Conference: Relativity, 93j:83003**
(Markov, M. A.) *see* **Quantum gravity, 93b:83004**
(Sánchez, Norma) *see* **Gravitation and modern cosmology, 93j:83004**
Schucking, E. L. Views from a distant past. (*see* **93b:83002**)
(Stachel, John) *see* **Einstein and the history of general relativity, 93g:83001**
(Vincent, D. E.) *see* **Proceedings: Conference on General Relativity and Relativistic Astrophysics, 93b:83003**
(Williams, Jeffrey George) *see* **Proceedings: Conference on General Relativity and Relativistic Astrophysics, 93b:83003**
(Wyss, Walter) *see* **General relativity and gravitation, 93b:83002**
(Zichichi, Antonino) *see* **Gravitation and modern cosmology, 93j:83004**

Items listed otherwise than by author

Amsterdam ★ Les Journées Relativistes 1992. [Conference on relativity 1992] **93j:83003**
Birthday:
Bergmann, Peter Gabriel ★ Gravitation and modern cosmology. **93j:83004**
Boulder, CO ★ General relativity and gravitation, 1989. **93b:83002**
Classical mechanics and relativity: relationship and consistency ★ Classical mechanics and relativity: relationship and consistency. **93h:83001**
Conference:
Classical Mechanics and Relativity: Relationship and Consistency ★ Classical mechanics and relativity: relationship and consistency. **93h:83001**
General Relativity and Gravitation ★ General relativity and gravitation, 1989. **93b:83002**
General Relativity and Relativistic Astrophysics ★ Proceedings of the 4th Canadian Conference on General Relativity and Relativistic Astrophysics. **93b:83003**
History of General Relativity ★ Einstein and the history of general relativity. **93g:83001**
Relativity ★ Les Journées Relativistes 1992. [Conference on relativity 1992] **93j:83003**
Einstein and the history of general relativity ★ Einstein and the history of general relativity. **93g:83001**
Elba ★ Classical mechanics and relativity: relationship and consistency. **93h:83001**
Erice ★ Quantum mechanics in curved space-time. **93d:83003**
— ★ Gravitation and modern cosmology. **93j:83004**
General relativity and gravitation ★ General relativity and gravitation, 1989. **93b:83002**
Gravitation and modern cosmology ★ Gravitation and modern cosmology. **93j:83004**
Moscow ★ Quantum gravity. **93b:83004**
NATO Advanced Research Workshop:
Quantum Mechanics in Curved Space-Time ★ Quantum mechanics in curved space-time. **93d:83003**
North Andover, MA ★ Einstein and the history of general relativity. **93g:83001**
Proceedings:
Conference on General Relativity and Relativistic Astrophysics ★ Proceedings of the 4th Canadian Conference on General Relativity and Relativistic Astrophysics. **93b:83003**
Quantum gravity ★ Quantum gravity. **93b:83004**
Quantum mechanics in curved space-time ★ Quantum mechanics in curved space-time. **93d:83003**
Seminar:
Quantum Gravity ★ Quantum gravity. **93b:83004**
Symposium:
Bergmann, Peter Gabriel ★ Gravitation and modern cosmology. **93j:83004**
Winnipeg, MB ★ Proceedings of the 4th Canadian Conference on General Relativity and Relativistic Astrophysics. **93b:83003**

Items with secondary classifications in 83–06

(Aizawa, Y.) *see* **Proceedings: Symposium on Quantum Physics and the Universe, 93m:81006**
(Balbinot, Roberto) *see* **Modern cosmology in retrospect, 93f:83088**
(Bergia, S.) *see* **Modern cosmology in retrospect, 93f:83088**
(Bertotti, B.) *see* **Modern cosmology in retrospect, 93f:83088**
(Coleman, Sidney) *see* **Quantum cosmology and baby universes, 93h:83024**
(Davies, Andrew T.) *see* **Physics of the early universe, 93b:83071**
(Eisenstaedt, Jean) *see* **Studies in the history of general relativity, 93a:01001**
(Falomir, H.) *see* **Festschrift: Giambiagi, J. J., 93b:81004**
(Gamboa Saraví, R. E.) *see* **Festschrift: Giambiagi, J. J., 93b:81004**
(Giambiagi, J. J.) *see* **Festschrift: Giambiagi, J. J., 93b:81004**
(Hartle, James B.) *see* **Quantum cosmology and baby universes, 93h:83024**
(Heavens, Alan F.) *see* **Physics of the early universe, 93b:83071**
(Kox, A. J.) *see* **Studies in the history of general relativity, 93a:01001**
(Leal Ferreira, P.) *see* **Festschrift: Giambiagi, J. J., 93b:81004**
(Maeda, Kei-ichi) *see* **Proceedings: Symposium on Quantum Physics and the Universe, 93m:81006**
(Messina, Antonio) *see* **Modern cosmology in retrospect, 93f:83088**
(Murthy, M. K. V.) *see* **Nonlinear hyperbolic equations and field theory, 93d:35003**
(Namiki, Mikio) *see* **Proceedings: Symposium on Quantum Physics and the Universe, 93m:81006**
(Nath, Pran) *see* **Particles, strings and cosmology, 93a:81004**
(Ohba, Ichiro) *see* **Proceedings: Symposium on Quantum Physics and the Universe, 93m:81006**
(Peacock, John A.) *see* **Physics of the early universe, 93b:83071**
(Piran, Tsvi) *see* **Quantum cosmology and baby universes, 93h:83024**
(Reucroft, Stephen) *see* **Particles, strings and cosmology, 93a:81004**
(Schaposnik, Fidel A.) *see* **Festschrift: Giambiagi, J. J., 93b:81004**
(Spagnolo, Sergio) *see* **Nonlinear hyperbolic equations and field theory, 93d:35003**
(Weinberg, S.) *see* **Quantum cosmology and baby universes, 93h:83024**

Items listed otherwise than by author

Birthday:
Giambiagi, J. J. ★ J. J. Giambiagi Festschrift. **93b:81004**

Bologna ★ Modern cosmology in retrospect. **93f:83088**
Boston, MA ★ Particles, strings and cosmology. **93a:81004**
Conference:
History of General Relativity ★ Studies in the history of general relativity. **93a:01001**
Edinburgh ★ Physics of the early universe. **93b:83071**
Festschrift:
Giambiagi, J. J. ★ J. J. Giambiagi Festschrift. **93b:81004**
Jerusalem ★ Quantum cosmology and baby universes. **93h:83024**
Lake Como ★ Nonlinear hyperbolic equations and field theory. **93d:35003**
Luminy ★ Studies in the history of general relativity. **93a:01001**
Modern cosmology in retrospect ★ Modern cosmology in retrospect. **93f:83088**
NATO Advanced Study Institute:
Physics of the Early Universe ★ Physics of the early universe. **93b:83071**
Nonlinear hyperbolic equations and field theory ★ Nonlinear hyperbolic equations and field theory. **93d:35003**
Particles, strings and cosmology ★ Particles, strings and cosmology. **93a:81004**
Physics of the early universe ★ Physics of the early universe. **93b:83071**
Proceedings:
Symposium on Quantum Physics and the Universe ★ Proceedings of the International Symposium on Quantum Physics and the Universe. **93m:81006**
Quantum cosmology and baby universes ★ Quantum cosmology and baby universes. **93h:83024**
School:
Physics of the Early Universe ★ Physics of the early universe. **93b:83071**
Quantum Cosmology and Baby Universes ★ Quantum cosmology and baby universes. **93h:83024**
Singularities in curved space-times ★ Singularities in curved space-times. **93k:83055**
Special Issue:
Singularities in curved space-times ★ Singularities in curved space-times. **93k:83055**
Studies in the history of general relativity ★ Studies in the history of general relativity. **93a:01001**
Symposium:
Astronomy, Cosmology and Fundamental Physics ★ Modern cosmology in retrospect. **93f:83088**
Particles, Strings and Cosmology ★ Particles, strings and cosmology. **93a:81004**
Quantum Physics and the Universe ★ Proceedings of the International Symposium on Quantum Physics and the Universe. **93m:81006**
Tokyo ★ Proceedings of the International Symposium on Quantum Physics and the Universe. **93m:81006**
Workshop:
Nonlinear Hyperbolic Equations and Field Theory ★ Nonlinear hyperbolic equations and field theory. **93d:35003**

83–08 Computational methods

Centrella, Joan M. Numerical relativity. (*see* **93b:83002**)
Frauendiener, Jörg (*with* Schmidt, B. G.) Numerical evolution, linear and nonlinear, of spherically symmetric deviations from an isotropic universe. (English summary) **93k:83001**
MacCallum, M. A. H. Algebraic computing. (*see* **93b:83002**)
Nakamura, Takashi Progress in 3D numerical relativity. (*see* **93b:83002**)
Nambu, Yasusada (*with* Siino, Masaru) Wormhole formation in numerical cosmology. (English summary) **93g:83002**
Schmidt, B. G. *see* **Frauendiener, Jörg**, **93k:83001**
Siino, Masaru *see* **Nambu, Yasusada**, **93g:83002**

Items with secondary classifications in 83–08

Greensite, J. Stabilized quantum gravity. Stochastic interpretation and numerical simulation. (English summary) **93m:83031**
Harleston L., Hugh (*with* Vishniac, Ethan T.) Numerical treatment of the spherically symmetric general-relativistic Boltzmann equation for massless and massive particles. **93c:83070**
Lanza, Antonio Multigrid in general relativity. II. Kerr spacetime. **93b:83044**
MacCallum, M. A. H. Computer algebra in gravity—past, present and future. **93e:83004**
Rosenbaum, Marcos (*with* Ryan, Michael P., Jr.; Sinha, Sukanya) Nonlinear model of a quantum minisuperspace system with back reaction. (English summary) **93m:83039**
Ryan, Michael P., Jr. *see* **Rosenbaum, Marcos; et al.**, **93m:83039**
Sinha, Sukanya *see* **Rosenbaum, Marcos; et al.**, **93m:83039**
Vishniac, Ethan T. *see* **Harleston L., Hugh**, **93c:83070**

83A05 Special relativity

Adams, Robert H. Special theory of relativity—an alternative perspective. (English summary) **93f:83002**
Anderson, Ronald (*with* Stedman, Geoffrey E.) Distance and the conventionality of simultaneity in special relativity. **93d:83004**
Bacry, H. Le spin et la relativité restreinte. (English and French summaries) [Spin and special relativity] **93j:83005**
Bâlan, Trandafir T. Generalizing the Minkowskian space-time. I. (English summary) **93i:83005**
Balsiger, Franz (*with* Burri, Alex) Sind die klassische Mechanik und die spezielle Relativitätstheorie kommensurabel? (English summary) [Are classical mechanics and the special theory of relativity compatible?] **93e:83005c**
Belnap, Nuel Branching space-time. (English summary) **93h:83002**
Burri, Alex *see* **Balsiger, Franz**, **93e:83005c**
Carbonaro, Bruno The mathematical structure of the special theory of relativity. (Italian summary) **93f:83003**
Carini, Giovanni On the relation between Hamilton's principle and the principle of stationary action in the relativistic dynamics of a corpuscle. (Italian. English summary)
Coleman, Robert Alan (*with* Korté, Herbert) On attempts to rescue the conventionality thesis of distant simultaneity in STR. (English summary) **93k:83002**
Coll, Bartolomé (*with* Morales, Juan Antonio) 199 causal classes of space-time frames. **93c:83002**
Ferrari, José A. On the homogeneity of space and time in special relativity. **93e:83005a**
Horzela, Andrzej (*with* Kapuścik, Edward; Kempczyński, Jarosław; Uzes, Charles) On discrete models of space-time. (English summary) **93j:83006**
Hoyer, Ulrich Zur Theorie der Lorentztransformationen. Eine Erwiderung. (English summary) [On the theory of Lorentz transformations. A reply] **93e:83005b**
Kapuścik, Edward *see* **Horzela, Andrzej; et al.**, **93j:83006**
Kempczyński, Jarosław *see* **Horzela, Andrzej; et al.**, **93j:83006**
Korté, Herbert *see* **Coleman, Robert Alan**, **93k:83002**
Madguerova, Andreana Stefanova Two models of time with Walker's definition of instants by events. **93h:83003a**
— On the measurement of time in mathematical time's models. **93h:83003b**
Massa, Enrico (*with* Pasquero, Stefano) Lorentz transformations and reflection operators in Minkowsky space-time. **93a:83001**
Mishra, L. *see* **Rindler, W.**, **93j:83007**
Mocanu, Constantin I. On the relativistic velocity composition paradox and the Thomas rotation. (English summary) **93g:83003**
Molski, Marcin Extended class of particles with unusual properties. (English summary) **93m:83002**
Morales, Juan Antonio *see* **Coll, Bartolomé**, **93c:83002**
Naber, Gregory L. ★ The geometry of Minkowski spacetime. **93f:83004**
Pasquero, Stefano *see* **Massa, Enrico**, **93a:83001**
Rindler, W. (*with* Mishra, L.) The nonreciprocity of relative acceleration in relativity. (English summary) **93j:83007**
Shiekh, A. Y. Does nature place a fundamental limit on strength? (English and French summaries) **93h:83004**
Stedman, Geoffrey E. *see* **Anderson, Ronald**, **93d:83004**
Stephas, Paul Analytic solutions for Wheeler-Feynman interaction: two bodies in straight-line motion. **93a:83002**
Strel'tsov, V. N. ★ Apparent unambiguousness of relativistic time dilation. (English. English and Russian summaries) **93f:83005**
— ★ Introduction to modern relativity theory. (English. English and Russian summaries)
Ungar, Abraham A. The abstract Lorentz transformation group. (English summary) **93g:83004**
Uzes, Charles *see* **Horzela, Andrzej; et al.**, **93j:83006**
Vroegindeweij, P. G. Algebraic structures on space-time algebra. (English summary) **93k:83003**
Woodhouse, Nicholas M. J. ★ Special relativity. **93e:83006**

Items with secondary classifications in 83A05

Arshansky, R. I. *see* **Zerzion, Daniel; et al.**, **93b:70020**
Benn, I. M. (*with* Wood, W. P.) Dilation currents. **93e:83030**
Blaksley Bazterrica, Enrique J. Unified theory of motion: a new mechanics. **93c:70003**
Chandola, H. C. *see* **Negi, P. S.; et al.**, **93h:81050**
Chaudhary, Prakash (*with* Rajput, Balwant Singh) Role of six-current in six-space. (English summary) **93h:81049**
Damour, Thibault (*with* Soffel, Michael; Xu, Chong Ming) General-relativistic celestial mechanics. II. Translational equations of motion. **93b:83006**
Duviryak, A. A. (*with* Klyuchkovskiĭ, Yu. B.) Covariant two-particle light lines in relativistic Hamiltonian mechanics. (Ukrainian. Ukrainian summary)
Elitzur, Avshalom C. Locality and indeterminism preserve the second law. **93e:81015**
Grubb, Anthea Eigenvalue preserving automorphisms of selfadjoint operators in a unitary space of dimension two. (English summary) **93j:15019**
Gurin, V. S. (*with* Trofimenko, A. P.) Many-dimensional (complex) representation of extended manifolds and monopoles in extended relativity. (English summary) **93m:83052**
Horwitz, L. P. On the definition and evolution of states in relativistic classical and quantum mechanics. **93d:81009**
— *see also* **Zerzion, Daniel; et al.**, **93b:70020**
Kerner, Edward H. Note on the representation of many-particle dynamics as higher-order single-particle dynamics, with a means to relativistic elevation of Newtonian dynamics. **93b:70019**
Klyuchkovskiĭ, Yu. B. (*with* Navrots'kiĭ, P. P.) Transformation properties of certain characteristics of the motion of a deformable solid in different forms of relativistic dynamics. (Ukrainian) **93c:73018**
— *see also* **Duviryak, A. A.**
Ladopoulos, E. G. Relativistic elastic stress analysis for moving frames. **93f:73019**
Lafuente López, Javier Light cones. (Spanish. English and Spanish summaries) **93g:51002**
Lowry, Michael R. Symmetry as bias: rediscovering special relativity. (English summary) (*see* **93j:68007**)
Madguerova, Andreana Stefanova On the logic of time. (Russian summary) **93c:81008**
Mermin, N. David ★ Boojums all the way through. **93c:01051**
Navrots'kiĭ, P. P. *see* **Klyuchkovskiĭ, Yu. B.**, **93c:73018**
Negi, P. S. (*with* Chandola, H. C.; Rajput, Balwant Singh) Fermionic fields in six-dimensional space-time. (English summary) **93h:81050**
Nelson, Edward Clock space. (English summary) **93i:81167**
Nor, Khalid bin Md. A topological explanation for three properties of time. **93b:32031**
Nottale, Laurent The theory of scale relativity. (English summary) **93i:81021**
Pykacz, Jarosław Direct detection of empty waves contradicts special relativity. (English summary) **93k:81010**
Rajput, Balwant Singh *see* **Chaudhary, Prakash**, **93h:81049** *and* **Negi, P. S.; et al.**, **93h:81050**
Rodrigues, Waldyr A., Jr. *see* **Zeni, J. Ricardo**, **93d:15041**
Ruggeri, Tommaso Polar continua as a particular case of relativistic extended thermodynamics. (Italian) **93b:80001**
Sedov, L. I. ★ Об основных моделях в механике. (Russian. Russian summary) [Basic models in mechanics] **93k:70005**
Sharma, Chandra Shekhar A little theorem on the Kronecker product of little matrices. (English summary)

— A comparison of Hilbert space formulations of nonrelativistic quantum theory and special relativity. **93b:81020**
Soffel, Michael *see* **Damour, Thibault; et al., 93b:83006**
Tanaka, Yutaka[2] Bell's theorem and the theory of relativity. An interpretation of quantum correlation at a distance based on the philosophy of organism. (English summary) **93d:81022**
Trofimenko, A. P. *see* **Gurin, V. S., 93m:83052**
Wang, Shu Tang A non-Archimedean number field and its applications in modern physics. **93c:03087**
Wood, W. P. *see* **Benn, I. M., 93e:83030**
Xu, Chong Ming *see* **Damour, Thibault; et al., 93b:83006**
Zeni, J. Ricardo (*with* Rodrigues, Waldyr A., Jr.) A thoughtful study of Lorentz transformations by Clifford algebras. **93d:15041**
Zerzion, Daniel (*with* Horwitz, L. P.; Arshansky, R. I.) Classical mechanics of special relativity in a Riemannian space-time. **93b:70020**

83B05 Observational and experimental questions

Abramowicz, Marek A. Relativistic astrophysics. (*see* **93b:83002**)
Adelberger, E. G. Experimental tests of the universality of free fall and of the inverse square law. (*see* **93b:83002**)
Bagrov, V. G. (*with* Bukhbinder, I. L.; Shapiro, I. L.) Possible experimental manifestations of a torsion field. (Russian. Russian summary) **93f:83006**
Blanchet, Luc A class of nonmetric couplings to gravity. **93d:83005**
Bukhbinder, I. L. *see* **Bagrov, V. G.; et al., 93f:83006**
Carr, B. J. Astrophysical and observational cosmology. (*see* **93b:83002**)
Faller, J. E. Earth-based gravitational experiments. (*see* **93b:83002**)
de Felice, Fernando (*with* Usseglio-Tomasset, Stefano) Schwarzschild spacetime: measurements in orbiting space-stations. (English summary) **93k:83004**
Fort, Bernard Observations of gravitational lenses. (*see* **93b:83002**)
Friedman, John L. How fast can pulsars spin? (*see* **93b:83002**)
Hamilton, William O. Resonant bar and microwave gravitational wave experiments. (*see* **93b:83002**)
Hellings, Ronald Solar system and pulsar tests of general relativity. (*see* **93b:83002**)
Hough, J. Laser gravitational wave experiments. (*see* **93b:83002**)
Ljubičić, A. (*with* Logan, B. A.) A proposed test of the general validity of Mach's principle. (English summary) **93k:83005**
Logan, B. A. *see* **Ljubičić, A., 93k:83005**
Mavaddat, Rafie Scattering matrix analysis of four-cavity interferometers for gravitational wave detection. (English summary) **93k:83006**
Mostepanenko, V. M. (*with* Sokolov, I. Yu.) Optimal Cavendish-type experiment for the search of restrictions on light particles of quantum gravity. (*see* **93b:83004**)
Partridge, R. B. The cosmic microwave background: present status of observations, and implications for general relativity. (*see* **93b:83002**)
Pizzella, Guido Resonant bar gravitational wave experiments. (*see* **93b:83002**)
Shapiro, I. L. *see* **Bagrov, V. G.; et al., 93f:83006**
Shapiro, Irwin I. Solar system tests of general relativity: recent results and present plans. (*see* **93b:83002**)
Sokolov, I. Yu. *see* **Mostepanenko, V. M., (93b:83004)**
Usseglio-Tomasset, Stefano *see* **de Felice, Fernando, 93k:83004**
Weiss, Rainer Interferometric gravitational wave detectors. (*see* **93b:83002**)
Will, Clifford M. The confrontation between general relativity and experiment: a 1992 update. (English summary) **93e:83007**

Items with secondary classifications in 83B05

Arthurs, E. (*with* Goodman, M. S.) A quantum experiment uncertainty principle: a general 2nd moment uncertainty relation. (English summary) **93i:81015**
(Balbinot, Roberto) *see* **Modern cosmology in retrospect, 93f:83088**
(Bergia, S.) *see* **Modern cosmology in retrospect, 93f:83088**
(Bertotti, B.) *see* **Modern cosmology in retrospect, 93f:83088**
Bondi, Hermann Gravitation. (English summary) **93i:83001**
Brumberg, V. A. *see* **Jupp, A. H., 93g:70019** *and* **Soffel, Michael, 93g:70020**
Cooperstock, F. I. Energy localization in general relativity: a new hypothesis. (English summary) **93i:83039**
Damour, Thibault (*with* Esposito-Farese, Gilles) Tensor-multi-scalar theories of gravitation. (English summary) **93f:83070**
Ellis, George F. R. *see* **Stoeger, William R.; et al., 93j:83082** *and* **93j:83083**
Esposito-Farese, Gilles *see* **Damour, Thibault, 93f:83070**
Frolov, V. P. (*with* Novikov, Igor D.) Physical effects in wormholes and time machine. **93f:83075**
Gabriel, M. D. *see* **Palmer, J. H.; et al., 93c:83102**
Goodman, M. S. *see* **Arthurs, E., 93i:81015**
Haugan, M. P. *see* **Palmer, J. H.; et al., 93c:83102**
Jupp, A. H. (*with* Brumberg, V. A.) Relativistic effects in the critical inclination problem in artificial satellite theory. **93g:70019**
Leibowitz, Elhanan *see* **Nissani, Noah, 93j:83032**
Lobo, José Alberto Effect of a weak plane GW on a light beam. **93b:83020**
Mann, Robert B. *see* **Palmer, J. H.; et al., 93c:83102**
(Messina, Antonio) *see* **Modern cosmology in retrospect, 93f:83088**
Nel, Stanley D. *see* **Stoeger, William R.; et al., 93j:83082** *and* **93j:83083**
Nissani, Noah (*with* Leibowitz, Elhanan) Experimental facts and gravitational energy in general relativity. (English summary) **93j:83032**
Novikov, Igor D. *see* **Frolov, V. P., 93f:83075**
Palmer, J. H. (*with* Mann, Robert B.; Gabriel, M. D.; Haugan, M. P.) Electromagnetism in nonsymmetric theories of gravity: gravitationally induced polarization shifts. **93c:83102**
Panek, Mirosław Theory and implications of the cosmic background radiation. (*see* **93b:83002**)
Petters, A. O. Morse theory and gravitational microlensing. **93c:58060**
Soffel, Michael (*with* Brumberg, V. A.) Relativistic reference frames including time scales: questions and answers. **93g:70020**
Stoeger, William R. (*with* Nel, Stanley D.; Ellis, George F. R.) Observational cosmology. IV. Perturbed spherically symmetric dust solutions. **93j:83082**
— (*with* Nel, Stanley D.; Ellis, George F. R.) Observational cosmology. V. Solution of the first-order general perturbation equations. **93j:83083**

Items listed otherwise than by author

Bologna ★ Modern cosmology in retrospect. **93f:83088**
Modern cosmology in retrospect ★ Modern cosmology in retrospect. **93f:83088**
Symposium:
Astronomy, Cosmology and Fundamental Physics ★ Modern cosmology in retrospect. **93f:83088**

83Cxx General relativity

83C05 Einstein's equations (general structure, canonical formalism, Cauchy problems)

Alvarez, Enrique (*with* Céspedes, J.; Verdaguer, E.) A new action for the gravitational interaction. (English summary) **93g:83005**
Ashtekar, Abhay ★ Lectures on nonperturbative canonical gravity. **93c:83003**
Bene, Julius *see* **Graham, Robert, 93m:83004**
Bengtsson, Ingemar Self-duality and the metric in a family of neighbors of Einstein's equations. **93c:83005**
— (*with* Peldán, Peter) Another "cosmological" constant. **93c:83004**
— Some observations on degenerate metrics. (English summary) **93j:83008**
Bonanos, S. A generalization of the Kerr-Schild ansatz. **93c:83006**
Cameron, John (*with* Moncrief, Vincent) The reduction of Einstein's vacuum equations on spacetimes with spacelike U(1)-isometry groups. (English summary) **93i:83006**
Capovilla, Riccardo (*with* Dell, J.; Jacobson, Ted) Errata: "A pure spin-connection formulation of gravity" [Classical Quantum Gravity **8** (1991), no. 1, 59–73; MR 91m:83005]. **93d:83006**
— Nonminimally coupled scalar field and Ashtekar variables. (English summary) **93g:83006**
Cattani, Carlo *see* **Ferrarese, Giorgio, 93h:83005**
Céspedes, J. *see* **Alvarez, Enrique; et al., 93g:83005**
Christodoulou, Demetrios The stability of Minkowski spacetime. **93c:83007**
Chruściel, Piotr T. ★ On uniqueness in the large of solutions of Einstein's equations ("strong cosmic censorship"). **93c:83008**
Dell, J. *see* **Capovilla, Riccardo; et al., 93d:83006**
Duan, Yi Shi (*with* Zhang, Sheng Li[2]; Jiang, Li Cai) A new coordinate condition in general relativity. (English summary) **93g:83007**
Ellis, George F. R. Covariant change of signature in classical relativity. (English summary) **93i:83007**
Ferrarese, Giorgio Intrinsic formulation of the Cauchy problem in general relativity. (Italian. English summary) **93e:83008**
— (*with* Cattani, Carlo) Intrinsic formulation of the Cauchy problem in general relativity: the case of the vacuum. (Italian) **93h:83005**
Ferraris, Marco (*with* Francaviglia, Mauro; Sinicco, I.) Covariant ADM formulation applied to general relativity. (English summary) **93m:83003**
Fodor, G. (*with* Perjés, Zoltán) Ashtekar variables without hypersurfaces. **93e:83009**
Francaviglia, Mauro *see* **Ferraris, Marco; et al., 93m:83003**
Frauendiener, Jörg (*with* Newman, Ezra T.) Thoughts and speculations on the question: is space-time turbulent? **93d:83007**
— (*with* Sparling, George A. J.) On the symplectic formalism for general relativity. (English summary) **93g:83008**
Friedrich, Helmut Global properties of solutions of Einstein's field equations. (*see* **93b:83002**)
Fukuyama, Takeshi *see* **Kamimura, Kiyoshi; et al., 93k:83007**
Goldberg, Joshua N. (*with* Robinson, D. C.; Soteriou, C.) Null hypersurfaces and new variables. **93c:83009**
Graham, Robert (*with* Bene, Julius) Supersymmetric Bianchi type IX cosmology with a scalar field. (English summary) **93m:83004**
Grigore, D. R. The derivation of Einstein equations from invariance principles. **93e:83010**
Heller, Michael Einstein algebras and general relativity. **93c:83010**
Ishihara, Hideki *see* **Okamura, Takashi, 93d:83008**
Jacobson, Ted (*with* Romano, Joseph D.) Degenerate extensions of general relativity. (English summary) **93g:83009**
— *see also* **Capovilla, Riccardo; et al., 93d:83006**
Jiang, Li Cai *see* **Duan, Yi Shi; et al., 93g:83007**
Kamimura, Kiyoshi (*with* Makita, Shinobu; Fukuyama, Takeshi) Metric from nonmetric action of gravity. (English summary) **93k:83007**
Kheyfets, Arkady (*with* Miller, Warner A.) É. Cartan moment of rotation in Ashtekar's self-dual representation of gravitation. **93g:83010**
Koshti, Sucheta Massless Einstein-Klein-Gordon theory in the spin connection formulation. (English summary) **93i:83008**
Lewandowski, Jerzy Reduced holonomy group and Einstein equations with a cosmological constant. (English summary) **93i:83009**
Makita, Shinobu *see* **Kamimura, Kiyoshi; et al., 93k:83007**
Maluf, José W. Self-dual connections, torsion and Ashtekar's variables. **93h:83006**
— Symmetry properties of Ashtekar's formulation of canonical gravity. (English summary) **93i:83010**
Manojlović, Nenad (*with* Miković, Aleksandar) Gauge fixing and independent canonical variables in the Ashtekar formulation of general relativity. (English summary) **93g:83011**
— (*with* Miković, Aleksandar) Canonical analysis of the Bianchi models in the Ashtekar formulation. (English summary) **93m:83005**
McManus, Des J. Generalised splitting of spacetime. **93a:83003**
Miković, Aleksandar *see* **Manojlović, Nenad, 93g:83011** *and* **93m:83005**
Miller, Warner A. *see* **Kheyfets, Arkady, 93g:83010**

Moncrief, Vincent Boost symmetries in spatially compact spacetimes with a cosmological constant. (English summary) **93j:83009**
— *see also* **Cameron, John, 93i:83006**
Newman, Ezra T. *see* **Frauendiener, Jörg, 93d:83007**
Okamura, Takashi (*with* Ishihara, Hideki) Perturbation of higher-genus spatial surfaces in $(2+1)$-dimensional gravity. **93d:83008**
Peldán, Peter Legendre transforms in Ashtekar's theory of gravity. **93a:83004**
— Connection formulation of $(2+1)$-dimensional Einstein gravity and topologically massive gravity. (English summary) **93i:83011**
— Ashtekar's variables for arbitrary gauge group. (English summary) **93g:83012**
— *see also* **Bengtsson, Ingemar, 93c:83004**
Perjés, Zoltán *see* **Fodor, G., 93e:83009**
Rendall, A. D. The characteristic initial value problem for the Einstein equations. **93j:83010**
Robinson, D. C. *see* **Goldberg, Joshua N.; et al., 93c:83009**
Romano, Joseph D. *see* **Jacobson, Ted, 93g:83009**
Sakellariadou, María Semiclassical effects and the onset of inflation. (English summary) **93m:83006**
Sinicco, I. *see* **Ferraris, Marco; et al., 93m:83003**
Smolin, Lee New Hamiltonian variables. (*see* **93b:83002**)
Śniatycki, Jędrzej Hamiltonian constraints, the Jacobi principle and gravity. **93c:83011**
Solov'ev, V. O. How canonical are Ashtekar's variables? (English summary) **93j:83011**
Soteriou, C. *see* **Goldberg, Joshua N.; et al., 93c:83009**
Sparling, George A. J. *see* **Frauendiener, Jörg, 93g:83008**
Sudarsky, Daniel (*with* Wald, Robert M.) Extrema of mass, stationarity, and staticity, and solutions to the Einstein-Yang-Mills equations. (English summary) **93k:83008**
Tate, Ranjeet S. Polynomial constraints for general relativity using real geometrodynamical variables. **93b:83005**
— *see also* **Ashtekar, Abhay, 93c:83003**
Treder, Hans-Jürgen Conform[al] invariance and Mach's principle in cosmology. (English summary) **93h:83007**
Verdaguer, E. *see* **Alvarez, Enrique; et al., 93g:83005**
Wald, Robert M. On the instability of the $n=1$ Einstein-Yang-Mills black holes and mathematically related systems. **93d:83009**
— *see also* **Sudarsky, Daniel, 93k:83008**
Wallner, R. P. Ashtekar's variables reexamined. (English summary) **93k:83009**
Weinstein, Gilbert The stationary axisymmetric two-body problem in general relativity. (English summary) **93k:83010**
Zalaletdinov, R. M. Averaging out the Einstein equations. (English summary) **93i:83012**
Zhang, Sheng Li² *see* **Duan, Yi Shi; et al., 93g:83007**

Items with secondary classifications in 83C05

Abrahams, Andrew M. (*with* Heiderich, Karen R.; Shapiro, Stuart L.; Teukolsky, Saul A.) Vacuum initial data, singularities, and cosmic censorship. (English summary) **93g:83077**
Aliev, B. N. (*with* Leznov, A. N.) Einstein's vacuum fields with nonabelian group of motion G_2 II. **93i:83024**
Andersson, Lars Åke (*with* Chruściel, Piotr T.; Friedrich, Helmut) On the regularity of solutions to the Yamabe equation and the existence of smooth hyperboloidal initial data for Einstein's field equations. (English summary) **93i:53040**
Ashtekar, Abhay Self-duality, quantum gravity, Wilson loops and all that. (*see* **93b:83002**)
Bartnik, Robert Quasi-spherical metrics and prescribed scalar curvature. (English summary) **93i:53041**
Bengtsson, Ingemar (*with* Boström, Ola) Infinitely many cosmological constants. **93c:83093**
Boström, Ola Degeneracy in loop variables; some further results. (English summary) **93i:83048**
— *see also* **Bengtsson, Ingemar, 93c:83093**
Bourguignon, Jean-Pierre Stabilité par déformation non-linéaire de la métrique de Minkowski (d'après D. Christodoulou et S. Klainerman). [Stability of the Minkowski metric under nonlinear deformation (after D. Christodoulou and S. Klainerman)] **93d:58164**
Capovilla, Riccardo (*with* Jacobson, Ted) Remarks on pure spin connection formulations of gravity. **93c:83080**
— Generally covariant gauge theories. **93g:81089**
Choquet-Bruhat, Yvonne (*with* Isenberg, James; Moncrief, Vincent) Solutions of constraints for Einstein equations. (English and French summaries) **93h:58151**
— Cosmological Yang-Mills hydrodynamics. **93a:83024**
Chruściel, Piotr T. On uniqueness in the large of solutions of Einstein's equations ("strong cosmic censorship"). (English summary) **93g:83078**
— *see also* **Andersson, Lars Åke; et al., 93i:53040**
Friedrich, Helmut *see* **Andersson, Lars Åke; et al., 93i:53040**
Fülöp, Géza Transformations and BRST-charges in $(2+1)$-dimensional gravitation. (English summary) **93j:81101**
Goldberg, Joshua N. (*with* Lewandowski, Jerzy; Stornaiolo, C.) Degeneracy in loop variables. (English summary) **93i:83047**
Grignani, G. (*with* Nardelli, G.) Gravity in $2+1$ dimensions coupled to point-like sources: a flat Chern-Simons gauge theory equivalent to Einstein's. **93b:81155**
Heiderich, Karen R. *see* **Abrahams, Andrew M.; et al., 93g:83077**
Hewitt, C. G. Algebraic invariant curves in cosmological dynamical systems and exact solutions. **93g:83018**
Isenberg, James *see* **Choquet-Bruhat, Yvonne; et al., 93h:58151**
Iyer, Savitri V. *see* **Kozameh, Carlos N.; et al., 93e:83029**
Jacobson, Ted *see* **Capovilla, Riccardo, 93c:83080**
Kalnins, E. G. (*with* Miller, Willard, Jr.; Williams, Graeme C.) Recent advances in the use of separation of variables methods in general relativity. (English summary) **93i:58169**
Kozameh, Carlos N. (*with* Newman, Ezra T.; Iyer, Savitri V.) Nonlocal equations for general relativity. **93e:83029**
Lewandowski, Jerzy *see* **Goldberg, Joshua N.; et al., 93i:83047**
Leznov, A. N. *see* **Aliev, B. N., 93i:83024**
Lottermoser, M. A convergent post-Newtonian approximation for the constraint equations in general relativity. (English and French summaries) **93i:83033**
Magnon, Anne Ashtekar variables and unification of gravitational and electromagnetic interactions. **93a:83023**
Malec, Edward Isoperimetric inequalities in the physics of black holes. **93e:83046**
Manojlović, Nenad (*with* Miković, Aleksandar) Ashtekar formulation of $(2+1)$-dimensional gravity on a torus. (English summary) **93m:83035**
Miković, Aleksandar *see* **Manojlović, Nenad, 93m:83035**
Miller, Willard, Jr. *see* **Kalnins, E. G.; et al., 93i:58169**
Moncrief, Vincent *see* **Choquet-Bruhat, Yvonne; et al., 93h:58151**
Nardelli, G. *see* **Grignani, G., 93b:81155**
Newman, Ezra T. *see* **Kozameh, Carlos N.; et al., 93e:83029**
Perjés, Zoltán The parametric manifold picture of space-time. **93f:83066**
Ponce de León, J. *see* **Wesson, Paul S., 93i:83087**
Rendall, A. D. Cosmic censorship and the Vlasov equation. (English summary) **93e:83052**
Salopek, D. S. (*with* Stewart, John Malcolm) Hamilton-Jacobi theory for general relativity with matter fields. (English summary) **93i:83051**
Shapiro, Stuart L. *see* **Abrahams, Andrew M.; et al., 93g:83077**
Smoller, Joel A. (*with* Wasserman, Arthur G.) Existence of particle-like solutions of the Einstein-Yang/Mills equations. **93b:81167**
Stewart, John Malcolm ★ Advanced general relativity. **93e:83002**
— *see also* **Salopek, D. S., 93i:83051**
Stoeger, William R. *see* **Zotov, Natalia V., 93d:83078**
Stornaiolo, C. *see* **Goldberg, Joshua N.; et al., 93i:83047**
Strachan, I. A. B. The Moyal algebra and integrable deformations of the self-dual Einstein equations. **93f:58117**
Teitelboim, Claudio Hamiltonian formulation of general relativity. (*see* **93h:83024**)
Terazawa, Hidezumi Space-time dimension of the Universe. **93d:83052**
Teukolsky, Saul A. *see* **Abrahams, Andrew M.; et al., 93g:83077**
Torre, C. G. A deformation theory of self-dual Einstein spaces. (English summary) **93j:53064**
Wang, An Zhong Plane walls interacting with gravitational waves and matter fields. **93b:83039**
Wasserman, Arthur G. *see* **Smoller, Joel A., 93b:81167**
Wesson, Paul S. (*with* Ponce de León, J.) Kaluza-Klein equations, Einstein's equations, and an effective energy-momentum tensor. **93i:83087**
Williams, Graeme C. *see* **Kalnins, E. G.; et al., 93i:58169**
Zotov, Natalia V. (*with* Stoeger, William R.) Averaging Einstein's equations. **93d:83078**

83C10 Equations of motion

Aksirov, M. M. A class of dependent solutions of field equations and the structure of relativistic acceleration. (Russian. Russian summary) **93i:83013**
Bezerra, Valdir B. (*with* dos Santos, Ivonete B.) Scalar and spinor solutions in the space-time of a domain wall. (English summary) **93g:83013**
Burdet, G. (*with* Perrin, Martine Jacqueline; Perroud, M.) Universal description of spinning test particles. **93c:83012**
Curir, Anna *see* **de Felice, Fernando, 93a:83005**
Damour, Thibault (*with* Soffel, Michael; Xu, Chong Ming) General-relativistic celestial mechanics. II. Translational equations of motion. **93b:83006**
Díaz Bejarano, José (*with* Miró Rodríguez, C.) Planetary orbits as limit cycles. (English summary) **93e:83011**
de Felice, Fernando (*with* Curir, Anna) Axial collimation in the Kerr metric. **93a:83005**
— (*with* Usseglio-Tomasset, Stefano) Circular orbits and relative strains in Schwarzschild space-time. (English summary) **93f:83007**
Ferrari, Valeria (*with* Martellini, Maurizio) Scattering of massless particles and spacetime shifts. (English summary) **93j:83012**
Gambí, J. M. *see* **San Miguel, A.; et al., 93a:83006**
Gamboa, Jorge (*with* Seguí-Santonja, Antonio J.) Motion of test particles around cosmic strings. (English summary) **93h:83008**
Groten, E. *see* **Yan, H. J., 93e:83013**
Iyer, Sai (*with* Prasanna, A. R.) Centrifugal force in Kerr geometry. (English summary) **93h:83009**
Jacobs, Mark W. *see* **Wilkins, Daniel, 93e:83012**
Kabat, Daniel N. Conditions for the existence of closed timelike curves in $2+1$ gravity. (English summary) **93f:83008**
Karas, Vladimír (*with* Vokrouhlický, David) Chaotic motion of test particles in the Ernst space-time. **93d:83010**
Mankoč-Borštnik, N. Spin connection as a superpartner of a vielbein. (English summary) **93i:83014**
Martellini, Maurizio *see* **Ferrari, Valeria, 93j:83012**
Mignemi, Salvatore Classical and quantum motion in an Eguchi-Hanson space. **93b:83007**
Miró Rodríguez, C. *see* **Díaz Bejarano, José, 93e:83011**
Modanese, Giovanni On the motion of test particles in a fluctuating gravitational field. (English summary) **93h:83010**
Nityananda, Rajaram (*with* Samuel, Joseph) Fermat's principle in general relativity. **93c:83013**
Otchik, V. S. Solutions of the Klein-Fock-Gordon equation in the Schwarzschild metric. (Russian. English and Russian summaries) **93i:83015**
Pawar, A. R. Stationary tensor fields in relativistic continuum mechanics. (English summary) **93j:83013**
Perlick, Volker The brachistochrone problem in a stationary space-time. **93c:83014**
Perrin, Martine Jacqueline *see* **Burdet, G.; et al., 93c:83012**
Perroud, M. *see* **Burdet, G.; et al., 93c:83012**
Pluta, Jerzy Lens effect in a Kerr field. (English summary) **93i:83016**
Prasanna, A. R. *see* **Iyer, Sai, 93h:83009**
Qadir, Asghar (*with* Sharif, M.) The relativistic generalization of the gravitational force for arbitrary space-times. (English summary) **93j:83014**
Samuel, Joseph *see* **Nityananda, Rajaram, 93c:83013**

San Miguel, A. (*with* Vicente Ruiz, Francisco; Gambí, J. M.) Geometry of geodesic triangles and relation between moving frames on time-like curves. (Spanish. English summary) **93a:83006**
dos Santos, Ivonete B. *see* **Bezerra, Valdir B., 93g:83013**
Seguí-Santonja, Antonio J. *see* **Gamboa, Jorge, 93h:83008**
Sharif, M. *see* **Qadir, Asghar, 93j:83014**
Soffel, Michael *see* **Damour, Thibault; et al., 93b:83006**
Soleng, Harald H. Creation of a time-machine in $(2+1)$-dimensional gravity. (English summary) **93i:83017**
Tertychnyĭ, S. I. Light deflection in a central symmetric static gravitational field. (English summary)
Usseglio-Tomasset, Stefano *see* **de Felice, Fernando, 93f:83007**
Vanzo, Luciano A generalization of the equation of geodesic deviation. (English summary) **93f:83009**
Vicente Ruiz, Francisco *see* **San Miguel, A.; et al., 93a:83006**
Vokrouhlický, David *see* **Karas, Vladimír, 93d:83010**
Wilkins, Daniel (*with* Jacobs, Mark W.) Gödel's gravitomagnet. (English summary) **93e:83012**
Xu, Chong Ming *see* **Damour, Thibault; et al., 93b:83006**
Yan, H. J. (*with* Groten, E.) Equations of motion and orbit perturbations of a neutral particle in a quasi-isotropic Kerr metric. **93e:83013**

Items with secondary classifications in 83C10

de Felice, Fernando (*with* Usseglio-Tomasset, Stefano) Schwarzschild spacetime: measurements in orbiting space-stations. (English summary) **93k:83004**
Karas, Vladimír (*with* Vokrouhlický, David) Dynamics of charged particles near a black hole in a magnetic field. (English summary)
Kim, Sung-Won Particle creation for time travel through a wormhole. (English summary) **93f:83050**
Leiko, S. G. Extremals of curve-turn functionals of a pseudo-Riemannian space and the trajectories of spinning particles in gravitational fields. (Russian) **93k:70032**
Loskutov, Yu. M. A conjecture on the P-odd contribution to gravitational interactions and its consequences. (Russian. English and Russian summaries) **93k:81158**
Mikheeva, E. V. (*with* Novikov, Igor D.) Inelastic billiard ball in a spacetime with a time machine. (English summary) **93m:83065**
Novikov, Igor D. *see* **Mikheeva, E. V., 93m:83065**
de Oliveira, E. Capelas On the solution of homogeneous generalized wave equation. (English summary) **93h:35036**
Qadir, Asghar (*with* Sharif, M.) General formula for the momentum imparted to test particles in arbitrary spacetimes. **93d:83026**
Sharif, M. *see* **Qadir, Asghar, 93d:83026**
Shishkin, G. V. (*with* Villalba, Víctor M.) Neutrino in the presence of gravitational fields: exact solutions. (English summary) **93k:83054**
Śniatycki, Jędrzej Hamiltonian constraints, the Jacobi principle and gravity. **93c:83011**
Usseglio-Tomasset, Stefano *see* **de Felice, Fernando, 93k:83004**
Villalba, Víctor M. *see* **Shishkin, G. V., 93k:83054**
Vokrouhlický, David *see* **Karas, Vladimír**
Zhelnorovich, V. A. On an invariant tensor description of massless spinor fields. (Russian) **93c:81072**

83C15 Exact solutions

Ahmed, Mainuddin (*with* Biswas, Elias Uddin) Cosmic string in the NUT-Kerr-Newman spacetime. (English summary) **93m:83007**
(Bampi, Franco) *see* **Joly, G. C.; et al., 93a:83007**
Banerjee, Shyamal Kumar *see* **Roy, S. R., 93h:83012**
Barrow, John D. (*with* Saich, Paul) Scalar-field cosmologies. (English summary) **93i:83018**
Bičák, Jiří (*with* Lynden-Bell, D.; Katz, Joseph) Relativistic disks as sources of static vacuum spacetimes. (English summary) **93m:83008**
Biswas, Elias Uddin *see* **Ahmed, Mainuddin, 93m:83007**
Bokhari, Ashfaque H. Cosmological model with heat flow. (English summary)
— Homothetic cosmological solutions of Einstein's field equations with heat flow. (English summary) **93j:83015**
Bonnor, W. B. (*with* Davidson, W.) Interpreting the Levi-Civita vacuum metric. (English summary) **93g:83014**
Buts, S. V. *see* **Korkina, M. P., 93k:83012**
Capovilla, Riccardo (*with* Plebański, Jerzy) Some exact solutions of the Einstein field equations in terms of the self-dual spin connection. (English summary) **93j:83016**
Carminati, John (*with* Cooperstock, F. I.) Herlt metrics and gravitational-electrostatic balance in general relativity. **93b:83008**
Castejón-Amenedo, J. (*with* Coley, Alan A.) Exact solutions with conformal Killing vector fields. (English summary) **93j:83017**
Chakraborty, Subenoy Wormhole solutions in $\mathbf{R}^1 \times S^1 \times S^2$ topological space. (English summary) **93e:83014**
Chermyanin, S. I. A new type of solution of the Schwarzschild problem for a point-source. (English summary) **93m:83009**
Cho, Y. M. (*with* Park, D. H.) Causally spanning anyonic cosmic string. (English summary) **93g:83015**
(Cianci, Roberto) *see* **Joly, G. C.; et al., 93a:83007**
Coley, Alan A. *see* **Castejón-Amenedo, J., 93j:83017**
Cooperstock, F. I. *see* **Carminati, John, 93b:83008**
Coule, David H. Wormholes with arbitrary coupling ξ. (English summary) **93i:83019**
— Wormhole or bounce? (English summary) **93j:83018**
Davidson, W. *see* **Bonnor, W. B., 93g:83014**
Dialynas, Thanassis E. *see* **Xanthopoulos, Basilis C., 93d:83015**
Dunn, K. A. (*with* Harriott, Tina A.; Williams, Jeffrey George) FLRW kinks. **93f:83010**
Ellis, George F. R. *see* **Stoeger, William R.; et al., 93e:83021**
El-Said, M. *see* **Halilsoy, M., 93m:83010**
Fan, J. F. (*with* Xie, Guang Zhong; Tang, Zhi Ming; Wang, Yong Jiu) The exact solution of Einstein's disc. (English summary) **93e:83015**
Feinstein, Alexander (*with* Ibañez, J.) Exact anisotropic scalar field cosmologies. (English summary) **93i:83020**
Frankowski, K. *see* **Pekeris, C. L., 93d:83013** *and* **93i:83023**
Frittelli, Simonetta (*with* Moreschi, Osvaldo M.) Study of the Robinson-Trautman metrics in the asymptotic future. **93f:83011**
Gal'tsov, D. V. (*with* Xanthopoulos, Basilis C.) A generating technique for Einstein gravity conformally coupled to a scalar field with Higgs potential. **93b:83009**
García Díaz, Alberto (*with* Téllez, Jorge) Stationary axisymmetric charged perfect fluid type D solutions. **93g:83016**
Gokhroo, M. K. *see* **Mehra, A. L., 93j:83019**
Halilsoy, M. (*with* El-Said, M.) The physical interpretation of a Painlevé transcendent spacetime. (English summary) **93m:83010**
Harriott, Tina A. *see* **Dunn, K. A.; et al., 93f:83010**
Herrera, L. (*with* Man'ko, V. S.) Stationary solution of the Einstein equations possessing zero total angular momentum. **93d:83011**
Heusler, Markus (*with* Straumann, Norbert) Scaling arguments for the existence of static, spherically symmetric solutions of self-gravitating systems. (English summary) **93g:83017**
Hewitt, C. G. Algebraic invariant curves in cosmological dynamical systems and exact solutions. **93g:83018**
Ibañez, J. *see* **Feinstein, Alexander, 93i:83020**
Israelit, Mark *see* **Rosen, Nathan, (93j:83004)**
Jensen, Bjørn (*with* Soleng, Harald H.) General-relativistic model of a spinning cosmic string. **93d:83012**
Jiang, Sheng Generalized Stephani universes. (English summary) **93g:83019**
Joly, G. C. (*with* MacCallum, M. A. H.; Siklos, S. T. C.) Comment on: "Generalized axisymmetric spacetimes" of F. Bampi and R. Cianci [Comm. Math. Phys. **70** (1979), no. 1, 69–74; MR 80i:83037]. **93a:83007**
Kasai, Masumi Construction of inhomogeneous universes which are Friedmann-Lemaître-Robertson-Walker on average. (English summary) **93f:83012**
Katz, Joseph *see* **Bičák, Jiří; et al., 93m:83008**
Kim, Sung-Won Schwarzschild-de Sitter type wormhole. **93f:83013**
Knutsen, Henning Physical properties of an exact spherically symmetric solution with shear in general relativity. (English summary) **93k:83011**
Korkina, M. P. (*with* Buts, S. V.) Penrose diagrams for Schwarzschild-Friedmann models in Kruskal coordinates. (Russian. Russian summary) **93k:83012**
Krasiński, Andrzej A note on the uniqueness of the Wyman solution. (English summary) **93g:83020**
Lauro, S. *see* **Schucking, E. L.; et al., (93j:83004)**
Letelier, Patricio S. Topological defects: cosmic strings with multipolar structure. (English summary) **93i:83021**
Li, Jiang Fan Interior solutions of a static charged perfect fluid sphere in general relativity. (Chinese. Chinese summary) **93f:83014**
Lü, Jun Li *see* **Zhou, Qi Huang, 93m:83011**
Ludwig, Garry (*with* Yu, Yaozhu Brian) Type N twisting vacuum gravitational fields. **93b:83010**
Lynden-Bell, D. *see* **Bičák, Jiří; et al., 93m:83008**
Maartens, R. (*with* Wolfaardt, M. F.) Some exact Bianchi solutions. **93e:83016**
MacCallum, M. A. H. *see* **Joly, G. C.; et al., 93a:83007**
Magueijo, J. C. R. Inborn metric of cosmic strings. (English summary) **93e:83017**
Maiti, Pijush K. *see* **Roy, A. R., 93a:83008**
Man'ko, V. S. (*with* Novikov, Igor D.) Generalizations of the Kerr and Kerr-Newman metrics possessing an arbitrary set of mass-multipole moments. (English summary) **93i:83022**
— The exterior gravitational field of a static and stationary mass with an arbitrary set of multipole moments. **93f:83015**
— (*with* Sibgatullin, N. R.) Kerr-Newman metric endowed with magnetic dipole moment. (English summary) **93k:83013**
— *see also* **Herrera, L., 93d:83011**
McIntosh, Colin B. G. Real Kasner and related complex "windmill" vacuum spacetime metrics. **93e:83018**
Mehra, A. L. (*with* Gokhroo, M. K.) Sphere of variable densities in general relativity. (English summary) **93j:83019**
Mehta, N. P. *see* **Patel, L. K., 93g:83021**
Moreschi, Osvaldo M. *see* **Frittelli, Simonetta, 93f:83011**
Nakao, Ken-ichi The Oppenheimer-Snyder space-time with a cosmological constant. (English summary) **93f:83016**
Nel, Stanley D. *see* **Stoeger, William R.; et al., 93e:83021**
Novikov, Igor D. *see* **Man'ko, V. S., 93i:83022**
Park, D. H. *see* **Cho, Y. M., 93g:83015**
Patel, L. K. (*with* Mehta, N. P.) A cylindrical string cosmological model. (English summary) **93g:83021**
— (*with* Singh, Tejinder) Relativistic charged dust spheres. (English summary)
— *see also* **Tikekar, Ramesh, 93c:83015**
Pekeris, C. L. (*with* Frankowski, K.) Note on the form of the metric for an isolated vortex in general relativity. **93d:83013**
— (*with* Frankowski, K.) Correction: "Note on the form of the metric for an isolated vortex in general relativity" [Proc. Nat. Acad. Sci. U.S.A. **89** (1992), no. 15, 6703–6705; MR 93d:83013]. **93i:83023**
Plebański, Jerzy *see* **Capovilla, Riccardo, 93j:83016**
Puşcaşu, Elena Une solution des équations gravitationnelles d'Einstein. (Romanian summary) [A solution of Einstein's gravitational equations] **93f:83017**
Quevedo, Hernando Complex transformations of the curvature tensor. **93e:83019**
— Determination of the metric from the curvature. **93e:83020**
Rácz, István Note on stationary-axisymmetric vacuum spacetimes with inside ellipsoidal symmetry. (English summary) **93h:83011**
Ram, Shri (*with* Singh, Prem) Bianchi type-II string-dust universes. (English summary) **93d:83014**
— (*with* Singh, Prem) Anisotropic cosmological models of Bianchi types III and V in Lyra's geometry. (English summary) **93g:83022**
Rosen, Nathan (*with* Israelit, Mark) A simple model of the universe without singularities.

(*see* **93j:83004**)

Roy, A. R. (*with* Maiti, Pijush K.) Viscous fluid cosmological models in the presence of the zero-mass scalar field. **93a:83008**

Roy, S. R. (*with* Banerjee, Shyamal Kumar) Bianchi VI cosmological models representing perfect fluid and radiation with electric-type free gravitational fields. (English summary) **93h:83012**

Saich, Paul *see* **Barrow, John D., 93i:83018**

Schucking, E. L. (*with* Lauro, S.; Wang, Jia-Zhu) Pre-post-history of Tolman's cosmos. (English summary) (*see* **93j:83004**)

Sibgatullin, N. R. *see* **Man'ko, V. S., 93k:83013**

Siklos, S. T. C. *see* **Joly, G. C.; et al., 93a:83007**

Singh, Prem *see* **Ram, Shri, 93d:83014** *and* **93g:83022**

Singh, Tejinder *see* **Patel, L. K.**

Soleng, Harald H. *see* **Jensen, Bjørn, 93d:83012**

Stoeger, William R. (*with* Ellis, George F. R.; Nel, Stanley D.) Observational cosmology. III. Exact spherically symmetric dust solutions. **93e:83021**

Straumann, Norbert *see* **Heusler, Markus, 93g:83017**

Tang, Zhi Ming *see* **Fan, J. F.; et al., 93e:83015**

Téllez, Jorge *see* **García Díaz, Alberto, 93g:83016**

Tikekar, Ramesh (*with* Patel, L. K.) Some exact solutions of string cosmology in Bianchi III space-time. **93c:83015**

Tomaschitz, Roman Relativistic chaos in Robertson-Walker cosmologies: the topological structure of space-time and the microscopic dynamics. (*see* **93i:58004**)

Uehara, Shozo A note on gravitational and SU(2) instantons with Ashtekar variables. **93a:83009**

Wahlquist, H. D. Erratum: "The problem of exact interior solutions for rotating rigid bodies in general relativity" [J. Math. Phys. 33 (1992), no. 1, 304–335; MR 92m:83017]. **Wang, Jia-Zhu** *see* **Schucking, E. L.; et al.,** (**93j:83004**)

Wang, Yong Jiu *see* **Fan, J. F.; et al., 93e:83015**

Williams, Jeffrey George *see* **Dunn, K. A.; et al., 93f:83010**

Wolfaardt, M. F. *see* **Maartens, R., 93e:83016**

Wu, Ya Bo Double Bäcklund transformations and fission solutions of axisymmetric gravitational equations. **93b:83011**

Xanthopoulos, Basilis C. (*with* Zannias, Thomas) The gravity of three-forms. **93e:83022**

— (*with* Dialynas, Thanassis E.) Einstein gravity coupled to a massless conformal scalar field in arbitrary space-time dimensions. **93d:83015**

— *see also* **Gal'tsov, D. V., 93b:83009**

Xie, Guang Zhong *see* **Fan, J. F.; et al., 93e:83015**

Yu, Yaozhu Brian *see* **Ludwig, Garry, 93b:83010**

Zannias, Thomas *see* **Xanthopoulos, Basilis C., 93e:83022**

Zhou, Qi Huang (*with* Lü, Jun Li) A study on the interior metric of an axisymmetric perfect fluid—a family of exact analytic solutions to the Einstein field equations. (Chinese. English summary) **93m:83011**

Items with secondary classifications in 83C15

Aliev, B. N. (*with* Leznov, A. N.) Exact solutions of the vacuum Einstein's equations allowing for two noncommutative Killing vectors (type G_2II of Petrov classification). **93e:83023**

Azuma, Takahiro (*with* Koikawa, Takao) Classification of an infinite series of static solutions to the vacuum Einstein equations. (English summary) **93j:83020**

Bao, G. *see* **Stuchlík, Z., 93g:83073**

Benci, Vieri (*with* Fortunato, Donato; Giannoni, Fabio) On the existence of geodesics in static Lorentz manifolds with singular boundary. **93j:58028**

Bene, Julius *see* **Graham, Robert, 93m:83004**

Benenti, S. Separation of variables in the geodesic Hamilton-Jacobi equation. **93d:58185**

Bento, M. C. (*with* Bertolami, O.; Moniz, P. V.; Mourão, J. M.; Sá, P. M.) On the cosmology of massive vector fields with SO(3) global symmetry. (English summary) **93i:83026**

Bertolami, O. *see* **Bento, M. C.; et al., 93i:83026**

Bradley, Michael *see* **de Felice, Fernando; et al., 93c:83085**

Chakraborty, Subenoy (*with* Nandy, Gopal Chandra) Spatially homogeneous cosmological model in viscous fluid with heat flux and magnetic field. (English summary) **93e:83041**

Chruściel, Piotr T. (*with* Singleton, David B.) Nonsmoothness of event horizons of Robinson-Trautman black holes. **93i:83059**

Coley, Alan A. (*with* Czapor, S. R.) Plane symmetric spacetimes admitting inheriting conformal Killing vector fields. **93f:83018**

— (*with* Tupper, B. O. J.) Affine conformal vectors in space-time. **93b:83014**

Collinson, C. D. (*with* O'Donnell, P. J.) A class of empty spacetimes admitting a rational first integral of the geodesic equation. **93e:83025a**

— (*with* O'Donnell, P. J.) Erratum: "A class of empty spacetimes admitting a rational first integral of the geodesic equation". **93e:83025b**

Cooperstock, F. I. (*with* Richardson, S. A.) Energy localization and the Kerr-Newman metric. **93g:83039**

Coule, David H. *see* **Ellis, George F. R.; et al., 93c:83018**

Cvetič, Mirjam (*with* Davis, Richard Lynn; Griffies, Stephen; Soleng, Harald H.) Cauchy horizons, thermodynamics, and closed timelike curves in planar supersymmetric spaces. (English summary) **93j:83061**

Czapor, S. R. *see* **Coley, Alan A., 93f:83018**

Davis, Richard Lynn *see* **Cvetič, Mirjam; et al., 93j:83061**

Demiański, Marek (*with* de Ritis, R.; Rubano, C.; Scudellaro, P.) Scalar fields and anisotropy in cosmological models. (English summary) **93g:83096**

Denisova, T. E. (*with* Man'ko, V. S.) Exact solution of the Einstein-Maxwell equations referring to a charged spinning mass. **93i:83031**

Diamandis, G. A. (*with* Georgalas, B. C.; Lahanas, A. B.) Does σ-model conformal invariance imply a Robertson-Walker universe? (English summary) **93d:83066**

Duan, Yi Shi (*with* Zhang, Sheng Li[2]; Jiang, Li Cai) A new coordinate condition in general relativity. (English summary) **93g:83007**

Dunn, K. A. (*with* Harriott, Tina A.; Williams, Jeffrey George) Kinks in 1 + 1, 2 + 1 and 3 + 1 dimensions. **93d:83017**

Ellis, George F. R. (*with* Sumeruk, A.; Coule, David H.; Hellaby, C.) Change of signature in classical relativity. **93c:83018**

— *see also* **Stoeger, William R.; et al., 93j:83082** *and* **93j:83083**

de Felice, Fernando (*with* Usseglio-Tomasset, Stefano) Circular orbits and relative strains in Schwarzschild space-time. (English summary) **93f:83007**

— (*with* Usseglio-Tomasset, Stefano; Bradley, Michael) Singularities inside matter: the static case. **93c:83085**

Ferrari, Valeria (*with* Martellini, Maurizio) Scattering of massless particles and spacetime shifts. (English summary) **93j:83012**

Finley, J. D., III (*with* Plebański, Jerzy) Equations for twisting, type-N, vacuum Einstein spaces without a need for Killing vectors. **93f:83019**

Fišer, Kurt (*with* Rosquist, Kjell; Uggla, Claes) Bianchi type V perfect fluid cosmologies. **93d:83018**

Fortunato, Donato *see* **Benci, Vieri; et al., 93j:58028**

Genk, A. V. A nonstatic centrally symmetric vacuum solution in RTG. (Russian. English summary) **93b:83052**

Georgalas, B. C. *see* **Diamandis, G. A.; et al., 93d:83066**

Giannoni, Fabio *see* **Benci, Vieri; et al., 93j:58028**

Graham, Robert (*with* Bene, Julius) Supersymmetric Bianchi type IX cosmology with a scalar field. (English summary) **93m:83004**

Griffies, Stephen *see* **Cvetič, Mirjam; et al., 93j:83061**

Groten, E. *see* **Yan, H. J., 93e:83013**

Harriott, Tina A. *see* **Dunn, K. A.; et al., 93d:83017**

Havas, Peter Shear-free spherically symmetric perfect fluid solutions with conformal symmetry. **93g:83024**

Hecht, R. D. On Toma's Kerr metric solution in new general relativity. **93g:83087**

Hellaby, C. *see* **Ellis, George F. R.; et al., 93c:83018**

Helmi, A. M. *see* **Singh, Tarkeshwar[2]; et al., 93m:83019**

Hogan, P. A. A spherical gravitational wave in the de Sitter universe. (English summary) **93i:83038**

— A spherical impulse gravity wave. (English summary) **93k:83021**

Huang, Chao Guang Thermal stress-energy tensor of a scalar field in Reissner-Nordström space-time. **93b:83033**

Huang, Wung Hong Gravitational field of radiating cosmic string. (English summary) **93k:83071**

Hughes, Shane J. (*with* McManus, Des J.; Vandyck, Michel A.) Weak-field gravity of circular cosmic strings. (English summary) **93h:83018**

Iliopoulos, J. (*with* Tomaras, T. N.) Scalar fields on a Robertson-Walker background. **93b:81188a**

— (*with* Tomaras, T. N.) Erratum: "Scalar fields on a Robertson-Walker background". **93b:81188b**

Iyer, Sai (*with* Prasanna, A. R.) Centrifugal force in Kerr geometry. (English summary) **93h:83009**

Jacobs, Mark W. *see* **Wilkins, Daniel, 93e:83012**

Jiang, Li Cai *see* **Duan, Yi Shi; et al., 93g:83007**

Jing, Ji Liang *see* **Yu, Hong Wei; et al., 93g:83076**

Kabat, Daniel N. Conditions for the existence of closed timelike curves in 2 + 1 gravity. (English summary) **93f:83008**

Kawai, Toshiharu (*with* Toma, Naoki) A charged Kerr metric solution in new general relativity. **93c:83098**

Koikawa, Takao *see* **Azuma, Takahiro, 93j:83020**

Lahanas, A. B. *see* **Diamandis, G. A.; et al., 93d:83066**

Leznov, A. N. *see* **Aliev, B. N., 93e:83023**

Li, Yuan Jie (*with* Wang, Zhi Jun) Inhomogeneous R^2 inflationary models. (English summary) **93g:83099**

Liu, Hong Ya (*with* Wesson, Paul S.) Exact solutions of general relativity derived from 5-D "black hole" solutions of Kaluza-Klein theory. (English summary) **93i:83062**

Ludwig, Garry Twisting type N vacuum metrics. **93c:83021**

Lukács, Béla On the Bonnor counterparts of the Tomimatsu-Sato solutions. (English summary) **93g:83030**

Man'ko, V. S. (*with* Sibgatullin, N. R.) Kerr metric endowed with magnetic dipole moment. (English summary) **93h:83016**

— (*with* Sibgatullin, N. R.) Metric of a rotating, charged, magnetised mass. (English summary) **93g:83031**

— *see also* **Denisova, T. E., 93i:83031**

Martellini, Maurizio *see* **Ferrari, Valeria, 93j:83012**

Masood-ul-Alam, A. K. M. Uniqueness proof of static charged black holes revisited. **93f:83059**

McLeod, J. Bryce *see* **Smoller, Joel A.; et al., 93a:58043** *and* **93a:58044**

McManus, Des J. *see* **Hughes, Shane J.; et al., 93h:83018**

Mignemi, Salvatore Classical and quantum motion in an Eguchi-Hanson space. **93b:83007**

Moniz, P. V. (*with* Mourão, J. M.; Sá, P. M.) The dynamics of a flat Friedmann-Robertson-Walker inflationary model in the presence of gauge fields. (English summary) **93m:83085**

— *see also* **Bento, M. C.; et al., 93i:83026**

Mourão, J. M. *see* **Bento, M. C.; et al., 93i:83026** *and* **Moniz, P. V.; et al., 93m:83085**

Nandy, Gopal Chandra *see* **Chakraborty, Subenoy, 93e:83041**

Nel, Stanley D. *see* **Stoeger, William R.; et al., 93j:83082** *and* **93j:83083**

O'Donnell, P. J. *see* **Collinson, C. D., 93e:83025a** *and* **93e:83025b**

Olivier, Dominique Complex coordinates and Kähler potential for the Atiyah-Hitchin metric. **93e:53086**

Otchik, V. S. Solutions of the Klein-Fock-Gordon equation in the Schwarzschild metric. (Russian. English and Russian summaries) **93i:83015**

Patel, L. K. *see* **Tikekar, Ramesh, 93k:83018**

Pimentel, Luis O. The Klein-Gordon equation in some anisotropic cosmologies. (English summary) **93k:83041**

Plebański, Jerzy *see* **Finley, J. D., III, 93f:83019**

Prasanna, A. R. *see* **Iyer, Sai, 93h:83009**

Ram, Budh Infinitely many solutions of Einstein cosmology in "slow-roll". (English summary) **93j:83081**

Richardson, S. A. *see* **Cooperstock, F. I., 93g:83039**

de Ritis, R. *see* **Demiański, Marek; et al., 93g:83096**
Rosquist, Kjell (*with* Uggla, Claes) Killing tensors in two-dimensional space-times with applications to cosmology. **93c:83024**
— *see also* **Fišer, Kurt; et al., 93d:83018**
Rubano, C. *see* **Demiański, Marek; et al., 93g:83096**
Sá, P. M. *see* **Bento, M. C.; et al., 93i:83026** *and* **Moniz, P. V.; et al., 93m:83085**
Scudellaro, P. *see* **Demiański, Marek; et al., 93g:83096**
Shen, You Gen Interior solutions in static spherical symmetric higher-dimensional space-time. **93m:83078**
— (*with* Tan, Zhen Qiang) Wormhole in the Einstein theory. **93d:83061**
Sibgatullin, N. R. *see* **Man'ko, V. S., 93g:83031** *and* **93h:83016**
Silva-Ortigoza, G. *see* **Torres del Castillo, G. F., 93i:83066**
Singh, G. P. *see* **Singh, Tarkeshwar^2; et al., 93m:83019**
Singh, Tarkeshwar^2 (*with* Singh, G. P.; Helmi, A. M.) Solutions of Einstein's field equations for charged static fluid spheres. (English summary) **93m:83019**
Singleton, David B. *see* **Chruściel, Piotr T., 93i:83059**
Smoller, Joel A. (*with* Wasserman, Arthur G.; Yau, Shing-Tung; McLeod, J. Bryce) Smooth static solutions of the Einstein/Yang-Mills equations. **93a:58044**
— (*with* Wasserman, Arthur G.; Yau, Shing-Tung; McLeod, J. Bryce) Smooth static solutions of the Einstein-Yang/Mills equations. **93a:58043**
Soleng, Harald H. *see* **Cvetič, Mirjam; et al., 93j:83061**
Srivastava, D. C. Exact solutions for shear-free motion of spherically symmetric charged perfect fluid distributions in general relativity. **93e:83027**
Stoeger, William R. (*with* Nel, Stanley D.; Ellis, George F. R.) Observational cosmology. IV. Perturbed spherically symmetric dust solutions. **93j:83082**
— (*with* Nel, Stanley D.; Ellis, George F. R.) Observational cosmology. V. Solution of the first-order general perturbation equations. **93j:83083**
Stuchlík, Z. (*with* Bao, G.) Radiation from hot spots orbiting an extreme Reissner-Nordström black hole. (English summary) **93g:83073**
Sumeruk, A. *see* **Ellis, George F. R.; et al., 93c:83018**
Tan, Zhen Qiang *see* **Shen, You Gen, 93d:83061**
Tikekar, Ramesh (*with* Patel, L. K.) A charged analog of Schwarzschild interior metric. (English summary) **93k:83018**
Toma, Naoki *see* **Kawai, Toshiharu, 93c:83098**
Tomaras, T. N. *see* **Iliopoulos, J., 93b:81188a** *and* **93b:81188b**
Tomaschitz, Roman Relativistic quantum chaos in Robertson-Walker cosmologies. **93g:81027**
Torres del Castillo, G. F. (*with* Silva-Ortigoza, G.) Spin-$\frac{1}{2}$ perturbations of the Kerr-Newman solution. (English summary) **93i:83066**
Tupper, B. O. J. *see* **Coley, Alan A., 93b:83014**
Uggla, Claes *see* **Rosquist, Kjell, 93c:83024** *and* **Fišer, Kurt; et al., 93d:83018**
Usseglio-Tomasset, Stefano *see* **de Felice, Fernando; et al., 93c:83085** *and* **93f:83007**
Vandyck, Michel A. *see* **Hughes, Shane J.; et al., 93h:83018**
Wang, Yong Jiu *see* **Yu, Hong Wei; et al., 93g:83076**
Wang, Zhi Jun *see* **Li, Yuan Jie, 93g:83099**
Wasserman, Arthur G. *see* **Smoller, Joel A.; et al., 93a:58043** *and* **93a:58044**
Wesson, Paul S. *see* **Liu, Hong Ya, 93i:83062**
Wilkins, Daniel (*with* Jacobs, Mark W.) Gödel's gravitomagnet. (English summary) **93e:83012**
Williams, Jeffrey George *see* **Dunn, K. A.; et al., 93d:83017**
Xanthopoulos, Basilis C. (*with* Zannias, Thomas) Kantowski-Sachs metrics with source: a massless scalar field. **93f:83025**
— (*with* Zannias, Thomas) Kantowski-Sachs metrics with source: a conformally invariant scalar field. **93f:83026**
Yan, H. J. (*with* Groten, E.) Equations of motion and orbit perturbations of a neutral particle in a quasi-isotropic Kerr metric. **93e:83013**
Yau, Shing-Tung *see* **Smoller, Joel A.; et al., 93a:58043** *and* **93a:58044**
Yu, Hong Wei (*with* Jing, Ji Liang; Wang, Yong Jiu) The Newman-Penrose formalism of the coupled SU(5) Einstein-Yang-Mills-Higgs field equations. (English summary) **93g:83076**
Zannias, Thomas *see* **Xanthopoulos, Basilis C., 93f:83025** *and* **93f:83026**
Zhang, Sheng Li^2 *see* **Duan, Yi Shi; et al., 93g:83007**

83C20 Classes of solutions; algebraically special solutions, metrics with symmetries

Aherkar, S. M. *see* **Asgekar, G. G., 93e:83024**
Aliev, B. N. (*with* Leznov, A. N.) Einstein's vacuum fields with nonabelian group of motion G_2 II. **93i:83024**
— (*with* Leznov, A. N.) Exact solutions of the vacuum Einstein's equations allowing for two noncommutative Killing vectors (type G_2II of Petrov classification). **93e:83023**
Arianrhod, R. (*with* McIntosh, Colin B. G.) Principal null directions of Petrov type I Weyl spinors: geometry and symmetry. (English summary) **93i:83025**
Asgekar, G. G. (*with* Aherkar, S. M.) Relativistic static spheres filled with infinitely conducting charged fluids. **93e:83024**
Azuma, Takahiro (*with* Koikawa, Takao) Classification of an infinite series of static solutions to the vacuum Einstein equations. (English summary) **93j:83020**
Bagrov, V. G. (*with* Obukhov, V. V.; Sakhapov, A. G.) Stäckel electrovacuum spaces that admit complete separation of variables in a diagonalized Dirac equation. Type (2.1). (Russian)
Barrabès, Claude (*with* Israel, Werner) Light-like surface layers in general relativity. **93h:83013**
Beisekeev, S. B. (*with* Gutsunaev, Ts. I.) A class of solutions of the steady-state vacuum Einstein equations. (Russian) **93b:83012**
Bento, M. C. (*with* Bertolami, O.; Moniz, P. V.; Mourão, J. M.; Sá, P. M.) On the cosmology of massive vector fields with SO(3) global symmetry. (English summary) **93i:83026**
Bertolami, O. *see* **Bento, M. C.; et al., 93i:83026**
Coley, Alan A. (*with* Tupper, B. O. J.) Fluid spacetimes admitting covariantly constant vectors and tensors. **93c:83016**
— (*with* Tupper, B. O. J.) Affine conformal vectors in spacetime. **93d:83016**
— (*with* Wainwright, John) Qualitative analysis of two-fluid Bianchi cosmologies. **93b:83013**
— (*with* Czapor, S. R.) Plane symmetric spacetimes admitting inheriting conformal Killing vector fields. **93f:83018**
— (*with* Tupper, B. O. J.) Affine conformal vectors in space-time. **93b:83014**
— (*with* Dunn, K. A.) Qualitative analysis of a class of Bianchi V imperfect fluid cosmologies. **93c:83017**
Collins, J. M. (*with* d'Inverno, R. A.) The Karlhede classification of type-*D* nonvacuum spacetimes. (English summary) **93k:83014**
Collinson, C. D. (*with* O'Donnell, P. J.) A class of empty spacetimes admitting a rational first integral of the geodesic equation. **93e:83025a**
— (*with* O'Donnell, P. J.) Erratum: "A class of empty spacetimes admitting a rational first integral of the geodesic equation". **93e:83025b**
— *see also* **Vaz, E. G. L. R., 93a:83010**
da Costa, José Manuel N. (*with* Vaz, E. G. L. R.) Vacuum type *N* space-times admitting homothetic vector fields with isolated fixed points. **93m:83012**
Coule, David H. *see* **Ellis, George F. R.; et al., 93c:83018**
Czapor, S. R. *see* **Coley, Alan A., 93f:83018**
Donets, E. E. (*with* Gal'tsov, D. V.) Continuous family of Einstein-Yang-Mills wormholes. (English summary) **93i:83027**
— (*with* Gal'tsov, D. V.) Continuous family of Einstein-Yang-Mills wormholes. (English summary) **93k:83015**
Dunn, K. A. (*with* Harriott, Tina A.; Williams, Jeffrey George) Kinks in 1 + 1, 2 + 1 and 3 + 1 dimensions. **93d:83017**
— *see also* **Coley, Alan A., 93c:83017**
Edgar, Brian Integration methods within existing tetrad formalisms in general relativity. (English summary) **93j:83021**
Ellis, George F. R. (*with* Sumeruk, A.; Coule, David H.; Hellaby, C.) Change of signature in classical relativity. **93c:83018**
Fagundes, Helio V. Closed spaces in cosmology. **93c:83019**
Finley, J. D., III (*with* Plebański, Jerzy) Equations for twisting, type-*N*, vacuum Einstein spaces without a need for Killing vectors. **93f:83019**
Fišer, Kurt (*with* Rosquist, Kjell; Uggla, Claes) Bianchi type V perfect fluid cosmologies. **93d:83018**
Gal'tsov, D. V. *see* **Donets, E. E., 93i:83027** *and* **93k:83015**
Gravel, Pierre How many gravitational 't Hooft instantons are there past the first one? **93g:83023**
Gutsunaev, Ts. I. *see* **Beisekeev, S. B., 93b:83012**
Harriott, Tina A. *see* **Dunn, K. A.; et al., 93d:83017**
Harris, Steven Conformally stationary spacetimes. **93c:83020**
Havas, Peter Shear-free spherically symmetric perfect fluid solutions with conformal symmetry. **93g:83024**
Hellaby, C. *see* **Ellis, George F. R.; et al., 93c:83018**
Hewitt, C. G. (*with* Wainwright, John) Dynamical systems approach to tilted Bianchi cosmologies: irrotational models of type V. (English summary) **93i:83028**
d'Inverno, R. A. *see* **Collins, J. M., 93k:83014**
Isenberg, James (*with* Moncrief, Vincent) On spacetimes containing Killing vector fields with nonclosed orbits. **93g:83025**
Israel, Werner *see* **Barrabès, Claude, 93h:83013**
Jetzer, Philippe (*with* Scialom, David) Dynamical instability of the static real scalar field solutions to the Einstein-Klein-Gordon equations. (English summary) **93h:83014**
Kerr, R. P. On stationary axially-symmetric gravitational metrics of rational type. (English summary) **93m:83013**
Koikawa, Takao *see* **Azuma, Takahiro, 93j:83020**
Korkina, M. P. (*with* Orlyanskii, O. Yu.) A method for generating static spherically symmetric solutions of the equations of the general theory of relativity. (Russian. English and Ukrainian summaries) **93b:83015**
Koutras, Andreas Killing tensors from conformal Killing vectors. **93h:83015**
Leznov, A. N. *see* **Aliev, B. N., 93e:83023** *and* **93i:83024**
Li, Jian Zeng Space-times with plane-symmetric scalar waves. (English summary) **93j:83022**
Ludwig, Garry Complex coordinate transformations and the generation of twist. **93f:83020**
— Twisting type *N* vacuum metrics. **93c:83021**
MacCallum, M. A. H. (*with* Siklos, S. T. C.) Algebraically special hypersurface-homogeneous Einstein spaces in general relativity. **93f:83021**
Matos, Tonatiuh *see* **Plebański, Jerzy; et al., 93m:83014**
McIntosh, Colin B. G. *see* **Arianrhod, R., 93i:83025**
Melfo, A. (*with* Núñez, L. A.; Percoco, U.; Villalba, Víctor M.) Collineations of Gödel-type space-times. **93c:83022**
Mimoso, José P. (*with* Nascimento, Paule Crawford) Shear-free anisotropic cosmological models. (English summary) **93i:83029**
Moncrief, Vincent Exact solutions and exact properties of Einstein's equations. (*see* **93b:83002**)
— *see also* **Isenberg, James, 93g:83025**
Moniz, P. V. *see* **Bento, M. C.; et al., 93i:83026**
Mourão, J. M. *see* **Bento, M. C.; et al., 93i:83026**
Muñoz, Martín *see* **Plebański, Jerzy; et al., 93m:83014**
Nascimento, Paule Crawford *see* **Mimoso, José P., 93i:83029**
Núñez, L. A. *see* **Melfo, A.; et al., 93c:83022**
Obukhov, V. V. *see* **Bagrov, V. G.; et al.**
O'Donnell, P. J. *see* **Collinson, C. D., 93e:83025a** *and* **93e:83025b**
Orlyanskii, O. Yu. *see* **Korkina, M. P., 93b:83015**
Page, Don N. *see* **Twamley, Jason, 93j:83024**
Percoco, U. *see* **Melfo, A.; et al., 93c:83022**
Perlick, Volker Bertrand spacetimes. **93b:83016**
Plebański, Jerzy (*with* Muñoz, Martín; Matos, Tonatiuh) Some topological questions on metrics of *D* type. (English and Spanish summaries) **93m:83014**
— *see also* **Finley, J. D., III, 93f:83019**

Rebouças, M. J. (*with* Teixeira, A. F. F.) Einstein universe as a moving fluid cosmology. **93f:83022**
— (*with* Teixeira, A. F. F.) Homogeneous space-times with seven isometries. **93m:83015**
— *see also* **Santos, J.; et al., 93j:83023**
Rogava, A. D. General co-moving frames in stationary and axisymmetric metrics. **93c:83023**
Rosquist, Kjell (*with* Uggla, Claes) Killing tensors in two-dimensional space-times with applications to cosmology. **93c:83024**
— *see also* **Fišer, Kurt; et al., 93d:83018**
Rozoy, Luc New results on conjectures by Lichnerowicz and Carathéodory. **93c:83025**
Ruiz, Eduardo (*with* Senovilla, José M. M.) General class of inhomogeneous perfect-fluid solutions. **93f:83023**
Sá, P. M. *see* **Bento, M. C.; et al., 93i:83026**
Sakhapov, A. G. *see* **Bagrov, V. G.; et al.**
Santos, J. (*with* Rebouças, M. J.; Teixeira, A. F. F.) Classification of scalar fields in general relativity. (English summary) **93j:83023**
Scialom, David *see* **Jetzer, Philippe, 93h:83014**
Seixas, Wladimir Killing vectors in conformally flat perfect fluids via invariant classification. **93c:83026**
Senovilla, José M. M. New family of stationary and axisymmetric perfect-fluid solutions. (English summary) **93g:83026**
— *see also* **Ruiz, Eduardo, 93f:83023**
Siklos, S. T. C. *see* **MacCallum, M. A. H., 93f:83021**
Singh, G. P. *see* **Singh, Tarkeshwar[2], 93d:83019** *and* **Singh, Triloki, 93f:83024**
Singh, Tarkeshwar[2] (*with* Singh, G. P.) Bianchi type V and VI_0 cosmological models in Lyra geometry. **93d:83019**
Singh, Triloki (*with* Singh, G. P.) Bianchi type III and Kantowski-Sachs cosmological models in Lyra geometry. (English summary) **93f:83024**
Sklavenites, D. Stationary and static axisymmetric perfect fluid solutions. (English summary) **93g:83027**
Stoeger, William R. *see* **Whitman, Andrew P., 93m:83016**
Sumeruk, A. *see* **Ellis, George F. R.; et al., 93c:83018**
Teixeira, A. F. F. *see* **Rebouças, M. J., 93f:83022; Santos, J.; et al., 93j:83023** *and* **Rebouças, M. J., 93m:83015**
Tod, K. Paul On choosing coordinates to diagonalize the metric. **93e:83026**
Tupper, B. O. J. *see* **Coley, Alan A., 93b:83014; 93c:83016** *and* **93d:83016**
Twamley, Jason (*with* Page, Don N.) Imaginary wormholes. **93j:83024**
Uggla, Claes Inhomogeneous self-similar cosmological models. (English summary) **93j:83025**
— *see also* **Rosquist, Kjell, 93c:83024** *and* **Fišer, Kurt; et al., 93d:83018**
Van den Bergh, N. A qualitative discussion of the Wils inhomogeneous stiff fluid cosmologies. (English summary) **93j:83026**
Vaz, E. G. L. R. (*with* Collinson, C. D.) Some canonical forms for the metric of spacetimes admitting a rational first integral of the geodesic equation. **93a:83010**
— *see also* **da Costa, José Manuel N., 93m:83012**
Villalba, Víctor M. *see* **Melfo, A.; et al., 93c:83022**
Wainwright, John *see* **Coley, Alan A., 93b:83013** *and* **Hewitt, C. G., 93i:83028**
Wang, An Zhong On the interaction of bubbles with gravitational and matter fields. **93c:83027**
Whitman, Andrew P. (*with* Stoeger, William R.) The harmonic-map structure of the axially symmetric stationary Einstein equations. **93m:83016**
Williams, Jeffrey George *see* **Dunn, K. A.; et al., 93d:83017**
Xanthopoulos, Basilis C. (*with* Zannias, Thomas) Kantowski-Sachs metrics with source: a massless scalar field. **93f:83025**
— (*with* Zannias, Thomas) Kantowski-Sachs metrics with source: a conformally invariant scalar field. **93f:83026**
Yang, Yi Song The existence of a class of cosmic string solutions with infinite energy. (English summary) **93k:83016**
Zannias, Thomas *see* **Xanthopoulos, Basilis C., 93f:83025** *and* **93f:83026**

Items with secondary classifications in 83C20

Bagrov, V. G. (*with* Obukhov, V. V.; Sakhapov, A. G.) Stäckel electrovacuum spaces that admit complete separation of variables in a diagonalized Dirac equation. Type (1, 1). (Russian) **93k:83017**
Balakrishna, B. S. (*with* Wali, Kameshwar C.) Bogomol'nyĭ equations in the Einstein-Yang-Mills-Higgs system. (English summary) **93i:81298**
Balbinot, Roberto *see* **Kerner, Richard; et al., 93c:83111**
Banerjee, Shyamal Kumar *see* **Roy, S. R., 93h:83012**
Bezerra, Valdir B. (*with* dos Santos, Ivonete B.) Scalar and spinor solutions in the space-time of a domain wall. (English summary) **93g:83013**
Bokhari, Ashfaque H. Ricci tensor with six collineations. (English summary) **93k:53024**
Bonanos, S. A generalization of the Kerr-Schild ansatz. **93c:83006**
Bonnor, W. B. (*with* Davidson, W.) Interpreting the Levi-Civita vacuum metric. (English summary) **93g:83014**
Bray, Marcel Univers magnétohydrodynamiques à symétrie plane. (English summary) [Magnetohydrodynamical universes with plane symmetry] **93d:83041**
Cangemi, D. (*with* Lee, Choonkyu) Self-dual Chern-Simons solitons in (2 + 1)-dimensional Einstein gravity. (English summary) **93g:81088**
Capovilla, Riccardo (*with* Plebański, Jerzy) Some exact solutions of the Einstein field equations in terms of the self-dual spin connection. (English summary) **93j:83016**
Carminati, John (*with* McLenaghan, R. G.) Algebraic invariants of the Riemann tensor in a four-dimensional Lorentzian space. **93c:83081**
Carot, J. (*with* Mas, Luis; Rago, H.; da Costa, José Manuel N.) Affine collineations in Einstein-Maxwell space-times. (English summary) **93g:83029**
Chakraborty, Subenoy (*with* Nandy, Gopal Chandra) Cosmological studies in Bianchi II, VIII space-time. (English summary) **93i:83093**
Chruściel, Piotr T. On the global structure of Robinson-Trautman space-times. (English summary) **93g:83037**
da Costa, José Manuel N. *see* **Carot, J.; et al., 93g:83029**
Davidson, W. *see* **Bonnor, W. B., 93g:83014**
Duan, Yi Shi (*with* Zhang, Sheng Li[2]; Jiang, Li Cai) A new coordinate condition in general relativity. (English summary) **93g:83007**
Duggal, K. L. Curvature inheritance symmetry in Riemannian spaces with applications to fluid space times. (English summary) **93j:83031**
Dunn, K. A. (*with* Harriott, Tina A.; Williams, Jeffrey George) FLRW kinks. **93f:83010**
Dwivedi, I. H. *see* **Joshi, Pankaj S., 93a:83027**
Fabris, Júlio C. *see* **Kerner, Richard; et al., 93c:83111**
Feinstein, Alexander (*with* Ibañez, J.) Exact anisotropic scalar field cosmologies. (English summary) **93i:83020**
Gal'tsov, D. V. (*with* Xanthopoulos, Basilis C.) A generating technique for Einstein gravity conformally coupled to a scalar field with Higgs potential. **93b:83009**
García Díaz, Alberto (*with* Téllez, Jorge) Stationary axisymmetric charged perfect fluid type *D* solutions. **93g:83016**
Garfinkle, David Black string traveling waves. (English summary) **93j:83074**
Glass, E. N. Taub numbers at future null infinity. (English summary) **93j:83029**
Harriott, Tina A. *see* **Dunn, K. A.; et al., 93f:83010**
Helliwell, T. M. (*with* Konkowski, D. A.) Stability analysis of a nonscalar curvature singularity. (English summary) **93g:83079**
Heusler, Markus (*with* Straumann, Norbert) Scaling arguments for the existence of static, spherically symmetric solutions of self-gravitating systems. (English summary) **93g:83017**
Ibañez, J. *see* **Feinstein, Alexander, 93i:83020**
Jiang, Li Cai *see* **Duan, Yi Shi; et al., 93g:83007**
Jiang, Sheng Generalized Stephani universes. (English summary) **93g:83019**
Joshi, Pankaj S. Singularities in a new class of inhomogeneous cosmological models. **93a:83028**
— (*with* Dwivedi, I. H.) The structure of naked singularity in self-similar gravitational collapse. **93a:83027**
Kerner, Richard (*with* Balbinot, Roberto; Fabris, Júlio C.) Cosmological solutions from supersymmetric Kaluza-Klein theory. **93c:83111**
King, D. H. Gravity-wave insights to Bianchi type-IX universes. **93a:83014**
Knutsen, Henning Physical properties of an exact spherically symmetric solution with shear in general relativity. (English summary) **93k:83011**
Konkowski, D. A. *see* **Helliwell, T. M., 93g:83079**
Künzle, H. P. (*with* Masood-ul-Alam, A. K. M.) Pure Yang-Mills fields on asymptotically flat curved R^3. (English summary) **93m:53027**
Lee, Choonkyu *see* **Cangemi, D., 93g:81088**
Lewandowski, Jerzy Reduced holonomy group and Einstein equations with a cosmological constant. (English summary) **93i:83009**
Ludwig, Garry (*with* Yu, Yaozhu Brian) Type *N* twisting vacuum gravitational fields. **93b:83010**
Maartens, R. (*with* Wolfaardt, M. F.) Some exact Bianchi solutions. **93e:83016**
Manojlović, Nenad (*with* Miković, Aleksandar) Canonical analysis of the Bianchi models in the Ashtekar formulation. (English summary) **93m:83005**
Mas, Luis *see* **Carot, J.; et al., 93g:83029**
Masood-ul-Alam, A. K. M. *see* **Künzle, H. P., 93m:53027**
McIntosh, Colin B. G. Real Kasner and related complex "windmill" vacuum spacetime metrics. **93e:83018**
McLenaghan, R. G. *see* **Carminati, John, 93c:83081**
Miković, Aleksandar *see* **Manojlović, Nenad, 93m:83005**
Moncrief, Vincent Boost symmetries in spatially compact spacetimes with a cosmological constant. (English summary) **93j:83009**
Nandy, Gopal Chandra *see* **Chakraborty, Subenoy, 93i:83093**
Nurowski, Paweł (*with* Tafel, Jacek) New algebraically special solutions of the Einstein-Maxwell equations. (English summary) **93g:83033**
Obukhov, V. V. *see* **Bagrov, V. G.; et al., 93k:83017**
Papadopoulos, Athanase D. Radiative gravitational fields and gravitational waves. **93c:83039**
Plebański, Jerzy *see* **Capovilla, Riccardo, 93j:83016**
Ponce de León, J. Cosmological models that describe particle creation in the early universe and evolve into the "present-day" universe. **93d:83074**
Rácz, István Note on stationary-axisymmetric vacuum spacetimes with inside ellipsoidal symmetry. (English summary) **93h:83011**
Rago, H. *see* **Carot, J.; et al., 93g:83029**
Ram, Shri (*with* Singh, Prem) Anisotropic cosmological models of Bianchi types III and V in Lyra's geometry. (English summary) **93g:83022**
Roy, S. R. (*with* Banerjee, Shyamal Kumar) Bianchi VI cosmological models representing perfect fluid and radiation with electric-type free gravitational fields. (English summary) **93h:83012**
Sakhapov, A. G. *see* **Bagrov, V. G.; et al., 93k:83017**
dos Santos, Ivonete B. *see* **Bezerra, Valdir B., 93g:83013**
Shen, You Gen Interior solutions in static spherical symmetric higher-dimensional space-time. **93m:83078**
Singh, Prem *see* **Ram, Shri, 93g:83022**
Straumann, Norbert *see* **Heusler, Markus, 93g:83017**
Tafel, Jacek *see* **Nurowski, Paweł, 93g:83033**
Téllez, Jorge *see* **García Díaz, Alberto, 93g:83016**
Tod, K. Paul Compact 3-dimensional Einstein-Weyl structures. **93d:53058**
Wali, Kameshwar C. *see* **Balakrishna, B. S., 93i:81298**
Ward, R. S. Infinite-dimensional gauge groups and special nonlinear gravitons. **93i:58013**
Williams, Jeffrey George *see* **Dunn, K. A.; et al., 93f:83010**
Wolfaardt, M. F. *see* **Maartens, R., 93e:83016**
Wu, Ya Bo Double Bäcklund transformations and fission solutions of axisymmetric gravitational equations. **93b:83011**
Xanthopoulos, Basilis C. (*with* Zannias, Thomas) The gravity of three-forms. **93e:83022**
— *see also* **Gal'tsov, D. V., 93b:83009**
Yoon, Jaihan CP^{N-1} model as reduction of gravity theories. (English summary) **93i:81146**
Yu, Yaozhu Brian *see* **Ludwig, Garry, 93b:83010**
Zannias, Thomas *see* **Xanthopoulos, Basilis C., 93e:83022**
Zhang, Sheng Li[2] *see* **Duan, Yi Shi; et al., 93g:83007**

83C22 Electromagnetic fields, Einstein-Maxwell equations

Ali, S. Tahir *see* **Bokhari, Ashfaque H., 93i:83030**
Bagrov, V. G. (*with* Obukhov, V. V.; Sakhapov, A. G.) Stäckel electrovacuum spaces that admit complete separation of variables in a diagonalized Dirac equation. Type (1, 1). (Russian) **93k:83017**
Bokhari, Ashfaque H. (*with* Ali, S. Tahir) Solutions of Einstein-Maxwell field equations. (English summary) **93i:83030**
Carini, Paolo (*with* Feng, Long Long; Li, Miao; Ruffini, Remo) Phase evolution of the photon in Kerr spacetime. (English summary) **93g:83028**
Carot, J. (*with* Mas, Luis; Rago, H.; da Costa, José Manuel N.) Affine collineations in Einstein-Maxwell space-times. (English summary) **93g:83029**
da Costa, José Manuel N. *see* **Carot, J.; et al., 93g:83029**
Dagotto, Andrés D. (*with* Gleiser, Reinaldo J.; Nicasio, Carlos O.) Time shifts and nonlinear interference in cylindrically symmetric Einstein-Maxwell solitons. (English summary) **93m:83017**
Denisova, T. E. (*with* Man'ko, V. S.) Exact solution of the Einstein-Maxwell equations referring to a charged spinning mass. **93i:83031**
Feng, Long Long *see* **Carini, Paolo; et al., 93g:83028**
Gleiser, Reinaldo J. *see* **Dagotto, Andrés D.; et al., 93m:83017**
Hammon, Kevin S. Biframe bundle geometry and an extension of RMW theory: application to a charged perfect fluid. **93c:83028**
Helmi, A. M. *see* **Singh, Tarkeshwar[2]; et al., 93m:83019**
Kalnins, E. G. (*with* McLenaghan, R. G.; Williams, Graeme C.) Symmetry operators for Maxwell's equations on curved space-time. **93c:83029**
Levichev, A. V. A time machine in the MTT-universe. (Russian) **93d:83020**
Li, Miao *see* **Carini, Paolo; et al., 93g:83028**
Lukács, Béla On the Bonnor counterparts of the Tomimatsu-Sato solutions. (English summary) **93g:83030**
Man'ko, V. S. (*with* Sibgatullin, N. R.) Kerr metric endowed with magnetic dipole moment. (English summary) **93h:83016**
— (*with* Sibgatullin, N. R.) Metric of a rotating, charged, magnetised mass. (English summary) **93g:83031**
— (*with* Sibgatullin, N. R.) Exact solution of the Einstein-Maxwell equations for the exterior gravitational field of a magnetized rotating mass. (English summary) **93m:83018**
— *see also* **Denisova, T. E., 93i:83031**
Mas, Luis *see* **Carot, J.; et al., 93g:83029**
McLenaghan, R. G. *see* **Kalnins, E. G.; et al., 93c:83029**
Melfo, A. (*with* Rago, H.) Conformally flat solutions to the Einstein-Maxwell equations. (English summary) **93g:83032**
Nicasio, Carlos O. *see* **Dagotto, Andrés D.; et al., 93m:83017**
Nurowski, Paweł (*with* Tafel, Jacek) New algebraically special solutions of the Einstein-Maxwell equations. (English summary) **93g:83033**
— Some null solutions of the Yang-Mills equations and Cauchy-Riemann structures. **93c:83030**
Obukhov, V. V. *see* **Bagrov, V. G.; et al., 93k:83017**
Patel, L. K. *see* **Tikekar, Ramesh, 93k:83018**
Pokhariyal, G. P. Structures on electromagnetic tensor fields. **93d:83021**
Rago, H. *see* **Carot, J.; et al., 93g:83029** *and* **Melfo, A., 93g:83032**
Romans, L. J. Supersymmetric, cold and lukewarm black holes in cosmological Einstein-Maxwell theory. (English summary) **93j:83027**
Ruffini, Remo *see* **Carini, Paolo; et al., 93g:83028**
Sakhapov, A. G. *see* **Bagrov, V. G.; et al., 93k:83017**
Sibgatullin, N. R. *see* **Man'ko, V. S., 93g:83031; 93h:83016** *and* **93m:83018**
Singh, G. P. *see* **Singh, Tarkeshwar[2]; et al., 93m:83019**
Singh, Tarkeshwar[2] (*with* Singh, G. P.; Helmi, A. M.) Solutions of Einstein's field equations for charged static fluid spheres. (English summary) **93m:83019**
Srivastava, D. C. Exact solutions for shear-free motion of spherically symmetric charged perfect fluid distributions in general relativity. **93e:83027**
Srivastava, Y. (*with* Widom, A.) Gravitational diamagnetism. **93b:83017**
Tafel, Jacek *see* **Nurowski, Paweł, 93g:83033**
Takasaki, Kanehisa Volume-preserving diffeomorphisms in integrable deformations of self-dual gravity. **93f:83027**
Tikekar, Ramesh (*with* Patel, L. K.) A charged analog of Schwarzschild interior metric. (English summary) **93k:83018**
Treder, Hans-Jürgen Already unified field theory with noncovariant geometrization. **93g:83034**
Wang, An Zhong Planar domain walls coupled with pure radiation fields. (English summary) **93h:83017**
Widom, A. *see* **Srivastava, Y., 93b:83017**
Williams, Graeme C. *see* **Kalnins, E. G.; et al., 93c:83029**
Williams, Jeffrey George Rotating charged fluid in 2 + 1 dimensions. (English summary) **93f:83028**

Items with secondary classifications in 83C22

Aherkar, S. M. *see* **Asgekar, G. G., 93e:83024**
Asgekar, G. G. (*with* Aherkar, S. M.) Relativistic static spheres filled with infinitely conducting charged fluids. **93e:83024**
Borgohain, P. *see* **Krori, K. D.; et al., 93j:83071**
von Borzeszkowski, Horst-Heino (*with* Roy, Sisir) Jordan-Fock type uncertainty relations and cut-off lengths in quantum general relativity. (English summary) **93h:83022**
Chaudhury, Tarakeswar *see* **Krori, K. D.; et al., 93j:83071**
Das, Kanika *see* **Krori, K. D.; et al., 93j:83071**
Krori, K. D. (*with* Chaudhury, Tarakeswar; Borgohain, P.; Das, Kanika; Mahanta, Chandra Rekha) Charged solutions in higher dimensions. (English and French summaries) **93j:83071**
Levichev, A. V. Three totally vicious homogeneous Lorentzian spaces. **93f:53058**
Mahanta, Chandra Rekha *see* **Krori, K. D.; et al., 93j:83071**
Man'ko, V. S. (*with* Sibgatullin, N. R.) Kerr-Newman metric endowed with magnetic dipole moment. (English summary) **93k:83013**
Masood-ul-Alam, A. K. M. Uniqueness proof of static charged black holes revisited. **93f:83059**
McLenaghan, R. G. Separation of variables and constants of motion for relativistic wave equations on curved space-time. (*see* **93b:83003**)
Park, Q-Han 4-D self-dual instantons from 2-D sigma model. (English summary) **93i:81248**
Quevedo, Hernando Complex transformations of the curvature tensor. **93e:83019**
Roy, Sisir *see* **von Borzeszkowski, Horst-Heino, 93h:83022**
Sibgatullin, N. R. *see* **Man'ko, V. S., 93k:83013**

83C25 Approximation procedures, weak fields

Damour, Thibault Radiative spacetimes and approximation methods. (*see* **93b:83002**)
Denisov, M. I. *see* **Denisov, V. I., 93k:83019**
Denisov, V. I. (*with* Denisov, M. I.) Generalization of post-Newtonian formalism. (Russian. English and Russian summaries) **93k:83019**
Gal'tsov, D. V. (*with* Matyukhin, A. A.) Matrix WKB method for black hole normal modes and quasibound states. (English summary) **93i:83032**
Gambí, J. M. *see* **Vicente Ruiz, Francisco; et al., 93b:83018**
Hughes, Shane J. (*with* McManus, Des J.; Vandyck, Michel A.) Weak-field gravity of circular cosmic strings. (English summary) **93h:83018**
Lottermoser, M. A convergent post-Newtonian approximation for the constraint equations in general relativity. (English and French summaries) **93i:83033**
Magueijo, J. C. R. Local gauge-invariant cosmological perturbations. (English summary) **93f:83029**
Matyukhin, A. A. *see* **Gal'tsov, D. V., 93i:83032**
McManus, Des J. *see* **Hughes, Shane J.; et al., 93h:83018**
Moeckel, Richard A nonintegrable model in general relativity. (English summary) **93m:83020**
San Miguel, A. *see* **Vicente Ruiz, Francisco; et al., 93b:83018**
Schön, Martin Nonmetrical description of cosmological perturbations. (English summary) **93f:83030**
Vandyck, Michel A. *see* **Hughes, Shane J.; et al., 93h:83018**
Vicente Ruiz, Francisco (*with* San Miguel, A.; Gambí, J. M.) Doppler effect in weak gravitational fields. (Spanish. English summary) **93b:83018**

Items with secondary classifications in 83C25

Barrow, John D. (*with* Saich, Paul) Gravitational collapse of rotating pancakes. (English summary) **93j:83051**
Brandenberger, Robert H. *see* **Mukhanov, V. F.; et al., 93d:83073**
Bruni, Marco Stability of open universes. (English summary) **93j:83080**
Burnett, Gregory A. Linear-order stability of the gravitational plane-wave Cauchy horizons. (English summary) **93g:83038**
Damour, Thibault (*with* Esposito-Farese, Gilles) Tensor-multi-scalar theories of gravitation. (English summary) **93f:83070**
— (*with* Soffel, Michael; Xu, Chong Ming) General-relativistic celestial mechanics. II. Translational equations of motion. **93b:83006**
Esposito-Farese, Gilles *see* **Damour, Thibault, 93f:83070**
Feldman, Hume A. *see* **Mukhanov, V. F.; et al., 93d:83073**
(Guinn, J. W.) *see* **Leaver, Edward W., 93g:83066**
Herrera, L. (*with* Man'ko, V. S.) Stationary solution of the Einstein equations possessing zero total angular momentum. **93d:83011**
Kasai, Masumi Inhomogeneous cosmological models which are homogeneous and isotropic on average. (English summary) **93m:83084**
Kelly, P. F. Erratum: "Expansions of nonsymmetric gravitational theories about a GR background" [Classical Quantum Gravity **8** (1991), no. 6, 1217–1229; MR 92b:83086]. **93g:83088**
(Kojima, Yasufumi) *see* **Leaver, Edward W., 93g:83066**
Léauté, B. *see* **Pons, Roland; et al., 93g:83070**
Leaver, Edward W. Comment on: "High-overtone normal modes of Schwarzschild black holes" [Classical Quantum Gravity **7** (1990), no. 2, L47–L53; MR 90m:83034] by J. W. Guinn, C. M. Will, Y. Kojima and B. F. Schutz. **93g:83066**
Liu, Jun[1] The action of harmonic condition on the study of gravitational waves. (English summary) **93h:83020**
Man'ko, V. S. *see* **Herrera, L., 93d:83011**
Marcilhacy, G. *see* **Pons, Roland; et al., 93g:83070**
Modanese, Giovanni On the motion of test particles in a fluctuating gravitational field. (English summary) **93h:83010**
Mukhanov, V. F. (*with* Feldman, Hume A.; Brandenberger, Robert H.) Theory of cosmological perturbations. **93d:83073**
Petry, Walter Post-Newtonian approximation of gravitation theory in flat space-time. **93b:83058**
Pons, Roland (*with* Léauté, B.; Marcilhacy, G.) Transformations between two normal differential equations. Application to the Bessel functions. **93g:83070**
Saich, Paul *see* **Barrow, John D., 93j:83051**
(Schutz, B. F.) *see* **Leaver, Edward W., 93g:83066**
Semiz, İbrahim Dirac equation is separable on the dyon black hole metric. (English summary) **93i:83064**
Smolin, Lee The $G_{\text{Newton}} \to 0$ limit of Euclidean quantum gravity. **93c:83059**
Soffel, Michael *see* **Damour, Thibault; et al., 93b:83006**
(Will, Clifford M.) *see* **Leaver, Edward W., 93g:83066**
Xu, Chong Ming *see* **Damour, Thibault; et al., 93b:83006**

83C27 Lattice gravity, Regge calculus and other discrete methods

Agishtein, M. E. (*with* Migdal, A. A.) Critical behavior of dynamically triangulated quantum gravity in four dimensions. (English summary) **93i:83034**
Ambjørn, Jan (*with* Varsted, Steen) Three-dimensional simplicial quantum gravity. **93h:83019**

— (*with* Jurkiewicz, Jerzy Władysław) Four-dimensional simplicial quantum gravity. **93i:83035**

Brügmann, Bernd Nonuniform measure in four-dimensional simplicial quantum gravity. (English summary) **93m:83021**

— (*with* Marinari, Enzo) 4D simplicial quantum gravity with a nontrivial measure. (English summary) **93k:83020**

Carfora, M. (*with* Marzuoli, A.) Bounded geometries and topology fluctuations in lattice quantum gravity. **93g:83035**

Gross, Mark (*with* Hamber, Herbert W.) Critical properties of two-dimensional simplicial quantum gravity. **93a:83011**

— Higher-dimensional simplicial quantum gravity. **93c:83031**

Hamber, Herbert W. Critical behavior in simplicial quantum gravity. **93c:83032**

— (*with* Williams, Ruth M.) Simplicial quantum gravity in three dimensions: analytical and numerical results. (English summary) **93j:83028**

— *see also* **Gross, Mark**, **93a:83011**

't Hooft, Gerard Causality in (2 + 1)-dimensional gravity. **93f:83031**

Jurkiewicz, Jerzy Władysław *see* **Ambjørn, Jan**, **93i:83035**

Louko, Jorma (*with* Tuckey, Philip A.) Regge calculus in anisotropic quantum cosmology. **93c:83033**

Marinari, Enzo *see* **Brügmann, Bernd**, **93k:83020**

Marzuoli, A. *see* **Carfora, M.**, **93g:83035**

Migdal, A. A. *see* **Agishtein, M. E.**, **93i:83034**

Mizoguchi, Shun'ya (*with* Tada, Tsukasa) Three-dimensional gravity from the Turaev-Viro invariant. **93a:83012**

Sasakura, Naoki Tensor model for gravity and orientability of manifold. **93b:83019**

Tada, Tsukasa *see* **Mizoguchi, Shun'ya**, **93a:83012**

Tuckey, Philip A. *see* **Louko, Jorma**, **93c:83033** *and* **Williams, Ruth M.**, **93c:83034**

Varsted, Steen *see* **Ambjørn, Jan**, **93h:83019**

Williams, Ruth M. (*with* Tuckey, Philip A.) Regge calculus: a brief review and bibliography. **93c:83034**

— Discrete quantum gravity: the Regge calculus approach. (English summary) **93g:83036**

— *see also* **Hamber, Herbert W.**, **93j:83028**

Items with secondary classifications in 83C27

Baillie, C. F. (*with* Johnston, Desmond Alexander) Strong self-avoidance and crumpling in random surfaces with extrinsic curvature. **93a:81143**

Catterall, Simon M. *see* **Renken, Ray L.; et al.**, **93j:83043**

Johnston, Desmond Alexander *see* **Baillie, C. F.**, **93a:81143**

Kogut, John B. *see* **Renken, Ray L.; et al.**, **93j:83043**

Renken, Ray L. (*with* Catterall, Simon M.; Kogut, John B.) Three-dimensional quantum gravity coupled to Ising matter. (English summary) **93j:83043**

83C30 Asymptotic procedures (radiation, news functions, $\mathscr{I}$ spaces, etc.)

Ashtekar, Abhay (*with* Romano, Joseph D.) Spatial infinity as a boundary of spacetime. **93c:83035**

Burdet, G. (*with* Perrin, Martine Jacqueline) Gravitational waves without gravitons. (English summary) **93f:83032**

Chruściel, Piotr T. On the global structure of Robinson-Trautman space-times. (English summary) **93g:83037**

Ferrando, Joan Josep (*with* Morales, Juan Antonio; Portilla, Miquel) Inhomogeneous space-times admitting isotropic radiation: vorticity-free case. **93e:83028**

Frauendiener, Jörg Note on the memory effect. **93d:83022**

Friedrich, Helmut Asymptotic structure of space-time. **93c:83036**

Glass, E. N. Taub numbers at future null infinity. (English summary) **93j:83029**

Gómez, R. (*with* Winicour, J.) Asymptotics of gravitational collapse of scalar waves. **93d:83023**

Herberthson, Magnus (*with* Ludvigsen, Malcolm) A relationship between future and past null infinity. (English summary) **93i:83036**

Iyer, Savitri V. *see* **Kozameh, Carlos N.; et al.**, **93e:83029**

Kozameh, Carlos N. (*with* Newman, Ezra T.; Iyer, Savitri V.) Nonlocal equations for general relativity. **93e:83029**

Kundu, Prasun K. *see* **Price, Richard H.; et al.**, **93m:83023**

Lau, Y. K. (*with* Newman, Richard P. A. C.) The structure of null infinity for stationary simple spacetimes. (English summary) **93m:83022**

Ludvigsen, Malcolm *see* **Herberthson, Magnus**, **93i:83036**

McCarthy, Patrick J. Real and complex asymptotic symmetries in quantum gravity, irreducible representations, polygons, polyhedra, and the *A*, *D*, *E* series. **93d:83024**

— Classical actions for forty-two asymptotic symmetry groups of four-dimensional space-times. (English summary) **93j:83030**

Morales, Juan Antonio *see* **Ferrando, Joan Josep; et al.**, **93e:83028**

Newman, Ezra T. *see* **Kozameh, Carlos N.; et al.**, **93e:83029**

Newman, Richard P. A. C. *see* **Lau, Y. K.**, **93m:83022**

Pacher, Tibor (*with* Stein-Schabes, Jaime A.) On the locality of the no hair conjecture and the measure of the universe. (German summary) **93d:83025**

Perrin, Martine Jacqueline *see* **Burdet, G.**, **93f:83032**

Portilla, Miquel *see* **Ferrando, Joan Josep; et al.**, **93e:83028**

Price, Richard H. (*with* Pullin, Jorge; Kundu, Prasun K.) Escape of gravitational radiation from the field of massive bodies. (English summary) **93m:83023**

Pullin, Jorge *see* **Price, Richard H.; et al.**, **93m:83023**

Romano, Joseph D. *see* **Ashtekar, Abhay**, **93c:83035**

Schmidt, B. G. Asymptotia, singularities, and global structure. (*see* **93b:83002**)

Sorkin, R. D. (*with* Woolgar, E.) New demonstration of the positivity of mass. **93c:83037**

Stein-Schabes, Jaime A. *see* **Pacher, Tibor**, **93d:83025**

Tod, K. Paul The Stützfunktion and the cut function. **93a:83013**

Winicour, J. *see* **Gómez, R.**, **93d:83023**

Woolgar, E. *see* **Sorkin, R. D.**, **93c:83037**

Items with secondary classifications in 83C30

Banerjee, Shyamal Kumar *see* **Roy, S. R.**, **93h:83012**

Bergqvist, Göran Positivity and definitions of mass. (English summary) **93k:83022**

Blackburn, James Kent (*with* Detweiler, Steven) Close black-hole binary systems. (English summary) **93e:83043**

Castro, Carlos SU(∞) (super)gauge theories and self-dual (super)gravity. (English summary) **93j:53034**

D'Eath, P. D. (*with* Payne, P. N.) Gravitational radiation in black-hole collisions at the speed of light. I. Perturbation treatment of the axisymmetric collision. **93j:83053**

— (*with* Payne, P. N.) Gravitational radiation in black-hole collisions at the speed of light. II. Reduction to two independent variables and calculation of the second-order news function. **93j:83054**

— (*with* Payne, P. N.) Gravitational radiation in black-hole collisions at the speed of light. III. Results and conclusions. **93j:83055**

Detweiler, Steven *see* **Blackburn, James Kent**, **93e:83043**

Dougan, Andrew J. Quasi-local mass for spheres. (English summary) **93j:83059**

Esposito, Giampiero Mathematical structures of space-time. **93i:83003**

Frittelli, Simonetta (*with* Moreschi, Osvaldo M.) Study of the Robinson-Trautman metrics in the asymptotic future. **93f:83011**

Moreschi, Osvaldo M. *see* **Frittelli, Simonetta**, **93f:83011**

Payne, P. N. *see* **D'Eath, P. D.**, **93j:83053**; **93j:83054** *and* **93j:83055**

Roy, S. R. (*with* Banerjee, Shyamal Kumar) Bianchi VI cosmological models representing perfect fluid and radiation with electric-type free gravitational fields. (English summary) **93h:83012**

Saririan, Kamran Asymptotically covariantly constant spinor hair on black holes. (English summary) **93g:83071**

Shanahan, Hugh *see* **Vandyck, Michel A.**, **93e:83055**; **93e:83056a** *and* **93e:83056b**

Stewart, John Malcolm ★ Advanced general relativity. **93e:83002**

Vandyck, Michel A. (*with* Shanahan, Hugh) On a multipole expansion for instantons. I. **93e:83055**

— (*with* Shanahan, Hugh) On a multipole expansion for instantons. II. $S^1 \times \mathbf{R}^3$ instantons. **93e:83056a**

— (*with* Shanahan, Hugh) Erratum: "On a multipole expansion for instantons. II. $S^1 \times \mathbf{R}^3$ instantons". **93e:83056b**

Wang, An Zhong Planar domain walls coupled with pure radiation fields. (English summary) **93h:83017**

83C35 Gravitational waves

Burnett, Gregory A. Linear-order stability of the gravitational plane-wave Cauchy horizons. (English summary) **93g:83038**

Ciubotariu, Corneliu D. Linear interaction of gravitational waves. (English summary) **93f:83033**

Ferrari, Valeria Colliding waves in general relativity. (*see* **93b:83002**)

Gerlach, Ulrich H. Cavity quantum-electrodynamical response to a gravitational wave. (English summary) **93i:83037**

Hogan, P. A. A spherical gravitational wave in the de Sitter universe. (English summary) **93i:83038**

— A spherical impulse gravity wave. (English summary) **93k:83021**

Hortaçsu, M. Fluctuations of a spherical gravitational impulsive wave. (English summary) **93m:83024**

King, D. H. Gravity-wave insights to Bianchi type-IX universes. **93a:83014**

Letelier, Patricio S. On the interaction of cosmic strings with gravitational waves. **93c:83038**

Liu, Jun[1] The action of harmonic condition on the study of gravitational waves. (English summary) **93h:83020**

Lobo, José Alberto Effect of a weak plane GW on a light beam. **93b:83020**

Papadopoulos, Athanase D. Radiative gravitational fields and gravitational waves. **93c:83039**

Qadir, Asghar (*with* Sharif, M.) General formula for the momentum imparted to test particles in arbitrary spacetimes. **93d:83026**

Sharif, M. *see* **Qadir, Asghar**, **93d:83026**

Items with secondary classifications in 83C35

Burdet, G. (*with* Perrin, Martine Jacqueline) Gravitational waves without gravitons. (English summary) **93f:83032**

Cooperstock, F. I. Energy localization in general relativity: a new hypothesis. (English summary) **93i:83039**

Cornish, N. J. (*with* Moffat, J. W.; Tatarski, D. C.) Gravitational waves in the nonsymmetric gravitational theory. (English summary) **93k:83061**

D'Eath, P. D. (*with* Payne, P. N.) Gravitational radiation in black-hole collisions at the speed of light. I. Perturbation treatment of the axisymmetric collision. **93j:83053**

— (*with* Payne, P. N.) Gravitational radiation in black-hole collisions at the speed of light. II. Reduction to two independent variables and calculation of the second-order news function. **93j:83054**

— (*with* Payne, P. N.) Gravitational radiation in black-hole collisions at the speed of light. III. Results and conclusions. **93j:83055**

Ferrari, Valeria (*with* Martellini, Maurizio) Scattering of massless particles and spacetime shifts. (English summary) **93j:83012**

Gasperini, M. (*with* Giovannini, M.) Gravity waves from primordial dimensional reduction. (English summary) **93f:83086**

Giovannini, M. *see* **Gasperini, M.**, **93f:83086**

Hortaçsu, M. Quantum fluctuations of a spherical gravitational shock wave. **93d:83039**

Kundu, Prasun K. *see* **Price, Richard H.; et al.**, **93m:83023**

Martellini, Maurizio *see* **Ferrari, Valeria**, **93j:83012**

Moffat, J. W. *see* **Cornish, N. J.; et al.**, **93k:83061**

Payne, P. N. *see* **D'Eath, P. D.**, **93j:83053**; **93j:83054** *and* **93j:83055**

Perrin, Martine Jacqueline *see* **Burdet, G.**, **93f:83032**

Price, Richard H. (*with* Pullin, Jorge; Kundu, Prasun K.) Escape of gravitational radiation from the field of massive bodies. (English summary) **93m:83023**

Pullin, Jorge *see* **Price, Richard H.; et al., 93m:83023**
Rosen, Nathan (*with* Virbhadra, K. S.) Energy and momentum of cylindrical gravitational waves. (English summary) **93m:83025**
Sánchez, Norma *see* **de Vega, H. J., 93b:83061**
Tatarski, D. C. *see* **Cornish, N. J.; et al., 93k:83061**
de Vega, H. J. (*with* Sánchez, Norma) Mass and energy-momentum tensor of quantum strings in gravitational shock-waves. **93b:83061**
Virbhadra, K. S. *see* **Rosen, Nathan, 93m:83025**
Wang, An Zhong Plane walls interacting with gravitational waves and matter fields. **93b:83039**
Zeni, M. Massive spin-2 state in string with constant profile pp wave background. (English summary) **93i:83091**

83C40 Gravitational energy and conservation laws; groups of motions

Benn, I. M. (*with* Wood, W. P.) Dilation currents. **93e:83030**
Bergqvist, Göran Quasilocal mass for event horizons. **93c:83040**
— Positivity and definitions of mass. (English summary) **93k:83022**
Brown, J. David (*with* York, James W., Jr.) Quasilocal energy in general relativity. (English summary) (*see* **93d:58006**)
Cooperstock, F. I. (*with* Richardson, S. A.) Energy localization and the Kerr-Newman metric. **93g:83039**
— Energy localization in general relativity: a new hypothesis. (English summary) **93i:83039**
— *see also* **Rosen, Nathan, 93j:83033**
Covarrubias, G. M. Lie groups in cosmology. **93c:83041**
Duggal, K. L. Ricci inheritance symmetry in fluid spacetimes. **93e:83031**
— Curvature inheritance symmetry in Riemannian spaces with applications to fluid space times. (English summary) **93j:83031**
Farber, V. Sh. Gravitational field energy and the symmetry group of the general theory of relativity. (Russian. English and Azerbaijani summaries) **93g:83040**
Ferraris, Marco (*with* Francaviglia, Mauro) Conservation laws in general relativity. **93b:83021**
Fleming, Henrique (*with* Resek, E. O.) Conservation laws for fermions in spaces with torsion. (English summary) **93d:83027**
Francaviglia, Mauro *see* **Ferraris, Marco, 93b:83021**
Guzmán Sánchez, A. R. (*with* Plebański, Jerzy; Przanowski, M.) Deformations of algebraic types of the energy-momentum tensor. **93c:83042**
Hall, G. S. (*with* Hossack, A. D.; Pulham, J. R.) Sectional curvature, symmetries, and conformally flat plane waves. **93i:83040**
Hecht, R. D. (*with* Hehl, Friedrich W.; McCrea, J. Dermott; Mielke, Eckehard W.; Ne'eman, Yuval) Improved energy-momentum currents in metric-affine spacetime. (English summary) **93k:83023**
Hehl, Friedrich W. *see* **Hecht, R. D.; et al., 93k:83023**
Hossack, A. D. *see* **Hall, G. S.; et al., 93i:83040**
Leibowitz, Elhanan *see* **Nissani, Noah, 93j:83032**
McCrea, J. Dermott *see* **Hecht, R. D.; et al., 93k:83023**
McLenaghan, R. G. Separation of variables and constants of motion for relativistic wave equations on curved space-time. (*see* **93b:83003**)
Mielke, Eckehard W. *see* **Hecht, R. D.; et al., 93k:83023**
Ne'eman, Yuval *see* **Hecht, R. D.; et al., 93k:83023**
Nissani, Noah (*with* Leibowitz, Elhanan) Experimental facts and gravitational energy in general relativity. (English summary) **93j:83032**
Plebański, Jerzy *see* **Guzmán Sánchez, A. R.; et al., 93c:83042**
Przanowski, M. *see* **Guzmán Sánchez, A. R.; et al., 93c:83042**
Pulham, J. R. *see* **Hall, G. S.; et al., 93i:83040**
Rácz, István (*with* Wald, Robert M.) Extensions of spacetimes with Killing horizons. (English summary) **93k:83024**
Resek, E. O. *see* **Fleming, Henrique, 93d:83027**
Richardson, S. A. *see* **Cooperstock, F. I., 93g:83039**
Rosen, Nathan (*with* Cooperstock, F. I.) The mass of a body in general relativity. (English summary) **93j:83033**
— (*with* Virbhadra, K. S.) Energy and momentum of cylindrical gravitational waves. (English summary) **93m:83025**
Sokolov, V. V. Nonlinear gravidynamics: energy-momentum tensor of collapsar field. (English summary) **93i:83041**
Swift, S. Timothy Null limits of the Maxwell-Sen-Witten equation. **93m:83026**
Szabados, L. B. On canonical pseudotensors, Sparling's form and Noether currents. (English summary) **93j:83034**
Virbhadra, K. S. *see* **Rosen, Nathan, 93m:83025**
Wald, Robert M. *see* **Rácz, István, 93k:83024**
Wood, W. P. *see* **Benn, I. M., 93e:83030**
York, James W., Jr. *see* **Brown, J. David, (93d:58006)**

Items with secondary classifications in 83C40

Aliev, B. N. (*with* Leznov, A. N.) Einstein's vacuum fields with nonabelian group of motion G_2 II. **93i:83024**
Coley, Alan A. (*with* Tupper, B. O. J.) Fluid spacetimes admitting covariantly constant vectors and tensors. **93c:83016**
Dougan, Andrew J. Quasi-local mass for spheres. (English summary) **93j:83059**
Leznov, A. N. *see* **Aliev, B. N., 93i:83024**
MacCallum, M. A. H. (*with* Siklos, S. T. C.) Algebraically special hypersurface-homogeneous Einstein spaces in general relativity. **93f:83021**
McCarthy, Patrick J. Classical actions for forty-two asymptotic symmetry groups of four-dimensional space-times. (English summary) **93j:83030**
Moncrief, Vincent Boost symmetries in spatially compact spacetimes with a cosmological constant. (English summary) **93j:83009**
Siklos, S. T. C. *see* **MacCallum, M. A. H., 93f:83021**
Tupper, B. O. J. *see* **Coley, Alan A., 93c:83016**

83C45 Quantization of the gravitational field

Abe, Mitsuo (*with* Nakanishi, Noboru) Wightman functions in covariant operator formalism of two-dimensional quantum gravity. **93a:83015**
— (*with* Nakanishi, Noboru) Wightman functions in covariant operator formalism of two-dimensional quantum gravity. II. Composite fields. **93e:83032**
— (*with* Nakanishi, Noboru) Wightman functions in covariant operator formalism of two-dimensional quantum gravity. III. New definition. **93e:83033**
Abe, Sumiyoshi Fluctuations around the Wheeler-DeWitt trajectories in third-quantized cosmology. (English summary) **93j:83035**
Adler, Stephen L. Effective action model for the cosmological constant revisited. (English summary) (*see* **93j:83004**)
Allen, Bruce (*with* McLaughlin, John G.; Ottewill, Adrian C.) Photon and graviton Green's functions on cosmic string space-times. **93c:83043**
— (*with* McLaughlin, John G.; Ottewill, Adrian C.) Examples of the Vilkovisky-DeWitt effective action in one-loop quantum gravity. **93f:83034**
Alty, L. J. (*with* D'Eath, P. D.; Dowker, H. F.) Quantum wormhole states and local supersymmetry. (English summary) **93g:83041**
Anada, Hajime *see* **Kitazoe, Tetsuro; et al.**
Anderson, Arlen *see* **Schleich, Kristin, 93c:83056**
Anglin, J. R. (*with* Myers, Robert C.) Wormholes and supersymmetry. (English summary) **93k:83025**
Anselmi, Damiano Functional integration measure in quantum gravity. **93c:83044**
Aragone, C. Theories of quantum gravity. I. Superstring theory. (*see* **93b:83002**)
Ashtekar, Abhay Self-duality, quantum gravity, Wilson loops and all that. (*see* **93b:83002**)
— Loops, gauge fields and gravity. (*see* **93b:83003**)
— (*with* Rovelli, Carlo) A loop representation for the quantum Maxwell field. **93h:83021**
— (*with* Isham, Chris J.) Representations of the holonomy algebras of gravity and nonabelian gauge theories. **93i:83042**
— (*with* Rovelli, Carlo; Smolin, Lee) Weaving a classical metric with quantum threads. **93c:83045**
Aurilia, Antonio (*with* Smailagic, A.; Spallucci, Euro) Membrane pregeometry and the vanishing of the cosmological constant. (English summary) **93g:83042**
Barvinskiĭ, A. O. (*with* Kamenshchik, A. Yu.) One-loop quantum cosmology: the general semiclassical solution of the Wheeler-DeWitt equations and its applications. **93c:83046**
— Euclidean quantum gravity versus Lorentzian theory: applications to the inflationary cosmology. (*see* **93h:81003**)
— (*with* Kamenshchik, A. Yu.; Karmazin, I. P.) One-loop quantum cosmology: ζ-function technique for the Hartle-Hawking wave function of the Universe. (English summary) **93k:83026**
— (*with* Kamenshchik, A. Yu.; Karmazin, I. P.; Mishakov, I. V.) 1-loop quantum cosmology: the contributions of matter fields to the wavefunctions of the Universe. **93d:83028**
Benítez, J. (*with* Obregón, O.; Socorro, J.) Supersymmetric Taub model, the micro-superspace sector. (English summary) **93g:83043**
— *see also* **Obregón, O.; et al., 93m:83037**
Berezin, V. A. (*with* Kuz'min, V. A.; Tkachev, I. I.) O(3)-invariant tunneling at false vacuum decay in general relativity. (*see* **93b:83004**)
Bonacina, Giuseppe (*with* Gamba, Andrea; Martellini, Maurizio) Interacting Euclidean three-dimensional quantum gravity. **93f:83035**
von Borzeszkowski, Horst-Heino Uncertainty and equivalence principles in quantum general relativity. **93d:83029**
— Cut-off lengths and uncertainty relations in quantum general relativity. **93f:83036**
— (*with* Roy, Sisir) Jordan-Fock type uncertainty relations and cut-off lengths in quantum general relativity. (English summary) **93h:83022**
Boström, Ola Degeneracy in loop variables; some further results. (English summary) **93i:83048**
Bowick, Mark J. (*with* Marinari, Enzo) Quantum gravity, random geometry and critical phenomena. (English summary) **93i:83043**
Brandenberger, Robert H. (*with* Laflamme, Raymond; Mijić, Milan) On the origin of classical density perturbations in the inflationary universe. (*see* **93b:83004**)
Brovkin, L. Yu. Separation of the gauge-group volume, and the one-loop functional integral in quantum gravity. (Russian)
Brügmann, Bernd (*with* Gambini, Rodolfo; Pullin, Jorge) How the Jones polynomial gives rise to physical states of quantum general relativity. (English summary) **93m:83027**
Bukhbinder, I. L. (*with* Odintsov, S. D.; Shapiro, I. L.) ★ Effective action in quantum gravity. **93i:83044**
— (*with* Odintsov, S. D.; Fonarev, O. A.) Two-loop approach to the effective action in quantum gravity. **93d:83030**
Carlip, S. Entropy versus action in the $(2+1)$-dimensional Hartle-Hawking wave function. (English summary) **93k:83027**
Carmeli, M. (*with* Malin, Shimon) A new approach to quantum gravity. (English summary) **93k:83028**
Casher, A. (*with* Englert, F.) Entropy generation in quantum gravity. (English summary) **93g:83044**
Castagnino, Mario A. (*with* Gunzig, Edgard; Nardone, Pascal) On quantum gravity for homogeneous pure radiation universes. (*see* **93d:83003**)
— (*with* Gunzig, Edgard; Nardone, Pascal) The problem of the wave function of the Universe in the radiation dominated case. **93i:83045**
Catterall, Simon M. *see* **Renken, Ray L.; et al., 93j:83043**
Chakraborty, Subenoy Higher-order gravity in an $\mathbf{R}^1 \times S^1 \times S^2$ space-time. **93a:83016**
Chamseddine, A. H. Topological gravity and supergravity. **93e:83034**
Chapline, George Quantum model for space-time. **93g:83045**
Cho, Y. M. (*with* Park, D. H.) Cosmic anyons with causality. (English summary) (*see* **93f:81006**)
Choudhury, A. L. Wormholes created by a scalar field interacting with the gravitational axion. (English summary) **93j:83036**
Christodoulakis, T. (*with* Korfiatis, E.) Quantum mechanics of the general spatially homogeneous geometry coupled to a scalar field. **93i:83046**
(Coleman, Sidney) *see* **Quantum cosmology and baby universes, 93h:83024**
Conradi, Heinz-Dieter Initial state in quantum cosmology. **93c:83047**

Cooper, Adrian (*with* Susskind, Leonard; Thorlacius, Lárus) Two-dimensional quantum cosmology. **93c:83048**
D'Eath, P. D. (*with* Dowker, H. F.; Hughes, D. I.) Supersymmetric quantum wormhole states. **93c:83049**
— (*with* Hughes, D. I.) Mini-superspace with local supersymmetry. **93m:83028**
— (*with* Hawking, Stephen W.; Obregón, O.) Supersymmetric Bianchi models and the square root of the Wheeler-DeWitt equation. (English summary) **93k:83029**
— *see also* **Alty, L. J.; et al., 93g:83041**
Dowker, H. F. *see* **D'Eath, P. D.; et al., 93c:83049** *and* **Alty, L. J.; et al., 93g:83041**
Elizalde, E. (*with* Odintsov, S. D.) Renormalization of 2D quantum gravity with matter in connection with black holes. (Russian) **93f:83037**
Englert, F. *see* **Casher, A., 93g:83044**
Florenzini, Roberto (*with* Percacci, R.) Mean-field quantum gravity. (English summary) **93f:83038**
Fonarev, O. A. *see* **Bukhbinder, I. L.; et al., 93d:83030**
de Freitas, Luciane R. *see* **Novello, M.; et al., 93d:83032**
Fronsdal, C. (*with* Heidenreich, W. F.) Infrared regularization of quantum gravity. **93f:83039**
Fujiwara, Yoshihisa (*with* Higuchi, Saburo; Hosoya, Akio; Mishima, Takashi; Siino, Masaru) Nucleation of a universe in $(2+1)$-dimensional gravity with a negative cosmological constant. **93a:83017a**
— (*with* Higuchi, Saburo; Hosoya, Akio; Mishima, Takashi; Siino, Masaru) Topology changes in $(2+1)$-dimensional quantum gravity. **93a:83017b**
— (*with* Higuchi, Saburo; Hosoya, Akio; Mishima, Takashi; Siino, Masaru) Point particles as defects in $(2+1)$-dimensional quantum gravity. **93b:83022**
Gamba, Andrea *see* **Bonacina, Giuseppe; et al., 93f:83035**
Gambini, Rodolfo *see* **Brügmann, Bernd; et al., 93m:83027**
Gegenberg, J. (*with* Kunstatter, G.) Quantum theory of black holes. (English summary) **93m:83029**
Giulini, Domenico (*with* Louko, Jorma) Gravitational theta-states in $(2+1)$-dimensional quantum cosmology. **93c:83050**
— (*with* Louko, Jorma) No-boundary θ sectors in spatially flat quantum cosmology. (English summary) **93m:83030**
Goldberg, Joshua N. (*with* Lewandowski, Jerzy; Stornaiolo, C.) Degeneracy in loop variables. (English summary) **93i:83047**
González-Díaz, Pedro F. Equivalence among wormhole instantons. **93j:83037**
— Nonclassical states in quantum gravity. (English summary) **93g:83046**
— Regaining quantum incoherence for matter fields. **93b:83023**
Greensite, J. Probability, time, and gravity. **93a:83018**
— Stabilized quantum gravity. Stochastic interpretation and numerical simulation. (English summary) **93m:83031**
— Dynamical origin of the Lorentzian signature of spacetime. (English summary) **93k:83030**
Grishchuk, L. P. Quantum cosmology and baby universes. (*see* **93b:83002**)
— (*with* Sidorov, Yurii Vladimirovich) Squeezed quantum states in theory of cosmological perturbations. **93d:83031**
Guadagnini, E. (*with* Volpi, F.) Two-particle scattering amplitude in gauge ISO(2, 1) quantum gravity. **93f:83040**
Gunzig, Edgard *see* **Castagnino, Mario A.; et al., 93i:83045** *and* **(93d:83003)**
Guth, Alan H. Can a man-made universe be created by quantum tunneling without an initial singularity? **93b:83024**
Guven, Jemal (*with* Ryan, Michael P., Jr.) Functional integrals and canonical quantum gravity. **93g:83047**
Haag, Rudolf Quantum physics and gravitation. (*see* **93g:81074**)
Habib, Salman Stochastic inflation: quantum phase-space approach. (English summary) **93g:83048**
Hájíček, Petr Large diffeomorphisms and Dirac quantization of constrained systems. (English summary) **93j:83038**
— (*with* Kay, Bernard S.; Kuchař, Karel V.) Quantum collapse of a self-gravitating shell: equivalence to Coulomb scattering. (English summary) **93j:83039**
Halliwell, Jonathan J. Introductory lectures on quantum cosmology. (*see* **93h:83024**)
— (*with* Hartle, James B.) Wave functions constructed from an invariant sum-over-histories satisfy constraints: three derivations of the Wheeler-DeWitt equation. **93g:83049**
Hartle, James B. Progress in quantum cosmology. (*see* **93b:83002**)
— Quantum mechanics from the perspective of quantum cosmology. (*see* **93b:83003**)
— *see also* **Halliwell, Jonathan J., 93g:83049** *and* **Quantum cosmology and baby universes, 93h:83024**
Hawking, Stephen W. Wormholes and non-simply connected manifolds. (*see* **93h:83024**)
— The alpha parameters of wormholes. **93g:83050**
— *see also* **D'Eath, P. D.; et al., 93k:83029**
Hayward, Sean A. On cosmological isotropy, quantum cosmology and the Weyl curvature hypothesis. (English summary) **93h:83023**
Heidenreich, W. F. *see* **Fronsdal, C., 93f:83039**
Higuchi, Saburo *see* **Fujiwara, Yoshihisa; et al., 93a:83017a; 93a:83017b** *and* **93b:83022**
Hosoya, Akio *see* **Fujiwara, Yoshihisa; et al., 93a:83017a; 93a:83017b** *and* **93b:83022**
Huang, Wei Hong[2] (*with* Shen, You Gen) Quantum cosmology with conformal scalar field in the Vilenkin theory.
Hughes, D. I. *see* **D'Eath, P. D.; et al., 93c:83049** *and* **93m:83028**
Ichinose, Shoichi Reexamination of the renormalizability problem in $(3+1)$-dimensional Einstein gravity. **93c:83051**
Isham, Chris J. An introduction to general topology and quantum topology. **93a:83019**
— (*with* Kubyshin, Yu. A.; Renteln, P.) Quantum metric topology. **93i:83049**
— Conceptual and geometrical problems in quantum gravity. (English summary) **93j:83040**
— Loop algebras and canonical quantum gravity. (English summary) (*see* **93d:58006**)
— *see also* **Ashtekar, Abhay, 93i:83042**
Kamenshchik, A. Yu. (*with* Mishakov, I. V.) ζ-function technique for quantum cosmology: the contributions of matter fields to the Hartle-Hawking wave function of the Universe. **93f:83041**
— (*with* Mishakov, I. V.) Fermions in one-loop quantum cosmology. (English summary) **93m:83032**
— *see also* **Barvinskii, A. O., 93c:83046; 93d:83028** *and* **93k:83026**
Karmazin, I. P. *see* **Barvinskii, A. O.; et al., 93d:83028** *and* **93k:83026**
Kavalov, Al. R. (*with* Kavalov, An. R.; Mkrtchyan, R. L.) Construction of the field theory of $(2+1)$-dimensional universes filled by topological Yang-Mills fields. **93f:83042**
Kavalov, An. R. *see* **Kavalov, Al. R.; et al., 93f:83042**
Kay, Bernard S. *see* **Hájíček, Petr; et al., 93j:83039**
Khalatnikov, I. M. (*with* Mezhlumyan, A.) The classical and quantum cosmology with a complex scalar field. (English summary) **93g:83051**
Kim, Chol-Bu (*with* Shimizu, Tadayoshi; Yoshida, Katsuhiko) $(2+1)$-dimensional quantum gravity with spinor field. **93e:83035**
Kim, Sang Pyo (*with* Page, Don N.) Wormhole spectrum of a quantum Friedmann-Robertson-Walker cosmology minimally coupled to a power-law scalar field and the cosmological constant. **93a:83020**
— Quantum mechanics of conformally and minimally coupled Friedmann-Robertson-Walker cosmology. (English summary) **93j:83041**
Kitazoe, Tetsuro (*with* Anada, Hajime; Mizumoto, Yoshihiko) Perturbative method to solve the quantum gravity equation. (Japanese. English summary)
Kogut, John B. *see* **Renken, Ray L.; et al., 93j:83043**
Komar, Arthur Theories of quantum gravity. II. Not superstring theory. (*see* **93b:83002**)
Korfiatis, E. *see* **Christodoulakis, T., 93i:83046**
Kubyshin, Yu. A. *see* **Isham, Chris J.; et al., 93i:83049**
Kuchař, Karel V. Time and interpretations of quantum gravity. **93m:83033**
— *see also* **Hájíček, Petr; et al., 93j:83039**
Kunstatter, G. *see* **Gegenberg, J., 93m:83029**
Kur'yan, V. E. Quantum field theory in space with discrete geometry. **93g:83052**
Kuz'min, V. A. *see* **Berezin, V. A.; et al., (93b:83004)**
Laflamme, Raymond *see* **Brandenberger, Robert H.; et al., (93b:83004)**
Lavrelashvili, G. (*with* Rubakov, V. A.; Tinyakov, P. G.) Third quantization of gravity and the cosmological constant problem. **93m:83034**
Lee, Chang-Yeong Renormalization of quantum gravity with local $\overline{\mathrm{GL}}(4, \mathbf{R})$ symmetry. (English summary) **93g:83053**
Lewandowski, Jerzy *see* **Goldberg, Joshua N.; et al., 93i:83047**
Linde, A. D. Cosmological constant, quantum cosmology and anthropic principle. (English summary) **93k:83031**
Louko, Jorma *see* **Giulini, Domenico, 93c:83050** *and* **93m:83030**
Lyons, Glenn W. Complex solutions for the scalar field model of the Universe. (English summary) **93f:83043**
Malin, Shimon *see* **Carmeli, M., 93k:83028**
Manojlović, Nenad (*with* Miković, Aleksandar) Ashtekar formulation of $(2+1)$-dimensional gravity on a torus. (English summary) **93m:83035**
Marinari, Enzo *see* **Bowick, Mark J., 93i:83043**
Markov, M. A. On some problems of quantum and classical gravitation. (*see* **93b:83004**)
Martellini, Maurizio *see* **Bonacina, Giuseppe; et al., 93f:83035**
Mashkevich, V. S. Indeterministic theory of gravitation. (Russian. English, Russian and Ukrainian summaries) **93k:83032**
Mazzitelli, Francisco D. Higher derivatives and renormalization in quantum cosmology. **93e:83036**
— Midisuperspace-induced corrections to the Wheeler-DeWitt equation. (English summary) **93f:83044**
McKeon, D. G. C. (*with* Wong, C.) Radiative corrections in two-dimensional gravity. (French summary) **93a:83021**
McLaughlin, John G. *see* **Allen, Bruce; et al., 93c:83043** *and* **93f:83034**
Menskii, M. B. The self-measurement of the Universe and the concept of time in quantum cosmology. **93c:83052**
— The problem of time in quantum cosmology and self-measurement of the Universe. **93k:83033**
Mezhlumyan, A. *see* **Khalatnikov, I. M., 93g:83051**
Mijić, Milan *see* **Brandenberger, Robert H.; et al., (93b:83004)**
Miković, Aleksandar *see* **Manojlović, Nenad, 93m:83035**
Mishakov, I. V. *see* **Barvinskii, A. O.; et al., 93d:83028; Kamenshchik, A. Yu., 93f:83041** *and* **93m:83032**
Mishima, Takashi *see* **Fujiwara, Yoshihisa; et al., 93a:83017a; 93a:83017b** *and* **93b:83022**
Mizumoto, Yoshihiko *see* **Kitazoe, Tetsuro; et al.**
Mkrtchyan, R. L. *see* **Kavalov, Al. R.; et al., 93f:83042**
Modanese, Giovanni Vacuum correlations in quantum gravity. (English summary) **93e:83037**
— Geodesic round trips by parallel transport in quantum gravity. (English summary) **93j:83042**
Moss, Ian Gravitational instantons and quantisation of the cosmological constant. **93c:83053**
Myers, Robert C. *see* **Anglin, J. R., 93k:83025**
Nakanishi, Noboru *see* **Abe, Mitsuo, 93a:83015; 93e:83032** *and* **93e:83033**
Nakazawa, Naohito BRS symmetry in stochastic quantization of gravity. **93c:83054**
Nardone, Pascal *see* **Castagnino, Mario A.; et al., 93i:83045** *and* **(93d:83003)**
Ne'eman, Yuval Progress in quantum gravity. (*see* **93h:81003**)
Neto, N. P. *see* **Novello, M.; et al., 93d:83032**
Novello, M. (*with* de Freitas, Luciane R.; Neto, N. P.; Svaiter, N. F.) Quantization of spin-two field in terms of Fierz variables—the linear case. **93d:83032**
Novozhilov, Yu. V. (*with* Vasilevich, D. V.) On the conformal factor problem in quantum gravity. **93d:83033**
Obregón, O. (*with* Socorro, J.; Benítez, J.) Supersymmetric quantum cosmology proposals and the Bianchi type-II model. (English summary) **93m:83037**
— *see also* **Benítez, J.; et al., 93g:83043** *and* **D'Eath, P. D.; et al., 93k:83029**
Odintsov, S. D. (*with* Shapiro, I. L.) General relativity as the low-energy limit in higher derivative quantum gravity. **93g:83054**
— Curved space-time formulation of the conformal sector for 4D quantum gravity. **93d:83034**
— *see also* **Bukhbinder, I. L.; et al., 93d:83030; Elizalde, E., 93f:83037** *and* **Bukhbinder, I. L.; et al., 93i:83044**

Ó Murchadha, Niall (*with* Shanahan, Hugh) There are no $\mathbf{R}^3 \times S^1$ vacuum gravitational instantons. (English summary) **93m:83036**
Ottewill, Adrian C. *see* **Allen, Bruce; et al., 93c:83043** *and* **93f:83034**
Page, Don N. Minisuperspace wavefunctions for cosmology and wormholes. **93d:83035**
— *see also* **Kim, Sang Pyo, 93a:83020** *and* **Twamley, Jason, 93d:83036**
Park, D. H. *see* **Cho, Y. M., (93f:81006)**
Parker, Leonard (*with* Simon, Jonathan Z.) Einstein equation with quantum corrections reduced to second order. (English summary) **93k:83034**
Paz, Juan Pablo (*with* Sinha, Sukanya) Decoherence and back reaction in quantum cosmology: multidimensional minisuperspace examples. **93b:83025**
Peleg, Yoav Perturbative quantum cosmology around the $\mathcal{MS}(T^d)$ minisuperspace. (English summary) **93k:83035**
Percacci, R. (*with* Russo, Jorge G.) On the propagation of quantum fields at Planckian energies. **93e:83038**
— *see also* **Floreanini, Roberto, 93f:83038**
(Piran, Tsvi) *see* **Quantum cosmology and baby universes, 93h:83024**
Prugovečki, Eduard Foundational problems in quantum gravity and quantum cosmology. **93m:83038**
Pullin, Jorge *see* **Brügmann, Bernd; et al., 93m:83027**
Redmount, Ian H. (*with* Suen, Wai-Mo) Is quantum spacetime foam unstable? (English summary) **93k:83036**
Renken, Ray L. (*with* Catterall, Simon M.; Kogut, John B.) Three-dimensional quantum gravity coupled to Ising matter. (English summary) **93j:83043**
Renteln, P. *see* **Isham, Chris J.; et al., 93i:83049**
Rosenbaum, Marcos (*with* Ryan, Michael P., Jr.; Sinha, Sukanya) Nonlinear model of a quantum minisuperspace system with back reaction. (English summary) **93m:83039**
Rovelli, Carlo Are knots quantum states of space time? **93c:83055**
— Holonomies in quantum gravity. **93b:83026**
— *see also* **Ashtekar, Abhay; et al., 93c:83045** *and* **93h:83021**
Roy, Sisir *see* **von Borzeszkowski, Horst-Heino, 93h:83022**
Rubakov, V. A. *see* **Lavrelashvili, G.; et al., 93m:83034**
Russo, Jorge G. *see* **Percacci, R., 93e:83038**
Ryan, Michael P., Jr. *see* **Guven, Jemal, 93g:83047** *and* **Rosenbaum, Marcos; et al., 93m:83039**
Salehi, Hadi A semiclassical approach to quantum gravity. (English summary) **93i:83050**
Salopek, D. S. (*with* Stewart, John Malcolm) Hamilton-Jacobi theory for general relativity with matter fields. (English summary) **93i:83051**
Samuel, Joseph Self-duality in classical gravity. **93b:83027**
Sánchez, Norma String theory and the quantization of gravity. (*see* **93j:83004**)
Schleich, Kristin (*with* Anderson, Arlen) Constraints on the topology of axionic wormhole solutions. **93c:83056**
Shanahan, Hugh *see* **Ó Murchadha, Niall, 93m:83036**
Shapiro, I. L. *see* **Odintsov, S. D., 93g:83054** *and* **Bukhbinder, I. L.; et al., 93i:83044**
Shen, You Gen *see* **Huang, Wei Hong²**
Shimizu, Katsutaro (*with* Wada, Sumio) BRST invariance of a discretized path integral and operator ordering of the Wheeler-DeWitt equation in a one-variable minisuperspace model. **93c:83057**
Shimizu, Tadayoshi *see* **Kim, Chol-Bu; et al., 93e:83035**
Sidorov, Yurii Vladimirovich *see* **Grishchuk, L. P., 93d:83031**
Siino, Masaru *see* **Fujiwara, Yoshihisa; et al., 93a:83017a; 93a:83017b** *and* **93b:83022**
Simon, Jonathan Z. *see* **Parker, Leonard, 93k:83034**
Sinha, Sukanya *see* **Paz, Juan Pablo, 93b:83025** *and* **Rosenbaum, Marcos; et al., 93m:83039**
Smailagic, A. *see* **Aurilia, Antonio; et al., 93g:83042**
Smolin, Lee Loop representation for quantum gravity in 2 + 1 dimensions. **93c:83058**
— The $G_{\text{Newton}} \to 0$ limit of Euclidean quantum gravity. **93c:83059**
— *see also* **Ashtekar, Abhay; et al., 93c:83045**
Socorro, J. *see* **Benítez, J.; et al., 93g:83043** *and* **Obregón, O.; et al., 93m:83037**
Spallucci, Euro *see* **Aurilia, Antonio; et al., 93g:83042**
Stewart, John Malcolm *see* **Salopek, D. S., 93i:83051**
Stornaiolo, C. *see* **Goldberg, Joshua N.; et al., 93i:83047**
Strominger, Andrew Baby universes. **93c:83060**
— Baby universes. (*see* **93h:83024**)
Suen, Wai-Mo *see* **Redmount, Ian H., 93k:83036**
Sushkov, S. V. A self-consistent semiclassical solution with a throat in the theory of gravity. **93i:83052**
Susskind, Leonard *see* **Cooper, Adrian; et al., 93c:83048**
Svaiter, N. F. *see* **Novello, M.; et al., 93d:83032**
Teitelboim, Claudio Hamiltonian formulation of general relativity. (*see* **93h:83024**)
Thorlacius, Lárus *see* **Cooper, Adrian; et al., 93c:83048**
Tinyakov, P. G. *see* **Lavrelashvili, G.; et al., 93m:83034**
Tkachev, I. I. *see* **Berezin, V. A.; et al., (93b:83004)**
Tsamis, N. C. (*with* Woodard, R. P.) Physical Green's functions in quantum gravity. **93f:83045**
Twamley, Jason (*with* Page, Don N.) Imaginary wormholes. **93d:83036**
Uglum, John Quantum cosmology of $\mathbf{R} \times S^2 \times S^1$. (English summary) **93k:83037**
Unruh, W. G. No time and quantum gravity. **93d:83037**
Vasilevich, D. V. *see* **Novozhilov, Yu. V., 93d:83033**
Veneziano, G. Some ideals on the cosmological constant problem. (*see* **93j:83004**)
Venturi, G. Quantum gravity and the Berry phase. **93c:83061**
— Fluctuations in the matter-gravity system. **93b:83028**
— Quantum fluctuations in the matter-gravity system. (English summary) **93m:83040**
Verlinde, Erik *see* **Verlinde, Herman, 93d:83038**
Verlinde, Herman (*with* Verlinde, Erik) Scattering at Planckian energies. **93d:83038**
Vilkoviskii, G. A. Effective action in quantum gravity. **93c:83062**
Vink, Jeroen C. Quantum potential interpretation of the wave function of the universe. **93c:83063**
Volpi, F. *see* **Guadagnini, E., 93f:83040**
Wada, Sumio *see* **Shimizu, Katsutaro, 93c:83057**
Wang, Jin Superstrings in quantum cosmology. **93c:83064**
(Weinberg, S.) *see* **Quantum cosmology and baby universes, 93h:83024**
Wong, C. *see* **McKeon, D. G. C., 93a:83021**
Woodard, R. P. *see* **Tsamis, N. C., 93f:83045**
Yoshida, Katsuhiko *see* **Kim, Chol-Bu; et al., 93e:83035**
Zegwaard, Joost Physical interpretation of the loop representation for nonperturbative quantum gravity. (English summary) **93m:83042**
— The weaving of curved geometries. (English summary) **93m:83041**
Zhuk, A. I. Integrable multidimensional quantum cosmology. (English summary) **93f:83046**
— On change of the signature of the metric in multidimensional quantum cosmology. (Russian) **93k:83038**

Items listed otherwise than by author

Jerusalem ★ Quantum cosmology and baby universes. **93h:83024**
Quantum cosmology and baby universes ★ Quantum cosmology and baby universes. **93h:83024**
School:
Quantum Cosmology and Baby Universes ★ Quantum cosmology and baby universes. **93h:83024**

Items with secondary classifications in 83C45

Agishtein, M. E. (*with* Migdal, A. A.) Critical behavior of dynamically triangulated quantum gravity in four dimensions. (English summary) **93i:83034**
Alvarez-Gaumé, Luis Random surfaces, statistical mechanics and string theory. **93d:81131**
Ambjørn, Jan Regularized quantum gravity and string theory. (English summary) **93f:81101**
— (*with* Varsted, Steen) Three-dimensional simplicial quantum gravity. **93h:83019**
— (*with* Jurkiewicz, Jerzy Władysław) Four-dimensional simplicial quantum gravity. **93i:83035**
Ashtekar, Abhay ★ Lectures on nonperturbative canonical gravity. **93c:83003**
— (*with* Rovelli, Carlo; Smolin, Lee) Self-duality and quantization. **93c:81243**
Baez, John C. Link invariants of finite type and perturbation theory. (English summary) **93k:57006**
(Balibar, Françoise) *see* **Penrose, Roger, 93k:00013**
Barbero, J. F. (*with* Odintsov, S. D.) Renormalization group dynamics of higher-derivative gravity coupled to a massive scalar. (English summary) **93k:83059**
Bellucci, Stefano (*with* O'Reilly, D.) Wormholes and charged particles. **93e:81083**
Bene, Julius *see* **Graham, Robert, 93m:83004**
(Berezin, V. A.) *see* **Quantum gravity, 93b:83004**
Bleyer, U. (*with* Liebscher, D.-E.; Polnarev, A. G.) Kaluza-Klein models: from quantum state to observations. **93d:83062**
Brandenberger, Robert H. (*with* Laflamme, Raymond; Mijić, Milan) Classical perturbations from decoherence of quantum fluctuations in the inflationary universe. **93a:83039**
Brügmann, Bernd Nonuniform measure in four-dimensional simplicial quantum gravity. (English summary) **93m:83021**
— (*with* Marinari, Enzo) 4D simplicial quantum gravity with a nontrivial measure. (English summary) **93k:83020**
Cappelli, Andrea (*with* Ciafaloni, Marcello; Valtancoli, Paolo) Classical scattering in 2 + 1 gravity with N point sources. **93b:83050**
Carfora, M. (*with* Marzuoli, A.) Bounded geometries and topology fluctuations in lattice quantum gravity. **93g:83035**
Castagnino, Mario A. The probabilistic time and the semiclassical approximation of quantum gravity. (*see* **93d:83003**)
Ciafaloni, Marcello *see* **Cappelli, Andrea; et al., 93b:83050**
Coule, David H. Wormhole or bounce? (English summary) **93j:83018**
van Dam, Hendrik *see* **Frampton, Paul H.; et al., 93i:81300**
Diósi, Lajos Coarse graining and decoherence translated into von Neumann language. **93b:81023**
Ellis, Jonathan Richard (*with* Mavromatos, N. E.; Nanopoulos, D. V.) Quantum mechanics and black holes in four-dimensional string theory. **93c:83114**
— (*with* Mavromatos, N. E.; Nanopoulos, D. V.) World-sheet duality, space-time foam, and the quantum fate of a stringy black hole. (English summary) **93g:83093**
Fokas, A. S. *see* **It·s, A. R.; et al., 93e:81114**
Frampton, Paul H. (*with* Ng, Y. Jack; van Dam, Hendrik) Possible solution of strong CP problem in generalized unimodular gravity. (English summary) **93i:81300**
Friedman, John L. Is physics consistent with closed timelike curves? **93d:83060**
(Frolov, V. P.) *see* **Quantum gravity, 93b:83004**
(Gardner, Martin) *see* **Penrose, Roger, 93k:00013**
Graham, Robert (*with* Bene, Julius) Supersymmetric Bianchi type IX cosmology with a scalar field. (English summary) **93m:83004**
Gross, Mark (*with* Hamber, Herbert W.) Critical properties of two-dimensional simplicial quantum gravity. **93a:83011**
Hamada, Ken-Ji Quantum theory of dilaton gravity in 1 + 1 dimensions. (English summary) **93m:81132**
Hamber, Herbert W. Critical behavior in simplicial quantum gravity. **93c:83032**
— (*with* Williams, Ruth M.) Simplicial quantum gravity in three dimensions: analytical and numerical results. (English summary) **93j:83028**
— *see also* **Gross, Mark, 93a:83011**
't Hooft, Gerard Black hole quantization and a connection to string theory. **93e:83045**
Horowitz, Gary T. String theory as a quantum theory of gravity. (*see* **93b:83002**)
Hosoya, Akio Stochastic quantum gravity—(2 + 1)-dimensional case. **93b:81187**
Hu, B. L. Quantum and statistical effects in superspace cosmology. (*see* **93d:83003**)
Ichinose, Shoichi BRS symmetry on background-field, Kallosh theorem and renormalization. (English summary) **93m:81147**
It·s, A. R. (*with* Kitaev, A. V.; Fokas, A. S.) Matrix models of two-dimensional quantum gravity, and isomonodromic solutions of Painlevé "discrete equations". (Russian. English summary) **93e:81114**
Jacobson, Ted (*with* Romano, Joseph D.) Degenerate extensions of general relativity. (English summary) **93g:83009**
Jurkiewicz, Jerzy Władysław *see* **Ambjørn, Jan, 93i:83035**
Kallosh, Renata Geometry of scattering at Planckian energies. **93c:81126**

Keszthelyi, Bettina (*with* Kleppe, Gary) Renormalizability of $D = 3$ topologically massive gravity. **93b:81144**
Kirillov, A. A. Quantum birth of a universe near a cosmological singularity. (Russian) **93d:83072**
Kitaev, A. V. *see* **It·s, A. R.; et al., 93e:81114**
Kleppe, Gary *see* **Keszthelyi, Bettina, 93b:81144**
Kocharyan, A. A. Instability in superspace. **93d:58021**
Krori, K. D. (*with* Purkayastha, Anuradha Das) Two models in quantum cosmology. (French summary)
Laflamme, Raymond *see* **Brandenberger, Robert H.; et al., 93a:83039**
Lano, R. P. (*with* Rodgers, V. G. J.) Applications of W algebras to BF theories, QCD and 4D gravity. **93i:81265**
Leal, Lorenzo Quantum kinematics of the Chern-Simons field with matter in the loop representation. (English summary) **93i:81153**
Liebscher, D.-E. *see* **Bleyer, U.; et al., 93d:83062**
Linde, A. D. Inflation and quantum cosmology. (*see* **93b:83002**)
— Inflation and quantum cosmology. **93c:83127**
Louko, Jorma (*with* Tuckey, Philip A.) Regge calculus in anisotropic quantum cosmology. **93c:83033**
— (*with* Whiting, Bernard F.) Energy spectrum of a quantum black hole. **93c:83077**
Loustó, C. O. (*with* Sánchez, Norma) The ultrarelativistic limit of the boosted Kerr-Newman geometry and the scattering of spin-$\frac{1}{2}$ particles. (English summary) **93k:83039**
Lyons, Alex Wormholes in string theory and low energy quantum gravity. **93c:81177**
Madore, J. The fuzzy sphere. **93c:58024**
Majid, Shahn Braided groups and duals of monoidal categories. (English summary) **93j:18005**
Maluf, José W. Symmetry properties of Ashtekar's formulation of canonical gravity. (English summary) **93i:83010**
Manojlović, Nenad (*with* Miković, Aleksandar) Gauge fixing and independent canonical variables in the Ashtekar formulation of general relativity. (English summary) **93g:83011**
— (*with* Miković, Aleksandar) Canonical analysis of the Bianchi models in the Ashtekar formulation. (English summary) **93m:83005**
Marinari, Enzo *see* **Brügmann, Bernd, 93k:83020**
(Markov, M. A.) *see* **Quantum gravity, 93b:83004**
Marzuoli, A. *see* **Carfora, M., 93g:83035**
Mavromatos, N. E. *see* **Ellis, Jonathan Richard; et al., 93c:83114** *and* **93g:83093**
McCarthy, Patrick J. Real and complex asymptotic symmetries in quantum gravity, irreducible representations, polygons, polyhedra, and the A, D, E series. **93d:83024**
Mena Marugán, G. A. Dynamically generated four-dimensional models in Lovelock cosmology. (English summary) **93f:83080**
Menskii, M. B. The action uncertainty principle and quantum gravity. **93a:81027**
Merkulov, S. A. A supersymmetric nonlinear graviton. (Russian) **93k:83053**
Migdal, A. A. *see* **Agishtein, M. E., 93i:83034**
Mijić, Milan *see* **Brandenberger, Robert H.; et al., 93a:83039**
Miković, Aleksandar *see* **Manojlović, Nenad, 93g:83011** *and* **93m:83005**
Mizoguchi, Shun'ya (*with* Tada, Tsukasa) Three-dimensional gravity from the Turaev-Viro invariant. **93a:83012**
Mostepanenko, V. M. (*with* Sokolov, I. Yu.) Optimal Cavendish-type experiment for the search of restrictions on light particles of quantum gravity. (*see* **93b:83004**)
Nakanishi, Noboru (*with* Ojima, Izumi) ★ Covariant operator formalism of gauge theories and quantum gravity. **93g:81097**
Nanopoulos, D. V. *see* **Ellis, Jonathan Richard; et al., 93c:83114** *and* **93g:83093**
Nelson, Jeanette (*with* Regge, T.) $2+1$ gravity for genus > 1. **93b:81266a**
— (*with* Regge, T.) $2+1$ quantum gravity. **93b:81266b**
— (*with* Regge, T.) $SU(2)_q$ and $2+1$ quantum gravity. (English summary) **93e:81122**
Ng, Y. Jack *see* **Frampton, Paul H.; et al., 93i:81300**
Odintsov, S. D. Renormalization group, effective action and grand unification theories in curved space-time. **93f:81097**
— *see also* **Barbero, J. F., 93k:83059**
Ojima, Izumi *see* **Nakanishi, Noboru, 93g:81097**
Ooguri, Hirosi Partition functions and topology-changing amplitudes in the three-dimensional lattice gravity of Ponzano and Regge. (English summary) **93j:82051**
O'Reilly, D. *see* **Bellucci, Stefano, 93e:81083**
Page, Don N. Minisuperspaces with conformally and minimally coupled scalar fields. **93b:83035**
Peldán, Peter Legendre transforms in Ashtekar's theory of gravity. **93a:83004**
Penrose, Roger ★ L'esprit, l'ordinateur et les lois de la physique. (French) [Minds, computers and the laws of physics] **93k:00013**
Pollock, M. D. On the derivation of the Wheeler-DeWitt equation in the heterotic superstring theory. (English summary) **93i:83090**
Polnarev, A. G. *see* **Bleyer, U.; et al., 93d:83062**
Prugovečki, Eduard ★ Quantum geometry. **93b:81019**
Purkayastha, Anuradha Das *see* **Krori, K. D.**
Regge, T. *see* **Nelson, Jeanette, 93b:81266a; 93b:81266b** *and* **93e:81122**
Rodgers, V. G. J. *see* **Lano, R. P., 93i:81265**
Roman, Thomas A. Inflating Lorentzian wormholes. (English summary) **93k:83068**
Romano, Joseph D. *see* **Jacobson, Ted, 93g:83009**
Rovelli, Carlo *see* **Ashtekar, Abhay; et al., 93c:81243**
Sakellariadou, María Semiclassical effects and the onset of inflation. (English summary) **93m:83006**
Sánchez, Norma *see* **Loustó, C. O., 93k:83039**
Schmidt, Hans-Jürgen On multi-inflation cosmological models. **93d:83076**
Smolin, Lee New Hamiltonian variables. (*see* **93b:83002**)
— *see also* **Ashtekar, Abhay; et al., 93c:81243**
Sokolov, I. Yu. *see* **Mostepanenko, V. M., (93b:83004)**
Susskind, Leonard Critique of Coleman's theory of the vanishing cosmological constant. (*see* **93h:83024**)
Tada, Tsukasa *see* **Mizoguchi, Shun'ya, 93a:83012**
Tate, Ranjeet S. Polynomial constraints for general relativity using real geometrodynamical variables. **93b:83005**
— *see also* **Ashtekar, Abhay, 93c:83003**
(Tiercelin, Claudine) *see* **Penrose, Roger, 93k:00013**
Tomimatsu, Akira Evaporating black holes in quantum gravity. (English summary) **93g:83074**
Tuckey, Philip A. *see* **Louko, Jorma, 93c:83033**
Uehara, Shozo A note on gravitational and SU(2) instantons with Ashtekar variables. **93a:83009**
Valtancoli, Paolo *see* **Cappelli, Andrea; et al., 93b:83050**
Varsted, Steen *see* **Ambjørn, Jan, 93h:83019**
Veneziano, G. Quantum string gravity near the Planck scale. **93c:83117**
— Quantum string gravity near the Planck scale. **93e:83067**
Vergeles, S. N. Application of the method of dynamical quantization to the theory of gravity in $(2+1)$-dimensional space. (Russian) **93k:81225**
Whiting, Bernard F. *see* **Louko, Jorma, 93c:83077**
Williams, Ruth M. Discrete quantum gravity: the Regge calculus approach. (English summary) **93g:83036**
— *see also* **Hamber, Herbert W., 93j:83028**

Items listed otherwise than by author

Moscow ★ Quantum gravity. **93b:83004**
Quantum gravity ★ Quantum gravity. **93b:83004**
Seminar:
Quantum Gravity ★ Quantum gravity. **93b:83004**

83C47 Quantum field theory aspects [see also 81T20]

Ahmed, Mainuddin (*with* Mondal, Asit Kumar) Hawking radiation of Dirac particles in Kasner-type spacetime. (English summary)
Audretsch, Jürgen Quantum field theory in curved space-time. (*see* **93b:83002**)
Bander, Myron *see* **Kebede, Temesgen, 93b:83034**
Bao, Gong *see* **Zhang, Zhen Jiu; et al., (93d:83003)**
Bezerra, Valdir B. (*with* dos Santos, Ivonete B.) Topological effects due to a cosmic string. (French summary) **93b:83029**
Botelho, Luiz C. L. The Wheeler-DeWitt equation as a functional diffusion equation. (*see* **93b:81004**)
Bytsenko, A. A. (*with* Zerbini, Sergio) The Casimir effect for a class of hyperbolic $(D+1)$-dimensional spacetimes. **93i:83053**
Camporesi, Roberto (*with* Higuchi, Atsushi) Stress-energy tensors in anti-de Sitter spacetime. **93f:83047**
Campos, A. (*with* Verdaguer, E.) Production of spin-$\frac{1}{2}$ particles in inhomogeneous cosmologies. **93c:83065**
Castagnino, Mario A. The probabilistic time and the semiclassical approximation of quantum gravity. (*see* **93d:83003**)
— (*with* Domenech, G.; Frolov, V. P.; Noriega, R. J.; Schifini, G.) Concomitants theory and renormalization in even dimensions. **93b:83030**
Chang, Peter *see* **Dowker, J. S., 93j:83045**
Dehnen, H. *see* **Macías, A., 93k:83040**
De Sabbata, Venzo (*with* Sivaram, C.) Torsion, time and temperature (the T^3 theorem). (English summary) **93j:83044**
Domenech, G. *see* **Castagnino, Mario A.; et al., 93b:83030**
Dowker, J. S. (*with* Chang, Peter) Polyhedral cosmic strings. (English summary) **93j:83045**
Dray, Tevian (*with* Kulkarni, Ravi S.; Manogue, Corinne A.) Scalar field quantization in stationary, nonstatic spacetimes. (English summary) **93j:83046**
Elmfors, Per (*with* Skagerstam, Bo-Sture) Quantum fields at local equilibrium and distortions of the cosmic microwave background. (English summary) **93e:83039**
Frolov, V. P. Vacuum polarization in a locally static multiply-connected spacetime and a time machine problem. **93f:83048**
— *see also* **Castagnino, Mario A.; et al., 93b:83030**
Garriga, Jaume (*with* Vilenkin, Alexander) Quantum fluctuations on domain walls, strings, and vacuum bubbles. **93b:83031**
Grøn, Øyvind (*with* Soleng, Harald H.) Gravitational effect of the quantum vacuum outside a cosmic string. **93b:83032**
Harari, Diego D. (*with* Skarzhinskiĭ, V. D.) Quantum processes in the gravitational field of a cosmic string. (*see* **93b:83004**)
Hayward, Geoff General laws of thermodynamics. **93c:83066**
He, Chang Bai *see* **Zhang, Zhen Jiu; et al., (93d:83003)**
Heinrich, O. Equilibrium configurations of superconducting cosmic strings in background fields. (*see* **93b:83004**)
Higuchi, Atsushi (*with* Matsas, G. E. A.; Sudarsky, Daniel) Bremsstrahlung and Fulling-Davies-Unruh thermal bath. (English summary) **93f:83049**
— *see also* **Camporesi, Roberto, 93f:83047**
Hirenzaki, Satoru *see* **Shiraishi, Kiyoshi, 93f:83052**
Hortaçsu, M. Quantum fluctuations of a spherical gravitational shock wave. **93d:83039**
Hu, B. L. Quantum and statistical effects in superspace cosmology. (*see* **93d:83003**)
Huang, Chao Guang Thermal stress-energy tensor of a scalar field in Reissner-Nordström space-time. **93b:83033**
Huang, Huan Ran *see* **Zhang, Zhen Jiu; et al., (93d:83003)**
Isaacson, Jeffrey A. *see* **Rogers, Barrett, 93d:83040**
Kebede, Temesgen (*with* Bander, Myron) Contribution of heavy bosons and fermions to the action for a Robertson-Walker metric. **93b:83034**
Kim, Sung-Won Particle creation for time travel through a wormhole. (English summary) **93f:83050**
Klinkhammer, Gunnar Vacuum polarization of scalar and spinor fields near closed null geodesics. (English summary) **93i:83054**
Kulkarni, Ravi S. *see* **Dray, Tevian; et al., 93j:83046**
Levin, Orit (*with* Peleg, Yoav; Peres, Asher) Quantum detector in an accelerated cavity. (English summary) **93m:83043**
Linet, B. The Euclidean thermal Green function in the spacetime of a cosmic string. (English summary) **93g:83055**
Liu, Liao *see* **Zhao, Zheng, 93h:83026**

Loustó, C. O. (*with* Sánchez, Norma) The ultrarelativistic limit of the boosted Kerr-Newman geometry and the scattering of spin-$\frac{1}{2}$ particles. (English summary) **93k:83039**
Macías, A. (*with* Dehnen, H.) Dirac field in the five-dimensional Kaluza-Klein theory with scalar field. (English summary) **93k:83040**
Manogue, Corinne A. *see* **Dray, Tevian; et al., 93j:83046**
Matacz, A. L. The emergence of classical behaviour in the quantum fluctuations of a scalar field in an expanding universe. (English summary) **93j:83047**
Matsas, G. E. A. *see* **Higuchi, Atsushi; et al., 93f:83049**
Meng, Xiao Dong (*with* Zhao, Zheng) The Hawking radiation from a static black hole with mass-quadrupole moment. (Chinese. English summary) **93g:83056**
Mondal, Asit Kumar *see* **Ahmed, Mainuddin**
Noriega, R. J. *see* **Castagnino, Mario A.; et al., 93b:83030**
Page, Don N. Minisuperspaces with conformally and minimally coupled scalar fields. **93b:83035**
Parry, J. Linearized stochastic perturbations during chaotic inflation. (English summary) **93h:83025**
Peleg, Yoav *see* **Levin, Orit; et al., 93m:83043**
Peres, Asher *see* **Levin, Orit; et al., 93m:83043**
Pimentel, Luis O. The Klein-Gordon equation in some anisotropic cosmologies. (English summary) **93k:83041**
Preskill, John Quantum hair. **93f:83051**
Red'kov, V. M. Degrees of freedom for a spin 3/2 field in the de Sitter world, and separation of variables in static coordinates. (Russian. English and Russian summaries) **93j:83048**
Rogers, Barrett (*with* Isaacson, Jeffrey A.) The stability of de Sitter space with a scalar quantum field. II. The linear analysis. **93d:83040**
Rylov, Yu. A. Non-Riemannian model of the space-time responsible for quantum effects. **93c:83067**
Sánchez, Norma *see* **Loustó, C. O., 93k:83039**
dos Santos, Ivonete B. *see* **Bezerra, Valdir B., 93b:83029**
Schifini, G. *see* **Castagnino, Mario A.; et al., 93b:83030**
Shiraishi, Kiyoshi (*with* Hirenzaki, Satoru) Quantum aspects of self-interacting fields around cosmic strings. (English summary) **93f:83052**
— Superradiance from a charged dilaton black hole. (English summary) **93j:83049**
Sivaram, C. *see* **De Sabbata, Venzo, 93j:83044**
Skagerstam, Bo-Sture *see* **Elmfors, Per, 93e:83039**
Skarzhinskii, V. D. *see* **Harari, Diego D., (93b:83004)**
Soleng, Harald H. *see* **Grøn, Øyvind, 93b:83032**
Sudarsky, Daniel *see* **Higuchi, Atsushi; et al., 93f:83049**
Unruh, W. G. Thermal bath and decoherence of Rindler spacetimes. (English summary) **93g:83057**
Verdaguer, E. *see* **Campos, A., 93c:83065**
Vilenkin, Alexander *see* **Garriga, Jaume, 93b:83031**
Wald, Robert M. Vacuum states in spacetimes with Killing horizons. (*see* **93d:83003**)
— Correlations beyond the horizon. (English summary) **93k:83042**
Zerbini, Sergio *see* **Bytsenko, A. A., 93i:83053**
Zhang, Zhen Jiu (*with* Huang, Huan Ran; Bao, Gong; He, Chang Bai) Quantum mechanics of black holes in curved space-time. (*see* **93d:83003**)
Zhao, Zheng (*with* Liu, Liao) Unruh thermal fields are gauge fields. (Chinese. English and Chinese summaries) **93h:83026**
— *see also* **Meng, Xiao Dong, 93g:83056**

Items with secondary classifications in 83C47

Anderson, Warren G. (*with* Brady, Patrick R.; Camporesi, Roberto) Vacuum polarization and the black hole singularity. (English summary) **93k:83044**
— (*with* Brady, Patrick R.; Israel, Werner; Morsink, Sharon M.) Quantum effects in black hole interiors. (English summary) **93j:83052**
Audretsch, Jürgen Mutually interacting quantum fields in curved space-times: the outcome of physical processes. (*see* **93d:83003**)
— *see also* **Quantum mechanics in curved space-time, 93d:83003**
Bandyopadhyay, N. Partition functions for quantized fields in curved space-times. **93d:81124**
Banks, Thomas (*with* Dabholkar, A.; Douglas, M. R.; O'Loughlin, M.) Are horned particles the end point of Hawking evaporation? **93b:83042**
Bellucci, Stefano (*with* O'Reilly, D.) Wormholes and charged particles. **93e:81083**
Berezin, V. A. On a quantum mechanical model of a black hole. **93c:83073**
Blencowe, Miles The consistent histories interpretation of quantum fields in curved spacetime. **93i:81158**
Bombelli, Luca (*with* Gunzig, Edgard; Nesteruk, A. V.) Renormalization, the trace anomaly and spacetime anisotropy. (English summary) **93g:81102**
Borgohain, P. *see* **Krori, K. D.; et al., 93c:83075** *and* **93g:83065**
von Borzeszkowski, Horst-Heino Uncertainty and equivalence principles in quantum general relativity. **93d:83029**
Brady, Patrick R. *see* **Anderson, Warren G.; et al., 93j:83052** *and* **93k:83044**
Brout, R. *see* **Parentani, R., 93j:83056**
Bukhbinder, I. L. (*with* Odintsov, S. D.; Shapiro, I. L.) ★ Effective action in quantum gravity. **93i:83044**
Camporesi, Roberto *see* **Anderson, Warren G.; et al., 93k:83044**
Castagnino, Mario A. (*with* Ferraro, Rafael; Sztrajman, Jorge) Hamiltonian diagonalization in curved space. **93i:81163**
Coleman, Sidney (*with* Preskill, John; Wilczek, Frank) Quantum hair on black holes. **93m:83050**
Cummins, C. J. *see* **Fulling, Stephen A.; et al., 93j:53084**
Dabholkar, A. *see* **Banks, Thomas; et al., 93b:83042**
Dai, Xian Xin (*with* Zhao, Zheng) The event horizon and temperature of an evaporating black hole with spherically symmetric charge. (Chinese. English and Chinese summaries)
— *see also* **Zhao, Zheng, 93f:83065**
Das, Dipali *see* **Krori, K. D.; et al., 93c:83075** *and* **93g:83065**
De Bièvre, Stephan (*with* El Gradechi, Amine M.) Quantum mechanics and coherent states on the anti-de Sitter spacetime and their Poincaré contraction. (English and French summaries) **93m:81053**
De Sabbata, Venzo *see* **Sivaram, C., (93d:83003)** *and* **Quantum mechanics in curved space-time, 93d:83003**
Dorofeev, V. Yu. *see* **Grib, A. A., (93b:83004)**
Douglas, M. R. *see* **Banks, Thomas; et al., 93b:83042**
El Gradechi, Amine M. *see* **De Bièvre, Stephan, 93m:81053**
Ferraro, Rafael *see* **Castagnino, Mario A.; et al., 93i:81163**
Ferrell, Robert C. *see* **Traschen, Jennie, 93d:83050**
Folacci, A. Two-point functions and stress-energy tensors of p-forms in de Sitter and anti-de Sitter spaces. **93i:81164a**
— Erratum: "Two-point functions and stress-energy tensors of p-forms in de Sitter and anti-de Sitter spaces". **93i:81164b**
Ford, L. H. Inequalities which constrain negative energy in quantum field theory. **93c:81147**
— (*with* Roman, Thomas A.) "Cosmic flashing" in four dimensions. (English summary) **93i:83067**
Frolov, V. P. Particle creation and vacuum polarization near black holes. (*see* **93d:83003**)
Fulling, Stephen A. (*with* King, Ronald Curtis; Wybourne, B. G.; Cummins, C. J.) Normal forms for tensor polynomials. I. The Riemann tensor. **93j:53084**
Goldberg, Joshua N. Quantized self-dual Maxwell field on a null surface. **93e:81142**
Goldwirth, Dalia S. (*with* Perry, Malcolm J.; Piran, Tsvi) The breakdown of quantum mechanics in the presence of time machines. (English summary)
González-Díaz, Pedro F. Regaining quantum incoherence for matter fields. **93b:83023**
Grib, A. A. (*with* Dorofeev, V. Yu.) Quantum theory of particles with Planckean masses. (*see* **93b:83004**)
Gui, Yuan Xing Fermion fields in η-ξ spacetime. **93c:81148**
— η-ξ spacetime and thermofields. (English summary) **93g:81111**
Gunzig, Edgard *see* **Bombelli, Luca; et al., 93g:81102**
Harms, B. (*with* Leblanc, Y.) Statistical mechanics of black holes. (English summary) **93e:83044**
— (*with* Leblanc, Y.) Statistical mechanics of extended black objects. (English summary) **93k:83050**
Hawking, Stephen W. Wormholes in dimensions 1–4. **93d:83068**
't Hooft, Gerard The black hole horizon as a quantum surface. **93c:83074**
Hortaçsu, M. Singularities with C^0 metrics. **93b:81186**
Hosoya, Akio Stochastic quantum gravity—$(2+1)$-dimensional case. **93b:81187**
Huang, Wung Hong Hawking radiation of a quantum black hole in an inflationary universe. **93f:83057**
Israel, Werner *see* **Anderson, Warren G.; et al., 93j:83052**
Jensen, Bjørn Production of quantum particles on cones. **93c:81149**
Jermyn, I. H. Self-consistent compactification at finite temperature on $\mathbf{R} \times S^5 \times S^3$. **93c:81150**
Kamenshchik, A. Yu. (*with* Mishakov, I. V.) ζ-function technique for quantum cosmology: the contributions of matter fields to the Hartle-Hawking wave function of the Universe. **93f:83041**
Kay, Bernard S. (*with* Wald, Robert M.) Theorems on the uniqueness and thermal properties of stationary, nonsingular, quasifree states on spacetimes with a bifurcate Killing horizon. **93b:81189**
Khrustalev, O. A. *see* **Silaev, P. K., 93i:81171**
King, Ronald Curtis *see* **Fulling, Stephen A.; et al., 93j:53084**
Krori, K. D. (*with* Borgohain, P.; Das, Dipali) Quantum effects near a charged black hole singularity. **93c:83075**
— (*with* Borgohain, P.; Das, Dipali) Quantum effects near the black hole singularity in Kruskal space-time. (English summary) **93g:83065**
Leblanc, Y. *see* **Harms, B., 93e:83044** *and* **93k:83050**
Lee, C. F. P. Effects of Hawking radiation on black-hole–cosmic-string systems. (English summary)
Lee, Kimyeong (*with* Nair, V. P.; Weinberg, Erick J.) The fate of magnetically charged black holes. (English summary) **93k:83051**
Li, Li Xin (*with* Liu, Liao) Properties of radiation near the black-hole horizon and the second law of thermodynamics. (English summary) **93g:83067**
Linde, A. D. Inflationary cosmology. **93c:83126**
Liu, Liao *see* **Li, Li Xin, 93g:83067**
Loskutov, Yu. M. A conjecture on the P-odd contribution to gravitational interactions and its consequences. (Russian. English and Russian summaries) **93k:81158**
Lowe, David A. Semiclassical approach to black hole evaporation. (English summary)
Maischak, Matthias The gravitational anomalies in de Sitter space. (English summary) **93g:81182**
Mann, Robert B. (*with* Tarasov, Lev Koozma; Zel'nikov, A. I.) Brick walls for black holes. **93f:83058**
— (*with* Steele, T. G.) Thermodynamics and quantum aspects of black holes in $(1+1)$ dimensions. **93g:83068**
Mignemi, Salvatore Classical and quantum motion in an Eguchi-Hanson space. **93b:83007**
Mishakov, I. V. *see* **Kamenshchik, A. Yu., 93f:83041**
Morsink, Sharon M. *see* **Anderson, Warren G.; et al., 93j:83052**
Nair, V. P. *see* **Lee, Kimyeong; et al., 93k:83051**
Nesteruk, A. V. *see* **Bombelli, Luca; et al., 93g:81102**
Odintsov, S. D. (*with* Shapiro, I. L.) General relativity as the low-energy limit in higher derivative quantum gravity. **93g:83054**
— *see also* **Bukhbinder, I. L.; et al., 93i:83044**
Ohnishi, Kouji (*with* Takagi, Shin) Rindler noise in the flat spacetime with a boundary. I. (English summary) **93k:81159**
O'Loughlin, M. *see* **Banks, Thomas; et al., 93b:83042**
O'Reilly, D. *see* **Bellucci, Stefano, 93e:81083**
Padmanabhan, T. (*with* Singh, Tejinder Pal) A comparison of various approaches to the back-reaction problem. (English summary) **93i:81168**
Page, Don N. The arrow of time. (*see* **93h:81003**)
Parentani, R. (*with* Brout, R.) Physical interpretation of black hole evaporation as a vacuum instability. (English summary) **93j:83056**
Percacci, R. (*with* Russo, Jorge G.) On the propagation of quantum fields at Planckian energies. **93e:83038**

Percoco, U. (*with* Villalba, Víctor M.) Particle creation in a noninertial frame associated to a nondiagonal metric. **93c:81153**
Perry, Malcolm J. *see* **Goldwirth, Dalia S.; et al.**
Piran, Tsvi *see* **Goldwirth, Dalia S.; et al.**
Ponce de León, J. Cosmological models that describe particle creation in the early universe and evolve into the "present-day" universe. **93d:83074**
Preskill, John *see* **Coleman, Sidney; et al., 93m:83050**
Pronin, P. I. Renormalization of field theories in Riemann-Cartan space-time. (*see* **93d:83003**)
Rabello, S. J. (*with* Vaidya, A. N.) Evaluation of Schwinger-de Witt kernels for spin-$\frac{1}{2}$ fields through the SO(2, 1) Lie algebra. (English summary) **93h:81095**
Roman, Thomas A. *see* **Ford, L. H., 93i:83067**
Roy, Sisir Stochastic geometry, random zero point field and quantum correction to the metric. **93h:81019**
Russo, Jorge G. (*with* Susskind, Leonard; Thorlacius, Lárus) End point of Hawking radiation. (English summary) **93f:83061**
— *see also* **Percacci, R., 93e:83038**
Sakellariadou, María Semiclassical effects and the onset of inflation. (English summary) **93m:83006**
Salehi, Hadi Hawking radiation and Planck scales. (English summary) **93j:83058**
Sánchez, Norma Field and string quantization in curved space-times. (*see* **93e:81005**)
— Quantum strings in curved space times. (*see* **93d:83003**)
— *see also* **de Vega, H. J., 93b:83061**
Schiffer, M. The possible role of event-horizons in quantum gravity. **93c:83079**
Segal, Irving E. (*with* Zhou, Zheng-Fang) Convergence of nonlinear massive quantum field theory in the Einstein universe. (English summary) **93i:81170**
Shapiro, I. L. *see* **Odintsov, S. D., 93g:83054** *and* **Bukhbinder, I. L.; et al., 93i:83044**
Silaev, P. K. (*with* Khrustalev, O. A.) A connection between fields, quantized in overlapping regions, and the Unruh effect. (Russian. English and Russian summaries) **93i:81171**
Singh, Tejinder Pal *see* **Padmanabhan, T., 93i:81168**
Sivaram, C. (*with* De Sabbata, Venzo) Inflation with massive spin-2 field in curved space-time. (*see* **93d:83003**)
Sokolov, I. Yu. Anisotropy of cosmic background radiation and initial conditions for quantum inflaton field. **93a:83042**
Steele, T. G. *see* **Mann, Robert B., 93g:83068**
Susskind, Leonard (*with* Thorlacius, Lárus) Hawking radiation and back-reaction. (English summary) **93f:83062**
— *see also* **Russo, Jorge G.; et al., 93f:83061**
Sztrajman, Jorge *see* **Castagnino, Mario A.; et al., 93i:81163**
Takagi, Shin *see* **Ohnishi, Kouji, 93k:81159**
Tarasov, Lev Koozma *see* **Mann, Robert B.; et al., 93f:83058**
Thorlacius, Lárus *see* **Russo, Jorge G.; et al., 93f:83061** *and* **Susskind, Leonard, 93f:83062**
Tomimatsu, Akira Evaporating black holes in quantum gravity. (English summary) **93g:83074**
Traschen, Jennie (*with* Ferrell, Robert C.) Quantum-mechanical scattering of charged black holes. **93d:83050**
Trivedi, Sandip P. Semiclassical extremal black holes. (English summary) **93m:83059**
Umezawa, H. Origin of nonquantum noise and time dependent thermofield dynamics. **93b:82050**
Vaidya, A. N. *see* **Rabello, S. J., 93h:81095**
de Vega, H. J. (*with* Sánchez, Norma) Mass and energy-momentum tensor of quantum strings in gravitational shock-waves. **93b:83061**
Venturi, G. Fluctuations in the matter-gravity system. **93b:83028**
Villalba, Víctor M. *see* **Percoco, U., 93c:81153**
Visser, Matt From wormhole to time machine: remarks on Hawking's chronology protection conjecture. (English summary) **93j:83064**
Wald, Robert M. *see* **Kay, Bernard S., 93b:81189**
Weinberg, Erick J. *see* **Lee, Kimyeong; et al., 93k:83051**
Wilczek, Frank *see* **Coleman, Sidney; et al., 93m:83050**
Wybourne, B. G. *see* **Fulling, Stephen A.; et al., 93j:53084**
Zel'nikov, A. I. *see* **Mann, Robert B.; et al., 93f:83058**
Zhao, Zheng (*with* Dai, Xian Xin) A new method dealing with Hawking effects of evaporating black holes. **93f:83065**
— *see also* **Dai, Xian Xin**
Zhou, Zheng-Fang *see* **Segal, Irving E., 93i:81170**

Items listed otherwise than by author

Erice ★ Quantum mechanics in curved space-time. **93d:83003**
NATO Advanced Research Workshop:
Quantum Mechanics in Curved Space-Time ★ Quantum mechanics in curved space-time. **93d:83003**
Quantum mechanics in curved space-time ★ Quantum mechanics in curved space-time. **93d:83003**

83C50 Electromagnetic fields

Alexander, Francis J. (*with* Gerlach, Ulrich H.) Coulomb field of an accelerated charge: physical and mathematical aspects. **93a:83022**
Crupi, Giovanni On the relativistic formulation of electrodynamics in matter in general relativity. (Italian) **93b:83036**
Garcia de Andrade, L. C. Torsion, massive electrodynamics and gravitation induced by scalar fields. (English summary) **93g:83058**
Gerlach, Ulrich H. *see* **Alexander, Francis J., 93a:83022**
Hoffend, T. R., Jr. (*with* Kaul, Raj K.) Relativistic theory of superpotentials for a nonhomogeneous spatially isotropic medium. (English summary) **93g:83059**
Iskhakov, I. F. Electromagnetic field equations in a chronometrically radially invariant formulation of the general theory of relativity. (Russian)
Kalnins, E. G. (*with* McLenaghan, R. G.; Williams, Graeme C.) Symmetry operators for Maxwell's equations on curved space-time. (English summary) **93j:83050**
Kaul, Raj K. *see* **Hoffend, T. R., Jr., 93g:83059**
Li, Jian Zeng A higher-dimensional Vaidya-like space-time with electromagnetic fields and nonzero cosmological constant. (Chinese. English and Chinese summaries) **93m:83044**
Lozada, Abraham Multipole in an external electromagnetic field. **93e:83040**
Magnon, Anne Ashtekar variables and unification of gravitational and electromagnetic interactions. **93a:83023**
McLenaghan, R. G. *see* **Kalnins, E. G.; et al., 93j:83050**
Noonan, Thomas W. Electromagnetic tail radiation in nonflat spacetimes. (English summary) **93m:83045**
Tolksdorf, Jürgen The generalized radiation gauge in curved space-time. **93h:83027**
Williams, Graeme C. *see* **Kalnins, E. G.; et al., 93j:83050**

Items with secondary classifications in 83C50

Ashtekar, Abhay (*with* Rovelli, Carlo) A loop representation for the quantum Maxwell field. **93h:83021**
Bachelot, Alain Scattering of electromagnetic field by de Sitter-Schwarzschild black hole. (*see* **93d:35003**)
Bagrov, V. G. (*with* Obukhov, V. V.; Sakhapov, A. G.) Stäckel electrovacuum spaces that admit complete separation of variables in a diagonalized Dirac equation. Type (2.1). (Russian)
Bandyopadhyay, N. Partition functions for quantized fields in curved space-times. **93d:81124**
Elbaz, E. *see* **Novello, M., 93m:81158**
Gerlach, Ulrich H. Cavity quantum-electrodynamical response to a gravitational wave. (English summary) **93i:83037**
Lee, Kimyeong (*with* Nair, V. P.; Weinberg, Erick J.) The fate of magnetically charged black holes. (English summary) **93k:83051**
Man'ko, V. S. (*with* Sibgatullin, N. R.) Kerr-Newman metric endowed with magnetic dipole moment. (English summary) **93k:83013**
Nair, V. P. *see* **Lee, Kimyeong; et al., 93k:83051**
Novello, M. (*with* Elbaz, E.) Electrodynamics, gravity and the corresponding short-range Fermi forces. (English summary) **93m:81158**
Obukhov, V. V. *see* **Bagrov, V. G.; et al.**
Rovelli, Carlo *see* **Ashtekar, Abhay, 93h:83021**
Sakhapov, A. G. *see* **Bagrov, V. G.; et al.**
Shu, Wei-Tong Global existence of Maxwell-Higgs fields. **93h:81092**
Sibgatullin, N. R. *see* **Man'ko, V. S., 93k:83013**
Srivastava, Y. (*with* Widom, A.) Gravitational diamagnetism. **93b:83017**
Weinberg, Erick J. *see* **Lee, Kimyeong; et al., 93k:83051**
Widom, A. *see* **Srivastava, Y., 93b:83017**
Wolf, Carl Anton A charged fluid sphere in D space-time dimensions with vanishing normal pressure. (English and French summaries)

83C55 Macroscopic interaction of the gravitational field with matter (hydrodynamics, etc.)

Anile, A. M. Causality and dissipation phenomena in relativity. (Italian) **93c:83068**
Apostolatos, Theocharis A. (*with* Thorne, Kip S.) Rotation halts cylindrical, relativistic gravitational collapse. (English summary) **93f:83053**
Banerjee, Asit Kumar (*with* Dutta Choudhury, S. B.; Chatterjee, Sujit) Nonstatic perfect fluid sphere in higher-dimensional space-time. (English summary) **93g:83060**
Barrow, John D. (*with* Saich, Paul) Gravitational collapse of rotating pancakes. (English summary) **93j:83051**
Beig, R. (*with* Simon, Walter) On the spherical symmetry of static perfect fluids in general relativity. **93b:83037**
Biech, T. *see* **Das, Anadijiban, 93c:83069**
Blandford, R. T. Gravitational lenses: theory and interpretation. (*see* **93b:83002**)
Bray, Marcel Univers magnétohydrodynamiques à symétrie plane. (English summary) [Magnetohydrodynamical universes with plane symmetry] **93d:83041**
Carter, Brandon (*with* Khalatnikov, I. M.) Momentum, vorticity, and helicity in covariant superfluid dynamics. (English summary) **93m:83046**
— (*with* Khalatnikov, I. M.) Equivalence of convective and potential variational derivations of covariant superfluid dynamics. **93g:83061**
Chakraborty, Subenoy (*with* Nandy, Gopal Chandra) Spatially homogeneous cosmological model in viscous fluid with heat flux and magnetic field. (English summary) **93e:83041**
Chan, Roberto (*with* Herrera, L.; Santos, N. O.) Dynamical instability in the collapse of anisotropic matter. (English summary) **93f:83054**
Chatterjee, Sujit *see* **Banerjee, Asit Kumar; et al., 93g:83060**
Chmielowski, Piotr Matching and junction conditions in the Poincaré gauge theory of gravity with quadratic Lagrangian. (English summary) **93m:83047**
Choquet-Bruhat, Yvonne Cosmological Yang-Mills hydrodynamics. **93a:83024**
Cornish, N. J. (*with* Frankel, Norman E.) Universal mass in 2 + 1 dimensions. (English summary) **93m:83048**
Das, Anadijiban (*with* Biech, T.) Collapse of a spherically symmetric anisotropic fluid in general relativity. **93c:83069**
De Sabbata, Venzo (*with* Sivaram, C.) Curvature from spin. (English summary) **93i:83055**
Dinariev, O. Yu. The propagation of a signal in a relativistic fluid with viscosity and heat conduction. (Russian. Russian summary) **93i:83056**
Dutta Choudhury, S. B. *see* **Banerjee, Asit Kumar; et al., 93g:83060**
Feinstein, Alexander (*with* Ibañez, J.) Potential flow around a massless particle in general relativity. (English summary) **93i:83057**
Frankel, Norman E. *see* **Cornish, N. J., 93m:83048**
Goswami, D. *see* **Krori, K. D., 93d:83042**
Grammenos, Th. (*with* Kolassis, Ch.) An analytic model of radiating spherical gravitational collapse. (English summary) **93g:83062**
Harleston L., Hugh (*with* Vishniac, Ethan T.) Numerical treatment of the spherically symmetric general-relativistic Boltzmann equation for massless and massive particles. **93c:83070**
Herrera, L. *see* **Chan, Roberto; et al., 93f:83054**
Ibañez, J. *see* **Feinstein, Alexander, 93i:83057**

Kakizaki, Jun-ichi (*with* Kasai, Masumi) The structure of rotating relativistic star. **93c:83071**
Kasai, Masumi *see* **Kakizaki, Jun-ichi, 93c:83071**
Khalatnikov, I. M. *see* **Carter, Brandon, 93g:83061** *and* **93m:83046**
Kijowski, Jerzy *see* **Magli, Giulio, 93c:83072**
Kolassis, Ch. *see* **Grammenos, Th., 93g:83062**
Konno, Shigelu *see* **Oshiro, Yoshimi; et al., 93k:83043**
Krori, K. D. (*with* Goswami, D.) A multipolar stationary object embedded in a gravitational field. **93d:83042**
Magli, Giulio (*with* Kijowski, Jerzy) A generalization of the relativistic equilibrium equations for a nonrotating star. **93c:83072**
Nakamura, Kouji *see* **Oshiro, Yoshimi; et al., 93k:83043**
Nandy, Gopal Chandra *see* **Chakraborty, Subenoy, 93e:83041**
Obozov, V. I. On a class of spherically symmetric fields of an ideal fluid. (Russian. Russian summary) **93h:83028**
Oshiro, Yoshimi (*with* Konno, Shigelu; Nakamura, Kouji; Tomimatsu, Akira) Evaporation of a collapsing shell with scalar field production. (English summary) **93k:83043**
Priou, Denis The perturbations of a fully general relativistic and rapidly rotating neutron star. I. Equations of motion for the solid crust. **93d:83043**
Rendall, A. D. The initial value problem for a class of general relativistic fluid bodies. **93b:83038**
Saich, Paul *see* **Barrow, John D., 93j:83051**
Salopek, D. S. (*with* Stewart, John Malcolm) Cosmological fluids as time variables in general relativity. (English summary) **93m:83049**
Santos, N. O. *see* **Chan, Roberto; et al., 93f:83054**
Simon, Walter *see* **Beig, R., 93b:83037**
Sivaram, C. *see* **De Sabbata, Venzo, 93i:83055**
Stewart, John Malcolm *see* **Salopek, D. S., 93m:83049**
Thorne, Kip S. *see* **Apostolatos, Theocharis A., 93f:83053**
Tomimatsu, Akira *see* **Oshiro, Yoshimi; et al., 93k:83043**
Vishniac, Ethan T. *see* **Harleston L., Hugh, 93c:83070**
Wang, An Zhong Plane walls interacting with gravitational waves and matter fields. **93b:83039**
— Dynamics of plane-symmetric thin walls in general relativity. **93b:83040**

Items with secondary classifications in 83C55

Anile, A. M. (*with* Pennisi, Sebastiano; Sammartino, Marco) Covariant radiation hydrodynamics. (French summary) **93a:85001**
Banerjee, Asit Kumar *see* **Raychaudhuri, A. K.; et al., 93j:83001**
Banerji, S. *see* **Raychaudhuri, A. K.; et al., 93j:83001**
Crupi, Giovanni On the relativistic formulation of electrodynamics in matter in general relativity. (Italian) **93b:83036**
Duggal, K. L. Curvature inheritance symmetry in Riemannian spaces with applications to fluid space times. (English summary) **93j:83031**
Ekiel-Jeżewska, Maria L. (*with* Turski, L. A.) Relativistic hydrodynamics. **93e:76070**
Gokhroo, M. K. *see* **Mehra, A. L., 93j:83019**
Knutsen, Henning Physical properties of an exact spherically symmetric solution with shear in general relativity. (English summary) **93k:83011**
Leach, P. G. L. (*with* Maharaj, S. D.) A first integral for a class of time-dependent anharmonic oscillators with multiple anharmonicities. **93d:34066**
Leihkauf, H. *see* **Treder, Hans-Jürgen, 93m:83066**
Li, Jiang Fan Interior solutions of a static charged perfect fluid sphere in general relativity. (Chinese. Chinese summary) **93f:83014**
Maharaj, S. D. *see* **Leach, P. G. L., 93d:34066**
Mehra, A. L. (*with* Gokhroo, M. K.) Sphere of variable densities in general relativity. (English summary) **93j:83019**
Melfo, A. (*with* Rago, H.) Conformally flat solutions to the Einstein-Maxwell equations. (English summary) **93g:83032**
de Oliveira, H. P. Spinning fluids in the Einstein-Cartan theory: a variational formulation. (English summary) **93k:83064**
Pennisi, Sebastiano *see* **Anile, A. M.; et al., 93a:85001**
Ponce de León, J. Cosmological models that describe particle creation in the early universe and evolve into the "present-day" universe. **93d:83074**
Rago, H. *see* **Melfo, A., 93g:83032**
Raychaudhuri, A. K. (*with* Banerji, S.; Banerjee, Asit Kumar) ★ General relativity, astrophysics, and cosmology. **93j:83001**
Rogava, A. D. General co-moving frames in stationary and axisymmetric metrics. **93c:83023**
Sammartino, Marco *see* **Anile, A. M.; et al., 93a:85001**
Senovilla, José M. M. New family of stationary and axisymmetric perfect-fluid solutions. (English summary) **93g:83026**
Srivastava, D. C. Exact solutions for shear-free motion of spherically symmetric charged perfect fluid distributions in general relativity. **93e:83027**
Strumia, Alberto Lagrangians and relativistic fluids. **93c:76088**
Treder, Hans-Jürgen (*with* Leihkauf, H.) The "Euler"-limit of GRT. (English summary) **93m:83066**
Turski, L. A. *see* **Ekiel-Jeżewska, Maria L., 93e:76070**
Wang, An Zhong On the interaction of bubbles with gravitational and matter fields. **93c:83027**
— Dynamics of plane-symmetric thin walls in general relativity. **93b:83040**
Wolf, Carl Anton Cosmic strings and viscous matter in a Kantowski-Sachs universe. (English summary) **93m:83086**

83C57 Black holes

Abrahams, Andrew M. *see* **Cook, Gregory B.**
de Alwis, S. P. Comments on no-hair theorems and stability of black holes. **93b:83041**
Anderson, Warren G. (*with* Brady, Patrick R.; Camporesi, Roberto) Vacuum polarization and the black hole singularity. (English summary) **93k:83044**
— (*with* Brady, Patrick R.; Israel, Werner; Morsink, Sharon M.) Quantum effects in black hole interiors. (English summary) **93j:83052**
Andersson, Nils (*with* Linnaeus, Staffan) Quasinormal modes of a Schwarzschild black hole: improved phase-integral treatment. (English summary) **93f:83055**
— A numerically accurate investigation of black-hole normal modes. (English summary) **93i:83058**
Bachelot, Alain Scattering of electromagnetic field by de Sitter-Schwarzschild black hole. (*see* **93d:35003**)
Bañados, Máximo (*with* Teitelboim, Claudio; Zanelli, Jorge) Black hole in three-dimensional spacetime. (English summary) **93e:83042**
Banks, Thomas (*with* Dabholkar, A.; Douglas, M. R.; O'Loughlin, M.) Are horned particles the end point of Hawking evaporation? **93b:83042**
Bao, G. *see* **Stuchlík, Z., 93g:83073**
Berezin, V. A. On a quantum mechanical model of a black hole. **93c:83073**
Blackburn, James Kent (*with* Detweiler, Steven) Close black-hole binary systems. (English summary) **93e:83043**
Borgohain, P. *see* **Krori, K. D.; et al., 93c:83075** *and* **93g:83065**
Brady, Patrick R. *see* **Anderson, Warren G.; et al., 93j:83052** *and* **93k:83044**
Brout, R. *see* **Parentani, R., 93j:83056**
(Cadoni, Mariano) *see* **Wiltshire, David L., 93k:83052**
Camporesi, Roberto *see* **Anderson, Warren G.; et al., 93k:83044**
Carlini, A. (*with* Fucito, F.; Martellini, Maurizio) On the stability of a stringy black hole. (English summary) **93k:83045**
Chandrasekhar, Subrahmanyan ★ The mathematical theory of black holes. **93k:83046**
Chruściel, Piotr T. (*with* Singleton, David B.) Nonsmoothness of event horizons of Robinson-Trautman black holes. **93i:83059**
Coleman, Sidney (*with* Preskill, John; Wilczek, Frank) Quantum hair on black holes. **93m:83050**
Cook, Gregory B. (*with* Abrahams, Andrew M.) Horizon structure of initial-data sets for axisymmetric two-black-hole collisions.
Dabholkar, A. *see* **Banks, Thomas; et al., 93b:83042**
Dai, Xian Xin (*with* Zhao, Zheng) The event horizon and temperature of an evaporating black hole with spherically symmetric charge. (Chinese. English and Chinese summaries)
— *see also* **Zhao, Zheng, 93f:83065**
Das, Dipali *see* **Krori, K. D.; et al., 93c:83075** *and* **93g:83065**
D'Eath, P. D. (*with* Payne, P. N.) Gravitational radiation in black-hole collisions at the speed of light. I. Perturbation treatment of the axisymmetric collision. **93j:83053**
— (*with* Payne, P. N.) Gravitational radiation in black-hole collisions at the speed of light. II. Reduction to two independent variables and calculation of the second-order news function. **93j:83054**
— (*with* Payne, P. N.) Gravitational radiation in black-hole collisions at the speed of light. III. Results and conclusions. **93j:83055**
De Sabbata, Venzo (*with* Sivaram, C.) The final state of an evaporating black hole and the dimensionality of the space-time. (*see* **93d:83003**)
Detweiler, Steven *see* **Blackburn, James Kent, 93e:83043**
Douglas, M. R. *see* **Banks, Thomas; et al., 93b:83042**
Droz, Serge *see* **Heusler, Markus; et al.**
Fang, Li Zhi Absorption cross section of a mini black hole. (*see* **93d:83003**)
Ferrell, Robert C. *see* **Traschen, Jennie, 93d:83050**
Frolov, V. P. Particle creation and vacuum polarization near black holes. (*see* **93d:83003**)
Fucito, F. *see* **Carlini, A.; et al., 93k:83045**
Galloway, Gregory J. On the topology of black holes. (English summary) **93k:83047**
Gal'tsov, D. V. (*with* Volkov, M. S.) Instability of Einstein-Yang-Mills black holes. **93d:83044**
Greene, Brian R. (*with* Mathur, Samir D.; O'Neill, Christopher M.) Eluding the no-hair conjecture: black holes in spontaneously broken gauge theories. (English summary) **93k:83048**
Gregory, Ruth (*with* Harvey, Jeffrey A.) Quantum fermion hair. (English summary) **93f:83056**
— (*with* Harvey, Jeffrey A.) Black holes with a massive dilaton. (English summary) **93m:83051**
(Guinn, J. W.) *see* **Leaver, Edward W., 93g:83066**
Gurin, V. S. (*with* Trofimenko, A. P.) Many-dimensional (complex) representation of extended manifolds and monopoles in extended relativity. (English summary) **93m:83052**
Gürses, Metin Signatures of black holes in string theory. (English summary) **93k:83049**
Harms, B. (*with* Leblanc, Y.) Statistical mechanics of black holes. (English summary) **93e:83044**
— (*with* Leblanc, Y.) Statistical mechanics of extended black objects. (English summary) **93k:83050**
Harvey, Jeffrey A. *see* **Gregory, Ruth, 93f:83056** *and* **93m:83051**
Hawking, Stephen W. Evaporation of two-dimensional black holes. **93g:83063**
Hayward, Sean A. Trapping and completeness of a light-cone. (English summary) **93g:83064**
Heusler, Markus (*with* Droz, Serge; Straumann, Norbert) Linear stability of Einstein-Skyrme black holes.
— Staticity and uniqueness of multiple black hole solutions of σ-models. (English summary) **93m:83053**
Holzhey, Christoph F. E. (*with* Wilczek, Frank) Black holes as elementary particles. (English summary) **93d:83045**
't Hooft, Gerard Black hole quantization and a connection to string theory. **93e:83045**
— More on the black hole S-matrix. **93d:83046**
— The black hole horizon as a quantum surface. **93c:83074**
Huang, Wung Hong Hawking radiation of a quantum black hole in an inflationary universe. **93f:83057**
Israel, Werner *see* **Anderson, Warren G.; et al., 93j:83052**
Kaburaki, Osamu (*with* Okamoto, Isao; Katz, Joseph) Thermodynamic stability of Kerr black holes. (English summary) **93m:83054**
Kallosh, Renata Supersymmetric black holes. **93b:83043**
— (*with* Peet, Amanda) Dilaton black holes near the horizon. (English summary) **93i:83060**

Karas, Vladimír (*with* Vokrouhlický, David) Dynamics of charged particles near a black hole in a magnetic field. (English summary)
Katz, Joseph *see* **Kaburaki, Osamu; et al., 93m:83054**
(Kojima, Yasufumi) *see* **Leaver, Edward W., 93g:83066**
Krori, K. D. (*with* Borgohain, P.; Das, Dipali) Quantum effects near a charged black hole singularity. **93c:83075**
— (*with* Borgohain, P.; Das, Dipali) Quantum effects near the black hole singularity in Kruskal space-time. (English summary) **93g:83065**
Künzle, H. P. More colored black holes. **93c:83076**
Lahiri, Amitabha An alternative scenario for nonabelian quantum hair. (English summary) **93m:83055**
Lanza, Antonio Multigrid in general relativity. II. Kerr spacetime. **93b:83044**
Larsen, A. L. Charged cosmic string near a black hole. **93d:83047**
Léauté, B. *see* **Pons, Roland; et al., 93g:83070**
Leaver, Edward W. Comment on: "High-overtone normal modes of Schwarzschild black holes" [Classical Quantum Gravity **7** (1990), no. 2, L47–L53; MR 90m:83034] by J. W. Guinn, C. M. Will, Y. Kojima and B. F. Schutz. **93g:83066**
Leblanc, Y. *see* **Harms, B., 93e:83044** *and* **93k:83050**
Lee, C. F. P. Thermodynamics of charged black holes attached to cosmic strings. (English summary) **93i:83061**
— Effects of Hawking radiation on black-hole–cosmic-string systems. (English summary)
Lee, Kimyeong (*with* Nair, V. P.; Weinberg, Erick J.) The fate of magnetically charged black holes. (English summary) **93k:83051**
Li, Li Xin (*with* Liu, Liao) Properties of radiation near the black-hole horizon and the second law of thermodynamics. (English summary) **93g:83067**
Li, Yuan Jie (*with* Wang, Da Zhi) Fermions and Schwarzschild black holes. (Chinese. English summary)
— Entropy variation in the collapsing process caused by self-gravitation. (Chinese. English summary) **93b:83045**
Linnaeus, Staffan *see* **Andersson, Nils, 93f:83055**
Liu, Hong Ya (*with* Wesson, Paul S.) Exact solutions of general relativity derived from 5-D "black hole" solutions of Kaluza-Klein theory. (English summary) **93i:83062**
Liu, Liao *see* **Li, Li Xin, 93g:83067**
Louko, Jorma (*with* Whiting, Bernard F.) Energy spectrum of a quantum black hole. **93c:83077**
Lowe, David A. Semiclassical approach to black hole evaporation. (English summary)
Lu, Ju Fu (*with* Wei, Chun Yan) Orbits of fluid elements accreting onto a black hole. (English summary) **93i:83063**
Lu, Ming (*with* Wise, Mark B.) Black holes with a generalized gravitational action. (English summary) **93m:83056**
Maeda, Kei-ichi *see* **Nakao, Ken-ichi; et al., 93m:83057**
Malec, Edward Isoperimetric inequalities in the physics of black holes. **93e:83046**
Mann, Robert B. (*with* Tarasov, Lev Koozma; Zel'nikov, A. I.) Brick walls for black holes. **93f:83058**
— (*with* Steele, T. G.) Thermodynamics and quantum aspects of black holes in $(1 + 1)$ dimensions. **93g:83068**
— Lower-dimensional black holes. **93g:83069**
Marcilhacy, G. *see* **Pons, Roland; et al., 93g:83070**
Martellini, Maurizio *see* **Carlini, A.; et al., 93k:83045**
Masood-ul-Alam, A. K. M. Uniqueness proof of static charged black holes revisited. **93f:83059**
Mathur, Samir D. *see* **Greene, Brian R.; et al., 93k:83048**
Morsink, Sharon M. *see* **Anderson, Warren G.; et al., 93j:83052**
Moss, Ian (*with* Wray, Andrew) Black holes and sphalerons. (English summary) **93f:83060**
Nair, V. P. *see* **Lee, Kimyeong; et al., 93k:83051**
Nakamura, Takashi *see* **Shibata, Masaru, 93g:83072**
Nakao, Ken-ichi (*with* Yamamoto, Kazuhiro; Maeda, Kei-ichi) Apparent horizons of an N-black-hole system in a space-time with a cosmological constant. (English summary) **93m:83057**
Okamoto, Isao *see* **Kaburaki, Osamu; et al., 93m:83054**
O'Loughlin, M. *see* **Banks, Thomas; et al., 93b:83042**
O'Neill, Christopher M. *see* **Greene, Brian R.; et al., 93k:83048**
Page, Don N. The arrow of time. (*see* **93h:81003**)
Parentani, R. (*with* Brout, R.) Physical interpretation of black hole evaporation as a vacuum instability. (English summary) **93j:83056**
Payne, P. N. *see* **D'Eath, P. D., 93j:83053**; **93j:83054** *and* **93j:83055**
Peet, Amanda *see* **Kallosh, Renata, 93i:83060**
Pons, Roland (*with* Léauté, B.; Marcilhacy, G.) Transformations between two normal differential equations. Application to the Bessel functions. **93g:83070**
Preskill, John *see* **Coleman, Sidney; et al., 93m:83050**
Qiang, Wen Chao Surface geometry of a Kerr-NUT black hole. (Chinese. English and Chinese summaries) **93j:83057**
Reuter, M. A mechanism generating axion hair for Kerr black holes. **93c:83078**
Russo, Jorge G. (*with* Susskind, Leonard; Thorlacius, Lárus) End point of Hawking radiation. (English summary) **93f:83061**
Salehi, Hadi Hawking radiation and Planck scales. (English summary) **93j:83058**
Saririan, Kamran Asymptotically covariantly constant spinor hair on black holes. (English summary) **93g:83071**
Schiffer, M. The possible role of event-horizons in quantum gravity. **93c:83079**
(Schutz, B. F.) *see* **Leaver, Edward W., 93g:83066**
Semiz, İbrahim Dirac equation is separable on the dyon black hole metric. (English summary) **93i:83064**
Sen, Ashoke Rotating charged black hole solution in heterotic string theory. (English summary) **93d:83048**
Shibata, Masaru (*with* Nakamura, Takashi) Metric perturbations induced by a particle falling into a Schwarzschild black hole. I. Formulation. (English summary) **93g:83072**
Singleton, David B. *see* **Chruściel, Piotr T., 93i:83059**
Sivaram, C. *see* **De Sabbata, Venzo, (93d:83003)**
Steele, T. G. *see* **Mann, Robert B., 93g:83068**
Straumann, Norbert Black holes with hair. (English summary) **93m:83058**
— *see also* **Heusler, Markus; et al.**
Stuchlík, Z. (*with* Bao, G.) Radiation from hot spots orbiting an extreme Reissner-Nordström black hole. (English summary) **93g:83073**
Susskind, Leonard (*with* Thorlacius, Lárus) Hawking radiation and back-reaction. (English summary) **93f:83062**
— *see also* **Russo, Jorge G.; et al., 93f:83061**
Tarasov, Lev Koozma *see* **Mann, Robert B.; et al., 93f:83058**
Teitelboim, Claudio *see* **Bañados, Máximo; et al., 93e:83042**
Thorlacius, Lárus *see* **Russo, Jorge G.; et al., 93f:83061** *and* **Susskind, Leonard, 93f:83062**
Tod, K. Paul The hoop conjecture and the Gibbons-Penrose construction of trapped surfaces. **93d:83049**
Tomimatsu, Akira Evaporating black holes in quantum gravity. (English summary) **93g:83074**
Traschen, Jennie (*with* Ferrell, Robert C.) Quantum-mechanical scattering of charged black holes. **93d:83050**
Trivedi, Sandip P. Semiclassical extremal black holes. (English summary) **93m:83059**
Trofimenko, A. P. *see* **Gurin, V. S., 93m:83052**
Tuttle, Jaipal K. Physical constraints on axionic black holes. (English summary) **93f:83063**
Visser, Matt Dirty black holes: thermodynamics and horizon structure. (English summary) **93f:83064**
Vokrouhlický, David *see* **Karas, Vladimír**
Volkov, M. S. *see* **Gal'tsov, D. V., 93d:83044**
Wang, Da Zhi *see* **Li, Yuan Jie**
Wei, Chun Yan *see* **Lu, Ju Fu, 93i:83063**
Weinberg, Erick J. *see* **Lee, Kimyeong; et al., 93k:83051**
Wesson, Paul S. *see* **Liu, Hong Ya, 93i:83062**
Whiting, Bernard F. *see* **Louko, Jorma, 93c:83077**
Wilczek, Frank *see* **Holzhey, Christoph F. E., 93d:83045** *and* **Coleman, Sidney; et al., 93m:83050**
(Will, Clifford M.) *see* **Leaver, Edward W., 93g:83066**
Wiltshire, David L. Comment on: "Exact solutions of Einstein gravity coupled to a scalar field with arbitrary potential" [Phys. Rev. D (3) **44** (1991), no. 4, 1115–1119; MR 92f:83051] by M. Cadoni. (English summary) **93k:83052**
Wise, Mark B. *see* **Lu, Ming, 93m:83056**
Wray, Andrew *see* **Moss, Ian, 93f:83060**
Yamamoto, Kazuhiro *see* **Nakao, Ken-ichi; et al., 93m:83057**
Zanelli, Jorge *see* **Bañados, Máximo; et al., 93e:83042**
Zaslavskii, O. B. Entropy and action bounds for charged black holes. (English summary) **93g:83075**
Zel'nikov, A. I. *see* **Mann, Robert B.; et al., 93f:83058**
Zhao, Zheng (*with* Dai, Xian Xin) A new method dealing with Hawking effects of evaporating black holes. **93f:83065**
— *see also* **Dai, Xian Xin**

Items with secondary classifications in 83C57

Achúcarro, Ana Lineal gravity from planar gravity. (English summary) **93k:81188**
Ahmed, Mainuddin (*with* Mondal, Asit Kumar) Hawking radiation of Dirac particles in Kasner-type spacetime. (English summary)
Bao, Gong *see* **Zhang, Zhen Jiu; et al., (93d:83003)**
Berezin, V. A. (*with* Kuz'min, V. A.; Tkachev, I. I.) O(3)-invariant tunnelling at false vacuum decay in general relativity. **93a:83038**
Brauer, Uwe (*with* Malec, Edward) Trapped surfaces due to spherical inhomogeneities in expanding open universes. **93f:83067**
Bronnikov, K. A. Charged black holes and multidimensional gravity. (German summary) **93d:83063**
Buts, S. V. *see* **Korkina, M. P., 93k:83012**
Campbell, Bruce A. (*with* Kaloper, Nemanja; Olive, Keith A.) Classical hair for Kerr-Newman black holes in string gravity. **93f:83082**
Carini, Paolo (*with* Feng, Long Long; Li, Miao; Ruffini, Remo) Phase evolution of the photon in Kerr spacetime. (English summary) **93g:83028**
Chermyanin, S. I. A new type of solution of the Schwarzschild problem for a point-source. (English summary) **93m:83009**
Christensen, Dan (*with* Mann, Robert B.) The causal structure of two-dimensional spacetimes. **93f:81096**
Contopoulos, G. (*with* Papadaki, H.) Newtonian and relativistic periodic orbits around two fixed black holes. (English summary) **93m:85001**
Delduc, François (*with* Gervais, Jean-Loup; Savel'ev, M. V.) Supersymmetric black holes from Toda theories. (English summary) **93i:81220**
De Sabbata, Venzo (*with* Sivaram, C.) Torsion, time and temperature (the T^3 theorem). (English summary) **93j:83044**
Dialynas, Thanassis E. *see* **Xanthopoulos, Basilis C., 93d:83015**
Duncan, M. J. (*with* Kaloper, Nemanja; Olive, Keith A.) Axion hair and dynamical torsion from anomalies. (English summary) **93g:83092**
Elizalde, E. (*with* Odintsov, S. D.) Renormalization of 2D quantum gravity with matter in connection with black holes. (Russian) **93f:83037**
Ellis, Jonathan Richard (*with* Mavromatos, N. E.; Nanopoulos, D. V.) Measuring W-hair. **93c:81165**
— (*with* Mavromatos, N. E.; Nanopoulos, D. V.) Measuring the W-hair of string black holes. **93c:81166**
— (*with* Mavromatos, N. E.; Nanopoulos, D. V.) Quantum mechanics and black holes in four-dimensional string theory. **93c:83114**
— (*with* Mavromatos, N. E.; Nanopoulos, D. V.) World-sheet duality, space-time foam, and the quantum fate of a stringy black hole. (English summary) **93g:83093**
— (*with* Mavromatos, N. E.; Nanopoulos, D. V.) String theory modifies quantum mechanics. (English summary) **93i:81187**
Fadeev, S. B. *see* **Ivashchuk, Vladimir D.; et al., 93m:83076**
Feng, Long Long *see* **Carini, Paolo; et al., 93g:83028**
Gal'tsov, D. V. (*with* Matyukhin, A. A.) Matrix WKB method for black hole normal modes and quasibound states. (English summary) **93i:83032**

Gegenberg, J. (*with* Kunstatter, G.) Quantum theory of black holes. (English summary) **93m:83029**
Gervais, Jean-Loup (*with* Savel'ev, M. V.) Black holes from nonabelian Toda theories. (English summary) **93h:81121**
— *see also* **Delduc, François; et al., 93i:81220**
Giddings, Steven B. (*with* Nelson, William M.) Quantum emission from two-dimensional black holes. (English summary) **93i:81165**
Giveon, Amit Target space duality and stringy black holes. **93b:81250**
Gómez, R. (*with* Winicour, J.) Asymptotics of gravitational collapse of scalar waves. **93d:83023**
Güven, R. Supermembranes on black holes. (*see* **93g:81003**)
Hamada, Ken-Ji Quantum theory of dilaton gravity in 1 + 1 dimensions. (English summary) **93m:81132**
He, Chang Bai *see* **Zhang, Zhen Jiu; et al.,** (**93d:83003**)
Heusler, Markus (*with* Straumann, Norbert) Scaling arguments for the existence of static, spherically symmetric solutions of self-gravitating systems. (English summary) **93g:83017**
Huang, Huan Ran *see* **Zhang, Zhen Jiu; et al.,** (**93d:83003**)
Ivashchuk, Vladimir D. (*with* Mel'nikov, V. N.; Fadeev, S. B.) Black holes in multidimensional theory with Ricci-flat internal spaces. (Russian. Russian summary) **93m:83076**
Kaloper, Nemanja *see* **Campbell, Bruce A.; et al., 93f:83082** *and* **Duncan, M. J.; et al., 93g:83092**
Korkina, M. P. (*with* Buts, S. V.) Penrose diagrams for Schwarzschild-Friedmann models in Kruskal coordinates. (Russian. Russian summary) **93k:83012**
Kundu, Prasun K. *see* **Price, Richard H.; et al., 93m:83023**
Kunstatter, G. *see* **Gegenberg, J., 93m:83029**
Kuz'min, V. A. *see* **Berezin, V. A.; et al., 93a:83038**
Li, Miao *see* **Carini, Paolo; et al., 93g:83028**
Liu, Liao *see* **Zhao, Zheng, 93h:83026**
Malec, Edward *see* **Brauer, Uwe, 93f:83067**
Man'ko, V. S. (*with* Novikov, Igor D.) Generalizations of the Kerr and Kerr-Newman metrics possessing an arbitrary set of mass-multipole moments. (English summary) **93i:83022**
— The exterior gravitational field of a static and stationary mass with an arbitrary set of multipole moments. **93f:83015**
Mann, Robert B. *see* **Christensen, Dan, 93f:81096**
Matyukhin, A. A. *see* **Gal'tsov, D. V., 93i:83032**
Mavromatos, N. E. *see* **Ellis, Jonathan Richard; et al., 93c:81165**; **93c:81166**; **93c:83114**; **93g:83093** *and* **93i:81187**
McGuigan, Michael D. (*with* Nappi, Chiara R.; Yost, Scott A.) Charged black holes in two-dimensional string theory. **93g:81162**
Mel'nikov, V. N. *see* **Ivashchuk, Vladimir D.; et al., 93m:83076**
Meng, Xiao Dong (*with* Zhao, Zheng) The Hawking radiation from a static black hole with mass-quadrupole moment. (Chinese. English summary) **93g:83056**
Mignemi, Salvatore (*with* Wiltshire, David L.) Black holes in higher-derivative gravity theories. (English summary) **93e:83061**
Moeckel, Richard A nonintegrable model in general relativity. (English summary) **93m:83020**
Mondal, Asit Kumar *see* **Ahmed, Mainuddin**
Nanopoulos, D. V. *see* **Ellis, Jonathan Richard; et al., 93c:81165**; **93c:81166**; **93c:83114**; **93g:83093** *and* **93i:81187**
Nappi, Chiara R. *see* **McGuigan, Michael D.; et al., 93g:81162**
Nelson, William M. *see* **Giddings, Steven B., 93i:81165**
Novikov, Igor D. *see* **Man'ko, V. S., 93i:83022**
Oda, Ichiro Strings from black holes. (English summary) **93j:83076**
Odintsov, S. D. *see* **Elizalde, E., 93f:83037**
Olive, Keith A. *see* **Campbell, Bruce A.; et al., 93f:83082** *and* **Duncan, M. J.; et al., 93g:83092**
Ori, Amos Structure of the singularity inside a realistic rotating black hole. **93b:83049**
Papadaki, H. *see* **Contopoulos, G., 93m:85001**
Preskill, John Quantum hair. **93f:83051**
Price, Richard H. (*with* Pullin, Jorge; Kundu, Prasun K.) Escape of gravitational radiation from the field of massive bodies. (English summary) **93m:83023**
Pullin, Jorge *see* **Price, Richard H.; et al., 93m:83023**
Rácz, István (*with* Wald, Robert M.) Extensions of spacetimes with Killing horizons. (English summary) **93k:83024**
Romans, L. J. Supersymmetric, cold and lukewarm black holes in cosmological Einstein-Maxwell theory. (English summary) **93j:83027**
Ruffini, Remo *see* **Carini, Paolo; et al., 93g:83028**
Russo, Jorge G. (*with* Susskind, Leonard; Thorlacius, Lárus) Cosmic censorship in two-dimensional gravity. (English summary) **93m:83062**
Savel'ev, M. V. *see* **Gervais, Jean-Loup, 93h:81121** *and* **Delduc, François; et al., 93i:81220**
Sfetsos, Konstadinos Conformally exact results for $SL(2,\mathbf{R}) \otimes SO(1,1)^{d-2}/SO(1,1)$ coset models. (English summary) **93k:81222**
Shiekh, A. Y. Does nature place a fundamental limit on strength? (English and French summaries) **93h:83004**
Shiraishi, Kiyoshi Superradiance from a charged dilaton black hole. (English summary) **93j:83049**
Silva-Ortigoza, G. *see* **Torres del Castillo, G. F., 93i:83066**
Sivaram, C. *see* **De Sabbata, Venzo, 93j:83044**
Straumann, Norbert *see* **Heusler, Markus, 93g:83017**
Strominger, Andrew Faddeev-Popov ghosts and (1 + 1)-dimensional black-hole evaporation. (English summary) **93m:81137**
Sudarsky, Daniel (*with* Wald, Robert M.) Extrema of mass, stationarity, and staticity, and solutions to the Einstein-Yang-Mills equations. (English summary) **93k:83008**
Susskind, Leonard *see* **Russo, Jorge G.; et al., 93m:83062**
Thorlacius, Lárus *see* **Russo, Jorge G.; et al., 93m:83062**
Tkachev, I. I. *see* **Berezin, V. A.; et al., 93a:83038**
Torres del Castillo, G. F. (*with* Silva-Ortigoza, G.) Spin-$\frac{3}{2}$ perturbations of the Kerr-Newman solution. (English summary) **93i:83066**
Umezawa, H. Origin of nonquantum noise and time dependent thermofield dynamics. **93b:82050**
Wald, Robert M. On the instability of the $n = 1$ Einstein-Yang-Mills black holes and mathematically related systems. **93d:83009**
— *see also* **Sudarsky, Daniel, 93k:83008** *and* **Rácz, István, 93k:83024**
Weinstein, Gilbert The stationary axisymmetric two-body problem in general relativity. (English summary) **93k:83010**
Williams, Ruth M. ★ An introduction to curved space-times. **93b:83001**
Wiltshire, David L. *see* **Mignemi, Salvatore, 93e:83061**
Winicour, J. *see* **Gómez, R., 93d:83023**
Xanthopoulos, Basilis C. (*with* Dialynas, Thanassis E.) Einstein gravity coupled to a massless conformal scalar field in arbitrary space-time dimensions. **93d:83015**
Yost, Scott A. *see* **McGuigan, Michael D.; et al., 93g:81162**
Zhang, Zhen Jiu (*with* Huang, Huan Ran; Bao, Gong; He, Chang Bai) Quantum mechanics of black holes in curved space-time. (*see* **93d:83003**)
Zhao, Zheng (*with* Liu, Liao) Unruh thermal fields are gauge fields. (Chinese. English and Chinese summaries) **93h:83026**
— *see also* **Meng, Xiao Dong, 93g:83056**

83C60 Spinor and twistor methods

Bailey, T. N. The space of leaves of a shear-free congruence, multipole expansions, and Robinson's theorem. **93a:83025**
Capovilla, Riccardo (*with* Jacobson, Ted) Remarks on pure spin connection formulations of gravity. **93c:83080**
Carminati, John (*with* McLenaghan, R. G.) Algebraic invariants of the Riemann tensor in a four-dimensional Lorentzian space. **93c:83081**
Dougan, Andrew J. Quasi-local mass for spheres. (English summary) **93j:83059**
Harnett, G. The bivector Clifford algebra and the geometry of Hodge dual operators. (English summary) **93j:83060**
Jacobson, Ted *see* **Capovilla, Riccardo, 93c:83080**
Jing, Ji Liang *see* **Yu, Hong Wei; et al., 93g:83076**
LeBrun, Claude Ambitwistors and conformal gravity. (*see* **93a:00022**)
McLenaghan, R. G. *see* **Carminati, John, 93c:83081**
Merkulov, S. A. A supersymmetric nonlinear graviton. (Russian) **93k:83053**
Neto, N. P. *see* **Novello, M., 93i:83065**
Novello, M. (*with* Neto, N. P.) Theory of gravity in Fierz variables (the linear case). **93i:83065**
Parashar, D. Gordon decomposition of Dirac spinors in gravitational background. **93c:83082**
Perjés, Zoltán The parametric manifold picture of space-time. **93f:83066**
Shishkin, G. V. (*with* Villalba, Víctor M.) Neutrino in the presence of gravitational fields: exact solutions. (English summary) **93k:83054**
Silva-Ortigoza, G. *see* **Torres del Castillo, G. F., 93i:83066**
Sparling, George A. J. The eth operator. **93b:83046**
Tod, K. Paul Three-dimensional Einstein-Weyl geometry. **93c:83083**
Torres del Castillo, G. F. (*with* Silva-Ortigoza, G.) Spin-$\frac{3}{2}$ perturbations of the Kerr-Newman solution. (English summary) **93i:83066**
Villalba, Víctor M. *see* **Shishkin, G. V., 93k:83054**
Wang, Yong Jiu *see* **Yu, Hong Wei; et al., 93g:83076**
Woodhouse, Nicholas M. J. Spinors, twistors, and complex methods. (*see* **93b:83002**)
Yu, Hong Wei (*with* Jing, Ji Liang; Wang, Yong Jiu) The Newman-Penrose formalism of the coupled SU(5) Einstein-Yang-Mills-Higgs field equations. (English summary) **93g:83076**

Items with secondary classifications in 83C60

Arianrhod, R. (*with* McIntosh, Colin B. G.) Principal null directions of Petrov type I Weyl spinors: geometry and symmetry. (English summary) **93i:83025**
Bergqvist, Göran Positivity and definitions of mass. (English summary) **93k:83022**
Bezerra, Valdir B. (*with* dos Santos, Ivonete B.) Scalar and spinor solutions in the space-time of a domain wall. (English summary) **93g:83013**
Bilyalov, R. F. Conservation laws for spinor fields on a Riemannian space-time manifold. (Russian. English and Russian summaries) **93f:58252**
Capovilla, Riccardo (*with* Dell, J.; Jacobson, Ted) Errata: "A pure spin-connection formulation of gravity" [Classical Quantum Gravity **8** (1991), no. 1, 59–73; MR 91m:83005]. **93d:83006**
Cardoso, J. G. Generalized mass-scattering integrals for Dirac fields and their graphical representation. **93b:81099**
Carminati, John *see* **Czapor, S. R.; et al., 93f:83001**
Czapor, S. R. (*with* McLenaghan, R. G.; Carminati, John) The automatic conversion of spinor equations to dyad form in MAPLE. (English summary) **93f:83001**
Dell, J. *see* **Capovilla, Riccardo; et al., 93d:83006**
Edgar, Brian Integration methods within existing tetrad formalisms in general relativity. (English summary) **93j:83021**
Fodor, G. (*with* Perjés, Zoltán) Ashtekar variables without hypersurfaces. **93e:83009**
Gravel, Pierre How many gravitational 't Hooft instantons are there past the first one? **93g:83023**
Jacobson, Ted *see* **Capovilla, Riccardo; et al., 93d:83006**
Kalnins, E. G. (*with* McLenaghan, R. G.; Williams, Graeme C.) Symmetry operators for Maxwell's equations on curved space-time. **93c:83029**
— (*with* McLenaghan, R. G.; Williams, Graeme C.) Symmetry operators for Maxwell's equations on curved space-time. (English summary) **93j:83050**
Kheyfets, Arkady (*with* Miller, Warner A.) É. Cartan moment of rotation in Ashtekar's self-dual representation of gravitation. **93g:83010**
Kim, Chol-Bu (*with* Shimizu, Tadayoshi; Yoshida, Katsuhiko) (2 + 1)-dimensional quantum gravity with spinor field. **93e:83035**
Koshti, Sucheta Massless Einstein-Klein-Gordon theory in the spin connection formulation. (English summary) **93i:83008**
McIntosh, Colin B. G. *see* **Arianrhod, R., 93i:83025**
McLenaghan, R. G. *see* **Kalnins, E. G.; et al., 93c:83029**; **Czapor, S. R.; et al., 93f:83001** *and* **Kalnins, E. G.; et al., 93j:83050**
Merkulov, S. A. Twistor transform of Einstein-Weyl superspaces. **93d:32050**

— Superconformal geometry in three dimensions. **93c:58015**
Miller, Warner A. *see* **Kheyfets, Arkady, 93g:83010**
Nesterenko, V. V. Torsion in the action of the relativistic particle. **93a:81091**
Park, Q-Han 2D sigma model approach to 4D instantons. **93a:81182**
Pedersen, Henrik (*with* Tod, K. Paul) Three-dimensional Einstein-Weyl geometry. (English summary) **93m:53042**
Perjés, Zoltán *see* **Fodor, G., 93e:83009**
Rodrigues, Waldyr A., Jr. *see* **Zeni, J. Ricardo, 93d:15041**
Samuel, Joseph Self-duality in classical gravity. **93b:83027**
dos Santos, Ivonete B. *see* **Bezerra, Valdir B., 93g:83013**
Shimizu, Tadayoshi *see* **Kim, Chol-Bu; et al., 93e:83035**
Stewart, John Malcolm ★ Advanced general relativity. **93e:83002**
Swift, S. Timothy Null limits of the Maxwell-Sen-Witten equation. **93m:83026**
Tod, K. Paul *see* **Pedersen, Henrik, 93m:53042**
Uehara, Shozo A note on gravitational and SU(2) instantons with Ashtekar variables. **93a:83009**
Williams, Graeme C. *see* **Kalnins, E. G.; et al., 93c:83029** *and* **93j:83050**
Yoshida, Katsuhiko *see* **Kim, Chol-Bu; et al., 93e:83035**
Zeni, J. Ricardo (*with* Rodrigues, Waldyr A., Jr.) A thoughtful study of Lorentz transformations by Clifford algebras. **93d:15041**

83C75 Space-time singularities, cosmic censorship, etc.

Abrahams, Andrew M. (*with* Heiderich, Karen R.; Shapiro, Stuart L.; Teukolsky, Saul A.) Vacuum initial data, singularities, and cosmic censorship. (English summary) **93g:83077**
Beem, John K. (*with* Królak, Andrzej) Censorship, null geodesics and strong visibility. (English summary) (*see* **93d:58006**)
— (*with* Królak, Andrzej) Cosmic censorship and pseudoconvexity. **93e:83047**
Bradley, Michael *see* **de Felice, Fernando; et al., 93c:83085**
Brauer, Uwe (*with* Malec, Edward) Trapped surfaces due to spherical inhomogeneities in expanding open universes. **93f:83067**
Carroll, Sean M. (*with* Farhi, Edward; Guth, Alan H.) An obstacle to building a time machine. **93e:83048a**
— (*with* Farhi, Edward; Guth, Alan H.) Errata: "An obstacle to building a time machine". **93e:83048b**
Chruściel, Piotr T. On uniqueness in the large of solutions of Einstein's equations ("strong cosmic censorship"). (English summary) **93g:83078**
Coley, Alan A. *see* **Goode, S. W.; et al., 93b:83047**
Cvetič, Mirjam (*with* Davis, Richard Lynn; Griffies, Stephen; Soleng, Harald H.) Cauchy horizons, thermodynamics, and closed timelike curves in planar supersymmetric spaces. (English summary) **93j:83061**
Davis, Richard Lynn *see* **Cvetič, Mirjam; et al., 93j:83061**
Deser, S. (*with* Jackiw, R.; 't Hooft, Gerard) Physical cosmic strings do not generate closed timelike curves. **93a:83026**
Dwivedi, I. H. (*with* Joshi, Pankaj S.) Cosmic censorship violation in non-self-similar Tolman-Bondi models. **93c:83084**
— *see also* **Joshi, Pankaj S., 93a:83027** *and* **93e:83049**
Earman, John (*with* Norton, John Daniel) Forever is a day: supertasks in Pitowsky and Malament-Hogarth spacetimes. (English summary) **93m:83060**
Esposito, Giampiero Singularity theory in classical cosmology. (English summary)
Farhi, Edward *see* **Carroll, Sean M.; et al., 93e:83048a** *and* **93e:83048b**
de Felice, Fernando (*with* Usseglio-Tomasset, Stefano; Bradley, Michael) Singularities inside matter: the static case. **93c:83085**
Flanagan, Eanna Trapped surfaces in nonspherical initial data sets and the hoop conjecture. (English summary) **93j:83062**
Ford, L. H. (*with* Roman, Thomas A.) "Cosmic flashing" in four dimensions. (English summary) **93i:83067**
Goode, S. W. (*with* Coley, Alan A.; Wainwright, John) The isotropic singularity in cosmology. **93b:83047**
Griffies, Stephen *see* **Cvetič, Mirjam; et al., 93j:83061**
Guth, Alan H. *see* **Carroll, Sean M.; et al., 93e:83048a** *and* **93e:83048b**
Hammond, Richard T. Naked singularities with vector torsion gravity. (English summary) **93i:83068**
Hawking, Stephen W. Chronology protection conjecture. **93c:83086**
Hayward, Sean A. Trapping and completeness of a spherical light-cone. (English summary) **93j:83063**
Heiderich, Karen R. *see* **Abrahams, Andrew M.; et al., 93g:83077**
Helliwell, T. M. (*with* Konkowski, D. A.) Stability analysis of a nonscalar curvature singularity. (English summary) **93g:83079**
— *see also* **Konkowski, D. A., 93c:83089**
Hogarth, Mark L. Does general relativity allow an observer to view an eternity in a finite time? **93c:83087**
't Hooft, Gerard *see* **Deser, S.; et al., 93a:83026**
Iyer, Vivek *see* **Szekeres, Peter, 93m:83063**
Jackiw, R. *see* **Deser, S.; et al., 93a:83026**
Joshi, Pankaj S. Singularities in a new class of inhomogeneous cosmological models. **93a:83028**
— (*with* Dwivedi, I. H.) The structure of naked singularity in self-similar gravitational collapse. **93a:83027**
— (*with* Dwivedi, I. H.) Strong curvature naked singularities in non-self-similar gravitational collapse. **93e:83049**
— *see also* **Dwivedi, I. H., 93c:83084**
Kaloper, Nemanja Lorentz Chern-Simons term and the breakdown of the cosmic no-hair conjecture. **93c:83088**
Konkowski, D. A. (*with* Helliwell, T. M.) Singularities in colliding plane-wave spacetimes. **93c:83089**
— *see also* **Helliwell, T. M., 93g:83079**
Kriele, Marcus (*with* Newman, Richard P. A. C.) Differentiability considerations at the onset of causality violation. **93e:83050**
Królak, Andrzej (*with* Rudnicki, Wieslaw) Singularities, trapped sets, and cosmic censorship in asymptotically flat space-times. (English summary) **93i:83069**
— *see also* **Beem, John K., 93e:83047** *and* **(93d:58006)**
Kuang, Zhi Quan (*with* Liang, Can Bin) On the Rácz and Szabados constructions of the c-boundary. (English summary) **93i:83070**
Lake, Kayll Precursory singularities in spherical gravitational collapse. **93b:83048**
Liang, Can Bin *see* **Kuang, Zhi Quan, 93i:83070**
Malec, Edward Hoop conjecture in nonspherical self-gravitating systems. **93d:83051**
— *see also* **Brauer, Uwe, 93f:83067**
Newman, Richard P. A. C. *see* **Kriele, Marcus, 93e:83050**
Norton, John Daniel *see* **Earman, John, 93m:83060**
Novikov, Igor D. Time machine and self-consistent evolution in problems with self-interaction. **93a:83029**
Ori, Amos Structure of the singularity inside a realistic rotating black hole. **93b:83049**
Podoksënov, M. N. Equivalent definition of the strong causality of space-time. (Russian) **93i:83071**
Qadir, Asghar Essential singularities of spherically symmetric space-times. **93e:83051**
Rendall, A. D. Cosmic censorship and the Vlasov equation. (English summary) **93e:83052**
Roman, Thomas A. *see* **Ford, L. H., 93i:83067**
Rudnicki, Wieslaw A note on the nature of Cauchy horizons occurring due to naked singularities. **93m:83061**
— *see also* **Królak, Andrzej, 93i:83069**
Russo, Jorge G. (*with* Susskind, Leonard; Thorlacius, Lárus) Cosmic censorship in two-dimensional gravity. (English summary) **93m:83062**
Shapiro, Stuart L. *see* **Abrahams, Andrew M.; et al., 93g:83077**
Soleng, Harald H. *see* **Cvetič, Mirjam; et al., 93j:83061**
Susskind, Leonard *see* **Russo, Jorge G.; et al., 93m:83062**
Szekeres, Peter (*with* Iyer, Vivek) Spherically symmetric singularities and strong cosmic censorship. (English summary) **93m:83063**
Teukolsky, Saul A. *see* **Abrahams, Andrew M.; et al., 93g:83077**
Thorlacius, Lárus *see* **Russo, Jorge G.; et al., 93m:83062**
Usseglio-Tomasset, Stefano *see* **de Felice, Fernando; et al., 93c:83085**
Visser, Matt From wormhole to time machine: remarks on Hawking's chronology protection conjecture. (English summary) **93j:83064**
Wainwright, John *see* **Goode, S. W.; et al., 93b:83047**
Wojtkiewicz, Jacek Nonexistence of apparent horizons for elongated configurations of matter having small mass. **93c:83090**

Items listed otherwise than by author

Singularities in curved space-times ★ Singularities in curved space-times. **93k:83055**
Special Issue:
Singularities in curved space-times ★ Singularities in curved space-times. **93k:83055**

Items with secondary classifications in 83C75

de Alwis, S. P. Comments on no-hair theorems and stability of black holes. **93b:83041**
Balakrishna, B. S. (*with* Wali, Kameshwar C.) Bogomol'nyi equations in the Einstein-Yang-Mills-Higgs system. (English summary) **93i:81298**
Barrabès, Claude (*with* Israel, Werner) Light-like surface layers in general relativity. **93h:83013**
Borgohain, P. *see* **Krori, K. D.; et al., 93g:83065**
Boulware, David G. Quantum field theory in spaces with closed timelike curves. (English summary) **93m:81107**
(Cadoni, Mariano) *see* **Wiltshire, David L., 93k:83052**
Carminati, John (*with* Cooperstock, F. I.) Herlt metrics and gravitational-electrostatic balance in general relativity. **93b:83008**
Cecotti, Sergio (*with* Vafa, Cumrun) Massive orbifolds. **93d:81138**
Chruściel, Piotr T. ★ On uniqueness in the large of solutions of Einstein's equations ("strong cosmic censorship"). **93c:83008**
— On the global structure of Robinson-Trautman space-times. (English summary) **93g:83037**
Cooperstock, F. I. *see* **Carminati, John, 93b:83008**
Dallaporta, Nicola Could final states of stellar evolution proceed towards naked singularities? (*see* **93j:83004**)
Das, Dipali *see* **Krori, K. D.; et al., 93g:83065**
Esposito, Giampiero Mathematical structures of space-time. **93i:83003**
Frolov, V. P. (*with* Novikov, Igor D.) Physical effects in wormholes and time machine. **93f:83075**
Gurin, V. S. (*with* Trofimenko, A. P.) Many-dimensional (complex) representation of extended manifolds and monopoles in extended relativity. (English summary) **93m:83052**
Hortaçsu, M. Singularities with C^0 metrics. **93b:81186**
Isenberg, James (*with* Moncrief, Vincent) On spacetimes containing Killing vector fields with nonclosed orbits. **93g:83025**
Israel, Werner *see* **Barrabès, Claude, 93h:83013**
Kánnár, János (*with* Rácz, István) On the strength of space-time singularities. **93f:53057**
Kirillov, A. A. Quantum birth of a universe near a cosmological singularity. (Russian) **93d:83072**
Klinkhammer, Gunnar Vacuum polarization of scalar and spinor fields near closed null geodesics. (English summary) **93i:83054**
Knutsen, Henning Physical properties of an exact spherically symmetric solution with shear in general relativity. (English summary) **93k:83011**
Konno, Shigelu *see* **Oshiro, Yoshimi; et al., 93k:83043**
Krori, K. D. (*with* Borgohain, P.; Das, Dipali) Quantum effects near the black hole singularity in Kruskal space-time. (English summary) **93g:83065**
Magnon, Anne Cosmological singularity at the Planck scale. (English summary) **93f:83087**
Moncrief, Vincent *see* **Isenberg, James, 93g:83025**
Nakamura, Kouji *see* **Oshiro, Yoshimi; et al., 93k:83043**
Nakao, Ken-ichi The Oppenheimer-Snyder space-time with a cosmological constant. (English summary) **93f:83016**
Novikov, Igor D. *see* **Frolov, V. P., 93f:83075**

Oshiro, Yoshimi (*with* Konno, Shigelu; Nakamura, Kouji; Tomimatsu, Akira) Evaporation of a collapsing shell with scalar field production. (English summary) **93k:83043**
Politzer, H. David Simple quantum systems in spacetimes with closed timelike curves. (English summary) **93m:81108**
Rácz, István (*with* Wald, Robert M.) Extensions of spacetimes with Killing horizons. (English summary) **93k:83024**
— *see also* **Kánnár, János, 93f:53057**
Russo, Jorge G. (*with* Susskind, Leonard; Thorlacius, Lárus) End point of Hawking radiation. (English summary) **93f:83061**
Sasin, Wiesław Differential spaces and singularities in differential space-times. **93h:58005**
— Gluing of differential spaces. **93f:58010**
— (*with* Spallek, Karlheinz) Gluing of differentiable spaces and applications. **93b:32043**
Spallek, Karlheinz *see* **Sasin, Wiesław, 93b:32043**
Sushkov, S. V. A self-consistent semiclassical solution with a throat in the theory of gravity. **93i:83052**
Susskind, Leonard *see* **Russo, Jorge G.; et al., 93f:83061**
Thorlacius, Lárus *see* **Russo, Jorge G.; et al., 93f:83061**
Tod, K. Paul The Stützfunktion and the cut function. **93a:83013**
— The hoop conjecture and the Gibbons-Penrose construction of trapped surfaces. **93d:83049**
Tomimatsu, Akira *see* **Oshiro, Yoshimi; et al., 93k:83043**
Trofimenko, A. P. *see* **Gurin, V. S., 93m:83052**
Tuttle, Jaipal K. Physical constraints on axionic black holes. (English summary) **93f:83063**
Vafa, Cumrun *see* **Cecotti, Sergio, 93d:81138**
Wainwright, John Mathematical cosmology. (*see* **93b:83002**)
Wald, Robert M. *see* **Rácz, István, 93k:83024**
Wali, Kameshwar C. *see* **Balakrishna, B. S., 93i:81298**
Wiltshire, David L. Comment on: "Exact solutions of Einstein gravity coupled to a scalar field with arbitrary potential" [Phys. Rev. D (3) **44** (1991), no. 4, 1115–1119; MR 92f:83051] by M. Cadoni. (English summary) **93k:83052**
Zhogin, I. L. Singularities in the theory of gravitation. (Russian. Russian summary) **93i:83081**

83C99 None of the above, but in this section

Barrabès, Claude (*with* Gramain, André; Lesigne, E.; Letelier, Patricio S.) Geometric inequalities and the hoop conjecture. (English summary) **93f:83068**
Bezerra, Valdir B. Loop variables in three-dimensional gravity. (English summary) **93e:83053**
Cappelli, Andrea (*with* Ciafaloni, Marcello; Valtancoli, Paolo) Classical scattering in $2+1$ gravity with N point sources. **93b:83050**
Carini, Paolo *see* **Jantzen, Robert T., 93i:83072**
Ciafaloni, Marcello *see* **Cappelli, Andrea; et al., 93b:83050**
Deser, S. (*with* Steif, Alan R.) Gravity theories with lightlike sources in $D = 3$. (English summary) **93g:83080**
Eriksen, E. *see* **Grøn, Øyvind, 93e:83054**
Gibbons, G. W. Topology and topology change in general relativity. (English summary) **93m:83064**
Gramain, André *see* **Barrabès, Claude; et al., 93f:83068**
Grøn, Øyvind (*with* Eriksen, E.) Equivalence in two-, three-, and four-dimensional space-times. (English summary) **93e:83054**
Jantzen, Robert T. (*with* Carini, Paolo) Understanding spacetime splittings and their relationships. (English summary) **93i:83072**
Kao, W. F. Induced Einstein-Kalb-Ramond theory in four dimensions. (English summary) **93h:83029**
Koutras, Andreas A spacetime for which the Karlhede invariant classification requires the fourth covariant derivative of the Riemann tensor. (English summary) **93g:83081**
Leihkauf, H. *see* **Treder, Hans-Jürgen, 93m:83066**
Lesigne, E. *see* **Barrabès, Claude; et al., 93f:83068**
Letelier, Patricio S. *see* **Barrabès, Claude; et al., 93f:83068**
Mikheeva, E. V. (*with* Novikov, Igor D.) Inelastic billiard ball in a spacetime with a time machine. (English summary) **93m:83065**
Novikov, Igor D. *see* **Mikheeva, E. V., 93m:83065**
Peng, Huei (*with* Wang, K.) Dual geometric-gauge field aspects of gravity. **93i:83073**
Rovelli, Carlo Area is the length of Ashtekar's triad field. (English summary) **93k:83056**
Shanahan, Hugh *see* **Vandyck, Michel A., 93e:83055**; **93e:83056a** *and* **93e:83056b**
Steif, Alan R. *see* **Deser, S., 93g:83080**
Terazawa, Hidezumi Space-time dimension of the Universe. **93d:83052**
Treder, Hans-Jürgen (*with* Leihkauf, H.) The "Euler"-limit of GRT. (English summary) **93m:83066**
Tresguerres, Romualdo An exact solution of $(2+1)$-dimensional topological gravity in metric-affine spacetime. (English summary) **93k:83057**
Valtancoli, Paolo Topologically massive gravity with N point sources. (English summary) **93k:83058**
— *see also* **Cappelli, Andrea; et al., 93b:83050**
Vandyck, Michel A. (*with* Shanahan, Hugh) On a multipole expansion for instantons. I. **93e:83055**
— (*with* Shanahan, Hugh) On a multipole expansion for instantons. II. $S^1 \times \mathbf{R}^3$ instantons. **93e:83056a**
— (*with* Shanahan, Hugh) Erratum: "On a multipole expansion for instantons. II. $S^1 \times \mathbf{R}^3$ instantons". **93e:83056b**
Waelbroeck, Henri Solving the time-evolution problem in $2+1$ gravity. **93f:83069**
Wang, K. *see* **Peng, Huei, 93i:83073**
Williams, Jeffrey George (*with* Zvengrowski, Peter) $2+1$ gravity kinks for multiply connected spacetime manifolds. **93e:83057**
Zvengrowski, Peter *see* **Williams, Jeffrey George, 93e:83057**

Items with secondary classifications in 83C99
Agop, Marcel *see* **Zet, Gh.; et al.**
Araujo, Marcelo E. (*with* Dray, Tevian; Skea, James E. F.) Finding isometry groups in theory and practice. **93c:83001**
Barrett, J. W. Holonomy and path structures in general relativity and Yang-Mills theory. **93d:53092**
Cangemi, D. (*with* Jackiw, R.) Gauge-invariant formulations of lineal gravities. **93f:81130**
Carminati, John (*with* McLenaghan, R. G.) Algebraic invariants of the Riemann tensor in a four-dimensional Lorentzian space. **93c:83081**
Chamseddine, A. H. Topological gravity and supergravity in various dimensions. **93e:83069**
Cornish, N. J. (*with* Frankel, Norman E.) Universal mass in $2+1$ dimensions. (English summary) **93m:83048**
da Costa, José Manuel N. *see* **Hall, G. S., 93a:53058**
Daftardar, Varsha *see* **Giannopoulos, Abraham, 93d:83002**
Dariescu, Marina *see* **Zet, Gh.; et al.**
Deser, S. Gravity and gauge theories in three dimensions. **93c:81121**
Dray, Tevian *see* **Araujo, Marcelo E.; et al., 93c:83001**
Drechsler, W. Quantized fiber dynamics for extended elementary objects involving gravitation. (English summary) **93j:81059**
Dryuma, V. S. A three-dimensional completely integrable system of nonlinear equations and its applications. (Russian) **93d:35158**
Edgar, S. Brian Spacetimes in which the Ricci equations characterize the Riemann tensor. (English summary) **93k:53068**
Ehrlich, Paul E. (*with* Emch, Gérard G.) Quasi-time functions in Lorentzian geometry. **93k:53069**
Emch, Gérard G. *see* **Ehrlich, Paul E., 93k:53069**
Eschenburg, J.-H. (*with* Galloway, Gregory J.) Lines in space-times. (English summary) **93i:53064**
Falbo-Kenkel, M. K. (*with* Mansouri, F.) Nonperturbative gauge-theoretic treatment of two-particle scattering in $(2+1)$-dimensional gravity. (English summary) **93f:81083**
Franke, V. A. (*with* Tapia, V.) The ADM Lagrangian in extrinsic gravity. **93g:83085**
Frankel, Norman E. *see* **Cornish, N. J., 93m:83048**
Fullwood, D. T. A new topology on space-time. **93b:53053**
Galloway, Gregory J. *see* **Eschenburg, J.-H., 93i:53064**
Giannopoulos, Abraham (*with* Daftardar, Varsha) Evaluation of the Ashtekar variables for any given metric using the algebraic computing system STENSOR. **93d:83002**
Gibbons, G. W. (*with* Hawking, Stephen W.) Kinks and topology change. (English summary) **93f:83076**
Grignani, G. (*with* Nardelli, G.) Chern-Simons gravity from $(3+1)$-dimensional gravity. (English summary) **93m:81102**
Hall, G. S. (*with* da Costa, José Manuel N.) Curvature collineations in general relativity. I, II. **93a:53058**
Hawking, Stephen W. *see* **Gibbons, G. W., 93f:83076**
't Hooft, Gerard Causality in $(2+1)$-dimensional gravity. **93f:83031**
Jackiw, R. *see* **Cangemi, D., 93f:81130**
Kheyfets, Arkady (*with* Miller, Warner A.) The boundary of a boundary principle in field theories and the issue of austerity of the laws of physics. **93a:81203**
Kim, Jong Chul Causal structures of Lorentzian manifold. **93b:53054**
Mansouri, F. *see* **Falbo-Kenkel, M. K., 93f:81083**
Massa, Enrico Spatial tensor analysis in general relativity. (English summary) **93m:53021**
McLenaghan, R. G. *see* **Carminati, John, 93c:83081**
Miller, Warner A. *see* **Kheyfets, Arkady, 93a:81203**
Nardelli, G. *see* **Grignani, G., 93m:81102**
Petters, A. O. Morse theory and gravitational microlensing. **93c:58060**
Rosales, J. L. (*with* Sánchez-Gómez, J. L.) Nonlinear Schrödinger equation coming from the action of the particle's gravitational field on the quantum potential. **93c:81273**
Rylov, Yu. A. Distorted Riemannian space and technique of differential geometry. (English summary) **93j:53030**
Sánchez-Gómez, J. L. *see* **Rosales, J. L., 93c:81273**
Sándulescu, Valentina *see* **Zet, Gh.; et al.**
Shastri, A. R. (*with* Zvengrowski, Peter) Type of 3-manifolds and addition of relativistic kinks. **93d:57034**
Skea, James E. F. *see* **Araujo, Marcelo E.; et al., 93c:83001**
Sławianowski, Jan J. GL$(n, \mathbf{R})$, tetrads and generalized space-time dynamics. (English summary) **93g:53097**
Tapia, V. *see* **Franke, V. A., 93g:83085**
Tresguerres, Romualdo Topological gravity in a three-dimensional metric-affine space-time. (English summary) **93j:83067**
Zalaletdinov, R. M. Averaging out the Einstein equations. (English summary) **93i:83012**
Zet, Gh. (*with* Agop, Marcel; Dariescu, Marina; Sândulescu, Valentina) Le parallélisme des directions et les coordonnées physiques. (Romanian summary) [Parallelism of directions and physical coordinates]
Zhogin, I. L. Absolute parallelism; spherical symmetry and singularities. (Russian. Russian summary) **93k:53077**
Zvengrowski, Peter *see* **Shastri, A. R., 93d:57034**

83D05 Relativistic gravitational theories other than Einstein's, including asymmetric field theories

Agrawal, Anil Kumar *see* **Singh, Triloki, 93f:83073**
Antoci, S. The electromagnetic properties of material media and Einstein's unified field theory. (English summary) **93e:83058**
Arcidiacono, G. *see* **Singh, Triloki, 93h:83032**
Askari, Hassan Randjbar *see* **Riazi, Nematullah, 93k:83065**
Assad, M. J. D. (*with* Romero, Carlos Augusto) Eternal and pulsating universes in Einstein-Cartan space-time. **93a:83030**
Baekler, P. (*with* Mielke, Eckehard W.; Hehl, Friedrich W.) Dynamical symmetries in topological 3D gravity with torsion. **93d:83053**
Bagrov, V. G. (*with* Obukhov, V. V.) Complete classification of Stäckel spaces of type (2.1) in the Brans-Dicke theory. (Russian)

Baĭkov, P. A. (*with* Hayashi, Masaki; Nelipa, N. F.; Ostapchenko, S.) Ghost- and tachyon-free gauge-invariant, Poincaré, affine and projective Lagrangians. **93c:83091**

Bañados, Máximo (*with* Teitelboim, Claudio; Zanelli, Jorge) Lovelock-Born-Infeld theory of gravity. (English summary) (*see* **93b:81004**)

Barbero, J. F. (*with* Odintsov, S. D.) Renormalization group dynamics of higher-derivative gravity coupled to a massive scalar. (English summary) **93k:83059**

Barros, A. *see* **Romero, Carlos Augusto**, **93d:83059** *and* **93k:83066**

Beesham, A. A note on vacuum Friedmann cosomological models in Dunn's scalar-tensor theory of gravitation. (English summary)

Beil, R. G. Finsler gauge transformations and general relativity. **93c:83092**

Bengtsson, Ingemar (*with* Boström, Ola) Infinitely many cosmological constants. **93c:83093**

Benítez, J. (*with* Obregón, O.) Nonsingular de Sitter universe in $R + R^2 - 2\Lambda$ gravity. (English summary) **93g:83082**

Berthias, Jean-Paul (*with* Shahid-Saless, Bahman) Torsion and nonmetricity in scalar-tensor theories of gravity. (English summary) **93m:83067**

Boström, Ola *see* **Bengtsson, Ingemar**, **93c:83093**

Casas, J. A. (*with* García-Bellido, Juan; Quirós, Mariano) Scalar-tensor theories of gravity with Φ-dependent masses. **93d:83054**

Ćatović, Z. *see* **Lukačević, I.**, **93b:83057**

Cervantes-Cota, Jorge *see* **Chauvet, Pablo; et al.**, **93k:83060**

Chang, Chun Hsu *see* **Tung, Roh Suan; et al.**, **93h:83033**

Chatterjee, Sujit (*with* Sil, A.) Extended inflation in higher-dimensional spacetime with a Brans-Dicke scalar field. (English summary) **93j:83065**

Chauvet, Pablo (*with* Cervantes-Cota, Jorge; Núñez Yépez, H. N.) Vacuum-analytic solutions in Bianchi-type universes. **93k:83060**

— (*with* Pimentel, Luis O.) Cosmological models in the scalar-tetradic theory B. **93a:83031**

Chern, De Ching (*with* Nester, James M.; Yo, Hwei-Jang) Positive energy test of Poincaré gauge theory. **93c:83094**

— *see also* **Tung, Roh Suan; et al.**, **93h:83033**

Chernikov, N. A. ★ Уравнения тяготения в пространстве Лобачевского. (Russian. English and Russian summaries) [Gravity equations in a Lobachevskii space] **93g:83083**

Cohen, Jeffrey Marshal *see* **Mustafa, Errol**

Cornish, N. J. (*with* Moffat, J. W.; Tatarski, D. C.) Gravitational waves in the nonsymmetric gravitational theory. (English summary) **93k:83061**

Cotsakis, Spiros Conformal transformations single out a unique measure of distance. (English summary) **93k:83062**

Dagach, Luis A. *see* **Dagach, Sergio L.**, **93m:83068**

Dagach, Sergio L. (*with* Dagach, Luis A.) The foundation of a theory of moving bodies in a locally nonrelativistic Riemannian space. (English summary) **93m:83068**

Damour, Thibault (*with* Esposito-Farese, Gilles) Tensor-multi-scalar theories of gravitation. (English summary) **93f:83070**

— (*with* Deser, S.; McCarthy, James G.) Theoretical problems in nonsymmetric gravitational theory. **93b:83051**

Demaret, J. (*with* De Rop, Y.; Tombal, P.; Moussiaux, A.) Qualitative analysis of ten-dimensional Lovelock cosmological models. (English summary) **93g:83084**

Demys, K. Erratum: "Comment: 'On the hyperbolic complex linear symmetry groups and their local gauge transformation actions' by Z. Z. Zhong" [J. Math. Phys. **28** (1987), no. 2, 339; MR 88a:83062]. **93i:83074**

De Rop, Y. *see* **Demaret, J.; et al.**, **93g:83084**

Deser, S. *see* **Damour, Thibault; et al.**, **93b:83051**

Ellis, George F. R. *see* **Xu, Chong Ming**, **93c:83108** *and* **Teyssandier, P.**, **93g:83089**

El-Tahir, Ali R^2-gravity at short distances from the gravitational centre. **93e:83059**

— A generalized metric of gravitation. **93d:83055**

Esposito-Farese, Gilles *see* **Damour, Thibault**, **93f:83070**

Ferrarese, Giorgio On the unified theory of Einstein and Schrödinger. (Italian. English summary) **93f:83071**

Figueiredo, B. D. B. (*with* Soares, Ivano Damião; Tiomno, J.) Gravitational coupling of Klein-Gordon and Dirac particles to matter vorticity and spacetime torsion. **93h:83030**

Francaviglia, Mauro Alternative gravity theories. (*see* **93b:83002**)

Franke, V. A. (*with* Tapia, V.) The ADM Lagrangian in extrinsic gravity. **93g:83085**

Frolov, B. N. (*with* Karbanovski, Valeri) The asymptotical solutions near the singular points for perfect fluid configurations in the conformal Poincaré-gauge theory of gravitation. (English summary) **93g:83086**

Fuentes y Martínez, G. J. *see* **Macías, A.; et al.**, **93m:83070**

Gabriel, M. D. *see* **Palmer, J. H.; et al.**, **93c:83102** *and* **(93b:83003)**

García-Bellido, Juan *see* **Casas, J. A.; et al.**, **93d:83054**

Genk, A. V. A nonstatic centrally symmetric vacuum solution in RTG. (Russian. English summary) **93b:83052**

— The motion of particles in a centrally symmetric field in the relativistic theory of gravitation. (Russian. English summary) **93c:83095**

— Spherical gravitational waves in the relativistic theory of gravitation. (Russian. English and Russian summaries) **93i:83075**

Ghoroku, Kazuo (*with* Soma, Teruhiko) Lorentzian wormholes in higher-derivative gravity and the weak energy condition. (English summary) **93e:83060**

Gokhroo, M. K. *see* **Mehra, A. L.**

Gotzes, Siegfried Gravity as an SO(3, 2) gauge theory. **93c:83096**

Grignani, G. (*with* Nardelli, G.) Gravity and the Poincaré group. **93b:83053**

Guzmán, Enrique Isotropization in Brans-Dicke-Bianchi type-V. **93a:83032**

Haugan, M. P. *see* **Palmer, J. H.; et al.**, **93c:83102** *and* **(93b:83003)**

Hayashi, Masaki (*with* Nelipa, N. F.; Yakovlev, A.) On a possibility of constructing a gauge-invariant Lagrangian for $N = 1$ super-Poincaré gravity. (English summary) **93i:83076**

— *see also* **Baĭkov, P. A.; et al.**, **93c:83091**

Hecht, R. D. On Toma's Kerr metric solution in new general relativity. **93g:83087**

Hehl, Friedrich W. *see* **Baekler, P.; et al.**, **93d:83053**

Hu, Xing On the exact solutions and invariant rays of the phase plane in Brans-Dicke theory.

Ikeda, Satoshi On the theory of gravitational field in Finsler spaces. (English summary) **93k:83063**

Israelit, Mark (*with* Rosen, Nathan) Weyl-Dirac geometry and dark matter. **93b:83054**

— (*with* Rosen, Nathan) The static character of prematter particles. **93d:83056**

Jha, Ramanand A parity-violating U_4-gravitation theory. (English summary) **93j:83066**

Kao, W. F. Scale-invariant effective action with torsion. (French summary) **93c:83097**

Karbanovski, Valeri *see* **Frolov, B. N.**, **93g:83086**

Kawai, Toshiharu (*with* Toma, Naoki) A charged Kerr metric solution in new general relativity. **93c:83098**

Kelly, P. F. Erratum: "Expansions of nonsymmetric gravitational theories about a GR background" [Classical Quantum Gravity **8** (1991), no. 6, 1217–1229; MR 92b:83086]. **93g:83088**

Khodunov, A. V. (*with* Zhytnikov, V. V.) Gravitational equations in space-time with torsion. (English summary) **93h:83031**

Korotkiĭ, V. A. (*with* Obukhov, Yu. N.) Rotating and expanding cosmology in ECSK-theory. (English summary) **93m:83069**

Krisch, Jean P. *see* **Smalley, Larry L.**, **93f:83074**

Kummer, Wolfgang (*with* Schwarz, Dominik J.) General analytic solution of R^2 gravity with dynamical torsion in two dimensions. **93b:83055**

Lämmerzahl, Claus The geometry of matter fields. (*see* **93d:83003**)

Liddle, Andrew R. (*with* Mellor, Felicity) de Sitter solutions in higher order gravity. **93b:83056**

Loskutov, Yu. M. Gravitational wave radiation in the case of a nonzero graviton mass. (Russian. English summary) **93a:83033**

Lukačević, I. (*with* Ćatović, Z.) Nonstatic spherically symmetric space-times in Rosen's bimetric gravitation theory. **93b:83057**

Macías, A. (*with* Fuentes y Martínez, G. J.; Obregón, O.) The Dirac equation in 5-dimensional Wesson gravity. (English summary) **93m:83070**

Mann, Robert B. Lowest-dimensional gravity. **93c:83099**

— *see also* **Palmer, J. H.; et al.**, **93c:83102** *and* **(93b:83003)**

Mattes, M. (*with* Sorg, M.) Nonstandard model of the expanding universe. **93c:83100**

Matyjasek, Jerzy (*with* Rogatko, Marek) Cosmic strings in Lyra geometry. (English summary) **93d:83057**

McCarthy, James G. *see* **Damour, Thibault; et al.**, **93b:83051**

Mehra, A. L. (*with* Gokhroo, M. K.) Static dust sphere in Einstein-Cartan theory. (English summary)

Mellor, Felicity *see* **Liddle, Andrew R.**, **93b:83056**

Mielke, Eckehard W. *see* **Baekler, P.; et al.**, **93d:83053**

Mignemi, Salvatore (*with* Wiltshire, David L.) Black holes in higher-derivative gravity theories. (English summary) **93e:83061**

Moffat, J. W. *see* **Cornish, N. J.; et al.**, **93k:83061**

Monovskiĭ, O. V. *see* **Vlasov, A. A.**, **93i:83080**

Moussiaux, A. *see* **Demaret, J.; et al.**, **93g:83084**

Müller-Hoissen, Folkert Higher derivative versus second order field equations. (German summary) **93c:83101**

Mustafa, Errol (*with* Cohen, Jeffrey Marshal) Weak field limit and tests of a relativistic theory of gravity. (English summary)

Nardelli, G. *see* **Grignani, G.**, **93b:83053**

Nelipa, N. F. *see* **Baĭkov, P. A.; et al.**, **93c:83091** *and* **Hayashi, Masaki; et al.**, **93i:83076**

Nester, James M. *see* **Chern, De Ching; et al.**, **93c:83094** *and* **Tung, Roh Suan; et al.**, **93h:83033**

Nikolaenko, V. M. The gauge Weyl invariant gravitational equation and its class of solutions. **93a:83034**

Núñez Yépez, H. N. *see* **Chauvet, Pablo; et al.**, **93k:83060**

Oancea, Servilia The effects of torsion for fields of axial symmetry. (English summary) **93m:83071**

— The gravitational and electromagnetic fields in a space-time with torsion. (English summary)

Obregón, O. *see* **Benítez, J.**, **93g:83082** *and* **Macías, A.; et al.**, **93m:83070**

Obukhov, V. V. *see* **Bagrov, V. G.**

Obukhov, Yu. N. *see* **Korotkiĭ, V. A.**, **93m:83069**

Odintsov, S. D. (*with* Shapiro, I. L.) Phase transition on the curvature in quantum R^2-gravitation and induction of Einstein gravitation. (Russian. English and Russian summaries) **93f:83072**

— *see also* **Barbero, J. F.**, **93k:83059**

de Oliveira, H. P. Spinning fluids in the Einstein-Cartan theory: a variational formulation. (English summary) **93k:83064**

Ostapchenko, S. *see* **Baĭkov, P. A.; et al.**, **93c:83091**

Palmer, J. H. (*with* Mann, Robert B.; Gabriel, M. D.; Haugan, M. P.) Electromagnetism in nonsymmetric theories of gravity: gravitationally induced polarization shifts. **93c:83102**

— (*with* Mann, Robert B.; Gabriel, M. D.; Haugan, M. P.) Polarization shifts in nonsymmetric theories of gravity. (*see* **93b:83003**)

Papini, G. *see* **Wood, W. R.**, **93c:83107**

Pazameta, Zoran Solving Bertolami's equations for Brans-Dicke cosmological models. (English summary)

Petry, Walter Post-Newtonian approximation of gravitation theory in flat space-time. **93b:83058**

Pimentel, Luis O. *see* **Chauvet, Pablo**, **93a:83031**

Pinson, K. Kh. È. Nonstatic solutions of Kasner type in the relativistic theory of gravitation. (Russian. English and Russian summaries) **93i:83077**

Pronin, P. I. Renormalization of field theories in Riemann-Cartan space-time. (*see* **93d:83003**)

Quirós, Mariano *see* **Casas, J. A.; et al.**, **93d:83054**

Raigorodskiĭ, L. D. On variational principles and energy-momentum tensor. **93d:83058**

Riazi, Nematullah (*with* Askari, Hassan Randjbar) Spherically symmetric, static solutions of the Brans-Dicke field equations in vacuum. (English summary) **93k:83065**

Rogatko, Marek *see* **Matyjasek, Jerzy**, **93d:83057**

Romero, Carlos Augusto (*with* Barros, A.) Brans-Dicke cosmology and the cosmological constant: the spectrum of vacuum solutions. (English summary) **93d:83059**

— (*with* Barros, A.) Brans-Dicke vacuum solutions and the cosmological constant: a qualitative analysis. (English summary) **93k:83066**

— *see also* **Assad, M. J. D.**, **93a:83030**

Rose, Bernhard Field equations for gravity quadratic in the curvature. **93i:83078**
Rosen, Nathan *see* **Israelit, Mark, 93b:83054** *and* **93d:83056**
Savaria, Pierre Spherical collapse of a nonrotating perfect fluid in the nonsymmetric theory of gravitation. **93c:83103**
Schmutzer, Ernst Projective unified field theory in context with the cosmological term and the variability of the gravitational constant. (English summary) (*see* **93j:83004**)
Schwarz, Dominik J. *see* **Kummer, Wolfgang, 93b:83055**
Shahid-Saless, Bahman *see* **Berthias, Jean-Paul, 93m:83067**
Shapiro, I. L. *see* **Odintsov, S. D., 93f:83072**
Sil, A. *see* **Chatterjee, Sujit, 93j:83065**
Silaev, P. K. Static spherically symmetric solution for scalar and electromagnetic fields. (Russian. English and Russian summaries) **93i:83079**
Singh, Triloki (*with* Arcidiacono, G.) On a Birkhoff-type theorem in general projective relativity. (English summary) **93h:83032**
— (*with* Agrawal, Anil Kumar) Bianchi type-II, VIII and IX in certain new theories of gravitation. **93f:83073**
Smalley, Larry L. (*with* Krisch, Jean P.) Minimal coupling of electromagnetic field in Riemann-Cartan spacetime for perfect fluids. **93f:83074**
Soares, Ivano Damião *see* **Figueiredo, B. D. B.; et al., 93h:83030**
Solov'ëv, A. V. *see* **Vladimirov, Yu. S., 93j:83068a** *and* **93j:83068b**
Soma, Teruhiko *see* **Ghoroku, Kazuo, 93e:83060**
Sorg, M. *see* **Mattes, M., 93c:83100**
Tapia, V. *see* **Franke, V. A., 93g:83085**
Tatarski, D. C. *see* **Cornish, N. J.; et al., 93k:83061**
Teitelboim, Claudio *see* **Bañados, Máximo; et al., (93b:81004)**
Teyssandier, P. Comment on: "A new solution on linearized $R+\tau R^2+\lambda R_{\mu\nu}R^{\mu\nu}$ gravitational theory in harmonic gauge" [Classical Quantum Gravity **8** (1991), no. 9, 1747–1756; MR 92h:83064] by C. M. Xu and G. F. R. Ellis. (English summary) **93g:83089**
Tiomno, J. *see* **Figueiredo, B. D. B.; et al., 93h:83030**
Toma, Naoki *see* **Kawai, Toshiharu, 93c:83098**
Tombal, P. *see* **Demaret, J.; et al., 93g:83084**
Tresguerres, Romualdo Topological gravity in a three-dimensional metric-affine space-time. (English summary) **93j:83067**
Tung, Roh Suan (*with* Chang, Chun Hsu; Chern, De Ching; Nester, James M.) Asymptotic anti-de Sitter conditions for Poincaré gauge theory. (English summary) **93h:83033**
Tverskoĭ, V. B. Some nonsingular configurations of field systems in the relativistic theory of gravitation. (Russian. English summary) **93c:83104**
Udrişte, Constantin d-connections that assure nonconstant gravitational function. (French summary) **93c:83105**
Vladimirov, Yu. S. (*with* Solov'ëv, A. V.) Generalized Dirac equations for free particles in binary geometric physics. I. A structure of rank $(3,3;\sigma)$. (Russian) **93j:83068a**
— (*with* Solov'ëv, A. V.) Generalized Dirac equations for free particles in binary geometric physics. II. A structure of rank $(4,4;\sigma)$. (Russian) **93j:83068b**
Vlasov, A. A. (*with* Monovskiĭ, O. V.) A problem on an expanding shell in the relativistic theory of gravitation. (Russian. English and Russian summaries) **93i:83080**
— Exact solution for a light shell in a theory of RTG type. (Russian. Russian summary) **93k:83067**
Waga, I. The existence of Newtonian analogs of a class of 5D Wesson's cosmological models. **93c:83106**
Wiltshire, David L. *see* **Mignemi, Salvatore, 93e:83061**
Wood, W. R. (*with* Papini, G.) Broken Weyl invariance and geometric particles. **93c:83107**
Xu, Chong Ming (*with* Ellis, George F. R.) A new higher-order gravitational field equation with $L=R+\Omega R_{\mu\nu}R^{\mu\nu}/R+\tau R_{\alpha\beta\gamma\delta}R^{\alpha\beta\gamma\delta}/R$. **93c:83108**
— *see also* **Teyssandier, P., 93g:83089**
Yakovlev, A. *see* **Hayashi, Masaki; et al., 93i:83076**
Yılmaz, H. Toward a field theory of gravitation. (English summary) **93j:83069**
Yo, Hwei-Jang *see* **Chern, De Ching; et al., 93c:83094**
Yoshimura, M. Unstable spacetime in the Jordan-Brans-Dicke gravity. **93a:83035**
Zanelli, Jorge *see* **Bañados, Máximo; et al., (93b:81004)**
Zhogin, I. L. Singularities in the theory of gravitation. (Russian. Russian summary) **93i:83081**
(Zhong, Zai Zhe) *see* **Demys, K., 93i:83074**
Zhytnikov, V. V. *see* **Khodunov, A. V., 93h:83031**

Items with secondary classifications in 83D05

Anastasiei, Mihai *see* **Miron, Radu; et al., 93b:53020**
Asanov, G. S. (*with* Kawaguchi, Tomoaki) Anomalously-Finslerian corrections to speed-of-light given by metric tensor $g_{ij}(x,\dot{x})=r_{ij}(x)+\beta l_i l_j$. **93c:53012**
Bagrov, V. G. (*with* Bukhbinder, I. L.; Shapiro, I. L.) Possible experimental manifestations of a torsion field. (Russian. Russian summary) **93f:83006**
Bengtsson, Ingemar Self-duality and the metric in a family of neighbors of Einstein's equations. **93c:83005**
— (*with* Peldán, Peter) Another "cosmological" constant. **93c:83004**
Bhawal, Biplab (*with* Kar, Sayan) Lorentzian wormholes in Einstein-Gauss-Bonnet theory. (English summary) **93e:83062**
Brandt, Howard E. Finsler-spacetime tangent bundle. **93e:53025**
Buchner, Klaus *see* **Miron, Radu; et al., 93b:53020**
Bukhbinder, I. L. *see* **Bagrov, V. G.; et al., 93f:83006**
Chilton, J. H. (*with* Norris, L. K.) Variational principle for the $P(4)$ affine theory of gravitation and electromagnetism. **93j:83078**
Chmielowski, Piotr Matching and junction conditions in the Poincaré gauge theory of gravity with quadratic Lagrangian. (English summary) **93m:83047**
Covarrubias, G. M. Lie groups in cosmology. **93c:83041**
Denisov, M. I. *see* **Denisov, V. I., 93k:83019**
Denisov, V. I. (*with* Denisov, M. I.) Generalization of post-Newtonian formalism. (Russian. English and Russian summaries) **93k:83019**
De Sabbata, Venzo (*with* Sivaram, C.) Torsion, time and temperature (the T^3 theorem). (English summary) **93j:83044**
— (*with* Sivaram, C.) Curvature from spin. (English summary) **93i:83055**
Drechsler, W. Quantized fiber dynamics for extended elementary objects involving gravitation. (English summary) **93j:81059**
Dubois-Violette, Michel (*with* Madore, J.; Kerner, Richard) Super matrix geometry. **93b:58014**
Everitt, C. W. F. *see* **Kalligas, D.; et al., 93b:83069**
Fleming, Henrique (*with* Resek, E. O.) Conservation laws for fermions in spaces with torsion. (English summary) **93d:83027**
Fonseca-Neto, J. B. (*with* Rebouças, M. J.; Teixeira, A. F. F.) The equivalence problem in torsion theories of gravitation. **93i:53069**
Germán, G. (*with* Macías, A.; Obregón, O.) Kaluza-Klein approach in higher-dimensional theories of gravity with torsion. (English summary) **93m:83074**
Granda, L. N. (*with* Pyzh, V. M.) Effective action in R^2 gravity and spontaneous compactification. (English summary) **93f:83077**
Hammond, Richard T. Naked singularities with vector torsion gravity. (English summary) **93i:83068**
Hecht, R. D. (*with* Hehl, Friedrich W.; McCrea, J. Dermott; Mielke, Eckehard W.; Ne'eman, Yuval) Improved energy-momentum currents in metric-affine spacetime. (English summary) **93k:83023**
Hehl, Friedrich W. *see* **Hecht, R. D.; et al., 93k:83023**
Heller, Michael Einstein algebras and general relativity. **93c:83010**
Ikeda, Satoshi On the theory of gravitational field in Finsler spaces. **93e:53027**
Kadeisvili, J. V. ★ Santilli's isotopies of contemporary algebras, geometries and relativities. **93f:58077**
Kalinowski, M. W. The nonsymmetric Kaluza-Klein (Jordan-Thiry) theory in the electromagnetic case. **93c:83110**
Kalligas, D. (*with* Wesson, Paul S.; Everitt, C. W. F.) Flat FRW models with variable G and Λ. **93b:83069**
Kar, Sayan *see* **Bhawal, Biplab, 93e:83062**
Kawaguchi, Tomoaki *see* **Asanov, G. S., 93c:53012**
Kerner, Richard *see* **Dubois-Violette, Michel; et al., 93b:58014**
Laciana, Carlos E. Inflation in R^2 cosmology with massless conformal scalar field and adiabatic regularization. (English summary) **93k:83072**
Lecompte, Alvaro *see* **Vargas, José G.; et al., 93h:53075**
Lee, Jong Woo Some geometric results on S.E.S.-manifold X_{2n}. **93c:53009**
Li, Yuan Jie (*with* Wang, Zhi Jun) Inhomogeneous R^2 inflationary models. (English summary) **93g:83099**
Lidsey, James E. Multiple and anisotropic inflation with exponential potentials. **93a:83041**
— The fragility and rigidity of cosmological theories. (English summary) **93k:83073**
Macías, A. *see* **Germán, G.; et al., 93m:83074**
Madore, J. *see* **Dubois-Violette, Michel; et al., 93b:58014**
Mashkevich, V. S. Indeterministic theory of gravitation. (Russian. English, Russian and Ukrainian summaries) **93k:83032**
Matos, Tonatiuh (*with* Rodríguez, Guadalupe) Exact solutions of N-dimensional stationary Kaluza-Klein field equations. (English summary) **93e:83065**
Mazzitelli, Francisco D. Midisuperspace-induced corrections to the Wheeler-DeWitt equation. (English summary) **93f:83044**
McCrea, J. Dermott *see* **Hecht, R. D.; et al., 93k:83023**
Mena Marugán, G. A. Perturbative formalism of Lovelock gravity. (English summary) **93f:83079**
— Dynamically generated four-dimensional models in Lovelock cosmology. (English summary) **93f:83080**
Mielke, Eckehard W. *see* **Hecht, R. D.; et al., 93k:83023**
Miron, Radu (*with* Roşca, Radu; Anastasiei, Mihai; Buchner, Klaus) New aspects of Lagrangian relativity. **93b:53020**
Modak, Bijan *see* **Sanyal, Abhik Kumar, 93d:83075**
Ne'eman, Yuval *see* **Hecht, R. D.; et al., 93k:83023**
Norris, L. K. *see* **Chilton, J. H., 93j:83078**
Obregón, O. *see* **Germán, G.; et al., 93m:83074**
Peldán, Peter *see* **Bengtsson, Ingemar, 93c:83004**
Pyzh, V. M. *see* **Granda, L. N., 93f:83077**
Rapoport Campodónico, Diego Lucio Stochastic processes in conformal Riemann-Cartan-Weyl gravitation. **93d:58188**
Rebouças, M. J. *see* **Fonseca-Neto, J. B.; et al., 93i:53069**
Resek, E. O. *see* **Fleming, Henrique, 93d:83027**
Rodríguez, Guadalupe *see* **Matos, Tonatiuh, 93e:83065**
Roşca, Radu *see* **Miron, Radu; et al., 93b:53020**
(Santilli, Ruggero Maria) *see* **Kadeisvili, J. V., 93f:58077**
Sanyal, Abhik Kumar (*with* Modak, Bijan) Extended inflation—a quantum-cosmological survey. (English summary) **93d:83075**
Shapiro, I. L. *see* **Bagrov, V. G.; et al., 93f:83006**
Sivaram, C. *see* **De Sabbata, Venzo, 93i:83055** *and* **93j:83044**
Sławianowski, Jan J. GL$(n,\mathbf{R})$, tetrads and generalized space-time dynamics. (English summary) **93g:53097**
Smrz, P. K. Einstein-Ōtsuki vacuum equations. (English summary) **93m:53022**
Stavrinos, Panayiotis Tidal forces in vertical spaces of Finslerian space-time. (English summary) **93m:53020**
Teixeira, A. F. F. *see* **Fonseca-Neto, J. B.; et al., 93i:53069**
Torr, Douglas G. *see* **Vargas, José G.; et al., 93h:53075**
Vargas, José G. Geometrization of the physics with teleparallelism. I. The classical interactions. **93h:53074**
— (*with* Torr, Douglas G.; Lecompte, Alvaro) Geometrization of the physics with teleparallelism. II. Towards a fully geometric Dirac equation. **93h:53075**
Wang, Zhi Jun *see* **Li, Yuan Jie, 93g:83099**
Wesson, Paul S. *see* **Kalligas, D.; et al., 93b:83069**

83Exx Unified, higher-dimensional and super field theories

83E05 Geometrodynamics

Friedman, John L. Is physics consistent with closed timelike curves? **93d:83060**
Frolov, V. P. (*with* Novikov, Igor D.) Physical effects in wormholes and time machine. **93f:83075**
Gibbons, G. W. (*with* Hawking, Stephen W.) Kinks and topology change. (English summary) **93f:83076**
Hawking, Stephen W. *see* **Gibbons, G. W., 93f:83076**
Hochberg, David (*with* Kephart, Thomas W.) Wormhole cosmology and the horizon problem. (English summary) **93m:83072**
Kephart, Thomas W. *see* **Hochberg, David, 93m:83072**
Kuchař, Karel V. *see* **Stone, C. L., 93b:83059**
Novikov, Igor D. *see* **Frolov, V. P., 93f:83075**
Roman, Thomas A. Inflating Lorentzian wormholes. (English summary) **93k:83068**
Shen, You Gen (*with* Tan, Zhen Qiang) Wormhole in the Einstein theory. **93d:83061**
Stone, C. L. (*with* Kuchař, Karel V.) Representation of spacetime diffeomorphisms in canonical geometrodynamics under harmonic coordinate conditions. **93b:83059**
Tan, Zhen Qiang *see* **Shen, You Gen, 93d:83061**

Items with secondary classifications in 83E05

Chakraborty, Subenoy Wormhole solutions in $\mathbf{R}^1 \times S^1 \times S^2$ topological space. (English summary) **93e:83014**
Donets, E. E. (*with* Gal′tsov, D. V.) Continuous family of Einstein-Yang-Mills wormholes. (English summary) **93i:83027**
Frolov, V. P. Vacuum polarization in a locally static multiply-connected spacetime and a time machine problem. **93f:83048**
Gal′tsov, D. V. *see* **Donets, E. E., 93i:83027**
González-Díaz, Pedro F. Equivalence among wormhole instantons. **93j:83037**
Hawking, Stephen W. Wormholes in dimensions 1–4. **93d:83068**
Heinrich, O. Equilibrium configurations of superconducting cosmic strings in background fields. (*see* **93b:83004**)
Maeda, Kei-ichi *see* **Nakao, Ken-ichi; et al., 93m:83057**
Nakao, Ken-ichi (*with* Yamamoto, Kazuhiro; Maeda, Kei-ichi) Apparent horizons of an N-black-hole system in a space-time with a cosmological constant. (English summary) **93m:83057**
Page, Don N. *see* **Twamley, Jason, 93j:83024**
Rebouças, M. J. (*with* Teixeira, A. F. F.) Einstein universe as a moving fluid cosmology. **93f:83022**
Redmount, Ian H. (*with* Suen, Wai-Mo) Is quantum spacetime foam unstable? (English summary) **93k:83036**
Suen, Wai-Mo *see* **Redmount, Ian H., 93k:83036**
Teixeira, A. F. F. *see* **Rebouças, M. J., 93f:83022**
Twamley, Jason (*with* Page, Don N.) Imaginary wormholes. **93j:83024**
Yamamoto, Kazuhiro *see* **Nakao, Ken-ichi; et al., 93m:83057**

83E15 Kaluza-Klein and other higher-dimensional theories

Balbinot, Roberto *see* **Kerner, Richard; et al., 93c:83111**
Banerjee, Asit Kumar *see* **Chatterjee, Sujit, 93h:83034**
Becerril, Ricardo (*with* Matos, Tonatiuh) Stationary solutions in five-dimensional gravity with a magnetic field. (English summary)
Bertolami, O. (*with* Kubyshin, Yu. A.; Mourão, J. M.) Stability of compactification in Einstein-Yang-Mills theories after inflation. **93b:83060**
Bhawal, Biplab (*with* Kar, Sayan) Lorentzian wormholes in Einstein-Gauss-Bonnet theory. (English summary) **93e:83062**
Bleyer, U. (*with* Liebscher, D.-E.; Polnarev, A. G.) Kaluza-Klein models: from quantum state to observations. **93d:83062**
Borgohain, P. *see* **Krori, K. D.; et al., 93j:83071**
Bronnikov, K. A. Charged black holes and multidimensional gravity. (German summary) **93d:83063**
Cassidy, R. M. (*with* Stuckey, W. M.) The Hamiltonian for the Mixmaster vacuum universe with geometry $\mathbf{R} \times S^7$. **93c:83109**
Chakraborty, Ashok Kr. Inflationary solution in higher dimensions. (English summary) **93d:83064**
— *see also* **Chakraborty, Subenoy, 93k:83069**
Chakraborty, Subenoy Inflationary solutions in higher-dimensional quantum cosmology. (English summary) **93e:83063**
— (*with* Chakraborty, Ashok Kr.) Inhomogeneous string cosmology in higher dimension. (English summary) **93k:83069**
Chatterjee, Sujit (*with* Banerjee, Asit Kumar) Kaluza-Klein type of inhomogeneous cosmological model. (English summary) **93h:83034**
Chaudhury, Tarakeswar *see* **Krori, K. D.; et al., 93j:83071**
Cho, Y. M. (*with* Soh, Kwang Sup; Yoon, Jaihan; Park, Q-Han) Gravitation as gauge theory of the diffeomorphism group. (English summary) **93i:83082**
Das, Kanika *see* **Krori, K. D.; et al., 93j:83071**
Ebner, Dieter W. Scalar fields in a seven-dimensional manifold behaving as Lorentz-covariant spinor fields in space-time. **93d:83065**
Fabris, Júlio C. (*with* Tossa, J.) Qualitative study of multidimensional cosmological models. (English summary) **93i:83083**
— *see also* **Kerner, Richard; et al., 93c:83111**
Fadeev, S. B. *see* **Ivashchuk, Vladimir D.; et al., 93m:83076**
Ferrarese, Giorgio Kaluza-Klein theories and projection techniques. (English summary) **93m:83073**
Germán, G. (*with* Macías, A.; Obregón, O.) Kaluza-Klein approach in higher-dimensional theories of gravity with torsion. (English summary) **93m:83074**
Granda, L. N. (*with* Pyzh, V. M.) Effective action in R^2 gravity and spontaneous compactification. (English summary) **93f:83077**
Guendelman, E. I. (*with* Rabinowitz, A. I.) Hedgehog compactification. (English summary) **93m:83075**
Halpern, Paul (*with* Kerrick, David) Five-dimensional solutions for the modified Einstein-Hilbert Lagrangian. (English summary) **93i:83084**
Ivashchuk, Vladimir D. (*with* Mel′nikov, V. N.; Fadeev, S. B.) Black holes in multidimensional theory with Ricci-flat internal spaces. (Russian. Russian summary) **93m:83076**
— Multidimensional cosmology and Toda-like systems. (English summary) **93j:83070**
Kalinowski, M. W. The nonsymmetric Kaluza-Klein (Jordan-Thiry) theory in the electromagnetic case. **93c:83110**
Kapetanakis, D. (*with* Zoupanos, G.) Coset-space-dimensional reduction of gauge theories. (English summary) **93m:83077**
Kar, Sayan *see* **Bhawal, Biplab, 93e:83062**
Kerner, Richard (*with* Balbinot, Roberto; Fabris, Júlio C.) Cosmological solutions from supersymmetric Kaluza-Klein theory. **93c:83111**
Kerrick, David *see* **Halpern, Paul, 93i:83084**
Krori, K. D. (*with* Chaudhury, Tarakeswar; Borgohain, P.; Das, Kanika; Mahanta, Chandra Rekha) Charged solutions in higher dimensions. (English and French summaries) **93j:83071**
Kubyshin, Yu. A. *see* **Bertolami, O.; et al., 93b:83060**
Lee, Xin Jian (*with* Wu, You Lin) Five-dimensional Kaluza-Klein theory in Weitzenböck space. (English summary) **93i:83085**
Liebscher, D.-E. *see* **Bleyer, U.; et al., 93d:83062**
Lim, Paul H. *see* **Wesson, Paul S., 93g:83091**
Macías, A. *see* **Germán, G.; et al., 93m:83074**
Mahanta, Chandra Rekha *see* **Krori, K. D.; et al., 93j:83071**
Maia, M. D. (*with* Roque, W. L.) Higher-order space-time contacts and equivalence. **93g:83090**
Makaruk, Hanna Dynamical reduction in multidimensional cosmological models. **93e:83064**
Maszczyk, Roman A. Fluid of multidimensional objects in cosmology. **93f:83078**
Matos, Tonatiuh (*with* Rodríguez, Guadalupe) Exact solutions of N-dimensional stationary Kaluza-Klein field equations. (English summary) **93e:83065**
— *see also* **Becerril, Ricardo**
Mel′nikov, V. N. *see* **Ivashchuk, Vladimir D.; et al., 93m:83076**
Mena Marugán, G. A. Perturbative formalism of Lovelock gravity. (English summary) **93f:83079**
— Dynamically generated four-dimensional models in Lovelock cosmology. (English summary) **93f:83080**
Mourão, J. M. *see* **Bertolami, O.; et al., 93b:83060**
Obregón, O. *see* **Germán, G.; et al., 93m:83074**
Park, Q-Han *see* **Cho, Y. M.; et al., 93i:83082**
Perasa Al′vares, Ameriko *see* **Vladimirov, Yu. S., 93j:83073**
Polnarev, A. G. *see* **Bleyer, U.; et al., 93d:83062**
Ponce de León, J. *see* **Wesson, Paul S., 93i:83087**
Pyzh, V. M. *see* **Granda, L. N., 93f:83077**
Rabinowitz, A. I. *see* **Guendelman, E. I., 93m:83075**
Rodríguez, Guadalupe *see* **Matos, Tonatiuh, 93e:83065**
Roque, W. L. *see* **Maia, M. D., 93g:83090**
Shen, You Gen Interior solutions in static spherical symmetric higher-dimensional space-time. **93m:83078**
Soh, Kwang Sup *see* **Cho, Y. M.; et al., 93i:83082**
Srivastava, Sushil K. Cosmological compactification in Kaluza-Klein model and time-dependent cosmological term. (English summary) **93f:83081**
— D-dimensional torus as compact manifold and Kaluza-Klein cosmological model. (English summary) **93j:83072**
Stuckey, W. M. *see* **Cassidy, R. M., 93c:83109**
Tavakol, R. K. *see* **Van den Bergh, N., 93i:83086**
Tossa, J. *see* **Fabris, Júlio C., 93i:83083**
Van den Bergh, N. (*with* Tavakol, R. K.) Sensitivity of dynamical-dimensional reduction in Kaluza-Klein cosmology. (English summary) **93i:83086**
Vladimirov, Yu. S. (*with* Perasa Al′vares, Ameriko) Homogeneous isotropic cosmological models in the six-dimensional Kaluza-Klein theory. (Russian. Russian summary) **93j:83073**
Wesson, Paul S. (*with* Lim, Paul H.) Astrophysical implications of a solution in Kaluza-Klein gravity. (English summary) **93g:83091**
— (*with* Ponce de León, J.) Kaluza-Klein equations, Einstein's equations, and an effective energy-momentum tensor. **93i:83087**
Wolf, Carl Anton A charged fluid sphere in D space-time dimensions with vanishing normal pressure. (English and French summaries)
Wu, You Lin *see* **Lee, Xin Jian, 93i:83085**
Yoon, Jaihan *see* **Cho, Y. M.; et al., 93i:83082**
Zoupanos, G. *see* **Kapetanakis, D., 93m:83077**

Items with secondary classifications in 83E15

Baadhio, Randy A. (*with* Lee, Pascal) On the global gravitational instanton and soliton that are homotopy spheres. **93c:57026**
Banerjee, Asit Kumar (*with* Dutta Choudhury, S. B.; Chatterjee, Sujit) Nonstatic perfect fluid sphere in higher-dimensional space-time. (English summary) **93g:83060**
Bellucci, Stefano Supersymmetry in anti-de Sitter space. (English summary) **93f:81094**
Bytsenko, A. A. (*with* Vanzo, Luciano; Zerbini, Sergio) Massless scalar Casimir effect in a class of hyperbolic Kaluza-Klein space-times. **93i:81161**
(Cadoni, Mariano) *see* **Wiltshire, David L., 93k:83052**
Chatterjee, Sujit A class of multidimensional cosmological models and its possible astrophysical consequences. (English summary) **93f:83085**
— *see also* **Banerjee, Asit Kumar; et al., 93g:83060**
Cho, Y. M. (*with* Zoh, S. W.) Explicit construction of massive spin-two fields in Kaluza-Klein theory. (English summary) **93f:81095**
Dehnen, H. *see* **Macías, A., 93k:83040**
Demaret, J. (*with* De Rop, Y.; Tombal, P.; Moussiaux, A.) Qualitative analysis of ten-dimensional Lovelock cosmological models. (English summary) **93g:83084**
De Rop, Y. *see* **Demaret, J.; et al., 93g:83084**
Dutta Choudhury, S. B. *see* **Banerjee, Asit Kumar; et al., 93g:83060**
Fadeev, S. B. (*with* Ivashchuk, Vladimir D.; Mel′nikov, V. N.) Variations of constants and exact solutions in multidimensional gravity. (*see* **93j:83004**)

Fuentes y Martínez, G. J. *see* **Macías, A.; et al., 93m:83070**
Gasperini, M. (*with* Giovannini, M.) Gravity waves from primordial dimensional reduction. (English summary) **93f:83086**
Giovannini, M. *see* **Gasperini, M., 93f:83086**
Hájíček, Petr Large diffeomorphisms and Dirac quantization of constrained systems. (English summary) **93j:83038**
Ivashchuk, Vladimir D. *see* **Fadeev, S. B.; et al., (93j:83004)**
Jermyn, I. H. Self-consistent compactification at finite temperature on $\mathbf{R} \times S^5 \times S^3$. **93c:81150**
Kao, W. F. Induced Einstein-Kalb-Ramond theory in four dimensions. (English summary) **93h:83029**
Lee, Pascal *see* **Baadhio, Randy A., 93c:57026**
Li, Jian Zeng A higher-dimensional Vaidya-like space-time with electromagnetic fields and nonzero cosmological constant. (Chinese. English and Chinese summaries) **93m:83044**
Li, Yuan Jie Cosmic inflation and cosmic string. (English summary)
Lidsey, James E. The fragility and rigidity of cosmological theories. (English summary) **93k:83073**
Liu, Hong Ya (*with* Wesson, Paul S.) Exact solutions of general relativity derived from 5-D "black hole" solutions of Kaluza-Klein theory. (English summary) **93i:83062**
Macías, A. (*with* Dehnen, H.) Dirac field in the five-dimensional Kaluza-Klein theory with scalar field. (English summary) **93k:83040**
— (*with* Fuentes y Martínez, G. J.; Obregón, O.) The Dirac equation in 5-dimensional Wesson gravity. (English summary) **93m:83070**
Mel'nikov, V. N. *see* **Fadeev, S. B.; et al., (93j:83004)**
Moussiaux, A. *see* **Demaret, J.; et al., 93g:83084**
Nikolova, Lora (*with* Rizov, V. A.) Generalized connection forms in the unification of gauge interactions. (English summary) **93m:53026**
Obregón, O. *see* **Macías, A.; et al., 93m:83070**
Pesando, I. (*with* Tollstén, A. K.) Heterotic instantons and solitons in anomaly-free supergravity. **93c:81183**
Rizov, V. A. *see* **Nikolova, Lora, 93m:53026**
de Roo, Mees The R^2-action in $d = 10$ conformal supergravity. **93e:83070**
Stelle, K. S. Conformal invariance from diffeomorphism invariance. (*see* **93g:81003**)
Tollstén, A. K. *see* **Pesando, I., 93c:81183**
Tombal, P. *see* **Demaret, J.; et al., 93g:83084**
Vanzo, Luciano *see* **Bytsenko, A. A.; et al., 93i:81161**
Waga, I. The existence of Newtonian analogs of a class of 5D Wesson's cosmological models. **93c:83106**
Wesson, Paul S. *see* **Liu, Hong Ya, 93i:83062**
Wiltshire, David L. Comment on: "Exact solutions of Einstein gravity coupled to a scalar field with arbitrary potential" [Phys. Rev. D (3) **44** (1991), no. 4, 1115–1119; MR 92f:83051] by M. Cadoni. (English summary) **93k:83052**
Zerbini, Sergio *see* **Bytsenko, A. A.; et al., 93i:81161**
Zhuk, A. I. Integrable multidimensional quantum cosmology. (English summary) **93f:83046**
— On change of the signature of the metric in multidimensional quantum cosmology. (Russian) **93k:83038**
Zoh, S. W. *see* **Cho, Y. M., 93f:81095**

83E30 String and superstring theories [see also 81T30]

Achúcarro, Ana Chern-Simons supergravities. (*see* **93g:81003**)
Akulov, V. P. Super-p-branes and isometric embedding in "flat" superspace. (Russian) **93k:83070**
de Azcárraga, J. A. (*with* Izquierdo, J. M.; Townsend, P. K.) Kaluza-Klein origin for the superstring tension. **93a:83036**
Bandos, I. A. (*with* Zheltukhin, A. A.) 11-dimensional supermembrane in a spinor moving repère formalism. (English summary) **93m:83079**
Campbell, Bruce A. (*with* Kaloper, Nemanja; Olive, Keith A.) Classical hair for Kerr-Newman black holes in string gravity. **93f:83082**
Chakraborty, Ashok Kr. *see* **Chakraborty, Subenoy, 93c:83112**
Chakraborty, Subenoy (*with* Chakraborty, Ashok Kr.) String cosmology in spherically symmetric space-time. **93c:83112**
Diamandis, G. A. (*with* Georgalas, B. C.; Lahanas, A. B.) Does σ-model conformal invariance imply a Robertson-Walker universe? (English summary) **93d:83066**
Duff, M. J. (*with* Khuri, Ramzi R.; Lu, Jian Xin) String and five-brane solitons: singular or nonsingular? **93c:83113**
Duncan, M. J. (*with* Kaloper, Nemanja; Olive, Keith A.) Axion hair and dynamical torsion from anomalies. (English summary) **93g:83092**
Ellis, Jonathan Richard (*with* Mavromatos, N. E.; Nanopoulos, D. V.) Quantum mechanics and black holes in four-dimensional string theory. **93c:83114**
— (*with* Mavromatos, N. E.; Nanopoulos, D. V.) World-sheet duality, space-time foam, and the quantum fate of a stringy black hole. (English summary) **93g:83093**
Ferrer, È. J. (*with* Fradkin, E. S.; de la Incera, V.) Thermodynamics of the neutral string gas in electromagnetic background. **93d:83067**
Fradkin, E. S. *see* **Ferrer, È. J.; et al., 93d:83067**
Gannon, Terry (*with* Lam, C. S.) Can a lattice string have a vanishing cosmological constant? (English summary) **93i:83088**
Garfinkle, David Black string traveling waves. (English summary) **93j:83074**
Georgalas, B. C. *see* **Diamandis, G. A.; et al., 93d:83066**
Gibbons, G. W. (*with* Perry, Malcolm J.) The physics of 2D stringy spacetimes. (English summary) **93h:83035**
Giveon, Amit (*with* Pasquinucci, Andrea) On cosmological string backgrounds with toroidal isometries. (English summary) **93i:83089**
Hawking, Stephen W. Wormholes in dimensions 1–4. **93d:83068**
Horowitz, Gary T. String theory as a quantum theory of gravity. (*see* **93b:83002**)
de la Incera, V. *see* **Ferrer, È. J.; et al., 93d:83067**
Izquierdo, J. M. *see* **de Azcárraga, J. A.; et al., 93a:83036**
Kaloper, Nemanja Stringy cosmic strings and axion cohomology. (English summary) **93m:83080**
— *see also* **Campbell, Bruce A.; et al., 93f:83082** *and* **Duncan, M. J.; et al., 93g:83092**
Khuri, Ramzi R. (*with* La, HoSeong) Orbits of a string around a five-brane. **93a:83037**
— (*with* La, HoSeong) String motion in five-brane geometry. (English summary) **93j:83075**
— *see also* **Duff, M. J.; et al., 93c:83113**
Kounnas, Costas (*with* Lüst, Dieter) Cosmological string backgrounds from gauged WZW models. (English summary) **93g:83094**
La, HoSeong *see* **Khuri, Ramzi R., 93a:83037** *and* **93j:83075**
Lahanas, A. B. *see* **Diamandis, G. A.; et al., 93d:83066**
Lam, C. S. *see* **Gannon, Terry, 93i:83088**
Lu, Jian Xin *see* **Duff, M. J.; et al., 93c:83113**
Lüst, Dieter *see* **Kounnas, Costas, 93g:83094**
Mavromatos, N. E. *see* **Ellis, Jonathan Richard; et al., 93c:83114** *and* **93g:83093**
Nanopoulos, D. V. *see* **Ellis, Jonathan Richard; et al., 93c:83114** *and* **93g:83093**
Oda, Ichiro Strings from black holes. (English summary) **93j:83076**
Olive, Keith A. *see* **Campbell, Bruce A.; et al., 93f:83082** *and* **Duncan, M. J.; et al., 93g:83092**
Pasquinucci, Andrea *see* **Giveon, Amit, 93i:83089**
Perry, Malcolm J. *see* **Gibbons, G. W., 93h:83035**
Pollock, M. D. On the derivation of the Wheeler-DeWitt equation in the heterotic superstring theory. (English summary) **93i:83090**
Sánchez, Norma Quantum strings in curved space times. (*see* **93d:83003**)
— *see also* **de Vega, H. J., 93b:83061**
Schwarz, Patricia M. Gravity waves in classical string theory. **93c:83115**
Townsend, P. K. *see* **de Azcárraga, J. A.; et al., 93a:83036**
Tseytlin, A. A. Dilaton, winding modes and cosmological solutions. **93e:83066**
— Cosmological solutions with dilaton and maximally symmetric space in string theory. (English summary) **93g:83095**
— (*with* Vafa, Cumrun) Elements of string cosmology. **93c:83116**
Vafa, Cumrun *see* **Tseytlin, A. A., 93c:83116**
de Vega, H. J. (*with* Sánchez, Norma) Mass and energy-momentum tensor of quantum strings in gravitational shock-waves. **93b:83061**
Veneziano, G. Quantum string gravity near the Planck scale. **93c:83117**
— Quantum string gravity near the Planck scale. **93e:83067**
Zeni, M. Massive spin-2 state in string with constant profile pp wave backgrounds. (English summary) **93i:83091**
Zheltukhin, A. A. *see* **Bandos, I. A., 93m:83079**

Items with secondary classifications in 83E30

Aoyama, Shogo (*with* Pasti, P.; Tonin, M.) The GS and NRS heterotic strings from twistor-string models. **93j:81078**
Aragone, C. Theories of quantum gravity. I. Superstring theory. (*see* **93b:83002**)
Bailin, David (*with* Love, Alex) Matter field Kähler potentials for $Z_3 \times Z_3$ and Z_3 orbifold theories. (English summary) **93i:81184**
— (*with* Love, Alex) String unification in $Z_3 \times Z_3$ orbifold models. **93d:81133**
— (*with* Love, Alex) Kähler potentials for twisted sectors of Z_N orbifolds. (English summary) **93j:81079**
Bandos, I. A. (*with* Zheltukhin, A. A.) Green-Schwarz superstrings in spinor moving frame formalism. (English summary) **93g:81117**
Bars, Itzhak (*with* Sfetsos, Konstadinos) Generalized duality and singular strings in higher dimensions. **93g:81118**
— Heterotic string models in curved spacetime. (English summary) **93j:81072**
— (*with* Sfetsos, Konstadinos) Global analysis of new gravitational singularities in string and particle theories. (English summary) **93g:81119**
— (*with* Sfetsos, Konstadinos) Conformally exact metric and dilaton in string theory on curved spacetime. (English summary) **93j:81073**
Bellucci, Stefano Supersymmetry in anti-de Sitter space. (English summary) **93f:81094**
Berglund, Per (*with* Hübsch, Tristan; Parkes, Linda) The complete matter sector in a three-generation compactification. (English summary) **93j:32036**
Bergshoeff, E. A. (*with* Sezgin, Ergin) Self-dual supergravity theories in 2 + 2 dimensions. (English summary) **93i:83092**
von Borzeszkowski, Horst-Heino Uncertainty and equivalence principles in quantum general relativity. **93d:83029**
Candelas, Philip (*with* Green, Paul S.; Hübsch, Tristan) Rolling among Calabi-Yau vacua. **93d:32031a**
— (*with* Green, Paul S.; Hübsch, Tristan) Rolling among Calabi-Yau vacua. **93d:32031b**
Carlini, A. (*with* Fucito, F.; Martellini, Maurizio) On the stability of a stringy black hole. (English summary) **93k:83045**
Carter, Brandon Mechanical properties and cosmological implications of current carrying cosmic strings. **93d:83070**
Castellani, Leonardo Group-geometric methods in supergravity and superstring theories. **93a:81150**
Cecotti, Sergio (*with* Vafa, Cumrun) Massive orbifolds. **93d:81138**
Chau, Ling-Lie Nonlinear differential equations in physics and their geometrical integrability properties. **93c:81237**
Cvetič, Mirjam (*with* Griffies, Stephen; Rey, Soo-Jong) Static domain walls in $N = 1$ supergravity. (English summary) **93i:81269**
Das, Sumit R. (*with* Dhar, Avinash; Rama, S. Kalyana) Physical states and scaling properties of W gravities and W strings. **93c:81164**
Delduc, François (*with* Gal'perin, A. S.; Howe, P. S.; Sokatchev, E. S.) Twistor formulation of the heterotic $D = 10$ superstring with manifest $(8, 0)$ world-sheet supersymmetry. (English summary) **93m:81050**
Dhar, Avinash *see* **Das, Sumit R.; et al., 93c:81164**
Dijkgraaf, Robbert (*with* Verlinde, Herman; Verlinde, Erik) String propagation in a black hole geometry. **93e:81092**
Duff, M. J. (*with* Lu, Jian Xin) A duality between strings and 5-branes. **93b:81210**
Ellis, Jonathan Richard (*with* Mavromatos, N. E.; Nanopoulos, D. V.) Measuring W-hair. **93c:81165**
— (*with* Mavromatos, N. E.; Nanopoulos, D. V.) Measuring the W-hair of string black holes. **93c:81166**
Fradkin, E. S. (*with* Linetskii, V. Ya.) On the anti-de Sitter quantum (super)strings. **93f:81109**

Fucito, F. *see* **Carlini, A.; et al., 93k:83045**
Gal'perin, A. S. *see* **Delduc, François; et al., 93m:81050**
García-Bellido, Juan (*with* Quirós, Mariano) String effective actions and cosmological stability of scalar potentials. (English summary) **93m:81117**
Gates, S. James, Jr. (*with* Majumdar, Parthasarathi) Toward a (supersymmetry)^2 particle model of the First Ilk. **93c:81238**
Giveon, Amit (*with* Shapere, Alfred) Gauge symmetries of the $N = 2$ string. (English summary) **93k:81177**
— (*with* Roček, Martin) Generalized duality in curved string backgrounds. (English summary) **93m:81129**
Green, Paul S. *see* **Candelas, Philip; et al., 93d:32031a** *and* **93d:32031b**
Griffies, Stephen *see* **Cvetič, Mirjam; et al., 93i:81269**
Gürses, Metin Signatures of black holes in string theory. (English summary) **93k:83049**
't Hooft, Gerard Black hole quantization and a connection to string theory. **93e:83045**
Horne, James H. (*with* Horowitz, Gary T.) Exact black string solutions in three dimensions. **93d:81140**
Horowitz, Gary T. *see* **Horne, James H., 93d:81140**
Howe, P. S. *see* **Delduc, François; et al., 93m:81050**
Hübsch, Tristan *see* **Candelas, Philip; et al., 93d:32031a; 93d:32031b** *and* **Berglund, Per; et al., 93j:32036**
Kugo, Taichiro (*with* Zwiebach, Barton) Target space duality as a symmetry of string field theory. **93i:81191**
La, HoSeong Sine-Gordon solitons as heterotic fivebranes. (English summary) **93f:81113**
Linetskii, V. Ya. *see* **Fradkin, E. S., 93f:81109**
Love, Alex *see* **Bailin, David, 93d:81133; 93i:81184** *and* **93j:81079**
Lu, Jian Xin *see* **Duff, M. J., 93b:81210**
Lyons, Alex Wormholes in string theory and low energy quantum gravity. **93c:81177**
Mahapatra, Swapna Four-dimensional two-brane solution in chiral gauged Wess-Zumino-Witten model. (English summary) **93g:81161**
Majumdar, Parthasarathi *see* **Gates, S. James, Jr., 93c:81238**
Martellini, Maurizio *see* **Carlini, A.; et al., 93k:83045**
Martinec, Emil J. (*with* Shatashvili, S. L.) Black-hole physics and Liouville theory. **93a:81177**
Mavromatos, N. E. *see* **Ellis, Jonathan Richard; et al., 93c:81165** *and* **93c:81166**
McInnes, Brett Gauge theory in Witten's approach to the generation problem. **93a:53039**
Moss, S. A. Two-stage orbifold compactifications of heterotic strings. (English summary) **93i:81195**
Nanopoulos, D. V. *see* **Ellis, Jonathan Richard; et al., 93c:81165** *and* **93c:81166**
(Nath, Pran) *see* **Particles, strings and cosmology, 93a:81004**
Nelipa, N. F. (*with* Pekar, M. Yu.) Topology of space-time as a corollary of the dynamics of closed bosonic strings. I. Zero and first approximations. (Russian) **93c:81179**
Nogueira, P. $N = 2$ superprojective transformations and the nilpotent invariant. **93h:81140**
Ooguri, Hirosi (*with* Vafa, Cumrun) Self-duality and $N = 2$ string magic. **93h:81101**
Parkes, Linda *see* **Berglund, Per; et al., 93j:32036**
Pasti, P. *see* **Aoyama, Shogo; et al., 93j:81078**
Pekar, M. Yu. *see* **Nelipa, N. F., 93c:81179**
Pollock, M. D. On the semi-classical approximation to the superstring theory. (English summary) **93k:81185**
Quirós, Mariano *see* **García-Bellido, Juan, 93m:81117**
Rama, S. Kalyana *see* **Das, Sumit R.; et al., 93c:81164**
Ramón-Medrano, M. *see* **de Vega, H. J.; et al., 93b:81232** *and* **93b:81233**
(Reucroft, Stephen) *see* **Particles, strings and cosmology, 93a:81004**
Rey, Soo-Jong *see* **Cvetič, Mirjam; et al., 93i:81269**
Roček, Martin *see* **Giveon, Amit, 93m:81129**
Sánchez, Norma Field and string quantization in curved space-times. (*see* **93e:81005**)
— String theory and the quantization of gravity. (*see* **93j:83004**)
— *see also* **de Vega, H. J.; et al., 93b:81232** *and* **93b:81233**
Sen, Ashoke Rotating charged black hole solution in heterotic string theory. (English summary) **93d:83048**
Sezgin, Ergin *see* **Bergshoeff, E. A., 93i:83092**
Sfetsos, Konstadinos *see* **Bars, Itzhak, 93g:81118; 93g:81119** *and* **93j:81073**
Shapere, Alfred *see* **Giveon, Amit, 93k:81177**
Shatashvili, S. L. *see* **Martinec, Emil J., 93a:81177**
Shen, Jian Min Some geometric properties of strings. (English summary) **93k:81186**
Sokatchev, E. S. *see* **Delduc, François; et al., 93m:81050**
Sotkov, G. M. (*with* Stanishkov, M.; Zhu, Chuan Jie) Extrinsic geometry of strings and W-gravities. **93d:81171**
Stanishkov, M. *see* **Sotkov, G. M.; et al., 93d:81171**
Tonin, M. *see* **Aoyama, Shogo; et al., 93j:81078**
Vafa, Cumrun *see* **Cecotti, Sergio, 93d:81138** *and* **Ooguri, Hirosi, 93h:81101**
de Vega, H. J. (*with* Ramón-Medrano, M.; Sánchez, Norma) Scattering of superstrings by cosmic strings. **93b:81232**
— (*with* Ramón-Medrano, M.; Sánchez, Norma) Superstring propagation through supergravitational shockwaves. **93b:81233**
Veneziano, G. Physics with a fundamental length. **93a:81161**
Verlinde, Erik The master equation of string theory. (English summary) **93i:81201**
— *see also* **Dijkgraaf, Robbert; et al., 93e:81092**
Verlinde, Herman *see* **Dijkgraaf, Robbert; et al., 93e:81092**
Wang, Jin Superstrings in quantum cosmology. **93c:83064**
Zheltukhin, A. A. *see* **Bandos, I. A., 93g:81117**
Zhu, Chuan Jie *see* **Sotkov, G. M.; et al., 93d:81171**
Zwiebach, Barton *see* **Kugo, Taichiro, 93i:81191**

Items listed otherwise than by author

Boston, MA ★ Particles, strings and cosmology. **93a:81004**
Particles, strings and cosmology ★ Particles, strings and cosmology. **93a:81004**
Symposium:
Particles, Strings and Cosmology ★ Particles, strings and cosmology. **93a:81004**

83E50 Supergravity

Agop, Marcel (*with* Zet, Gh.) La supergravitation $N = 1$ et le transport parallèle de Levi-Civita du plan de Lobacevski. (Romanian summary) [$N = 1$ supergravity and the Levi-Civita parallel displacement of the Lobachevskii plane]
Bergshoeff, E. A. (*with* Sezgin, Ergin) Self-dual supergravity theories in $2 + 2$ dimensions. (English summary) **93i:83092**
Bonora, L. (*with* Bregola, M.; D'Auria, R.; et al.) Some remarks on the supersymmetrization of the Lorentz Chern-Simons form in $D = 10$ $N = 1$ supergravity theories. **93e:83068**
Bregola, M. *see* **Bonora, L.; et al., 93e:83068**
Chamseddine, A. H. Topological gravity and supergravity in various dimensions. **93e:83069**
Chiou-Lahanas, C. (*with* Kapella-Economou, A.; Lahanas, A. B.; Maintas, X. N.) Gravitational radiative corrections in $N = 1$ supergravity. **93c:83118**
Crumeyrolle, A. Supergravity, supersymmetry: a geometric unitary spinor theory. (English summary) **93m:83081**
— Supergravity, supersymmetry: a geometric unitary spinor theory. (English summary) **93m:83082**
Cvetič, Mirjam (*with* Griffies, Stephen) Gravitational effects in supersymmetric domain wall backgrounds.
D'Auria, R. *see* **Bonora, L.; et al., 93e:83068**
Gal'perin, A. S. (*with* Ogievetskii, V. I.) On isometries relating noncompact σ-models and supergravity. **93c:83119**
Goto, Toru (*with* Okada, Yasuhiro) Nonlinear σ models and supersymmetry-breaking effects in supergravity. **93b:83062**
Griffies, Stephen *see* **Cvetič, Mirjam**
Grisaru, M. T. *see* **de Wit, B.; et al., 93f:83083**
Ivanov, Evgenii Alekseevich^2 (*with* Niederle, Jiří) $N = 1$ supergravity as a nonlinear realization. **93c:83120**
Kachkachi, M. (*with* Lhallabi, T.) $N = 2$ supergravity in superspace and the BRS symmetry. (English summary) **93h:83036**
Kapella-Economou, A. *see* **Chiou-Lahanas, C.; et al., 93c:83118**
Lahanas, A. B. *see* **Chiou-Lahanas, C.; et al., 93c:83118**
Lhallabi, T. *see* **Kachkachi, M., 93h:83036**
Maintas, X. N. *see* **Chiou-Lahanas, C.; et al., 93c:83118**
Nicolai, H. *see* **de Wit, B.; et al., 93f:83083**
Niederle, Jiří *see* **Ivanov, Evgenii Alekseevich^2, 93c:83120**
Ogievetskii, V. I. *see* **Gal'perin, A. S., 93c:83119**
Okada, Yasuhiro *see* **Goto, Toru, 93b:83062**
Pesando, I. Completion of the ten-dimensional anomaly free supergravity programme: the field equations. **93b:83063**
Rabinovici, E. *see* **de Wit, B.; et al., 93f:83083**
de Roo, Mees The R^2-action in $d = 10$ conformal supergravity. **93e:83070**
Salgado, P. New minimal supergravity and spontaneous supersymmetry breaking. **93b:83064**
Sezgin, Ergin *see* **Bergshoeff, E. A., 93i:83092**
de Wit, B. (*with* Grisaru, M. T.; Rabinovici, E.; Nicolai, H.) Two-loop finiteness of $D = 2$ supergravity. (English summary) **93f:83083**
Zet, Gh. *see* **Agop, Marcel**
Zinov'ev, Yu. M. Spontaneous symmetry breaking in $N = 2$ supergravity with matter. (English summary) **93j:83077**
Zupnik, B. M. Covariant integral forms in three-dimensional supergravity. (Russian. English summary) **93d:83069**

Items with secondary classifications in 83E50

Alty, L. J. (*with* D'Eath, P. D.; Dowker, H. F.) Quantum wormhole states and local supersymmetry. (English summary) **93g:83041**
Anglin, J. R. (*with* Myers, Robert C.) Wormholes and supersymmetry. (English summary) **93k:83025**
Aoki, Kenichiro (*with* D'Hoker, Eric) Correlation functions of minimal models coupled to two-dimensional quantum supergravity. **93b:81237**
Bagger, Jonathan *see* **Wess, Julius, 93a:81003**
Balbinot, Roberto *see* **Kerner, Richard; et al., 93c:83111**
Bandos, I. A. (*with* Zheltukhin, A. A.) 11-dimensional supermembrane in a spinor moving repère formalism. (English summary) **93m:83079**
Benítez, J. (*with* Obregón, O.; Socorro, J.) Supersymmetric Taub model, the micro-superspace sector. (English summary) **93g:83043**
Castellani, Leonardo Group-geometric methods in supergravity and superstring theories. **93a:81150**
D'Eath, P. D. (*with* Hawking, Stephen W.; Obregón, O.) Supersymmetric Bianchi models and the square root of the Wheeler-DeWitt equation. (English summary) **93k:83029**
— *see also* **Alty, L. J.; et al., 93g:83041**
DeWitt, Bryce S. ★ Supermanifolds. **93j:58008**
D'Hoker, Eric *see* **Aoki, Kenichiro, 93b:81237**
Dowker, H. F. *see* **Alty, L. J.; et al., 93g:83041**
Duff, M. J. (*with* Khuri, Ramzi R.; Lu, Jian Xin) String and five-brane solitons: singular or nonsingular? **93c:83113**
Fabris, Júlio C. *see* **Kerner, Richard; et al., 93c:83111**
Gal'perin, A. S. (*with* Howe, P. S.; Stelle, K. S.) The superparticle and the Lorentz group. **93c:81170**
Gates, S. James, Jr. (*with* Nishino, Hitoshi; Ketov, S. V.) Extended supersymmetry and self-duality in $2 + 2$ dimensions. (English summary) **93j:81099**
Gervais, Jean-Loup (*with* Rostand, Bruno) On two-dimensional supergravity and the quantum super-Möbius group. **93h:81119**
Govindarajan, Suresh (*with* Ovrut, Burt A.) A geometric interpretation for the torsion constraints of $(2, 0)$ heterotic worldsheet supergravity. **93g:81150**
— (*with* Ovrut, Burt A.) The anomaly structure of $(2, 0)$ heterotic world-sheet supergravity with gauged R-invariance. (English summary) **93i:81263**
Hawking, Stephen W. *see* **D'Eath, P. D.; et al., 93k:83029**
Hayashi, Masahito Classification of $(2 + 1)$-dimensional Chern-Simons supergravity theories. (English summary) **93k:81232**

Howe, P. S. *see* **Gal'perin, A. S.; et al., 93c:81170**
Kallosh, Renata Supersymmetric black holes. **93b:83043**
Kerner, Richard (*with* Balbinot, Roberto; Fabris, Júlio C.) Cosmological solutions from supersymmetric Kaluza-Klein theory. **93c:83111**
Ketov, S. V. *see* **Gates, S. James, Jr.; et al., 93j:81099**
Khuri, Ramzi R. *see* **Duff, M. J.; et al., 93c:83113**
Lu, Jian Xin *see* **Duff, M. J.; et al., 93c:83113**
Merkulov, S. A. Superconformal geometry in three dimensions. **93c:58015**
Misra, S. P. ★ Introduction to supersymmetry and supergravity. **93m:81001**
Myers, Robert C. *see* **Anglin, J. R., 93k:83025**
van Nieuwenhuizen, Peter Supermembranes, superstrings, and supergravity. (*see* **93e:81005**)
Nishino, Hitoshi *see* **Gates, S. James, Jr.; et al., 93j:81099**
Obregón, O. *see* **Benítez, J.; et al., 93g:83043** *and* **D'Eath, P. D.; et al., 93k:83029**
Ovrut, Burt A. *see* **Govindarajan, Suresh, 93g:81150** *and* **93i:81263**
Pesando, I. (*with* Tollstén, A. K.) Heterotic instantons and solitons in anomaly-free supergravity. **93c:81183**
(Rama Rao, P.) *see* **Misra, S. P., 93m:81001**
Romans, L. J. Supersymmetric, cold and lukewarm black holes in cosmological Einstein-Maxwell theory. (English summary) **93j:83027**
Rostand, Bruno *see* **Gervais, Jean-Loup, 93h:81119**
Sabra, W. A. Hidden Kac-Moody symmetry and 2D quantum supergravity. **93j:81095**
Shamir, Yigal Compensating fields and anomalies in supergravity. (English summary) **93k:81235**
Smailagic, A. (*with* Spallucci, Euro) General treatment of anomalies in (1, 0) and (1, 1) two-dimensional supergravity. (English summary) **93k:81231**
Socorro, J. *see* **Benítez, J.; et al., 93g:83043**
Spallucci, Euro *see* **Smailagic, A., 93k:81231**
Steile, K. S. *see* **Gal'perin, A. S.; et al., 93c:81170**
Tollstén, A. K. *see* **Pesando, I., 93c:81183**
Wess, Julius (*with* Bagger, Jonathan) ★ Supersymmetry and supergravity. **93a:81003**
Zheltukhin, A. A. *see* **Bandos, I. A., 93m:83079**

83E99 None of the above, but in this section

Chilton, J. H. (*with* Norris, L. K.) Variational principle for the $P(4)$ affine theory of gravitation and electromagnetism. **93j:83078**
Hojman, Sergio A. (*with* Núñez, Darío; Ryan, Michael P., Jr.) Minisuperspace example of non-Lagrangian quantization. **93c:83121**
Norris, L. K. *see* **Chilton, J. H., 93j:83078**
Núñez, Darío *see* **Hojman, Sergio A.; et al., 93c:83121**
Ryan, Michael P., Jr. *see* **Hojman, Sergio A.; et al., 93c:83121**

Items with secondary classifications in 83E99

Aurilia, Antonio (*with* Smailagic, A.; Spallucci, Euro) Membrane pregeometry and the vanishing of the cosmological constant. (English summary) **93g:83042**
Chern, De Ching (*with* Nester, James M.; Yo, Hwei-Jang) Positive energy test of Poincaré gauge theory. **93c:83094**
Nester, James M. *see* **Chern, De Ching; et al., 93c:83094**
Smailagic, A. *see* **Aurilia, Antonio; et al., 93g:83042**
Spallucci, Euro *see* **Aurilia, Antonio; et al., 93g:83042**
Wheeler, James T. $SU(3) \times SU(2) \times U(1)$: the residual symmetry of conformal gravity. **93k:81261**
Yo, Hwei-Jang *see* **Chern, De Ching; et al., 93c:83094**

83F05 Cosmology

Amendola, Luca Cosmology with nonminimal derivative couplings. (English summary) **93j:83079**
(Balbinot, Roberto) *see* **Modern cosmology in retrospect, 93f:83088**
Basu, Rama (*with* Vilenkin, Alexander) Nucleation of thick topological defects during inflation. (English summary) **93e:83071**
Bekenstein, Jacob D. Conservation law for linked cosmic string loops. **93c:83122**
Berezin, V. A. (*with* Kuz'min, V. A.; Tkachev, I. I.) O(3)-invariant tunnelling at false vacuum decay in general relativity. **93a:83038**
(Bergia, S.) *see* **Modern cosmology in retrospect, 93f:83088**
(Bertotti, B.) *see* **Modern cosmology in retrospect, 93f:83088**
Brandenberger, Robert H. (*with* Laflamme, Raymond; Mijić, Milan) Classical perturbations from decoherence of quantum fluctuations in the inflationary universe. **93a:83039**
— Cosmic strings and the large-scale structure of the Universe. **93c:83123**
— *see also* **Mukhanov, V. F.; et al., 93d:83073**
Bruni, Marco (*with* Ellis, George F. R.; Dunsby, Peter K. S.) Gauge-invariant perturbations in a scalar field dominated universe. **93c:83124**
— Stability of open universes. (English summary) **93j:83080**
Butcher, Jacqueline A. *see* **Madsen, Mark S.; et al.**
Carter, Brandon Mechanical properties and cosmological implications of current carrying cosmic strings. **93d:83070**
Câteau, Hideyuki (*with* Sumiyoshi, Kosuke) Thermal history of the string universe. (English summary) **93f:83084**
Chakraborty, Subenoy (*with* Nandy, Gopal Chandra) Cosmological studies in Bianchi II, VIII space-time. (English summary) **93i:83093**
Chatterjee, Sujit A class of multidimensional cosmological models and its possible astrophysical consequences. (English summary) **93f:83085**
Coley, Alan A. Gravitational entropy and cosmology. **93d:83071**
— (*with* Tavakol, R. K.) Fragility in cosmology. **93c:83125**
Dallaporta, Nicola Could final states of stellar evolution proceed towards naked singularities? (*see* **93j:83004**)
(Davies, Andrew T.) *see* **Physics of the early universe, 93b:83071**
Dayi, Ömer F. (*with* Müller-Kirsten, H. J. W.; Shurgaya, A. V.; Tchrakian, D. H.) Model of a superconducting cosmic string. (English summary) **93e:83072**
Demiański, Marek (*with* Doroshkevich, A. G.) On the universal character of the large scale structure of the Universe. (English summary) **93g:83097**
— (*with* de Ritis, R.; Rubano, C.; Scudellaro, P.) Scalar fields and anisotropy in cosmological models. (English summary) **93g:83096**
Deruelle, Nathalie (*with* Gundlach, Carsten; Polarski, David) The growth of density fluctuations in a simplified model of extended inflation. **93a:83040**
De Sabbata, Venzo *see* **Sivaram, C., (93d:83003)**
Doroshkevich, A. G. *see* **Demiański, Marek, 93g:83097**
Dunsby, Peter K. S. *see* **Bruni, Marco; et al., 93c:83124**
Ellis, George F. R. *see* **Bruni, Marco; et al., 93c:83124**; **Stoeger, William R.; et al., 93j:83082**; **93j:83083** *and* **Madsen, Mark S.; et al.**
Embacher, Franz Analytic study of self-intersections in the Turok two-parameter family of cosmic strings. (English summary) **93g:83098**
Everitt, C. W. F. *see* **Kalligas, D.; et al., 93b:83069**
Fadeev, S. B. (*with* Ivashchuk, Vladimir D.; Mel'nikov, V. N.) Variations of constants and exact solutions in multidimensional gravity. (*see* **93j:83004**)
Fang, Li Zhi (*with* Li, Shu Xian) ★ Creation of the Universe. **93b:83065**
Feldman, Hume A. *see* **Mukhanov, V. F.; et al., 93d:83073**
Gasperini, M. (*with* Giovannini, M.) Gravity waves from primordial dimensional reduction. (English summary) **93f:83086**
Giovannini, M. *see* **Gasperini, M., 93f:83086**
Goswami, D. *see* **Krori, K. D.**
Gundlach, Carsten *see* **Deruelle, Nathalie; et al., 93a:83040**
Guth, Alan H. Creation of a universe in the laboratory. **93b:83066**
Habib, Salman (*with* Kandrup, Henry E.) Nonlinear noise in cosmology. (English summary) **93h:83037**
Hartle, James B. Classical physics and Hamiltonian quantum mechanics as relics of the big bang. **93b:83067**
(Heavens, Alan F.) *see* **Physics of the early universe, 93b:83071**
Huang, Wung Hong Gravitational field of radiating cosmic string. (English summary) **93k:83071**
Islam, J. N. ★ An introduction to mathematical cosmology. (English. English summary) **93m:83083**
Ivashchuk, Vladimir D. *see* **Fadeev, S. B.; et al., (93j:83004)**
Jacobs, Mark W. (*with* Linder, Eric V.; Wagoner, Robert V.) Obtaining the metric of our universe. **93b:83068**
Kalligas, D. (*with* Wesson, Paul S.; Everitt, C. W. F.) Flat FRW models with variable G and Λ. **93b:83069**
Kandrup, Henry E. *see* **Habib, Salman, 93h:83037**
Kasai, Masumi Inhomogeneous cosmological models which are homogeneous and isotropic on average. (English summary) **93m:83084**
Khalatnikov, I. M. Qualitative cosmology. (English summary) (*see* **93j:83004**)
(Kiang, T.) *see* **Fang, Li Zhi, 93b:83065**
Kibble, T. W. B. Cosmic strings. (*see* **93b:81004**)
Kirillov, A. A. Quantum birth of a universe near a cosmological singularity. (Russian) **93d:83072**
Kirschenmann, Peter P. Does the anthropic principle live up to scientific standards? (English summary)
Kolb, Edward W. (*with* Turner, Michael S.) ★ The early universe. **93e:83073**
Krori, K. D. (*with* Purkayastha, Anuradha Das) Two models in quantum cosmology. (French summary)
— (*with* Goswami, D.) A multipolar stationary object attached to a cosmic string in a background gravitational field. (English summary)
Kuz'min, V. A. *see* **Berezin, V. A.; et al., 93a:83038**
Laciana, Carlos E. Inflation in R^2 cosmology with massless conformal scalar field and adiabatic regularization. (English summary) **93k:83072**
Laflamme, Raymond *see* **Brandenberger, Robert H.; et al., 93a:83039**
Li, Shu Xian *see* **Fang, Li Zhi, 93b:83065**
Li, Yuan Jie (*with* Wang, Zhi Jun) Inhomogeneous R^2 inflationary models. (English summary) **93g:83099**
— Cosmic inflation and cosmic string. (English summary)
Lidsey, James E. Multiple and anisotropic inflation with exponential potentials. **93a:83041**
— The fragility and rigidity of cosmological theories. (English summary) **93k:83073**
Linde, A. D. Inflation and quantum cosmology. (*see* **93b:83002**)
— Inflationary cosmology. **93c:83126**
— Inflation and quantum cosmology. **93c:83127**
— Strings, textures, inflation and spectrum bending. **93c:83128**
Linder, Eric V. *see* **Jacobs, Mark W.; et al., 93b:83068**
Madsen, Mark S. (*with* Mimoso, José P.; Butcher, Jacqueline A.; Ellis, George F. R.) Evolution of the density parameter in inflationary cosmology reexamined. (English summary)
Magnon, Anne Cosmological singularity at the Planck scale. (English summary) **93f:83087**
Mel'nikov, V. N. *see* **Fadeev, S. B.; et al., (93j:83004)**
(Messina, Antonio) *see* **Modern cosmology in retrospect, 93f:83088**
Mijić, Milan *see* **Brandenberger, Robert H.; et al., 93a:83039**
Mimoso, José P. *see* **Madsen, Mark S.; et al.**
Modak, Bijan *see* **Sanyal, Abhik Kumar, 93d:83075**
Moniz, P. V. (*with* Mourão, J. M.; Sá, P. M.) The dynamics of a flat Friedmann-Robertson-Walker inflationary model in the presence of gauge fields. (English summary) **93m:83085**
Mourão, J. M. *see* **Moniz, P. V.; et al., 93m:83085**
Mukhanov, V. F. (*with* Feldman, Hume A.; Brandenberger, Robert H.) Theory of cosmological perturbations. **93d:83073**
Müller-Kirsten, H. J. W. *see* **Dayi, Ömer F.; et al., 93e:83072**
Nandy, Gopal Chandra *see* **Chakraborty, Subenoy, 93i:83093**
Narlikar, Jayant V. The concepts of "beginning" and "creation" in cosmology. (English summary) **93g:83100**
Nel, Stanley D. *see* **Stoeger, William R.; et al., 93j:83082** *and* **93j:83083**
Ng, Y. Jack The cosmological constant problem. (English summary) **93e:83074**
Panek, Mirosław Theory and implications of the cosmic background radiation. (*see* **93b:83002**)

(Peacock, John A.) *see* **Physics of the early universe, 93b:83071**
(Pines, David) *see* **Kolb, Edward W., 93e:83073**
Polarski, David *see* **Deruelle, Nathalie; et al., 93a:83040**
Ponce de León, J. Cosmological models that describe particle creation in the early universe and evolve into the "present-day" universe. **93d:83074**
Purkayastha, Anuradha Das *see* **Krori, K. D.**
Ram, Budh Infinitely many solutions of Einstein cosmology in "slow-roll". (English summary) **93j:83081**
de Ritis, R. *see* **Demiański, Marek; et al., 93g:83096**
Rubano, C. *see* **Demiański, Marek; et al., 93g:83096**
Sá, P. M. *see* **Moniz, P. V.; et al., 93m:83085**
Sanyal, Abhik Kumar (*with* Modak, Bijan) Extended inflation—a quantum-cosmological survey. (English summary) **93d:83075**
Schmidt, Hans-Jürgen On multi-inflation cosmological models. **93d:83076**
Scudellaro, P. *see* **Demiański, Marek; et al., 93g:83096**
Shurgaya, A. V. *see* **Dayi, Ömer F.; et al., 93e:83072**
Sikkema, Arnold E. A phoenix universe? Discussions on cosmogony. (*see* **93b:83003**)
Sivaram, C. (*with* De Sabbata, Venzo) Inflation with massive spin-2 field in curved space-time. (*see* **93d:83003**)
Smolin, Lee Did the Universe evolve? **93c:83129**
Sokolov, I. Yu. Anisotropy of cosmic background radiation and initial conditions for quantum inflaton field. **93a:83042**
Stoeger, William R. (*with* Nel, Stanley D.; Ellis, George F. R.) Observational cosmology. IV. Perturbed spherically symmetric dust solutions. **93j:83082**
— (*with* Nel, Stanley D.; Ellis, George F. R.) Observational cosmology. V. Solution of the first-order general perturbation equations. **93j:83083**
— *see also* **Zotov, Natalia V., 93d:83078**
Sumiyoshi, Kosuke *see* **Câteau, Hideyuki, 93f:83084**
Susskind, Leonard Critique of Coleman's theory of the vanishing cosmological constant. (*see* **93b:83024**)
Tavakol, R. K. *see* **Coley, Alan A., 93c:83125**
Tchrakian, D. H. *see* **Dayi, Ömer F.; et al., 93e:83072**
Tkachev, I. I. *see* **Berezin, V. A.; et al., 93a:83038**
Tomaschitz, Roman Relativistic quantum chaos in de Sitter cosmologies. **93d:83077**
Turner, Michael S. The early universe. (*see* **93b:83002**)
— *see also* **Kolb, Edward W., 93e:83073**
Vachaspati, Tanmay Structure of wiggly-cosmic-string wakes. **93b:83070**
Vilenkin, Alexander Did the Universe have a beginning? (English summary) **93e:83075**
— *see also* **Basu, Rama, 93e:83071**
Wagoner, Robert V. *see* **Jacobs, Mark W.; et al., 93b:83068**
Wainwright, John Mathematical cosmology. (*see* **93b:83002**)
Wang, Zhi Jun *see* **Li, Yuan Jie, 93g:83099**
Wesson, Paul S. *see* **Kalligas, D.; et al., 93b:83069**
Wilczek, Frank Perspectives on particle physics and cosmology. **93g:83101**
Wolf, Carl Anton Cosmic strings and viscous matter in a Kantowski-Sachs universe. (English summary) **93m:83086**
Zotov, Natalia V. (*with* Stoeger, William R.) Averaging Einstein's equations. **93d:83078**

Items listed otherwise than by author

Bologna ★ Modern cosmology in retrospect. **93f:83088**
Edinburgh ★ Physics of the early universe. **93b:83071**
Modern cosmology in retrospect ★ Modern cosmology in retrospect. **93f:83088**
NATO Advanced Study Institute:
Physics of the Early Universe ★ Physics of the early universe. **93b:83071**
Physics of the early universe ★ Physics of the early universe. **93b:83071**
School:
Physics of the Early Universe ★ Physics of the early universe. **93b:83071**
Symposium:
Astronomy, Cosmology and Fundamental Physics ★ Modern cosmology in retrospect. **93f:83088**

Items with secondary classifications in 83F05

Abe, Sumiyoshi Fluctuations around the Wheeler-DeWitt trajectories in third-quantized cosmology. (English summary) **93j:83035**
Ahmed, Mainuddin (*with* Biswas, Elias Uddin) Cosmic string in the NUT-Kerr-Newman spacetime. (English summary) **93m:83007**
(Audretsch, Jürgen) *see* **Quantum mechanics in curved space-time, 93d:83003**
Aurilia, Antonio (*with* Spallucci, Euro) The role of extended objects in particle theory and in cosmology. (*see* **93g:81003**)
Banerjee, Asit Kumar *see* **Raychaudhuri, A. K.; et al., 93j:83001**
Banerji, S. *see* **Raychaudhuri, A. K.; et al., 93j:83001**
Barros, A. *see* **Romero, Carlos Augusto, 93d:83059**
Barrow, John D. (*with* Saich, Paul) Scalar-field cosmologies. (English summary) **93i:83018**
— (*with* Saich, Paul) Gravitational collapse of rotating pancakes. (English summary) **93j:83051**
Barvinskiĭ, A. O. (*with* Kamenshchik, A. Yu.) One-loop quantum cosmology: the general semiclassical solution of the Wheeler-DeWitt equations and its applications. **93c:83046**
— Euclidean quantum gravity versus Lorentzian theory: applications to the inflationary cosmology. (*see* **93h:81003**)
— (*with* Kamenshchik, A. Yu.; Karmazin, I. P.; Mishakov, I. V.) 1-loop quantum cosmology: the contributions of matter fields to the wavefunctions of the Universe. **93d:83028**
Belova, T. I. Resonance structures in $(3+1)$-dimensional $\lambda\varphi^4$ field theory and their stability. (Russian) **93k:81136**
Benítez, J. *see* **Obregón, O.; et al., 93m:83037**
Berezin, V. A. (*with* Kuz'min, V. A.; Tkachev, I. I.) O(3)-invariant tunneling at false vacuum decay in general relativity. (*see* **93b:83004**)
Bezerra, Valdir B. (*with* dos Santos, Ivonete B.) Topological effects due to a cosmic string. (French summary) **93b:83029**
Biswas, Elias Uddin *see* **Ahmed, Mainuddin, 93m:83007**
Bleyer, U. (*with* Liebscher, D.-E.; Polnarev, A. G.) Kaluza-Klein models: from quantum state to observations. **93d:83062**
Brandenberger, Robert H. (*with* Laflamme, Raymond; Mijić, Milan) On the origin of classical density perturbations in the inflationary universe. (*see* **93b:83004**)
Brauer, Uwe An existence theorem for perturbed Newtonian cosmological models. **93c:58214**
Brisson, Luc (*with* Meyerstein, F. Walter) ★ Inventer l'univers. (French) [Inventing the universe] **93g:00012**
Buccella, Franco (*with* Esposito, Giampiero; Miele, Gennaro) Spontaneously broken SU(5) symmetries and 1-loop effects in the early universe. **93b:81183**
Casas, J. A. (*with* García-Bellido, Juan; Quirós, Mariano) Scalar-tensor theories of gravity with Φ-dependent masses. **93d:83054**
Castagnino, Mario A. (*with* Gunzig, Edgard; Nardone, Pascal) The problem of the wave function of the Universe in the radiation dominated case. **93i:83045**
Chakraborty, Ashok Kr. *see* **Chakraborty, Subenoy, 93c:83112** *and* **93k:83069**
Chakraborty, Subenoy Inflationary solutions in higher-dimensional quantum cosmology. (English summary) **93e:83063**
— (*with* Chakraborty, Ashok Kr.) String cosmology in spherically symmetric space-time. **93c:83112**
— (*with* Chakraborty, Ashok Kr.) Inhomogeneous string cosmology in higher dimension. (English summary) **93k:83069**
Chatterjee, Sujit (*with* Sil, A.) Extended inflation in higher-dimensional spacetime with a Brans-Dicke scalar field. (English summary) **93j:83065**
Cho, Y. M. (*with* Park, D. H.) Causally spanning anyonic cosmic string. (English summary) **93g:83015**
(Coleman, Sidney) *see* **Quantum cosmology and baby universes, 93h:83024**
Coley, Alan A. *see* **Goode, S. W.; et al., 93b:83047**
Conradi, Heinz-Dieter Initial state in quantum cosmology. **93c:83047**
Cooper, Adrian (*with* Susskind, Leonard; Thorlacius, Lárus) Two-dimensional quantum cosmology. **93c:83048**
Coule, David H. Wormholes with arbitrary coupling ξ. (English summary) **93i:83019**
Covarrubias, G. M. Lie groups in cosmology. **93c:83041**
Cvetič, Mirjam (*with* Griffies, Stephen) Gravitational effects in supersymmetric domain wall backgrounds.
D'Eath, P. D. (*with* Hawking, Stephen W.; Obregón, O.) Supersymmetric Bianchi models and the square root of the Wheeler-DeWitt equation. (English summary) **93k:83029**
(De Sabbata, Venzo) *see* **Quantum mechanics in curved space-time, 93d:83003**
Ellis, George F. R. *see* **Stoeger, William R.; et al., 93e:83021**
Elmfors, Per (*with* Skagerstam, Bo-Sture) Quantum fields at local equilibrium and distortions of the cosmic microwave background. (English summary) **93e:83039**
Esposito, Giampiero *see* **Buccella, Franco; et al., 93b:81183**
Fabris, Júlio C. (*with* Tossa, J.) Qualitative study of multidimensional cosmological models. (English summary) **93i:83083**
Ferrando, Joan Josep (*with* Morales, Juan Antonio; Portilla, Miquel) Inhomogeneous space-times admitting isotropic radiation: vorticity-free case. **93e:83028**
Frauendiener, Jörg (*with* Schmidt, B. G.) Numerical evolution, linear and nonlinear, of spherically symmetric deviations from an isotropic universe. (English summary) **93k:83001**
Gamboa, Jorge (*with* Seguí-Santonja, Antonio J.) Motion of test particles around cosmic strings. (English summary) **93h:83008**
García-Bellido, Juan (*with* Quirós, Mariano) String effective actions and cosmological stability of scalar potentials. (English summary) **93m:81117**
— *see also* **Casas, J. A.; et al., 93d:83054**
Garcia de Andrade, L. C. Torsion, massive electrodynamics and gravitation induced by scalar fields. (English summary) **93g:83058**
Garriga, Jaume (*with* Vilenkin, Alexander) Quantum fluctuations on domain walls, strings, and vacuum bubbles. **93b:83031**
Goode, S. W. (*with* Coley, Alan A.; Wainwright, John) The isotropic singularity in cosmology. **93b:83047**
Gregory, Ruth (*with* Harvey, Jeffrey A.) Quantum fermion hair. (English summary) **93f:83056**
Griffies, Stephen *see* **Cvetič, Mirjam**
Grishchuk, L. P. Quantum cosmology and baby universes. (*see* **93b:83002**)
— (*with* Sidorov, Yuriĭ Vladimirovich) Squeezed quantum states in theory of cosmological perturbations. **93d:83031**
Grøn, Øyvind (*with* Soleng, Harald H.) Gravitational effect of the quantum vacuum outside a cosmic string. **93b:83032**
Gunzig, Edgard *see* **Castagnino, Mario A.; et al., 93i:83045**
Guth, Alan H. Can a man-made universe be created by quantum tunneling without an initial singularity? **93b:83024**
Habib, Salman Stochastic inflation: quantum phase-space approach. (English summary) **93g:83048**
Halliwell, Jonathan J. Introductory lectures on quantum cosmology. (*see* **93b:83024**)
Harari, Diego D. (*with* Skarzhinskiĭ, V. D.) Quantum processes in the gravitational field of a cosmic string. (*see* **93b:83004**)
Hartle, James B. The quantum mechanics of cosmology. (*see* **93b:83024**)
— *see also* **Quantum cosmology and baby universes, 93h:83024**
Harvey, Jeffrey A. *see* **Gregory, Ruth, 93f:83056**
Hawking, Stephen W. *see* **D'Eath, P. D.; et al., 93k:83029**
Hayward, Sean A. On cosmological isotropy, quantum cosmology and the Weyl curvature hypothesis. (English summary) **93h:83023**
Hirenzaki, Satoru *see* **Shiraishi, Kiyoshi, 93f:83052**
Hochberg, David (*with* Kephart, Thomas W.) Wormhole cosmology and the horizon problem. (English summary) **93m:83072**
Hortaçsu, M. Quantum fluctuations of a spherical gravitational shock wave. **93d:83039**
— Fluctuations of a spherical gravitational impulsive wave. (English summary) **93m:83024**
Huang, Wung Hong Hawking radiation of a quantum black hole in an inflationary universe. **93f:83057**
Hughes, Shane J. (*with* McManus, Des J.; Vandyck, Michel A.) Weak-field gravity of circular cosmic strings. (English summary) **93h:83018**

Isaacson, Jeffrey A. *see* **Rogers, Barrett, 93d:83040**
Israelit, Mark (*with* Rosen, Nathan) The static character of prematter particles. **93d:83056**
Jensen, Bjørn (*with* Soleng, Harald H.) General-relativistic model of a spinning cosmic string. **93d:83012**
Kaloper, Nemanja Stringy cosmic strings and axion cohomology. (English summary) **93m:83080**
Kamenshchik, A. Yu. *see* **Barvinskiĭ, A. O., 93c:83046** *and* **93d:83028**
Kao, W. F. Scale-invariant effective action with torsion. (French summary) **93c:83097**
Karmazin, I. P. *see* **Barvinskiĭ, A. O.; et al., 93d:83028**
Kasai, Masumi Construction of inhomogeneous universes which are Friedmann-Lemaître-Robertson-Walker on average. (English summary) **93f:83012**
Kephart, Thomas W. *see* **Hochberg, David, 93m:83072**
Khalatnikov, I. M. (*with* Mezhlumyan, A.) The classical and quantum cosmology with a complex scalar field. (English summary) **93g:83051**
Kim, Sang Pyo (*with* Page, Don N.) Wormhole spectrum of a quantum Friedmann-Robertson-Walker cosmology minimally coupled to a power-law scalar field and the cosmological constant. **93a:83020**
Korotkiĭ, V. A. (*with* Obukhov, Yu. N.) Rotating and expanding cosmology in ECSK-theory. (English summary) **93m:83069**
Kounnas, Costas (*with* Lüst, Dieter) Cosmological string backgrounds from gauged WZW models. (English summary) **93g:83094**
Kuz'min, V. A. *see* **Berezin, V. A.; et al., (93b:83004)**
Laflamme, Raymond *see* **Brandenberger, Robert H.; et al., (93b:83004)**
Larsen, A. L. Charged cosmic string near a black hole. **93d:83047**
Lavrelashvili, G. (*with* Rubakov, V. A.; Tinyakov, P. G.) Third quantization of gravity and the cosmological constant problem. **93m:83034**
Lee, C. F. P. Thermodynamics of charged black holes attached to cosmic strings. (English summary) **93i:83061**
— Effects of Hawking radiation on black-hole–cosmic-string systems. (English summary)
Letelier, Patricio S. On the interaction of cosmic strings with gravitational waves. **93c:83038**
— Topological defects: cosmic strings with multipolar structure. (English summary) **93i:83021**
Liddle, Andrew R. (*with* Mellor, Felicity) de Sitter solutions in higher order gravity. **93b:83056**
Liebscher, D.-E. *see* **Bleyer, U.; et al., 93d:83062**
Linde, A. D. Cosmological constant, quantum cosmology and anthropic principle. (English summary) **93k:83031**
Linet, B. The Euclidean thermal Green function in the spacetime of a cosmic string. (English summary) **93g:83055**
Lüst, Dieter *see* **Kounnas, Costas, 93g:83094**
Magueijo, J. C. R. Inborn metric of cosmic strings. (English summary) **93e:83017**
— Local gauge-invariant cosmological perturbations. (English summary) **93f:83029**
Maiti, Pijush K. *see* **Roy, A. R., 93a:83008**
Markov, M. A. On some problems of quantum and classical gravitation. (*see* **93b:83004**)
Maszczyk, Roman A. Fluid of multidimensional objects in cosmology. **93f:83078**
Mattes, M. (*with* Sorg, M.) Nonstandard model of the expanding universe. **93c:83100**
Matyjasek, Jerzy (*with* Rogatko, Marek) Cosmic strings in Lyra geometry. (English summary) **93d:83057**
Mazzitelli, Francisco D. Higher derivatives and renormalization in quantum cosmology. **93e:83036**
McManus, Des J. *see* **Hughes, Shane J.; et al., 93h:83018**
Mehta, N. P. *see* **Patel, L. K., 93g:83021**
Mellor, Felicity *see* **Liddle, Andrew R., 93b:83056**
Menskiĭ, M. B. The self-measurement of the Universe and the concept of time in quantum cosmology. **93c:83052**
— The problem of time in quantum cosmology and self-measurement of the Universe. **93k:83033**
Meyerstein, F. Walter *see* **Brisson, Luc, 93g:00012**
Mezhlumyan, A. *see* **Khalatnikov, I. M., 93g:83051**
Miele, Gennaro *see* **Buccella, Franco; et al., 93b:81183**
Mijić, Milan *see* **Brandenberger, Robert H.; et al., (93b:83004)**
Mishakov, I. V. *see* **Barvinskiĭ, A. O.; et al., 93d:83028**
Morales, Juan Antonio *see* **Ferrando, Joan Josep; et al., 93e:83028**
Nambu, Yasusada (*with* Siino, Masaru) Wormhole formation in numerical cosmology. (English summary) **93g:83002**
Nardone, Pascal *see* **Castagnino, Mario A.; et al., 93i:83045**
(Nath, Pran) *see* **Particles, strings and cosmology, 93a:81004**
Nel, Stanley D. *see* **Stoeger, William R.; et al., 93e:83021**
Obregón, O. (*with* Socorro, J.; Benítez, J.) Supersymmetric quantum cosmology proposals and the Bianchi type-II model. (English summary) **93m:83037**
— *see also* **D'Eath, P. D.; et al., 93k:83029**
Obukhov, Yu. N. *see* **Korotkiĭ, V. A., 93m:83069**
Pacher, Tibor (*with* Stein-Schabes, Jaime A.) On the locality of the no hair conjecture and the measure of the universe. (German summary) **93d:83025**
Page, Don N. Minisuperspace wavefunctions for cosmology and wormholes. **93d:83035**
— *see also* **Kim, Sang Pyo, 93a:83020**
Park, D. H. *see* **Cho, Y. M., 93g:83015**
Parry, J. Linearized stochastic perturbations during chaotic inflation. (English summary) **93h:83025**
Patel, L. K. (*with* Mehta, N. P.) A cylindrical string cosmological model. (English summary) **93g:83021**
— *see also* **Tikekar, Ramesh, 93c:83015**
(Piran, Tsvi) *see* **Quantum cosmology and baby universes, 93h:83024**
Polnarev, A. G. *see* **Bleyer, U.; et al., 93d:83062**
Portilla, Miquel *see* **Ferrando, Joan Josep; et al., 93e:83028**
Prugovečki, Eduard Foundational problems in quantum gravity and quantum cosmology. **93m:83038**
Quirós, Mariano *see* **Casas, J. A.; et al., 93d:83054** *and* **García-Bellido, Juan, 93m:81117**
Ramón-Medrano, M. *see* **de Vega, H. J.; et al., 93b:81232** *and* **93b:81233**
Raychaudhuri, A. K. (*with* Banerji, S.; Banerjee, Asit Kumar) ★ General relativity, astrophysics, and cosmology. **93j:83001**
(Reucroft, Stephen) *see* **Particles, strings and cosmology, 93a:81004**
Rogatko, Marek *see* **Matyjasek, Jerzy, 93d:83057**
Rogers, Barrett (*with* Isaacson, Jeffrey A.) The stability of de Sitter space with a scalar quantum field. II. The linear analysis. **93d:83040**
Romero, Carlos Augusto (*with* Barros, A.) Brans-Dicke cosmology and the cosmological constant: the spectrum of vacuum solutions. (English summary) **93d:83059**
Rosen, Nathan *see* **Israelit, Mark, 93d:83056**
Roy, A. R. (*with* Maiti, Pijush K.) Viscous fluid cosmological models in the presence of the zero-mass scalar field. **93a:83008**
Rubakov, V. A. *see* **Lavrelashvili, G.; et al., 93m:83034**
Saich, Paul *see* **Barrow, John D., 93i:83018** *and* **93j:83051**
Sakellariadou, María Semiclassical effects and the onset of inflation. (English summary) **93m:83006**
Sánchez, Norma *see* **de Vega, H. J.; et al., 93b:81232** *and* **93b:81233**
dos Santos, Ivonete B. *see* **Bezerra, Valdir B., 93b:83029**
Schmidt, B. G. *see* **Frauendiener, Jörg, 93k:83001**
Schön, Martin Nonmetrical description of cosmological perturbations. (English summary) **93f:83030**
Seguí-Santonja, Antonio J. *see* **Gamboa, Jorge, 93h:83008**
Shiraishi, Kiyoshi (*with* Hirenzaki, Satoru) Quantum aspects of self-interacting fields around cosmic strings. (English summary) **93f:83052**
Sidorov, Yurii Vladimirovich *see* **Grishchuk, L. P., 93d:83031**
Siino, Masaru *see* **Nambu, Yasusada, 93g:83002**
Sil, A. *see* **Chatterjee, Sujit, 93j:83065**
Singh, G. P. *see* **Singh, Triloki, 93f:83024**
Singh, Triloki (*with* Singh, G. P.) Bianchi type III and Kantowski-Sachs cosmological models in Lyra geometry. (English summary) **93f:83024**
Skagerstam, Bo-Sture *see* **Elmfors, Per, 93e:83039**
Skarzhinskiĭ, V. D. *see* **Harari, Diego D., (93b:83004)**
Śniatycki, Jędrzej Hamiltonian constraints, the Jacobi principle and gravity. **93c:83011**
Socorro, J. *see* **Obregón, O.; et al., 93m:83037**
Soleng, Harald H. *see* **Grøn, Øyvind, 93b:83032** *and* **Jensen, Bjørn, 93d:83012**
Sorg, M. *see* **Mattes, M., 93c:83100**
Spallucci, Euro *see* **Aurilia, Antonio, (93g:81003)**
Stein-Schabes, Jaime A. *see* **Pacher, Tibor, 93d:83025**
Stoeger, William R. (*with* Ellis, George F. R.; Nel, Stanley D.) Observational cosmology. III. Exact spherically symmetric dust solutions. **93e:83021**
Strominger, Andrew Baby universes. (*see* **93h:83024**)
Susskind, Leonard *see* **Cooper, Adrian; et al., 93c:83048**
Thorlacius, Lárus *see* **Cooper, Adrian; et al., 93c:83048**
Tikekar, Ramesh (*with* Patel, L. K.) Some exact solutions of string cosmology in Bianchi III space-time. **93c:83015**
Tinyakov, P. G. *see* **Lavrelashvili, G.; et al., 93m:83034**
Tkachev, I. I. *see* **Berezin, V. A.; et al., (93b:83004)**
Tomaschitz, Roman Relativistic quantum chaos in Robertson-Walker cosmologies. **93g:81027**
Tossa, J. *see* **Fabris, Júlio C., 93i:83083**
Treder, Hans-Jürgen Conform[al] invariance and Mach's principle in cosmology. (English summary) **93h:83007**
Tseytlin, A. A. Dilaton, winding modes and cosmological solutions. **93e:83066**
— (*with* Vafa, Cumrun) Elements of string cosmology. **93c:83116**
Vafa, Cumrun *see* **Tseytlin, A. A., 93c:83116**
Vandyck, Michel A. *see* **Hughes, Shane J.; et al., 93h:83018**
de Vega, H. J. (*with* Ramón-Medrano, M.; Sánchez, Norma) Scattering of superstrings by cosmic strings. **93b:81232**
— (*with* Ramón-Medrano, M.; Sánchez, Norma) Superstring propagation through supergravitational shockwaves. **93b:81233**
Vilenkin, Alexander *see* **Garriga, Jaume, 93b:83031**
Waga, I. The existence of Newtonian analogs of a class of 5D Wesson's cosmological models. **93c:83106**
Wainwright, John *see* **Goode, S. W.; et al., 93b:83047**
Wald, Robert M. Correlations beyond the horizon. (English summary) **93k:83042**
Wang, An Zhong Plane walls interacting with gravitational waves and matter fields. **93b:83039**
— Dynamics of plane-symmetric thin walls in general relativity. **93b:83040**
Wang, Jin Superstrings in quantum cosmology. **93c:83064**
(Weinberg, S.) *see* **Quantum cosmology and baby universes, 93h:83024**
Yang, Yi Song The existence of a class of cosmic string solutions with infinite energy. (English summary) **93k:83016**
Zhuk, A. I. Integrable multidimensional quantum cosmology. (English summary) **93f:83046**
Zurek, Wojciech H. Environment-induced superselection in cosmology. **93d:81023**

Items listed otherwise than by author

Boston, MA ★ Particles, strings and cosmology. **93a:81004**
Erice ★ Quantum mechanics in curved space-time. **93d:83003**
Jerusalem ★ Quantum cosmology and baby universes. **93h:83024**
NATO Advanced Research Workshop:
Quantum Mechanics in Curved Space-Time ★ Quantum mechanics in curved space-time. **93d:83003**
Particles, strings and cosmology ★ Particles, strings and cosmology. **93a:81004**
Quantum cosmology and baby universes ★ Quantum cosmology and baby universes. **93h:83024**
Quantum mechanics in curved space-time ★ Quantum mechanics in curved space-time. **93d:83003**
School:
Quantum Cosmology and Baby Universes ★ Quantum cosmology and baby universes. **93h:83024**

Symposium:
Particles, Strings and Cosmology ★ Particles, strings and cosmology. **93a:81004**

85–XX Astronomy and astrophysics {For celestial mechanics, see 70F15.}

85–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 85–03

Britton, John Phillips ★ Models and precision: the quality of Ptolemy's observations and parameters. **93m:01009**
Chabás, José (*with* Goldstein, Bernard R.) Nicholaus de Heybech and his table for finding true syzygy. (English, French and Spanish summaries) **93k:01013**
Fomenko, A. T. (*with* Kalashnikov, V. V.; Nosovskiĭ, G. V.) Statistical analysis and dating of the observations on which Ptolemy's *Almagest* star catalogue is based. **93a:01007**
Goldstein, Bernard R. *see* **Chabás, José, 93k:01013**
(de Heybech, Nicholaus) *see* **Chabás, José, 93k:01013**
Kalashnikov, V. V. *see* **Fomenko, A. T.; et al., 93a:01007**
Kosareva, L. M. Images of the Universe in 16th–18th century European culture. (Russian) **93a:01012**
Nosovskiĭ, G. V. *see* **Fomenko, A. T.; et al., 93a:01007**
(Ptolemy of Alexandria) *see* **Swerdlow, N. M., 93g:01012** *and* **Britton, John Phillips, 93m:01009**
Swerdlow, N. M. The enigma of Ptolemy's catalogue of stars. **93g:01012**

85–06 Proceedings, conferences, collections, etc.

(Heck, A.) *see* **Applying fractals in astronomy, 93g:85001**
(Perdang, J. M.) *see* **Applying fractals in astronomy, 93g:85001**

Items listed otherwise than by author

Applying fractals in astronomy ★ Applying fractals in astronomy. **93g:85001**
Lecture Notes in Physics. New Series m: Monographs ★ Applying fractals in astronomy. **93g:85001**

Items with secondary classifications in 85–06

(Davies, Andrew T.) *see* **Physics of the early universe, 93b:83071**
(Heavens, Alan F.) *see* **Physics of the early universe, 93b:83071**
(Peacock, John A.) *see* **Physics of the early universe, 93b:83071**

Items listed otherwise than by author

Edinburgh ★ Physics of the early universe. **93b:83071**
NATO Advanced Study Institute:
Physics of the Early Universe ★ Physics of the early universe. **93b:83071**
Physics of the early universe ★ Physics of the early universe. **93b:83071**
School:
Physics of the Early Universe ★ Physics of the early universe. **93b:83071**

85–08 Computational methods

Bertsik, P. P. (*with* Kolesnik, I. G.) Smoothed particle hydrodynamics and its application to the solution of astrophysical problems. (Russian. English, Russian and Ukrainian summaries)
Kolesnik, I. G. *see* **Bertsik, P. P.**
Sussman, Gerald Jay (*with* Wisdom, Jack) Chaotic evolution of the solar system. **93c:85001**
Wisdom, Jack *see* **Sussman, Gerald Jay, 93c:85001**

Items with secondary classifications in 85–08

Cid, R. (*with* Longás, C.) Correction of orbits of visual binary stars via Fourier series of the mean anomaly. (Spanish. English summary) **93j:85003**
Devyatov, B. N. (*with* Rubtsov, N. A.; Solov'ev, V. P.) A general method for the analytic investigation of nonlinear nonstationary problems of heat exchange and radiation transfer. (Russian) **93g:80002**
Domínguez-Tenreiro, R. *see* **Yepes, G., 93k:85003**
Longás, C. *see* **Cid, R., 93j:85003**
Richardson, Derek C. A new tree code method for simulation of planetesimal dynamics. (English summary) **93m:85002**
Rubtsov, N. A. *see* **Devyatov, B. N.; et al., 93g:80002**
Solov'ev, V. P. *see* **Devyatov, B. N.; et al., 93g:80002**
Yepes, G. (*with* Domínguez-Tenreiro, R.) A computational study of the dynamical evolution of self-gravitating systems. (English summary) **93k:85003**

85A04 General

Goudas, C. L. The N-dipole problem and the rings of Saturn. **93k:85001**
Muratov, R. Z. Equivalent sources for the external potential of an ellipsoid. (Russian) **93i:85001**
Silva, Roberto Artur Cornetti The influence of the Laplacian constraint over a motion like the three first Galilean satellites of Jupiter. (English and Portuguese summaries) **93g:85002**

85A05 Galactic and stellar dynamics

Aly, Jean-Jacques (*with* Pérez, Jérôme) On the stability of a gaseous sphere against nonradial perturbations. (English summary) **93i:85002**
Baumann, Gerd (*with* Freyberger, M.) Generalized symmetries and integrals of motion for the Hénon-Heiles model. **93b:85001**
Chandrasekhar, Subrahmanyan (*with* Ferrari, Valeria) On the nonradial oscillations of a star. III. A reconsideration of the axial modes. (English summary) **93j:85001**
— (*with* Ferrari, Valeria) On the nonradial oscillations of a star. IV. An application of the theory of Regge poles. (English summary) **93j:85002**
Cid, R. (*with* Longás, C.) Correction of orbits of visual binary stars via Fourier series of the mean anomaly. (Spanish. English summary) **93j:85003**
Contopoulos, G. (*with* Papadaki, H.) Newtonian and relativistic periodic orbits around two fixed black holes. (English summary) **93m:85001**
Domínguez-Tenreiro, R. *see* **Yepes, G., 93k:85003**
Durran, Richard M. (*with* Truman, Aubrey) Log-concavity of radial Schrödinger wave functions and convergence of planetesimal diffusions. **93j:85004**
Ferrari, Valeria *see* **Chandrasekhar, Subrahmanyan, 93j:85001** *and* **93j:85002**
Freyberger, M. *see* **Baumann, Gerd, 93b:85001**
Goudas, C. L. (*with* Petsagourakis, E. G.) The three-dipole problem. (English summary) **93k:85002**
Heggie, Douglas C. Chaos in the N-body problem of stellar dynamics. (*see* **93i:70002**)
Kojima, Yasufumi Equations governing the nonradial oscillations of a slowly rotating relativistic star. (English summary) **93g:85003**
Kondrat'ev, B. P. Equilibrium figures of stellar systems with a needle-shaped velocity ellipsoid. Isointegral tangent curves and degeneration of models into spheroids and singular ellipsoids. (Russian) **93f:85001**
Longás, C. *see* **Cid, R., 93j:85003**
Papadaki, H. *see* **Contopoulos, G., 93m:85001**
Pérez, Jérôme *see* **Aly, Jean-Jacques, 93i:85002**
Petsagourakis, E. G. *see* **Goudas, C. L., 93k:85002**
Richardson, Derek C. A new tree code method for simulation of planetesimal dynamics. (English summary) **93m:85002**
Truman, Aubrey *see* **Durran, Richard M., 93j:85004**
Yepes, G. (*with* Domínguez-Tenreiro, R.) A computational study of the dynamical evolution of self-gravitating systems. (English summary) **93k:85003**

Items with secondary classifications in 85A05

Aguilar, Luis A. The N-body problem in astronomy. (Spanish. English and Spanish summaries)
Kirpichnikov, S. N. (*with* Kokorev, A. A.) On the first type of steady motions of two gravitating bodies, one axisymmetric and one spherically symmetric. (Russian. English summary) **93b:70013**
Kokorev, A. A. *see* **Kirpichnikov, S. N., 93b:70013**

85A15 Galactic and stellar structure

Aly, Jean-Jacques A model for magnetic energy storage and Taylor's relaxation in the solar corona. I. Helicity-constrained minimum energy state in a half-cylinder. (English summary) **93k:85004**
Balmforth, N. J. (*with* Howard, L. N.; Spiegel, E. A.) Equilibria of rapidly rotating polytropes. (English summary) **93j:85005**
Berger, Mitchell A. Energy-crossing number relations for braided magnetic fields. (English summary) **93i:85003**
Dłotko, Tomasz Stability of the Chandrasekhar-Münch equation. **93c:85002**
Erdl, Helmut (*with* Schneider, Peter) Classification of the multiple deflection two-point-mass gravitational lens models and application of catastrophe theory in lensing. (English summary) **93m:85003**
Gautschy, Alfred *see* **Glatzel, Wolfgang, 93b:85002**
Glatzel, Wolfgang (*with* Gautschy, Alfred) The treatment of highly nonadiabatic, nonradial pulsations by application of the Riccati method to the example of hydrogen-deficient carbon stars. **93b:85002**
Howard, L. N. *see* **Balmforth, N. J.; et al., 93j:85005**
Hunter, C. (*with* Qian, Edward) Two-integral distribution functions for axisymmetric galaxies. (English summary) **93m:85004**
Makino, Tetu Blowing up solutions of the Euler-Poisson equation for the evolution of gaseous stars. (English summary) **93i:85004**
Qian, Edward *see* **Hunter, C., 93m:85004**
Schneider, Peter *see* **Erdl, Helmut, 93m:85003**
Spiegel, E. A. *see* **Balmforth, N. J.; et al., 93j:85005**

Items with secondary classifications in 85A15

Lieb, Elliott H. (*with* Solovej, Jan Philip) Atoms in the magnetic field of a neutron star. **93m:81165**
Nishi, Ryoichi On the instability of decelerating shock waves. **93c:76057**
(Pietronero, Luciano) *see* **Fractals' physical origin and properties, 93k:00018**
Priou, Denis The perturbations of a fully general relativistic and rapidly rotating neutron star. I. Equations of motion for the solid crust. **93d:83043**
Solovej, Jan Philip *see* **Lieb, Elliott H., 93m:81165**
Zinchenko, B. G. Asymptotic properties of the local problem of a disk dynamo. (Russian) **93e:85003**

Items listed otherwise than by author

Erice ★ Fractals' physical origin and properties. **93k:00018**
Fractals' physical origin and properties ★ Fractals' physical origin and properties. **93k:00018**
Seminar:
Fractals ★ Fractals' physical origin and properties. **93k:00018**

85A20 Stellar atmospheres

Biswas, G. *see* **Deb, T. K.; et al., 93d:85001**

Deb, T. K. (*with* Karanjai, S.; Biswas, G.) Time-dependent scattering and transmission function in an anisotropic two-layered atmosphere. **93d:85001**

Fleck, B. *see* **Schmitz, F., 93d:85002**

Karanjai, S. *see* **Deb, T. K.; et al., 93d:85001**

Saniga, Metod On two different types of sunspots—"vortices" and "sources"—within a U(1)-symmetric Yang-Mills-Higgs system. (English summary) **93e:85001**

Schmitz, F. (*with* Fleck, B.) On the reflection of linear hydrodynamic waves at continuous temperature steps in stellar atmospheres. (English summary) **93d:85002**

Items with secondary classifications in 85A20

Siddiqui, A. (*with* Uppal, S. M.) Some representations of unified Voigt functions $\Omega^{\mu}_{\eta,\nu,\lambda}(x,y)$. **93a:33001**

Uppal, S. M. *see* **Siddiqui, A., 93a:33001**

Véron, Laurent Conformal asymptotics of the isothermal gas spheres equation. **93e:35031**

85A25 Radiative transfer

Anile, A. M. (*with* Pennisi, Sebastiano; Sammartino, Marco) Covariant radiation hydrodynamics. (French summary) **93a:85001**

Bui, Dat Duc Convergence of the F_N method for anisotropic scattering in plane geometry. **93d:85003**

Deb, T. K. *see* **Karanjai, S., 93a:85003** *and* **93j:85006**

Faber, Vance (*with* Wing, G. Milton; Zahrt, John D.) Time-dependent radiative transfer in a spherical vacuum. II. Asymptotic results. **93e:85002**

Ioltukhovskiĭ, A. A. Modeling radiation transfer in the atmosphere with an inhomogeneous and nonorthotropic underlying surface. (Russian. English summary) **93a:85002**

Karanjai, M. *see* **Karanjai, S., 93g:85004**

Karanjai, S. (*with* Deb, T. K.) An exact solution of the equation of transfer for coherent scattering in an exponential atmosphere. **93a:85003**

— (*with* Karanjai, M.) The zeros of some transcendental functions of transport theory. (English summary) **93g:85004**

— (*with* Deb, T. K.) The time-dependent X- and Y-functions. (English summary) **93j:85006**

— (*with* Talukder, M.) Solution of the equation of transfer with general phase function by a modified spherical-harmonic method. (English summary) **93m:85005**

Kuščer, I. (*with* McCormick, N. J.) Some analytical results for radiative transfer in thick atmospheres. **93f:85002**

McCormick, N. J. *see* **Kuščer, I., 93f:85002**

Pennisi, Sebastiano (*with* Sammartino, Marco) A mathematical model for radiation hydrodynamics. **93b:85003**

— *see also* **Anile, A. M.; et al., 93a:85001**

Pomraning, Gerald C. (*with* Szilard, R. H.) Flux-limited diffusion models in radiation hydrodynamics. (English summary) **93k:85005**

Sammartino, Marco *see* **Anile, A. M.; et al., 93a:85001** *and* **Pennisi, Sebastiano, 93b:85003**

Surinov, Yu. A. Integral equations of the relation between resolvents for different formulations of problems in the theory of radiation transfer and radiation heat exchange. (Russian) **93a:85004**

Szilard, R. H. *see* **Pomraning, Gerald C., 93k:85005**

Talukder, M. *see* **Karanjai, S., 93m:85005**

Ueno, Sueo *see* **Wang, Alan P., 93j:85007**

Wang, Alan P. (*with* Ueno, Sueo) Searchlight on a target with diffuse background. I. (English summary) **93j:85007**

Wing, G. Milton *see* **Faber, Vance; et al., 93e:85002**

Zahrt, John D. *see* **Faber, Vance; et al., 93e:85002**

Items with secondary classifications in 85A25

Devyatov, B. N. (*with* Rubtsov, N. A.; Solov′ev, V. P.) A general method for the analytic investigation of nonlinear nonstationary problems of heat exchange and radiation transfer. (Russian) **93g:80002**

Golse, François Knudsen layers from a computational viewpoint. **93e:82043**

Gryn′, V. I. Inverse problems in the theory of stationary radiation transfer in two-dimensional plane geometry. (Russian) **93b:35134**

— Variational problems in radiation transfer theory and the method of spherical harmonics. (Russian. Russian summary) **93k:49041a**

— Errata: "Variational problems in radiation transfer theory and the method of spherical harmonics". (Russian) **93k:49041b**

Kremer, G. M. (*with* Müller, Ingo) Radiation thermodynamics. **93b:80002**

Morozov, S. F. The Cauchy problem for a nonlinear integro-differential system of radiation transfer. (Russian) (*see* **93g:34001**)

Müller, Ingo *see* **Kremer, G. M., 93b:80002**

Nelson, Paul, Jr. (*with* Seth, Daniel L.; Vasudevan, R.) An integrodifferential equation for the two-dimensional reflection kernel. **93c:82061**

Rubtsov, N. A. *see* **Devyatov, B. N.; et al., 93g:80002**

Seth, Daniel L. *see* **Nelson, Paul, Jr.; et al., 93c:82061**

Solov′ev, V. P. *see* **Devyatov, B. N.; et al., 93g:80002**

Vasudevan, R. *see* **Nelson, Paul, Jr.; et al., 93c:82061**

85A30 Hydrodynamic and hydromagnetic problems [see also 76Y05]

Abbey, T. M. (*with* Bestman, A. R.; Mbeledogu, I. U.) The flow of a two-component plasma model in a porous rotating hot sphere. (English summary) **93h:85001**

Bestman, A. R. *see* **Abbey, T. M.; et al., 93h:85001**

Bonazzola, S. (*with* Pérault, M.; Puget, J. L.; Heyvaerts, J.; Falgarone, E.; Panis, J. F.) Jeans collapse of turbulent gas clouds: tentative theory. (English summary) **93i:85005**

Bray, Marcel Polytropes en magnetohydrodynamique. (English summary) [Polytropes in magnetohydrodynamics] **93d:85004**

Falgarone, E. *see* **Bonazzola, S.; et al., 93i:85005**

Heyvaerts, J. *see* **Bonazzola, S.; et al., 93i:85005**

Kalinina, A. V. *see* **Rabinovich, B. I.; et al., 93m:85006**

Lebedev, V. G. *see* **Rabinovich, B. I.; et al., 93m:85006**

Lindblom, Lee On the symmetries of equilibrium stellar models. (English summary) **93h:85002**

Mbeledogu, I. U. *see* **Abbey, T. M.; et al., 93h:85001**

Panis, J. F. *see* **Bonazzola, S.; et al., 93i:85005**

Pérault, M. *see* **Bonazzola, S.; et al., 93i:85005**

Puget, J. L. *see* **Bonazzola, S.; et al., 93i:85005**

Rabinovich, B. I. (*with* Lebedev, V. G.; Kalinina, A. V.) Magnetohydrodynamics of a rotating magnetized plasma ring. (Russian) **93m:85006**

Zinchenko, B. G. Asymptotic properties of the local problem of a disk dynamo. (Russian) **93e:85003**

Items with secondary classifications in 85A30

Alicki, Robert Dirac equations for MHD waves: Hamiltonian spectra and supersymmetry. (English summary) **93i:76098**

Anile, A. M. (*with* Pennisi, Sebastiano; Sammartino, Marco) Covariant radiation hydrodynamics. (French summary) **93a:85001**

Balmforth, N. J. (*with* Howard, L. N.; Spiegel, E. A.) Equilibria of rapidly rotating polytropes. (English summary) **93j:85005**

Banerjee, Mihir B. (*with* Bhowmik, S. K.) Salvaging the Thompson-Chandrasekhar criterion: a tribute to S. Chandrasekhar. **93d:76073**

Barts, B. I. (*with* Moiseev, S. S.) The wave-turbulent dynamo. (Russian) (*see* **92d:00031**)

Bayly, Bruce (*with* Levermore, C. David; Passot, T.) Density variations in weakly compressible flows. **93a:76049**

— *see also* **Gilbert, Andrew D., 93f:76101**

Bhowmik, S. K. *see* **Banerjee, Mihir B., 93d:76073**

Gilbert, Andrew D. (*with* Bayly, Bruce) Magnetic field intermittency and fast dynamo action in random helical flows. (English summary) **93f:76101**

Hamabata, Hiromitsu Nonlinear hydromagnetic waves in a thermally stratified cylindrical fluid. I. Exact translationally and axially symmetric solutions. (English summary) **93g:76112**

Hamilton, R. L. (*with* Kennel, C. F.; Mjølhus, E.) Stability and bifurcation of quasiparallel Alfvén solitons. (English summary) **93j:35149**

— (*with* Kennel, C. F.; Mjølhus, E.) Formation of quasiparallel Alfvén solitons. (English summary) **93j:35150**

Howard, L. N. *see* **Balmforth, N. J.; et al., 93j:85005**

Kennel, C. F. *see* **Hamilton, R. L.; et al., 93j:35149** *and* **93j:35150**

Kravtsov, O. V. Lagrangian invariants in the equilibrium conditions of an ideal rotating fluid. **93f:76097**

Lebovitz, Norman (*with* Lifschitz, Alexander E.) Short wavelength instabilities of rotating, compressible fluid masses. (English summary) **93g:76055**

Levermore, C. David *see* **Bayly, Bruce; et al., 93a:76049**

Lifschitz, Alexander E. *see* **Lebovitz, Norman, 93g:76055**

Linardatos, D. Determination of two-dimensional magnetostatic equilibria and analogous Euler flows. (English summary) **93i:76100**

Mjølhus, E. *see* **Hamilton, R. L.; et al., 93j:35149** *and* **93j:35150**

Moiseev, S. S. *see* **Barts, B. I., (92d:00031)**

Nishi, Ryoichi On the instability of decelerating shock waves. **93c:76057**

Passot, T. *see* **Bayly, Bruce; et al., 93a:76049**

Pennisi, Sebastiano *see* **Anile, A. M.; et al., 93a:85001**

Roberts, Paul H. (*with* Soward, A. M.) Dynamo theory. **93c:76086**

Ruzmaikin, A. A. *see* **Sokolov, D. D.; et al., 93h:76081**

Sammartino, Marco *see* **Anile, A. M.; et al., 93a:85001**

Shukurov, A. M. *see* **Sokolov, D. D.; et al., 93h:76081**

Sokolov, D. D. (*with* Shukurov, A. M.; Ruzmaĭkin, A. A.) Magnetic structures, intermittency and highly supercritical dynamos. (English summary) **93h:76081**

Soward, A. M. *see* **Roberts, Paul H., 93c:76086**

Spiegel, E. A. *see* **Balmforth, N. J.; et al., 93j:85005**

Villaggio, Piero The equilibrium shapes of earth masses. (English summary) **93g:73100**

Winnewisser, G. *see* **Yue, Zeng Yuan, 93f:76046**

Yue, Zeng Yuan (*with* Winnewisser, G.) On the temporal and the spatial Kelvin-Helmholtz instability of a hypersonic jet confined by a longitudinal magnetic field. (English summary) **93f:76046**

85A35 Statistical astronomy

Albeverio, Sergio (*with* Blanchard, Philippe; Gandolfo, Daniel; Høegh-Krohn, Raphael; Mebkhout, Mohammed) Morphology and classification of galaxies. A stochastic model. (English summary) **93g:85005**

Blanchard, Philippe *see* **Albeverio, Sergio; et al., 93g:85005**

Gandolfo, Daniel *see* **Albeverio, Sergio; et al., 93g:85005**

Høegh-Krohn, Raphael *see* **Albeverio, Sergio; et al., 93g:85005**

Mebkhout, Mohammed *see* **Albeverio, Sergio; et al., 93g:85005**

Sakhyan, G. A. Investigation of the structure of the observed field of an object from the standpoint of integral geometry. (Russian) **93b:85004**

Items with secondary classifications in 85A35

Molina, R. (*with* Ripley, B. D.) Deconvolution in optical astronomy. A Bayesian approach. (English summary) (*see* **93e:62005**)

Ripley, B. D. *see* **Molina, R., (93e:62005)**

85A40 Cosmology {For relativistic cosmology, see 83F05.}

Items with secondary classifications in 85A40

Banerjee, Asit Kumar *see* **Raychaudhuri, A. K.; et al., 93j:83001**

Banerji, S. *see* **Raychaudhuri, A. K.; et al., 93j:83001**

Raychaudhuri, A. K. (*with* Banerji, S.; Banerjee, Asit Kumar) ★ General relativity, astrophysics, and cosmology. **93j:83001**

85A45 Radio astronomy

Items with secondary classifications in 85A45

Maistrenko, V. L. (*with* Maistrenko, Yu. L.; Sushko, I. M.) A non-one-to-one mapping of the plane that arises in radio physics. (Russian. Russian summary) **93f:58126**
Maistrenko, Yu. L. *see* **Maistrenko, V. L.; et al., 93f:58126**
Sushko, I. M. *see* **Maistrenko, V. L.; et al., 93f:58126**

85A99 Miscellaneous topics

Men'shikov, Yu. L. On an inverse problem in astrodynamics. (Russian. Russian summary) **93m:85007**
Schneider, Peter (*with* Weiss, A.) The gravitational lens equation near cusps. (English summary) **93d:85005**
Weiss, A. *see* **Schneider, Peter, 93d:85005**

Items with secondary classifications in 85A99

Ch'ên, Ming Po *see* **Srivastava, Hari M., 93e:33005**
Dłotko, Tomasz Stability of the Chandrasekhar-Münch equation. **93c:85002**
(Heck, A.) *see* **Applying fractals in astronomy, 93g:85001**
Henry, Daniel B. The temperature of an asteroid. (French summary) **93a:35087**
(Perdang, J. M.) *see* **Applying fractals in astronomy, 93g:85001**
Srivastava, Hari M. (*with* Ch'ên, Ming Po) Some unified presentations of the Voigt functions. **93e:33005**

Items listed otherwise than by author

Applying fractals in astronomy ★ Applying fractals in astronomy. **93g:85001**
Lecture Notes in Physics. New Series m: Monographs ★ Applying fractals in astronomy. **93g:85001**

86–XX Geophysics [see also 73N05, 76U05, 76V05]

86–02 Research exposition (monographs, survey articles)

Items with secondary classifications in 86–02

Aksenov, V. V. ★ Алгоритмы разделения геофизических полей. (Russian) [Algorithms for dividing geophysical fields]
Lions, Jacques-Louis Earth system models and mathematical remarks. **93e:00012**

86–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 86–03

van den Ende, Jan (*with* de Jong, Frida) Die Berechnung von Wasserfluten. Tideforschung in den Niederlanden, 1920–1960. (English and German summaries) [The computation of floods. Tidal research in the Netherlands, 1920–1960]
Ertel, Hans ★ Geophysical hydrodynamics and Ertel's potential vorticity. **93k:01090**
de Jong, Frida *see* **van den Ende, Jan**
Scholz, Erhard Gauß und die Begründung der "höheren" Geodäsie. [Gauss and the foundations of "higher" geodesy] **93h:01025**
(Schröder, Wilfried) *see* **Ertel, Hans, 93k:01090**
(Treder, Hans-Jürgen) *see* **Ertel, Hans, 93k:01090**
(Wiegman, Rosi) *see* **van den Ende, Jan**

86–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 86–04

Hogan, S. J. The effect of damping on rigid block motion under harmonic forcing. (English summary) **93e:70002**
Khruslov, Ē. Ya. (*with* Levchenko, E. P.) Inverse problems of magnetotelluric sounding in the case of horizontal propagation of generating waves. (Russian) **93e:86004**
Levchenko, E. P. *see* **Khruslov, Ē. Ya., 93e:86004**
Masoller, C. (*with* Sicardi Schifino, A. C.; Romanelli, Lilia) Regular and chaotic behavior in the new Lorenz system. **93c:86004**
Romanelli, Lilia *see* **Masoller, C.; et al., 93c:86004**
Sicardi Schifino, A. C. *see* **Masoller, C.; et al., 93c:86004**

86–06 Proceedings, conferences, collections, etc.

(Ertel, Hans) *see* **Theoretical concepts and observational implications in meteorology and geophysics, 93g:86002**
(Fitzgibbon, W. E.) *see* **Modeling and analysis of diffusive and advective processes in geosciences, 93b:86001** *and* **Computational methods in geosciences, 93d:86001**
(Schröder, Wilfried) *see* **Theoretical concepts and observational implications in meteorology and geophysics, 93g:86002**
(Stepanov, I. N.) *see* **Geometry of the structures of the Earth's surface, 93g:86001**
(Treder, Hans-Jürgen) *see* **Theoretical concepts and observational implications in meteorology and geophysics, 93g:86002**
(Wheeler, Mary Fanett) *see* **Modeling and analysis of diffusive and advective processes in geosciences, 93b:86001** *and* **Computational methods in geosciences, 93d:86001**

Items listed otherwise than by author

Anniversary:
Ertel's potential vorticity ★ Theoretical concepts and observational implications in meteorology and geophysics. **93g:86002**
Bibliography:
Ertel, Hans ★ Theoretical concepts and observational implications in meteorology and geophysics. **93g:86002**
Biography:
Ertel, Hans ★ Theoretical concepts and observational implications in meteorology and geophysics. **93g:86002**
Computational methods in geosciences ★ Computational methods in geosciences. **93d:86001**
Geometry of the structures of the Earth's surface ★ Геометрия структур земной поверхности. (Russian) [Geometry of the structures of the Earth's surface] **93g:86001**
Modeling and analysis of diffusive and advective processes in geosciences ★ Modeling and analysis of diffusive and advective processes in geosciences. **93b:86001**
Symposium:
Anniversary of Ertel's Potential Vorticity ★ Theoretical concepts and observational implications in meteorology and geophysics. **93g:86002**
Theoretical concepts and observational implications in meteorology and geophysics ★ Theoretical concepts and observational implications in meteorology and geophysics. **93g:86002**
Vienna ★ Theoretical concepts and observational implications in meteorology and geophysics. **93g:86002**

Items with secondary classifications in 86–06

(Brebbia, C. A.) *see* **Computational methods in water resources, 93g:76002** *and* **93g:76003**
(Ewing, Richard E.) *see* **Computational methods in water resources, 93g:76002** *and* **93g:76003**
(Gray, W. G.) *see* **Computational methods in water resources, 93g:76002** *and* **93g:76003**
(Pinder, G. F.) *see* **Computational methods in water resources, 93g:76002** *and* **93g:76003**
(Russell, T. F.) *see* **Computational methods in water resources, 93g:76002** *and* **93g:76003**

Items listed otherwise than by author

Computational methods in water resources ★ Computational methods in water resources. IX. Vol. 1. **93g:76002**
— ★ Computational methods in water resources. IX. Vol. 2. **93g:76003**
Conference:
Computational Methods in Water Resources ★ Computational methods in water resources. IX. Vol. 1. **93g:76002**
— ★ Computational methods in water resources. IX. Vol. 2. **93g:76003**
Denver, CO ★ Computational methods in water resources. IX. Vol. 1. **93g:76002**
— ★ Computational methods in water resources. IX. Vol. 2. **93g:76003**

86–08 Computational methods

Arbogast, Todd (*with* Chilakapati, A.; Wheeler, Mary Fanett) A characteristic-mixed method for contaminant transport and miscible displacement. (English summary) (*see* **93g:76002**)
Chilakapati, A. *see* **Arbogast, Todd; et al., (93g:76002)**
Fox, James W. *see* **Lindsey, J. P., (93d:86001)**
Huestis, Stephen P. The Backus-Gilbert problem for sampled band-limited functions. (English summary) **93k:86001**
Lee, Ding (*with* Schultz, Martin H.; Siegmann, William L.; Saint Mary, Donald F.) A numerical marching scheme to compute scattering in the ocean. (English summary)
Lindsey, J. P. (*with* Fox, James W.) A method of factoring long z-transform polynomials. (English summary) (*see* **93d:86001**)
Lykosov, V. N. (*with* Platov, G. A.) A numerical model of interaction between atmospheric and oceanic boundary layers. (English summary)
Platov, G. A. *see* **Lykosov, V. N.**
Saint Mary, Donald F. *see* **Lee, Ding; et al.**
Schultz, Martin H. *see* **Lee, Ding; et al.**
Siegmann, William L. *see* **Lee, Ding; et al.**
Strakhov, V. N. Processing of geophysical information under multiplicative-additive noise. (Russian) **93b:86002**
— Processing of geophysical data in the case of multiplicative-additive noise with an unknown dispersion of the multiplicative component. (Russian) **93c:86001**
Wheeler, Mary Fanett *see* **Arbogast, Todd; et al., (93g:76002)**
Xie, C.-H. (*with* Zhu, X. Y.) Numerical solution of SUPG finite element method for unsaturated flow. (English summary) (*see* **93g:76002**)
Zhu, X. Y. *see* **Xie, C.-H., (93g:76002)**

Items with secondary classifications in 86–08

Aksenov, V. V. ★ Алгоритмы разделения геофизических полей. (Russian) [Algorithms for dividing geophysical fields]
Aldama, A. A. (*with* Paniconi, C.) An analysis of the convergence of Picard iterations for implicit approximations of Richard's equation. (English summary) (*see* **93g:76002**)
— *see also* **Beckie, R.; et al., (93g:76002)**
Bai, Dong Hua (*with* Tao, Fu Zhou; Li, Xiao Ping[2]; et al.) Mathematical inversion for two-sided logging. (Chinese. English and Chinese summaries) **93k:86013**
Beckie, R. (*with* Wood, E. F.; Aldama, A. A.) A multigrid acceleration for domain decomposition mixed finite element simulation of groundwater flow. (English summary) (*see* **93g:76002**)
Binning, P. *see* **Celia, M. A., (93g:76003)**
Blunt, Martin (*with* Rubin, Barry) Implicit flux limiting schemes for petroleum reservoir simulation. (English summary) **93e:76051**

(Brebbia, C. A.) *see* **Computational methods in water resources, 93g:76002** *and* **93g:76003**
Celia, M. A. (*with* Binning, P.) Multiphase models of unsaturated flow: approaches to the governing equations and numerical methods. (English summary) (*see* **93g:76003**)
Dahleh, Marie Dillon Fast numerical method for the solution of the quasigeostrophic vorticity equation. (English summary)
Dhar, Ranajit (*with* Sinha, D. K.) Some aspects of stability in atmospheric dispersion problems. (English summary) **93i:86003**
Drake, John B. *see* **Williamson, David L.; et al., 93d:86006**
Edigarov, A. S. Numerical computation of the turbulent flow of a cold heavy gas in the atmosphere. (Russian) **93a:76070**
(Ewing, Richard E.) *see* **Computational methods in water resources, 93g:76002** *and* **93g:76003**
Fulton, Scott R. A semi-implicit spectral method for the anelastic equations. (English summary) **93m:86002**
Gerver, M. L. On the matrix $F = \{1/[f_i f_j (f_i + f_j)]\}$. (Russian) **93a:15016**
(Gray, W. G.) *see* **Computational methods in water resources, 93g:76002** *and* **93g:76003**
Hack, James J. *see* **Williamson, David L.; et al., 93d:86006**
Jakob, Rüdiger *see* **Williamson, David L.; et al., 93d:86006**
Khruslov, Ē. Ya. (*with* Levchenko, E. P.) Inverse problems of magnetotelluric sounding in the case of horizontal propagation of generating waves. (Russian) **93e:86004**
Levchenko, E. P. *see* **Khruslov, Ē. Ya., 93e:86004**
Li, Xiao Ping² *see* **Bai, Dong Hua; et al., 93k:86013**
Lin, Tao (*with* Wang, Hong) Solving a source term inverse problem of the diffusion equations by the interpolated quadratic finite element method. (*see* **93g:76002**)
Paniconi, C. *see* **Aldama, A. A., (93g:76002)**
(Pinder, G. F.) *see* **Computational methods in water resources, 93g:76002** *and* **93g:76003**
Rubin, Barry *see* **Blunt, Martin, 93e:76051**
(Russell, T. F.) *see* **Computational methods in water resources, 93g:76002** *and* **93g:76003**
Sauter, Stefan (*with* Wittum, Gabriel) A multigrid method for the computation of eigenmodes of closed water basins. **93c:76062**
Sinha, D. K. *see* **Dhar, Ranajit, 93i:86003**
Swarztrauber, Paul N. *see* **Williamson, David L.; et al., 93d:86006**
Tao, Fu Zhou *see* **Bai, Dong Hua; et al., 93k:86013**
Wang, Hong *see* **Lin, Tao, (93g:76002)**
Williamson, David L. (*with* Drake, John B.; Hack, James J.; Jakob, Rüdiger; Swarztrauber, Paul N.) A standard test set for numerical approximations to the shallow water equations in spherical geometry. (English summary) **93d:86006**
Wittum, Gabriel *see* **Sauter, Stefan, 93c:76062**
Wood, E. F. *see* **Beckie, R.; et al., (93g:76002)**

Items listed otherwise than by author

Computational methods in water resources ★ Computational methods in water resources. IX. Vol. 1. **93g:76002**
— ★ Computational methods in water resources. IX. Vol. 2. **93g:76003**
Conference:
Computational Methods in Water Resources ★ Computational methods in water resources. IX. Vol. 1. **93g:76002**
— ★ Computational methods in water resources. IX. Vol. 2. **93g:76003**
Denver, CO ★ Computational methods in water resources. IX. Vol. 1. **93g:76002**
— ★ Computational methods in water resources. IX. Vol. 2. **93g:76003**

86A05 Hydrology, hydrography, oceanography [see also 76B15, 76B20, 76B25, 76C15, 76E20, 76Q05, 76Rxx, 76U05]

Alderson, Steven G. A solution by operational calculus to the problem of the optimization of tidal power. (English summary)
Bennett, Andrew F. ★ Inverse methods in physical oceanography. **93h:86001**
Das, S. K. (*with* Lardner, R. W.) Variational parameter estimation for a two-dimensional numerical tidal model.
Gilbert, Robert Pertsch (*with* Xu, Yong Zhi) Generalized Herglotz functions and inverse scattering problems in a finite depth ocean. (English summary) **93k:86002**
— (*with* Xu, Yong Zhi) Acoustic waves and far-field patterns in two-dimensional oceans with porous-elastic seabeds. **93k:86003**
Kochergin, V. P. (*with* Sklyar, S. N.) Semianalytical version of approximation of system of equations in the "b-ε" turbulence model. (English summary)
Lardner, R. W. *see* **Das, S. K.**
Lions, Jacques-Louis (*with* Temam, Roger; Wang, Shou Hong) On the equations of the large-scale ocean. (English summary) **93k:86004**
Liu, Ko-Fei (*with* Mei, Chiang C.) Long waves in shallow water over a layer of Bingham-plastic fluid-mud. I. Physical aspects. (English summary) **93i:86001a**
— (*with* Mei, Chiang C.) Long waves in shallow water over a layer of Bingham-plastic fluid-mud. II. Mathematical derivation of long wave equations. (English summary) **93i:86001b**
Lozano, Carlos J. *see* **Özsoy, Emin; et al.**
Marchenko, A. V. Propagation of discontinuities in a drifting ice cap. (Russian. Russian summary) **93m:86001**
Mei, Chiang C. *see* **Liu, Ko-Fei, 93i:86001a** *and* **93i:86001b**
Meyer, R. E. (*with* Strikwerda, John C.; Vanden-Broeck, Jean-Marc) Notes on wave attenuation on beaches. (English summary) **93k:86005**
Moiseenko, V. A. (*with* Saenko, O. A.) Using the Kalman smoother to analyse and process oceanographic data. **93d:86002**
Orenga, Pierre Construction d'une base spéciale pour la résolution de quelques problèmes d'océanographie physique en dimension deux. (English summary) [Construction of a special basis for the solution of some two-dimensional problems in physical oceanography] **93d:86003**
— Existence des solutions d'un problème d'océanographie physique avec frottement au fond ou aux côtes. (English and French summaries) [Existence of solutions of a problem in physical oceanography with friction at the bottom or at the shore] **93k:86006**
Özsoy, Emin (*with* Lozano, Carlos J.; Robinson, Allan R.) A consistent baroclinic quasigeostrophic ocean model in multiply connected ocean domains. (English summary)
Rajan, Subramaniam D. Determination of geoacoustic parameters of the ocean bottom—data requirements. (English summary) **93g:86003**
Reeve, D. E. Bathymetric generation of an angular wave spectrum. (English summary) **93f:86001**
Reznik, G. M. Dynamics of singular vortices on a beta-plane. (English summary) **93d:86004**
Robinson, Allan R. *see* **Özsoy, Emin; et al.**
Saenko, O. A. *see* **Moiseenko, V. A., 93d:86002**
Shapiro, Alan A hydrodynamical model of shear flow over semi-infinite barriers with application to density currents. (English summary)
Sheina, E. A. Numerical investigation of the stability of drift waves. (Russian) **93e:86001**
Sklyar, S. N. *see* **Kochergin, V. P.**
Strikwerda, John C. *see* **Meyer, R. E.; et al., 93k:86005**
Temam, Roger *see* **Lions, Jacques-Louis; et al., 93k:86004**
Vanden-Broeck, Jean-Marc *see* **Meyer, R. E.; et al., 93k:86005**
Wang, Shou Hong *see* **Lions, Jacques-Louis; et al., 93k:86004**
Wooding, R. A. Deposition from a curved shallow flow treated as a moving boundary of constant form. (*see* **93j:35005**)
Xu, Yong Zhi *see* **Gilbert, Robert Pertsch, 93k:86002** *and* **93k:86003**
Xu, Zhao Ting The propagation of internal waves in nonhomogeneous ocean with the basic horizontal currents. (English summary) **93i:86002**
Zhdanov, M. A. A simple analytical model for tsunami generation by an earthquake. (Russian. Russian summary) **93g:86004**

Items with secondary classifications in 86A05

Abbott, M. B. (*with* Basco, D. R.) ★ Computational fluid dynamics. **93h:76055**
Alekseev, G. V. (*with* Komarov, E. G.) A nonselfadjoint singular spectral problem for the Helmholtz operator with discontinuous coefficients. (Russian) **93c:35023**
Arsen'ev, S. A. (*with* Gubar', A. Yu.; Rykunov, L. N.; Shelkovnikov, N. K.) A new type of instability of long waves in shallow water: nonlinear sign-variable viscosity in tides. (Russian) **93g:76041**
Baikusheva, Kristina Al. On the theory of acoustic-gravitational waves in a stratified ocean. (Russian. English and Russian summaries)
Basco, D. R. *see* **Abbott, M. B., 93b:76055**
Basu, Uma (*with* Tripathi, Usha) The generation of tsunamis at inertial surface. (English summary) **93k:76010**
Bazdenkov, S. V. The effect of bottom friction on the cyclone-anticyclone asymmetry in rotating shallow-water flows with small deformation radius. (English summary) **93h:76075**
Benjamin, T. Brooke A new kind of solitary wave. (English summary) **93i:76017**
Bershadskii, A. G. Cascade processes and fractals in turbulence. (Russian) **93b:76046**
Bertsch, Michiel (*with* Esteban, J. R.; Zhang, Hong Fei) On the asymptotic behaviour of the solutions of a degenerate equation in hydrology. **93i:35070**
Bestuzheva, A. N. (*with* Dorfman, A. A.) Wave motions of a fluid over an inclined bottom that are caused by a moving pressure system. (Russian) **93a:76010**
Boyd, John Philip The energy spectrum of fronts: time evolution of shocks in Burgers' equation. **93a:76062**
(Brebbia, C. A.) *see* **Computational methods in water resources, 93g:76002** *and* **93g:76003**
Brekhovskikh, L. M. (*with* Lysanov, Yu. P.) ★ Fundamentals of ocean acoustics. **93a:76086**
Camassa, Roberto (*with* Holm, Darryl D.) Dispersive barotropic equations for stratified mesoscale ocean dynamics. (English summary) **93j:76061**
Caponi, E. A. (*with* Caponi, M. Z.; Saffman, P. G.; Yuen, H. C.) A simple model for the effect of water shear on the generation of waves by wind. **93d:76004**
Caponi, M. Z. *see* **Caponi, E. A.; et al., 93d:76004**
Carnevale, G. F. *see* **Kloosterziel, R. C., 93m:76041**
Cessi, Paola (*with* Young, W. R.) Multiple equilibria in two-dimensional thermohaline circulation. (English summary) **93f:76089**
Cox, Stephen M. (*with* Leibovich, Sidney; Moroz, Irene M.; Tandon, Amit) Nonlinear dynamics in Langmuir circulations with O(2) symmetry. (English summary) **93h:76032**
— (*with* Leibovich, Sidney; Moroz, Irene M.; Tandon, Amit) Hopf bifurcations in Langmuir circulations. (English summary) **93k:76045**
Dorfman, A. A. *see* **Bestuzheva, A. N., 93a:76010**
Dritschel, David G. *see* **Nycander, J.; et al., 93k:76120**
van Duijn, C. J. (*with* Peletier, L. A.) A boundary-layer problem in fresh-salt groundwater flow. **93c:76077**
Dunbar, Steven R. Geometric analysis of a nonlinear boundary value problem from physical oceanography. (English summary) **93m:34026**
van den Ende, Jan (*with* de Jong, Frida) Die Berechnung von Wasserfluten. Tideforschung in den Niederlanden, 1920–1960. (English and German summaries) [The computation of floods. Tidal research in the Netherlands, 1920–1960]
Esteban, J. R. *see* **Bertsch, Michiel; et al., 93i:35070**
Evtimov, Stiliyan N. Nonlinear inertial-gravitational waves in equatorial regions. (Bulgarian. English and Russian summaries)
(Ewing, Richard E.) *see* **Computational methods in water resources, 93g:76002** *and* **93g:76003**
Fishman, Louis Exact and operator rational approximate solutions of the Helmholtz, Weyl composition equation in underwater acoustics—the quadratic profile. **93e:76064**
Gerber, Marius The interaction of deep-water gravity waves and an annular current: linear theory. (English summary) **93k:76013**
(Ghil, M.) *see* **Ripa, P., 93c:76036**
(Gray, W. G.) *see* **Computational methods in water resources, 93g:76002** *and* **93g:76003**
Grigor'eva, N. S. ★ Асимптотические методы в задачах о распространении звука в неоднородной движущейся среде. (Russian) [Asymptotic methods in problems on the propagation of sound in an inhomogeneous moving medium] **93a:76087**
Gryanik, V. M. (*with* Tevs, M. V.) Dynamics of singular geostrophic vortices near critical current points in an N-level model of the atmosphere (ocean). (Russian) **93c:76010**
— Rossby wave emission and adaptation of potential vortex fields in the atmosphere (ocean). (Russian) **93m:76017**
Gubar', A. Yu. *see* **Arsen'ev, S. A.; et al., 93g:76041**

Hoffmann, Karl-Heinz[1] (*with* Knabner, Peter; Seifert, W.) Adaptive methods for parameter identification in ground water hydrology. **93a:76076**
Holm, Darryl D. *see* **Camassa, Roberto, 93j:76061**
Huang, Si Xun A discussion on the existence of nonlinear solitary waves in low latitude areas. (Chinese. Chinese summary) **93k:35215**
de Jong, Frida *see* **van den Ende, Jan**
Kargin, B. A. (*with* Rakimgulov, K. B.) A weighting Monte Carlo method for modelling the optical radiation field in the ocean-atmosphere system. **93c:65010**
Khabakhpasheva, T. I. The Fredholm property of a problem on small perturbations of a wave of limit amplitude on deep water. (Russian. Russian summary) **93e:76011**
Kloosterziel, R. C. (*with* Carnevale, G. F.) Formal stability of circular vortices. (English summary) **93m:76041**
Knabner, Peter *see* **Hoffmann, Karl-Heinz[1]; et al., 93a:76076**
Komarov, E. G. *see* **Alekseev, G. V., 93c:35023**
Kozlov, V. F. Construction of the stationary states of vortex patches by the method of perturbations. (Russian) **93a:76021**
Lee, Ding (*with* Schultz, Martin H.; Siegmann, William L.; Saint Mary, Donald F.) A numerical marching scheme to compute scattering in the ocean. (English summary)
Leibovich, Sidney *see* **Cox, Stephen M.; et al., 93h:76032** *and* **93k:76045**
Lions, Jacques-Louis Earth system models and mathematical remarks. **93e:00012**
Liu, Philip L.-F. *see* **Mei, Chiang C., (93h:76003)**
Løkberg, Ole J. *see* **Pedersen, Hans M., 93i:76016**
Lykosov, V. N. (*with* Platov, G. A.) A numerical model of interaction between atmospheric and oceanic boundary layers. (English summary)
Lysanov, Yu. P. *see* **Brekhovskikh, L. M., 93a:76086**
Mei, Chiang C. (*with* Liu, Philip L.-F.) Surface waves and coastal dynamics. (*see* **93h:76003**)
Moroz, Irene M. *see* **Cox, Stephen M.; et al., 93h:76032** *and* **93k:76045**
Mu, Mu Nonlinear stability criteria for motions of multilayer quasi-geostrophic flow. **93e:76033**
— (*with* Wang, Xi Yong) Nonlinear stability criteria for the motion of three-dimensional quasigeostrophic flow on a β-plane. **93f:76045**
Müller, Wolfdietrich Numerical simulation of turbulent flow and matter transfer in a 3D water circulation model. **93b:76063**
Nikulin, V. V. An analogue of equations of rotating shallow water for hollow and tornado-like vortices. Height of a stationary tornado-like vortex. (Russian) **93g:76033**
Nycander, J. (*with* Dritschel, David G.; Sutyrin, G. G.) The dynamics of long frontal waves in the shallow-water equations. (English summary) **93k:76120**
Pedersen, Hans M. (*with* Løkberg, Ole J.) Coherence and radiative energy transfer for linear surface gravity waves in water of constant depth. (English summary) **93i:76016**
Peletier, L. A. *see* **van Duijn, C. J., 93c:76077**
Phelan, Michael J. Point processes and inference for rainfall fields. (English summary) **93g:62120**
(Pinder, G. F.) *see* **Computational methods in water resources, 93g:76002** *and* **93g:76003**
Platov, G. A. *see* **Lykosov, V. N.**
Rakimgulov, K. B. *see* **Kargin, B. A., 93c:65010**
Ripa, P. Comments on a paper by H. Sakuma and M. Ghil: "Stability of stationary barotropic modons by Lyapunov's direct method" [J. Fluid Mech. **211** (1990), 393–416; MR 91b:76063]. **93c:76036**
(Russell, T. F.) *see* **Computational methods in water resources, 93g:76002** *and* **93g:76003**
Rykunov, L. N. *see* **Arsen'ev, S. A.; et al., 93g:76041**
Saffman, P. G. *see* **Caponi, E. A.; et al., 93d:76004**
Saint Mary, Donald F. *see* **Lee, Ding; et al.**
(Sakuma, H.) *see* **Ripa, P., 93c:76036**
Sauter, Stefan (*with* Wittum, Gabriel) A multigrid method for the computation of eigenmodes of closed water basins. **93c:76062**
Schultz, Martin H. *see* **Lee, Ding; et al.**
Seifert, W. *see* **Hoffmann, Karl-Heinz[1]; et al., 93a:76076**
Shelkovnikov, N. K. *see* **Arsen'ev, S. A.; et al., 93g:76041**
Siegmann, William L. *see* **Lee, Ding; et al.**
Strobel, Darrell F. *see* **Zhu, Xun, 93h:76034**
Sutyrin, G. G. *see* **Nycander, J.; et al., 93k:76120**
Tandon, Amit *see* **Cox, Stephen M.; et al., 93h:76032** *and* **93k:76045**
Tevs, M. V. *see* **Gryanik, V. M., 93c:76010**
Thacker, William Carlisle Oceanographic inverse problems. (English summary) **93i:86005**
Tripathi, Usha *see* **Basu, Uma, 93k:76010**
Tritton, D. J. ★ Physical fluid dynamics. **93f:76001**
Tveito, Aslak (*with* Winther, Ragnar) Existence, uniqueness, and continuous dependence for a system of hyperbolic conservation laws modeling polymer flooding. **93a:35107**
Wang, Xi Yong *see* **Mu, Mu, 93f:76045**
Weir, G. J. Linearised evaporation about a shallow half-plane pond. (English summary) **93k:76116**
(Wiegman, Rosi) *see* **van den Ende, Jan**
Winther, Ragnar *see* **Tveito, Aslak, 93a:35107**
Wittum, Gabriel *see* **Sauter, Stefan, 93c:76062**
Woods, Andrew W. The topographic control of planetary-scale flow. (English summary) **93k:86010**
Young, W. R. *see* **Cessi, Paola, 93f:76089**
Yuen, H. C. *see* **Caponi, E. A.; et al., 93d:76004**
Zhang, Hong Fei *see* **Bertsch, Michiel; et al., 93i:35070**
Zhang, Keke On equatorially trapped boundary inertial waves. (English summary) **93k:76121**
Zhu, Xun (*with* Strobel, Darrell F.) Nonlinear saturation of baroclinic instability in two-layer models. (English summary) **93h:76034**

Items listed otherwise than by author

Computational methods in water resources ★ Computational methods in water resources. IX. Vol. 1. **93g:76002**
— ★ Computational methods in water resources. IX. Vol. 2. **93g:76003**

Conference:
Computational Methods in Water Resources ★ Computational methods in water resources. IX. Vol. 1. **93g:76002**
— ★ Computational methods in water resources. IX. Vol. 2. **93g:76003**
Denver, CO ★ Computational methods in water resources. IX. Vol. 1. **93g:76002**
— ★ Computational methods in water resources. IX. Vol. 2. **93g:76003**

86A10 Meteorology and atmospheric physics [see also 76Bxx, 76C15, 76C20, 76E20, 76N15, 76Q05, 76Rxx, 76U05, 76V05]

Abutaliev, F. B. (*with* Kul'muradov, M. È.) Modeling processes, taking place in the atmosphere, by means of a multicomponent spectral barotropic model. (Russian. Russian summary)
Boss, Emmanuel *see* **Paldor, Nathan, 93h:86002**
Davis, Christopher A. *see* **Rivest, Chantal; et al., 93k:86007**
Dhar, Ranajit (*with* Sinha, D. K.) Some aspects of stability in atmospheric dispersion problems. (English summary) **93i:86003**
Drake, John B. *see* **Williamson, David L.; et al., 93d:86006**
Farrell, Brian F. *see* **Rivest, Chantal; et al., 93k:86007** *and* **93k:86008**
Fulton, Scott R. A semi-implicit spectral method for the anelastic equations. (English summary) **93m:86002**
Georgescu, Adelina *see* **Marinoschi, Gabriela, 93e:86003**
Hack, James J. *see* **Williamson, David L.; et al., 93d:86006**
Iskenderov, D. Sh. (*with* Nikolaevskiĭ, V. N.) Laminarization of cores of atmospheric turbulent vortices. (Russian) **93e:86002**
Jakob, Rüdiger *see* **Williamson, David L.; et al., 93d:86006**
Klyatskin, V. I. Statistical theory of radiation transport in stratified random media. (Russian) **93c:86002**
Kul'muradov, M. È. *see* **Abutaliev, F. B.**
Kurganskiĭ, M. V. The atmospheric vortex charge. (Russian) **93c:86003**
Marinoschi, Gabriela (*with* Georgescu, Adelina) Models of asymptotic approximation governing the atmospheric motion over a low obstacle. (English summary) **93e:86003**
Masoller, C. (*with* Sicardi Schifino, A. C.; Romanelli, Lilia) Regular and chaotic behavior in the new Lorenz system. **93c:86004**
Mu, Mu Nonlinear stability of two-dimensional quasigeostrophic motions. **93d:86005**
Nikolaevskiĭ, V. N. *see* **Iskenderov, D. Sh., 93e:86002**
Paldor, Nathan (*with* Boss, Emmanuel) Chaotic trajectories of tidally perturbed inertial oscillations. (English summary) **93h:86002**
Rivest, Chantal (*with* Davis, Christopher A.; Farrell, Brian F.) Upper-tropospheric syntopic-scale waves. I. Maintenance as Eady normal modes. (English summary) **93k:86007**
— (*with* Farrell, Brian F.) Upper-tropospheric synoptic-scale waves. II. Maintenance and excitation of quasi modes. (English summary) **93k:86008**
Rodríguez Ricard, Mariano A nonlinear model of atmospheric currents. (Spanish. English and Spanish summaries) **93h:86003**
Romanelli, Lilia *see* **Masoller, C.; et al., 93c:86004**
Sharfuddin, S. M. Predictability and behaviour of the atmospheric circulation. (*see* **93b:00022**)
Shi, Jiu En Applications of probability and statistics to meteorology and some problems. (Chinese. English and Chinese summaries) **93k:86009**
— Some applications of statistics to atmospheric sciences. (*see* **93e:62004**)
Sicardi Schifino, A. C. *see* **Masoller, C.; et al., 93c:86004**
Sinha, D. K. *see* **Dhar, Ranajit, 93i:86003**
Sultangazin, U. M. *see* **Zakarin, È. A., (93b:65007)**
Swarztrauber, Paul N. *see* **Williamson, David L.; et al., 93d:86006**
Trevisan, Anna Impact of transient error growth on global average predictability measures. (English summary)
Williamson, David L. (*with* Drake, John B.; Hack, James J.; Jakob, Rüdiger; Swarztrauber, Paul N.) A standard test set for numerical approximations to the shallow water equations in spherical geometry. (English summary) **93d:86006**
Woods, Andrew W. The topographic control of planetary-scale flow. (English summary) **93k:86010**
Zakarin, È. A. (*with* Sultangazin, U. M.) Mathematical modelling of urban air pollution. (*see* **93b:65007**)

Items with secondary classifications in 86A10

Amirkhanov, I. V. (*with* Zhidkov, E. P.; Ignatov, V. V.; Il'ina, A. N.; Il'in, I. V.; Il'in, V. D.) ★ О стохастизации движения заряженных частиц в геомагнитном поле и поле волнового пакета. (Russian. English and Russian summaries) [Stochastization of the motion of charged particles in a geomagnetic field and a wave packet field] **93m:78008**
Bekryayev, R. V. Structure of the climate attractor. (Russian) **93f:58219**
Chern, I-Liang (*with* Foster, Ian) Parallel implementation of a control volume method for solving PDEs on the sphere. (English summary) (*see* **93g:65178**)
— (*with* Colin, Thierry; Kaper, Hans G.) Classical solutions of the nondivergent barotropic equations on the sphere. (English summary) **93g:76109**
Ciancio, Vincenzo Thermodynamic theory for heat radiation. **93c:80003**
Colin, Thierry *see* **Chern, I-Liang; et al., 93g:76109**
Debussche, A. (*with* Temam, Roger) Inertial manifolds and the slow manifolds in meteorology. **93a:47073**
Dolzhanskiĭ, F. V. (*with* Manin, D. Yu.) The effect of the Ekman turbulent layer on the dynamics of large-scale motions. (Russian) **93c:76049**
Edigarov, A. S. Numerical computation of the turbulent flow of a cold heavy gas in the atmosphere. (Russian) **93a:76070**
Enting, I. G. Inverse problems in greenhouse gas modelling. **93m:86006**
(Ertel, Hans) *see* **Theoretical concepts and observational implications in meteorology and geophysics, 93g:86002**
Filatov, A. N. *see* **Gorelov, A. S., 93d:35168**

Foster, Ian (*with* Gropp, William D.; Stevens, Rick L.) Parallel scalability of the spectral transform method. (English summary) (*see* **93g:65178**)
— *see also* **Chern, I-Liang**, (**93g:65178**)
(Gol'dshtik, M. A.) *see* **Sozou, C., 93h:76026**
Gorelov, A. S. (*with* Filatov, A. N.) Inertial manifolds of barotropic atmosphere equations. (Russian) **93d:35168**
Gropp, William D. *see* **Foster, Ian; et al.**, (**93g:65178**)
Gryanik, V. M. (*with* Tevs, M. V.) Dynamics of singular geostrophic vortices near critical current points in an N-level model of the atmosphere (ocean). (Russian) **93c:76010**
— Rossby wave emission and adaptation of potential vortex fields in the atmosphere (ocean). (Russian) **93m:76017**
He, Meng Xing Periodic boundary problems for atmospheric dynamical equations. (Chinese. Chinese summary) **93m:35123**
van Heijst, G. J. F. *see* **Hopfinger, E. J., 93k:76119**
Hetzer, Georg (*with* Schmidt, Paul Günter) Global existence and asymptotic behavior for a quasilinear reaction-diffusion system from climate modeling. **93b:35072**
Hopfinger, E. J. (*with* van Heijst, G. J. F.) Vortices in rotating fluids. **93k:76119**
Ignatov, V. V. *see* **Amirkhanov, I. V.; et al., 93m:78008**
Il'in, I. V. *see* **Amirkhanov, I. V.; et al., 93m:78008**
Il'in, K. I. Stability of a baroclinic vortex. (Russian) **93e:76029**
Il'in, V. D. *see* **Amirkhanov, I. V.; et al., 93m:78008**
Il'ina, A. N. *see* **Amirkhanov, I. V.; et al., 93m:78008**
Kaper, Hans G. *see* **Chern, I-Liang; et al., 93g:76109**
Kshevetskii, S. P. Invariants of acoustic and internal gravity waves in a nonisothermic atmosphere. (Russian. Russian summary) **93k:76026**
Lavallée, D. *see* **Schertzer, D.; et al., 93j:76038**
Lin, Shian-Jiann Contour dynamics of tornado-like vortices. (English summary) **93f:76021**
Lions, Jacques-Louis Earth system models and mathematical remarks. **93e:00012**
— (*with* Temam, Roger; Wang, Shou Hong) New formulations of the primitive equations of atmosphere and applications. **93e:35088**
— (*with* Temam, Roger; Wang, Shou Hong) On the equations of the large-scale ocean. (English summary) **93k:86004**
Liu, Shi Da (*with* Liu, Shi Kuo) KdV-Burgers equation modelling of turbulence. (English summary) **93g:76072**
Liu, Shi Kuo *see* **Liu, Shi Da, 93g:76072**
Lovejoy, S. *see* **Schertzer, D.; et al., 93j:76038**
Lykosov, V. N. (*with* Platov, G. A.) A numerical model of interaction between atmospheric and oceanic boundary layers. (English summary)
Maas, Leo R. M. Nonlinear and free-surface effects on the spin-down of barotropic axisymmetric vortices. (English summary) **93i:76093**
Manin, D. Yu. *see* **Dolzhanskii, F. V., 93c:76049**
Mu, Mu Nonlinear stability criteria for motions of multilayer quasi-geostrophic flow. **93e:76033**
Nikulin, V. V. Dissipation of a vertical tornado-like vortex. (Russian) **93g:76032**
O'Brien, Enda Optimal growth rates in the quasigeostrophic initial value problem. (English summary) **93e:76030**
Pedlosky, Joseph Baroclinic instability localized by dissipation. **93c:76035**
(Pietronero, Luciano) *see* **Fractals' physical origin and properties, 93k:00018**
Platov, G. A. *see* **Lykosov, V. N.**
Reznik, G. M. Dynamics of singular vortices on a beta-plane. (English summary) **93d:86004**
Rodríguez Ricard, Mariano Local stability of certain convective atmospheric currents. (Spanish. English and Spanish summaries) **93m:76037**
Schertzer, D. (*with* Lovejoy, S.; Lavallée, D.; Schmitt, F.) Universal hard multifractal turbulence: theory and observations. (English summary) **93j:76038**
Schmidt, Paul Günter *see* **Hetzer, Georg, 93b:35072**
Schmitt, F. *see* **Schertzer, D.; et al., 93j:76038**
(Schröder, Wilfried) *see* **Theoretical concepts and observational implications in meteorology and geophysics, 93g:86002**
Scinocca, J. F. (*with* Shepherd, T. G.) Nonlinear wave-activity conservation laws and Hamiltonian structure for the two-dimensional anelastic equations. **93a:76022**
Sheina, E. A. Numerical investigation of the stability of drift waves. (Russian) **93e:86001**
Shepherd, T. G. *see* **Scinocca, J. F., 93a:76022**
(Shtern, V. N.) *see* **Sozou, C., 93h:76026**
Sozou, C. On solutions relating to conical vortices over a plane wall. (English summary) **93h:76026**
Stevens, Rick L. *see* **Foster, Ian; et al.**, (**93g:65178**)
Temam, Roger *see* **Debussche, A., 93a:47073**; **Lions, Jacques-Louis; et al., 93e:35088** *and* **93k:86004**
Tevs, M. V. *see* **Gryanik, V. M., 93c:76010**
(Treder, Hans-Jürgen) *see* **Theoretical concepts and observational implications in meteorology and geophysics, 93g:86002**
Wang, Shou Hong Attractors for the 3D baroclinic quasi-geostrophic equations of large-scale atmosphere. **93e:35091**
— *see also* **Lions, Jacques-Louis; et al., 93e:35088** *and* **93k:86004**
Zeytounian, Radyadour Kh. ★ Meteorological fluid dynamics. **93m:76013**
— Fluid dynamics limits of meteorological equations. (English and Russian summaries) **93m:76072**
Zhidkov, E. P. *see* **Amirkhanov, I. V.; et al., 93m:78008**

Items listed otherwise than by author

Anniversary:
Ertel's potential vorticity ★ Theoretical concepts and observational implications in meteorology and geophysics. **93g:86002**
Bibliography:
Ertel, Hans ★ Theoretical concepts and observational implications in meteorology and geophysics. **93g:86002**
Biography:
Ertel, Hans ★ Theoretical concepts and observational implications in meteorology and geophysics. **93g:86002**
Erice ★ Fractals' physical origin and properties. **93k:00018**
Fractals' physical origin and properties ★ Fractals' physical origin and properties. **93k:00018**
Seminar:
Fractals ★ Fractals' physical origin and properties. **93k:00018**
Symposium:
Anniversary of Ertel's Potential Vorticity ★ Theoretical concepts and observational implications in meteorology and geophysics. **93g:86002**
Theoretical concepts and observational implications in meteorology and geophysics ★ Theoretical concepts and observational implications in meteorology and geophysics. **93g:86002**
Vienna ★ Theoretical concepts and observational implications in meteorology and geophysics. **93g:86002**

86A15 Seismology [see also 73Dxx, 73Fxx, 73M25, 73N20, 73Q05]

Alekseev, A. S. (*with* Avdeev, A. V.; Fat'yanov, A. G.; Cheverda, V. A.) A closed cycle of the mathematical modeling of wave processes in vertically inhomogeneous media (direct and inverse problems). (Russian. English summary) **93b:86003**
Avdeev, A. V. *see* **Alekseev, A. S.; et al., 93b:86003**
Baev, A. V. (*with* Tabakov, A. A.) Solution of inverse problems of seismic profiling and monitoring during borehole drilling. (Russian) **93m:86003**
Berryman, James G. Global extrema in traveltime tomography. (English summary) **93m:86004**
Cheverda, V. A. *see* **Alekseev, A. S.; et al., 93b:86003**
Fat'yanov, A. G. *see* **Alekseev, A. S.; et al., 93b:86003**
Frøyland, Lars A. (*with* Laksà, Arne; Pajchel, Jan) Modelling geological structures using splines. (*see* **93d:65022**)
Gur'yanov, V. V. Monotype plane nonlinear seismic waves. (Russian. Russian summary) **93g:86005**
Hanyga, Andrzej (*with* Seredyńska, Małgorzata) Diffraction of pulses in the vicinity of simple caustics and caustic cusps. **93f:86002**
de Hoop, Adrianus T. *see* **de Hoop, Maarten V., 93a:86001**
de Hoop, Maarten V. (*with* de Hoop, Adrianus T.) Scalar space-time waves in their spectral-domain first- and second-order Thiele approximations. **93a:86001**
Laksà, Arne *see* **Frøyland, Lars A.; et al.**, (**93d:65022**)
Pajchel, Jan *see* **Frøyland, Lars A.; et al.**, (**93d:65022**)
Seredyńska, Małgorzata *see* **Hanyga, Andrzej, 93f:86002**
Tabakov, A. A. *see* **Baev, A. V., 93m:86003**

Items with secondary classifications in 86A15

Alessandrini, B. (*with* Raganelli, V.) The propagation of acoustic and elastic waves in an heterogeneous discrete medium. (English summary) **93e:73014**
Arsen'ev, S. A. (*with* Gubar', A. Yu.; Rykunov, L. N.; Shelkovnikov, N. K.) On the effect of frequency division in spectra of surface gravitational waves. (Russian)
Asch, M. (*with* Kohler, Werner E.; Papanicolaou, G. C.; Postel, M.; White, Benjamin S.) Frequency content of randomly scattered signals. **93f:73041**
Asghar, Saleem *see* **Zaman, F. D.; et al., 93a:73025**
Faizullin, I. S. *see* **Shapiro, S. A., 93c:73032**
Gubar', A. Yu. *see* **Arsen'ev, S. A.; et al.**
Gur'yanov, V. V. Monotype plane nonlinear seismic waves. (Russian) **93f:73042**
Hanif, Khalid *see* **Zaman, F. D.; et al., 93a:73025**
Herman, Gérard C. Estimation of the inverse acoustic transmission operator of a heterogeneous region directly from its reflection operator. (English summary) **93g:73051**
Hogan, S. J. The effect of damping on rigid block motion under harmonic forcing. (English summary) **93e:70002**
Kohler, Werner E. *see* **Asch, M.; et al., 93f:73041**
Lu, Wen Da *see* **Yang, Zheng Wen**, (**93b:65008**)
Mikhailenko, B. G. (*with* Sergeev-Al'bov, N. N.) Reconstruction of the form of a curvilinear boundary of an acoustic medium from seismic data. (Russian) **93e:86005**
Moore, Beverley J. Inverse problems in seismic surveys. (*see* **93i:00020**)
Mora, Peter The lattice Boltzmann phononic lattice solid. (English summary) **93g:82094**
Papanicolaou, G. C. *see* **Asch, M.; et al., 93f:73041**
Postel, M. *see* **Asch, M.; et al., 93f:73041**
Raganelli, V. *see* **Alessandrini, B., 93e:73014**
Rykunov, L. N. *see* **Arsen'ev, S. A.; et al.**
Sergeev-Al'bov, N. N. *see* **Mikhailenko, B. G., 93e:86005**
Shapiro, S. A. (*with* Faizullin, I. S.) Scattering of elastic waves by a fractal inhomogeneity in a medium. (Russian) **93c:73032**
Shelkovnikov, N. K. *see* **Arsen'ev, S. A.; et al.**
Smirnova, N. S. Determination of groups of dynamically equivalent waves propagating in layered elastic media. (Russian. English summary) **93c:73033**
— Calculation of wave fields in multilayered media. (Russian. English and Russian summaries)
Stovas, A. M. Born approximation in problems of migration and inversion for the acoustic equation. (Russian. Russian summary) **93g:65160**
White, Benjamin S. *see* **Asch, M.; et al., 93f:73041**
Yang, Zheng Wen (*with* Lu, Wen Da) Analysis of dynamic interaction between soil and cooling tower by hybrid method. (*see* **93b:65008**)
Zaman, F. D. (*with* Asghar, Saleem; Hanif, Khalid) Dispersion of Love waves in an inhomogeneous layer due to a source. **93a:73025**

86A17 Global dynamics, earthquake problems

Bergersen, Birger *see* **Xu, Huang-Jian; et al., 93h:86004**
Chen, Kan *see* **Xu, Huang-Jian; et al., 93h:86004**
Kennett, B. L. N. Earthquake location as an inverse problem. (*see* **93i:00020**)
Xu, Huang-Jian (*with* Bergersen, Birger; Chen, Kan) Self-organized ruptures in an elastic medium: a possible model for earthquakes. (English summary) **93h:86004**

Items with secondary classifications in 86A17

Zhdanov, M. A. A simple analytical model for tsunami generation by an earthquake. (Russian. Russian summary) **93g:86004**

Zheng, Xiao Gu Ergodic theorems for stress release processes. **93f:60108**

86A20 Potentials, prospecting [see also 76S05, 76W05]

Bakhterev, D. V. *see* **Tsirul'skii, A. V., 93b:86007**

Kevorkyants, S. S. Integral equations of electrodynamics in problems of diffraction by a bounded body in a layerwise nonhomogeneous anisotropic medium. (Russian. Russian summary) **93h:86005**

Khachai, O. A. On the equivalence and uniqueness of results on the interpretation of alternating two- and three-dimensional electromagnetic fields. (Russian. Russian summary) **93j:86001**

Petrov, A. A. Solution of an inverse problem of electrical prospecting in searches for surface-polarized objects. (Russian. Russian summary) **93k:86011**

Strakhov, V. N. (*with* Teterin, D. E.) Linear transformations of gravitational and magnetic anomalies in the case of multi-element surveys with arbitrary observation networks. (Russian) **93b:86004**

— (*with* Teterin, D. E.) The autoregularization method for solving problems of linear transformations of gravitational and magnetic anomalies. (Russian) **93b:86005**

— (*with* Teterin, D. E.) The autoregularization method for solving linear problems in gravimetry and magnetometry. (Russian) **93b:86006**

Teterin, D. E. *see* **Strakhov, V. N., 93b:86004; 93b:86005** *and* **93b:86006**

Troshkov, G. A. A method of localizing potential singularities in a complex three-dimensional space. (Russian. Russian summary) **93m:86005**

Tsirul'skii, A. V. (*with* Bakhterev, D. V.) On the problem of equivalence for domains with a piecewise-analytic boundary and variable density. (Russian) **93b:86007**

Items with secondary classifications in 86A20

Abasov, M. T. *see* **Rasulov, M. A.; et al., 93a:76104**

Angell, Thomas S. (*with* Kirsch, Andreas) The conductive boundary condition for Maxwell's equations. (English summary) **93k:78009**

Boĭkov, I. V. (*with* Shchukina, V. E.) A projection method for solving inverse problems of gravimetry and electrical prospecting. (Russian. Russian summary) **93g:86006**

Kirsch, Andreas *see* **Angell, Thomas S., 93k:78009**

Ragimova, T. A. *see* **Rasulov, M. A.; et al., 93a:76104**

Rasulov, M. A. (*with* Ragimova, T. A.; Abasov, M. T.) On the identification of the saturation jump in oil displacement by water in a two-dimensional domain. (Russian) **93a:76104**

Shchukina, V. E. *see* **Boĭkov, I. V., 93g:86006**

Sheen, Dongwoo Finite element methods for an acoustic well-logging problem associated with a porous medium saturated by a two-phase immiscible fluid. (English summary)

Strakhov, V. N. The filtering method for systems of linear algebraic equations as a basis for solving linear problems in gravimetry and magnetometry. (Russian) **93g:86007a**

— Algebraic methods in linear problems of gravimetry and magnetometry. Basic ideas. (Russian) **93g:86007b**

— Algebraic methods in linear problems of gravimetry and magnetometry. Formulations of extremal problems. (Russian) **93g:86007c**

Voronin, Yu. A. ★ Начала теории сходства. (Russian) [Elements of similarity theory] **93c:00005**

86A22 Inverse problems [see also 35R30]

Alekseev, A. S. (*with* Erokhin, G. N.) A complex approach in the solution of inverse problems of integral geophysics. (Russian) **93f:86003**

Baev, A. V. A method for solving an inverse dynamic problem of seismics with absorption. (Russian. Russian summary) **93k:86012**

Bai, Dong Hua (*with* Tao, Fu Zhou; Li, Xiao Ping^2; et al.) Mathematical inversion for two-sided logging. (Chinese. English and Chinese summaries) **93k:86013**

(Bednar, J. Bee) *see* **Geophysical inversion, 93e:86007**

Boĭkov, I. V. (*with* Shchukina, V. E.) A projection method for solving inverse problems of gravimetry and electrical prospecting. (Russian. Russian summary) **93g:86006**

Enting, I. G. Inverse problems in greenhouse gas modelling. **93m:86006**

Erokhin, G. N. *see* **Alekseev, A. S., 93f:86003**

Huestis, Stephen P. Smallest nonnegative solutions to linear inverse problems. (English summary) **93i:86004**

Khruslov, Ĕ. Ya. (*with* Levchenko, E. P.) Inverse problems of magnetotelluric sounding in the case of horizontal propagation of generating waves. (Russian) **93e:86004**

Kirsch, Andreas *see* **Xiong, Zonghou, 93e:86006**

Kozlovskaya, E. G. On the reliability of complex interpretation of geophysical fields. (Russian. English and Russian summaries) **93k:86014**

Levchenko, E. P. *see* **Khruslov, Ĕ. Ya., 93e:86004**

Li, Xiao Ping^2 *see* **Bai, Dong Hua; et al., 93k:86013**

(Lines, L. R.) *see* **Geophysical inversion, 93e:86007**

Mikhailenko, B. G. (*with* Sergeev-Al'bov, N. N.) Reconstruction of the form of a curvilinear boundary of an acoustic medium from seismic data. (Russian) **93e:86005**

Moore, Beverley J. Inverse problems in seismic surveys. (*see* **93i:00020**)

Sergeev-Al'bov, N. N. *see* **Mikhailenko, B. G., 93e:86005**

Shchukina, V. E. *see* **Boĭkov, I. V., 93g:86006**

(Stolt, R. H.) *see* **Geophysical inversion, 93e:86007**

Tao, Fu Zhou *see* **Bai, Dong Hua; et al., 93k:86013**

Thacker, William Carlisle Oceanographic inverse problems. (English summary) **93i:86005**

(Weglein, A. B.) *see* **Geophysical inversion, 93e:86007**

Xiong, Zonghou (*with* Kirsch, Andreas) Three-dimensional earth conductivity inversion. (English summary) **93e:86006**

Items listed otherwise than by author

Geophysical inversion ★ Geophysical inversion. **93e:86007**

Houston, TX ★ Geophysical inversion. **93e:86007**

Workshop:
Geophysical Inversion ★ Geophysical inversion. **93e:86007**

Items with secondary classifications in 86A22

Ayoubi, I. S. Numerical solution of the inverse scattering problem for hyperbolic systems of n-components in semi-infinite media. (English summary) **93m:65138**

Bui, Dat Duc (*with* Nelson, Paul, Jr.) Existence and uniqueness of an inverse problem for a hyperbolic system of lidar probing. (English summary) **93j:35183**

Colton, David (*with* Kirsch, Andreas) The use of polarization effects in electromagnetic inverse scattering problems. **93g:78013**

Eskola, L. ★ Geophysical interpretation using integral equations. **93m:86007**

Huestis, Stephen P. The Backus-Gilbert problem for sampled band-limited functions. (English summary) **93k:86001**

Kennett, B. L. N. Earthquake location as an inverse problem. (*see* **93i:00020**)

Khachai, O. A. On the equivalence and uniqueness of results on the interpretation of alternating two- and three-dimensional electromagnetic fields. (Russian. Russian summary) **93j:86001**

Kirsch, Andreas *see* **Colton, David, 93g:78013**

Kondarattsev, S. A. (*with* Tsetsokho, V. A.) On the uniqueness of the solution of the inverse problem of electrical logging for a piecewise-constant model of a medium. (Russian. Russian summary) (*see* **93e:00018**)

Lin, Tao (*with* Wang, Hong) Solving a source term inverse problem of the diffusion equations by the interpolated quadratic finite element method. (*see* **93g:76002**)

Nelson, Paul, Jr. *see* **Bui, Dat Duc, 93j:35183**

Petrov, A. A. Solution of an inverse problem of electrical prospecting in searches for surface-polarized objects. (Russian. Russian summary) **93k:86011**

Stovas, A. M. Born approximation in problems of migration and inversion for the acoustic equation. (Russian. Russian summary) **93g:65160**

Troshkov, G. A. A method of localizing potential singularities in a complex three-dimensional space. (Russian. Russian summary) **93m:86005**

Tsetsokho, V. A. *see* **Kondarattsev, S. A., (93e:00018)**

Wang, Hong *see* **Lin, Tao, (93g:76002)**

86A25 Geo-electricity and geomagnetism [see also 78A25]

Aksenov, V. V. ★ Алгоритмы разделения геофизических полей. (Russian) [Algorithms for dividing geophysical fields]

Eskola, L. ★ Geophysical interpretation using integral equations. **93m:86007**

Heinson, G. S. *see* **Lilley, F. E. M., (93i:00020)**

Lilley, F. E. M. (*with* Heinson, G. S.) Examples in the inversion of seafloor magnetotelluric data. (*see* **93i:00020**)

Sokolov, D. D. (*with* Zinchenko, B. G.) On diffusion of the tangential fluctuations of the geomagnetic field through the mantle. **93d:86007**

Strakhov, V. N. The filtering method for systems of linear algebraic equations as a basis for solving linear problems in gravimetry and magnetometry. (Russian) **93g:86007a**

— Algebraic methods in linear problems of gravimetry and magnetometry. Basic ideas. (Russian) **93g:86007b**

— Algebraic methods in linear problems of gravimetry and magnetometry. Formulations of extremal problems. (Russian) **93g:86007c**

Zakharov, S. V. Some magnetization distributions that do not generate an external field under conditions of layered media. (Russian. English and Russian summaries) **93g:86008**

Zinchenko, B. G. *see* **Sokolov, D. D., 93d:86007**

Items with secondary classifications in 86A25

Aleksidze, M. A. ★ Фундаментальные функции в приближенных решениях граничных задач. (Russian) [Fundamental functions in approximate solutions of boundary value problems] **93c:65155**

Anderssen, Robert S. *see* **Scherzer, Otmar; et al., 93m:35185**

Colton, David (*with* Kirsch, Andreas) The use of polarization effects in electromagnetic inverse scattering problems. **93g:78013**

Engl, Heinz W. *see* **Scherzer, Otmar; et al., 93m:35185**

Hamabata, Hiromitsu Nonlinear hydromagnetic waves in a thermally stratified cylindrical fluid. I. Exact translationally and axially symmetric solutions. (English summary) **93g:76112**

Isaev, S. A. The method of fictitious domains for a nonstationary model of the motion of a baroclinic ocean. (Russian) **93c:65150**

Khruslov, Ĕ. Ya. (*with* Levchenko, E. P.) Inverse problems of magnetotelluric sounding in the case of horizontal propagation of generating waves. (Russian) **93e:86004**

Kirsch, Andreas *see* **Colton, David, 93g:78013**

Levchenko, E. P. *see* **Khruslov, Ĕ. Ya., 93e:86004**

Scherzer, Otmar ★ Tikhonov regularization of nonlinear ill-posed problems with applications to parameter identification in partial differential equations. **93a:65082**

— (*with* Engl, Heinz W.; Anderssen, Robert S.) Parameter identification from boundary measurements in a parabolic equation arising from geophysics. **93m:35185**

Tikhonov, A. A. Influence of the inhomogeneity of the geomagnetic field on the evolution of the rotational motion of a charged rigid body. (Russian. English summary) **93b:70030**

86A30 Geodesy, mapping problems

Yu, Jin Hai *see* **Zhu, Zhuo Wen, 93k:86015**

Zhu, Zhuo Wen (*with* Yu, Jin Hai) Pseudo-solution on geodetic overdetermined boundary value problems. (English summary) **93k:86015**

86A32 Geostatistics

Aitchison, John On criteria for measures of compositional difference. **93b:86008**

Christakos, George Some applications of the Bayesian, maximum-entropy concept in geostatistics. (*see* **93b:00011**)

Cressie, Noel *see* **Ver Hoef, Jay M., 93k:86018**

Dietrich, C. R. Computationally efficient generation of Gaussian conditional simulations over regular sample grids. (English summary) **93m:86008**
van der Linde, Angelika On least squares estimation of generalized covariance functions. (English summary) **93k:86016**
Marcotte, D. *see* **Posa, Donato, 93f:86004**
Posa, Donato (*with* Marcotte, D.) Robustness of Kriging weights to nonbias conditions. (English summary) **93f:86004**
— *see also* **Rossi, Mario, 93b:86009**
Rossi, Mario (*with* Posa, Donato) A nonparametric bivariate entropy estimator for spatial processes. **93b:86009**
Solow, Andrew R. On the efficiency of the indicator approach in geostatistics. (English summary) **93k:86017**
Ver Hoef, Jay M. (*with* Cressie, Noel) Multivariable spatial prediction. (English summary) **93k:86018**

Items with secondary classifications in 86A32

Strakhov, V. N. Processing of geophysical information under multiplicative-additive noise. (Russian) **93b:86002**
— Processing of geophysical data in the case of multiplicative-additive noise with an unknown dispersion of the multiplicative component. (Russian) **93c:86001**

86A40 Glaciology

Fowler, A. C. Modelling ice sheet dynamics. **93a:86002**

86A60 Geological problems

Dmitriev, V. I. (*with* Solov′eva, E. N.) Mathematical modeling of the energy and structural evolution of the Earth. (Russian. Russian summary) **93k:86019**
Fowler, A. C. Toward a description of convection with temperature-and-pressure-dependent viscosity. (English summary) **93m:86009**
Ismail-Zade, A. T. *see* **Naĭmark, B. M., 93a:86003**
Ivanov, Valentin Timofeevich (*with* Krizskiĭ, V. N.) Methods for solving some elliptic boundary value problems of mathematical physics and their application to geophysics. (Russian) (*see* **93m:00033**)
Krizskiĭ, V. N. *see* **Ivanov, Valentin Timofeevich, (93m:00033)**
Li, Wen Xiu Fuzzy models for estimation of surface ground subsidence. (English summary)
Mason, D. P. *see* **Nakayama, M., 93f:86005** *and* **93f:86006**
Naĭmark, B. M. (*with* Ismail-Zade, A. T.) Oscillatory instability as a consequence of a random distribution of density. (Russian) **93a:86003**
Nakayama, M. (*with* Mason, D. P.) Compressive solitary waves in compacting media. **93f:86005**
— (*with* Mason, D. P.) Rarefactive solitary waves in two-phase fluid flow of compacting media. **93f:86006**
Omre, Henning A Bayesian approach to seismic depth conversion. (*see* **93i:00021**)
Solov′eva, E. N. *see* **Dmitriev, V. I., 93k:86019**
Talenti, Giorgio (*with* Tonani, F.) Detecting subsurface gas sources. (*see* **93f:35007**)
Tonani, F. *see* **Talenti, Giorgio, (93f:35007)**

Items with secondary classifications in 86A60

Bhattacharyya, S. N. *see* **Gupta, A. S.; et al., 93d:76025**
Bingham, Christopher (*with* Chang, Theodore; Richards, Donald St. P.) Approximating the matrix Fisher and Bingham distributions: applications to spherical regression and Procrustes analysis. **93f:62078**
Čadek, Ondřej (*with* Martinec, Zdeněk; Matyska, Ctirad) Spectral variational approach to the non-Newtonian Stokes problem in a spherical shell. (English summary) **93f:76002**
Chang, Theodore *see* **Bingham, Christopher; et al., 93f:62078**
Ferrándiz Leal, José Manuel *see* **Getino, J. M., 93d:73062a; 93d:73062b** *and* **93d:73062c**
Ganguly, Keshab *see* **Gupta, A. S.; et al., 93d:76025**
Getino, J. M. (*with* Ferrándiz Leal, José Manuel) A Hamiltonian theory for an elastic Earth: elastic energy of deformation. **93d:73062a**
— (*with* Ferrándiz Leal, José Manuel) A Hamiltonian theory for an elastic Earth: first order analytical integration. **93d:73062b**
— (*with* Ferrándiz Leal, José Manuel) A Hamiltonian theory for an elastic Earth: secular rotational acceleration. **93d:73062c**
Gupta, A. S. (*with* Bhattacharyya, S. N.; Ganguly, Keshab) On the onset of thermal instability in fluid-filled porous spheres and spherical shells. **93d:76025**
Martinec, Zdeněk *see* **Čadek, Ondřej; et al., 93f:76002**
Matyska, Ctirad *see* **Čadek, Ondřej; et al., 93f:76002**
Mukhamediev, Sh. A. On the reconstruction of a stress tensor field in blocks of the Earth's crust. (Russian. Russian summary) **93h:73031**
Myers, Donald E. Kriging, co-Kriging, radial basis functions and the role of positive definiteness. (English summary) **93j:65022**
Richards, Donald St. P. *see* **Bingham, Christopher; et al., 93f:62078**
Spiegelman, Marc Flow in deformable porous media. I. Simple analysis. (English summary)
— Flow in deformable porous media. II. Numerical analysis—the relationship between shock waves and solitary waves. (English summary)

86A99 Miscellaneous topics

Daglish, George The essential mathematics of remote sensing. (English summary) **93f:86007**
García-Ruiz, Juan M. (*with* Otálora, Fermín) Fractal trees and Horton's laws. **93b:86010**
Otálora, Fermín *see* **García-Ruiz, Juan M., 93b:86010**

Items with secondary classifications in 86A99

Blunt, Martin (*with* Rubin, Barry) Implicit flux limiting schemes for petroleum reservoir simulation. (English summary) **93e:76051**
Bratvedt, Frode (*with* Bratvedt, Kyrre; Buchholz, Christian F.; et al.) Front tracking for petroleum reservoirs. (English summary) **93h:76071**
Bratvedt, Kyrre *see* **Bratvedt, Frode; et al., 93h:76071**
Buchholz, Christian F. *see* **Bratvedt, Frode; et al., 93h:76071**
Goloshubin, G. M. *see* **Krauklis, P. V.; et al., 93g:73099**
Krauklis, L. A. *see* **Krauklis, P. V.; et al., 93g:73099**
Krauklis, P. V. (*with* Goloshubin, G. M.; Krauklis, L. A.) A low-velocity wave in a layer of a fluid that models an oilfield stratum. (Russian. English and Russian summaries) **93g:73099**
Man, Chi-Sing Nonsteady channel flow of ice as a modified second-order fluid with power-law viscosity. **93c:76001**
Rubin, Barry *see* **Blunt, Martin, 93e:76051**
Tsurkis, I. Ya. Stress state in a half-plane with an elliptic inclusion. (Russian) **93d:73021**

90–XX Economics, operations research, programming, games

90–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Items with secondary classifications in 90–00

(Coffman, Edward G., Jr.) *see* **Computing, 93i:90038**
(Lenstra, J. K.) *see* **Computing, 93i:90038**
(Rinnooy Kan, A. H. G.) *see* **Computing, 93i:90038**

Items listed otherwise than by author

Computing ★ Computing. **93i:90038**
Index:
Discrete Appl. Math. Master index: Volumes 31–40. **93m:00005**

90–01 Instructional exposition (textbooks, tutorial papers, etc.)

(Aumann, Robert) *see* **Roth, Alvin E., 93b:90001**
Intriligator, M. D. *see* **Kim, Ki Hang; et al., 93j:90001**
Kamien, Morton I. (*with* Schwartz, Nancy L.) ★ Dynamic optimization. **93d:90001**
Karlin, Samuel ★ Mathematical methods and theory in games, programming, and economics. **93a:90001**
Kim, Ki Hang (*with* Roush, F. W.; Intriligator, M. D.) Overview of mathematical social sciences. **93j:90001**
Murty, Katta G. ★ Network programming. **93k:90001**
Noble, Andrew Mathematical programming: saving time and money. (*see* **93g:00019**)
Roth, Alvin E. (*with* Sotomayor, Marilda de Oliveira) ★ Two-sided matching. **93b:90001**
Roush, F. W. *see* **Kim, Ki Hang; et al., 93j:90001**
Schwartz, Nancy L. *see* **Kamien, Morton I., 93d:90001**
Shiryaev, V. D. *see* **Zenkevich, N. A., 93i:90001**
Sniedovich, Moshe ★ Dynamic programming. **93d:90002**
Sotomayor, Marilda de Oliveira *see* **Roth, Alvin E., 93b:90001**
Zenkevich, N. A. (*with* Shiryaev, V. D.) ★ Игры со многими участниками. (Russian. Russian summary) [*n*-person games] **93i:90001**
Zhang, You Wei ★ Dongtai guihua. (Chinese. Chinese summary) [Dynamic programming]

Items with secondary classifications in 90–01

Casti, John L. ★ Reality rules. I. **93i:00010a**
— ★ Reality rules. II. **93i:00010b**
GOThA Le problèmes d'ordonnancement. (English and French summaries) [Scheduling problems]
Lay, Steven R. ★ Convex sets and their applications. **93g:52001**
Léonard, Daniel (*with* Long, Ngo Van) ★ Optimal control theory and static optimization in economics. **93d:49002**
Long, Ngo Van *see* **Léonard, Daniel, 93d:49002**
Swamy, M. N. S. *see* **Thulasiraman, K., 93f:05002**
Thulasiraman, K. (*with* Swamy, M. N. S.) ★ Graphs: theory and algorithms. **93f:05002**

90–02 Research exposition (monographs, survey articles)

Abdou, J. (*with* Keiding, H.) ★ Effectivity functions in social choice. **93m:90001**
Andersson, Åke E. (*with* Zhang, Wei-Bin) Topics in mathematical economics—on fixed points and structural change. (*see* **93d:92001**)
Astaf′ev, N. N. ★ Бесконечные системы линейных неравенств в математическом программировании. (Russian) [Infinite systems of linear inequalities in mathematical programming] **93b:90002**
Bierth, Karl-Josef ★ Durchschnittsgewinnkriterien in semi-Markoffschen Entscheidungsmodellen. (German) [Average reward criteria in semi-Markovian decision models] **93b:90003**
Border, Kim C. ★ Fixed point theorems with applications to economics and game theory. **93b:90004**
(Bulatov, V. P.) *see* **Optimization: models, methods, solutions, 93k:90002**
Burlakov, M. V. ★ Ситуационное управление в системах массового обслуживания. (Russian) [Situational control in queueing systems] **93e:90001**
Černý, Ján (*with* Kluvánek, Pavol) ★ Základy matematickej teórie dopravy. (Slovak) [Foundations of the mathematical theory of transportation] **93a:90002**
Cottle, Richard W. (*with* Pang, Jong-Shi; Stone, Richard E.) ★ The linear complementarity problem. **93f:90001**
Drèze, Jacques H. ★ Essays on economic decisions under uncertainty. **93b:90005**

(Ermakov, S. M.) *see* **Zhiglyavskiĭ, A. A., 93i:90004**
(Ermol'ev, Yu. M.) *see* **Uryas'ev, S. P., 93b:90007**
Evans, James R. (*with* Minieka, Edward) ★ Optimization algorithms for networks and graphs. **93j:90002**
van Ginneken, L. P. P. P. *see* **Otten, R. H. J. M., 93h:90001**
Hansen, Eldon ★ Global optimization using interval analysis. **93i:90002**
den Hertog, D. (*with* Roos, C.) A survey of search directions in interior point methods for linear programming. **93f:90002**
Keiding, H. *see* **Abdou, J., 93m:90001**
Kluvánek, Pavol *see* **Černý, Ján, 93a:90002**
Korte, Bernhard (*with* Lovász, László; Schrader, Rainer) ★ Greedoids. **93f:90003**
Lewis, Alain A. Some aspects of effectively constructive mathematics that are relevant to the foundations of neoclassical mathematical economics and the theory of games. (English summary) **93i:90003**
Lovász, László *see* **Korte, Bernhard; et al., 93f:90003**
Ma, Zhong Fan Interior point algorithms for linear programming. (Chinese. English summary)
Mailath, George J. Introduction: symposium on evolutionary game theory. (English summary)
Minieka, Edward *see* **Evans, James R., 93j:90002**
Mirzoakhmedov, F. ★ Математические модели и методы управления производством с учетом случайных факторов. (Russian) [Mathematical models and methods for production control taking random factors into account] **93c:90001**
Mos'pan, V. S. ★ Количественное описание фильтрации флуктуаций. (Russian. Russian summary) [Quantitative description of filtering of fluctuations] **93j:90003**
Nagurney, Anna ★ Network economics: a variational inequality approach. (English. English summary) **93m:90002**
Otten, R. H. J. M. (*with* van Ginneken, L. P. P. P.) ★ The annealing algorithm. **93h:90001**
Pang, Jong-Shi *see* **Cottle, Richard W.; et al., 93f:90001**
Roos, C. *see* **den Hertog, D., 93f:90002**
Ruhe, Günther ★ Algorithmic aspects of flows in networks. **93a:90003**
Šaltenis, Vydūnas ★ Анализ структуры задач оптимизации. (Russian) [Analysis of the structure of optimization problems] **93b:90006**
Salukvadze, M. E. *see* **Zhukovskiĭ, V. I., 93b:90008**
Schrader, Rainer *see* **Korte, Bernhard; et al., 93f:90003**
Soldatenko, G. V. ★ Последовательный метод решения экстремальных комбинаторных задач. (Russian. Russian summary) [A sequential method for solving extremal combinatorial problems] **93g:90001**
Stone, Richard E. *see* **Cottle, Richard W.; et al., 93f:90001**
Uryas'ev, S. P. ★ Адаптивные алгоритмы стохастической оптимизации и теории игр. (Russian) [Adaptive algorithms in stochastic optimization and game theory] **93b:90007**
Ushakov, I. A. *see* **Volkovich, V. L.; et al., 93j:90004**
Volkovich, V. L. (*with* Voloshin, A. F.; Zaslavskiĭ, V. A.; Ushakov, I. A.) ★ Модели и методы оптимизации надежности сложных систем. (Russian. Russian summary) [Models and methods for optimizing the reliability of complex systems] **93j:90004**
Voloshin, A. F. *see* **Volkovich, V. L.; et al., 93j:90004**
Voronin, A. N. ★ Многокритериальный синтез динамических систем. (Russian. Russian summary) [Multicriterial synthesis of dynamical systems] **93j:90005**
Xue, Pei Lei (*with* Zhou, Yu Ying^2) Some recent achievements in optimization. (Chinese. English and Chinese summaries)
Zaslavskiĭ, V. A. *see* **Volkovich, V. L.; et al., 93j:90004**
Zhang, Wei-Bin *see* **Andersson, Åke E., (93d:92001)**
Zhiglyavskiĭ, A. A. (*with* Žilinskas, Antanas) ★ Методы поиска глобального экстремума. (Russian) [Methods for searching for the global extremum] **93f:90004**
— ★ Theory of global random search. **93i:90004**
Zhou, Yu Ying^2 *see* **Xue, Pei Lei**
Zhukovskiĭ, V. I. (*with* Salukvadze, M. E.) ★ Многокритериальные задачи управления в условиях неопределенности. (Russian) [Multi-objective control problems under conditions of uncertainty] **93b:90008**
Žilinskas, Antanas *see* **Zhiglyavskiĭ, A. A., 93f:90004**

Items listed otherwise than by author

Irkutsk ★ Оптимизация: модели, методы, решения. (Russian) [Optimization: models, methods, solutions] **93k:90002**
Optimization: models, methods, solutions ★ Оптимизация: модели, методы, решения. (Russian) [Optimization: models, methods, solutions] **93k:90002**
School:
Optimization Methods and their Applications ★ Оптимизация: модели, методы, решения. (Russian) [Optimization: models, methods, solutions] **93k:90002**

Items with secondary classifications in 90–02

Ben-Ayed, Omar Bilevel linear programming. (English summary) **93m:90052**
Bertsekas, Dimitri P. Auction algorithms for network flow problems: a tutorial introduction. (English summary) **93h:90033**
Bordunov, N. N. ★ Динамические оптимизационные модели в условиях неопределенности: многоэтапные задачи стохастического программирования (по материалам IIASA). (Russian. Russian summary) [Dynamical optimization models under conditions of uncertainty: multistage problems of stochastic programming (from IIASA reports)] **93i:90072**
Coughlin, Peter J. ★ Probabilistic voting theory. **93j:90027**
Gonzaga, Clovis C. Path-following methods for linear programming. **93j:90050**
Johnson, Ellis L. (*with* Nemhauser, George L.) Recent developments in integer programming. (English summary) (*see* **93d:90005**)
Kall, P. A survey of approximation methods in stochastic programming. (Russian) (*see* **93k:90002**)
Kummer, Bernd Lipschitz functions in a finite-dimensional space: inverse and implicit functions, critical points in optimization problems, and Newton-type methods for solving Lipschitz equations (a survey). (Russian) (*see* **93k:90002**)
Lezina, Z. M. *see* **Vol'skiĭ, V. I., 93f:90045**
Lin, Meng Xiong Parallel algorithms for constrained nonlinear optimization—a review. (Chinese. English summary)
Lootsma, Freerk A. Parallel nonlinear optimization. (Russian) (*see* **93k:90002**)
Loskutov, V. G. Models, algorithms and software of stochastic optimization. (English summary) (*see* **93k:62001**)
Lototskiĭ, V. A. (*with* Mandel', A. S.) ★ Модели и методы управления запасами. (Russian. English and Russian summaries) [Models and methods of inventory control] **93k:90032**
Mäkelä, Marko M. (*with* Neittaanmäki, Pekka) ★ Nonsmooth optimization. **93i:49002**
Mandel', A. S. *see* **Lototskiĭ, V. A., 93k:90032**
Murty, Katta G. ★ Network programming. **93k:90001**
Neittaanmäki, Pekka *see* **Mäkelä, Marko M., 93i:49002**
Nemhauser, George L. *see* **Johnson, Ellis L., (93d:90005)**
Ramani, K. V. Graphics software for teaching optimization algorithms. (English summary) (*see* **93d:90005**)
Thuijsman, F. ★ Optimality and equilibria in stochastic games. **93h:90117**
Vol'skiĭ, V. I. (*with* Lezina, Z. M.) Comparative analysis of voting procedures (a survey of the current state and new problems). (Russian. Russian summary) **93f:90045**
Wei, Zi Luan Recent developments of interior algorithms for linear programming. (Chinese. English summary)
White, Chelsea C., III A survey of solution techniques for the partially observed Markov decision process. **93b:90107**

90–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 90–03

Billot, Antoine (*with* Thisse, Jacques-François) Claude Ponsard (1927–1990): a biographical essay. **93g:01059**
(Leibniz, Gottfried Wilhelm) *see* **de Mora-Charles, Maria Sol, 93a:01019**
de Mora-Charles, Maria Sol Quelques jeux de hazard selon Leibniz (manuscrits inédits). (German and Spanish summaries) [Some games of chance according to Leibniz (unpublished manuscripts)] **93a:01019**
(Ponsard, Claude) *see* **Billot, Antoine, 93g:01059**
Thisse, Jacques-François *see* **Billot, Antoine, 93g:01059**
Uebe, Götz The model of Lang—national income accounts in 1807. (English summary) **93g:01043**

90–04 Explicit machine computation and programs (not the theory of computation or programming)

Gergel', V. P. (*with* Grishagin, V. A.; Kukhtin, V. V.; Rogatneva, E. A.; Strongin, R. G.; Vysotskaya, I. N.) ★ A software system for multiextremal optimization. (English. English and Russian summaries) **93i:90005**
Grishagin, V. A. *see* **Gergel', V. P.; et al., 93i:90005**
Kalvelagen, Erwin (*with* Tijms, Henk) ORSTAT: software for operations research and statistics. (English summary)
Kukhtin, V. V. *see* **Gergel', V. P.; et al., 93i:90005**
Rogatneva, E. A. *see* **Gergel', V. P.; et al., 93i:90005**
Strongin, R. G. *see* **Gergel', V. P.; et al., 93i:90005**
Tijms, Henk *see* **Kalvelagen, Erwin**
Vysotskaya, I. N. *see* **Gergel', V. P.; et al., 93i:90005**

Items with secondary classifications in 90–04

Bentley, Jon Louis Fast algorithms for geometric traveling salesman problems. (English summary) **93g:90062**
(Dongarra, Jack J.) *see* **Parallel processing for scientific computing, 93g:65178**
(Kennedy, Ken) *see* **Parallel processing for scientific computing, 93g:65178**
Krysov, Yu. A. Making and coordinating decisions in certain procedures of parametric analysis in optimization problems. (Russian) **93b:90093**
(Messina, Paul) *see* **Parallel processing for scientific computing, 93g:65178**
Senkienė, Elvyra On certain global optimization algorithms. (Russian. English summary) **93i:90070**
(Sorensen, Danny C.) *see* **Parallel processing for scientific computing, 93g:65178**
(Voigt, Robert G.) *see* **Parallel processing for scientific computing, 93g:65178**

Items listed otherwise than by author

Conference:
Parallel Processing for Scientific Computing ★ Parallel processing for scientific computing. **93g:65178**
Houston, TX ★ Parallel processing for scientific computing. **93g:65178**
Parallel processing for scientific computing ★ Parallel processing for scientific computing. **93g:65178**

90–06 Proceedings, conferences, collections, etc.

(Amman, Hans M.) *see* **Computational economics and econometrics, 93b:90009**
(Belsley, David A.) *see* **Computational economics and econometrics, 93b:90009**
(Bicchieri, Cristina) *see* **Knowledge, belief, and strategic interaction, 93i:90006**
(Dalla Chiara, Maria Luisa) *see* **Knowledge, belief, and strategic interaction, 93i:90006**
(Drezner, Zvi) *see* **Locational decisions, 93k:90005**
(Ehtamo, Harri) *see* **Differential games—developments in modelling and computation, 93c:90003** *and* **Dynamic games in economic analysis, 93d:90003**
(Fedrizzi, Mario) *see* **Combining fuzzy imprecision with probabilistic uncertainty in decision making, 93c:90002**
(Feichtinger, Gustav) *see* **Nonlinear methods in economic dynamics and optimal control, 93d:90004**
(Galbiati, G.) *see* **Combinatorial structures and algorithms, 93k:90004**
(Griffiths, J. D.) *see* **Mathematics in transport planning and control, 93g:90003**
(Gritzmann, Peter) *see* **Operations research '91, 93j:90006**

(Hämäläinen, Raimo P.) *see* **Differential games—developments in modelling and computation, 93c:90003** *and* **Dynamic games in economic analysis, 93d:90003**
(Hartl, R. F.) *see* **Nonlinear methods in economic dynamics and optimal control, 93d:90004**
(Hettich, Rainer) *see* **Operations research '91, 93j:90006**
(Horst, Reiner) *see* **Operations research '91, 93j:90006**
(Ivanilov, Yu. P.) *see* **Operations research (models, systems, solutions), 93b:90011** *and* **93c:90004**
(Kacprzyk, Janusz) *see* **Combining fuzzy imprecision with probabilistic uncertainty in decision making, 93c:90002**
(Kall, P.) *see* **System modelling and optimization, 93e:90003**
(Korolev, L. N.) *see* **Computer systems and problems in decision making, 93g:90002**
(Krasnoshchekov, P. S.) *see* **Computer systems and problems in decision making, 93g:90002**
(Linhart, Peter B.) *see* **Bargaining with incomplete information**
(Maffioli, F.) *see* **Combinatorial structures and algorithms, 93k:90004**
(Mikhalevich, V. S.) *see* **Methods for solving problems of nonlinear and discrete programming, 93b:90010**
(Pau, Louis-F.) *see* **Computational economics and econometrics, 93b:90009**
(Phua, Paul Kang Hoh) *see* **Optimization, 93d:90005**
(Radner, Roy) *see* **Bargaining with incomplete information**
(Sachs, Ekkehard) *see* **Operations research '91, 93j:90006**
(Satterthwaite, Mark A.) *see* **Bargaining with incomplete information**
(Stefański, Jacek) *see* **Bargaining and arbitration in conflicts, 93k:90003**
(Wang, C. M.) *see* **Optimization, 93d:90005**
(Yeong, W. Y.) *see* **Optimization, 93d:90005**

Items listed otherwise than by author

Bargaining and arbitration in conflicts ★ Bargaining and arbitration in conflicts. **93k:90003**
Bargaining with incomplete information ★ Bargaining with incomplete information.
Cardiff ★ Mathematics in transport planning and control. **93g:90003**
Castiglioncello ★ Knowledge, belief, and strategic interaction. **93i:90006**
Combinatorial structures and algorithms ★ Combinatorial structures and algorithms. **93k:90004**
Combining fuzzy imprecision with probabilistic uncertainty in decision making ★ Combining fuzzy imprecision with probabilistic uncertainty in decision making. **93c:90002**
Computational economics and econometrics ★ Computational economics and econometrics. **93b:90009**
Computer systems and problems in decision making ★ Вычислительные системы и вопросы принятия решений. (Russian) [Computer systems and problems in decision making] **93g:90002**
Conference:
  Mathematics in Transport Planning and Control ★ Mathematics in transport planning and control. **93g:90003**
  Operations Research ★ Nonlinear methods in economic dynamics and optimal control. **93d:90004**
  Optimization Techniques and Applications ★ Optimization. Vol. 1, 2. **93d:90005**
  Organizations and Games ★ Organizations and games. **93e:90002**
Differential games—developments in modelling and computation ★ Differential games—developments in modelling and computation. **93c:90003**
Dynamic games in economic analysis ★ Dynamic games in economic analysis. **93d:90003**
Espoo ★ Differential games—developments in modelling and computation. **93c:90003**
— ★ Dynamic games in economic analysis. **93d:90003**
Fullerton, CA ★ Locational decisions. **93k:90005**
IFIP Conference:
  System Modelling and Optimization ★ System modelling and optimization. **93e:90003**
Knowledge, belief, and strategic interaction ★ Knowledge, belief, and strategic interaction. **93i:90006**
Lecture Notes in Control and Information Sciences ★ Differential games—developments in modelling and computation. **93c:90003**
— ★ Dynamic games in economic analysis. **93d:90003**
— ★ System modelling and optimization. **93e:90003**
Lecture Notes in Economics and Mathematical Systems ★ Combining fuzzy imprecision with probabilistic uncertainty in decision making. **93c:90002**
Locational decisions ★ Locational decisions. **93k:90005**
Marseille ★ Organizations and games. **93e:90002**
Mathematical programming and its related fields ★ Keikaku sūgaku to sono kanren bunya. (Japanese) [Mathematical programming and its related fields] **93f:90005**
Mathematics in transport planning and control ★ Mathematics in transport planning and control. **93g:90003**
Meeting:
  Society of Economic Dynamics and Control ★ Computational economics and econometrics. **93b:90009**
Methods for solving problems of nonlinear and discrete programming ★ Методы решения задач нелинейного и дискретного программирования. (Russian) [Methods for solving problems of nonlinear and discrete programming] **93b:90010**
Minneapolis, MN ★ Computational economics and econometrics. **93b:90009**
Nonlinear analysis and mathematical economics ★ Hisenkei kaisekigaku to sūri keizaigaku no kenkyū. [Nonlinear analysis and mathematical economics] **93g:90004**
Nonlinear methods in economic dynamics and optimal control ★ Nonlinear methods in economic dynamics and optimal control. **93d:90004**
Operations research '91 ★ Operations research '91. **93j:90006**
Operations research (models, systems, solutions) ★ Исследование операций (модели, системы, решения). (Russian) [Operations research (models, systems, solutions)] **93b:90011**
— ★ Исследование операций (модели, системы, решения). (Russian) [Operations research (models, systems, solutions)] **93c:90004**
Optimization ★ Optimization. Vol. 1, 2. **93d:90005**
Optimization theory in mathematical programming models ★ Sūri keikaku moderu ni okeru saitekika riron. (Japanese) [Optimization theory in mathematical programming models] **93k:90006**
Organizations and games ★ Organizations and games. **93e:90002**
Singapore ★ Optimization. Vol. 1, 2. **93d:90005**
Special Issue:
  Bargaining and arbitration in conflicts ★ Bargaining and arbitration in conflicts. **93k:90003**
  Combinatorial structures and algorithms ★ Combinatorial structures and algorithms. **93k:90004**
Symposium:
  Differential Games and Applications ★ Differential games—developments in modelling and computation. **93c:90003**
  — ★ Dynamic games in economic analysis. **93d:90003**
  Locational Decisions ★ Locational decisions. **93k:90005**
  Mathematical Programming and its Related Fields ★ Keikaku sūgaku to sono kanren bunya. (Japanese) [Mathematical programming and its related fields] **93f:90005**
  Nonlinear Analysis and Mathematical Economics ★ Hisenkei kaisekigaku to sūri keizaigaku no kenkyū. [Nonlinear analysis and mathematical economics] **93g:90004**
  Operations Research ★ Operations research '91. **93j:90006**
  Optimization Theory in Mathematical Programming Models ★ Sūri keikaku moderu ni okeru saitekika riron. (Japanese) [Optimization theory in mathematical programming models] **93k:90006**
System modelling and optimization ★ System modelling and optimization. **93e:90003**
Trier ★ Operations research '91. **93j:90006**
Vienna ★ Nonlinear methods in economic dynamics and optimal control. **93d:90004**
Workshop:
  Knowledge, Belief, and Strategic Interaction ★ Knowledge, belief, and strategic interaction. **93i:90006**
Zurich ★ System modelling and optimization. **93e:90003**

Items with secondary classifications in 90–06

(Barbu, Viorel) *see* **Optimization, optimal control and partial differential equations, 93m:00044**
(Bonnans, Joseph Frédéric) *see* **Optimization, optimal control and partial differential equations, 93m:00044**
(Brykalov, S. A.) *see* **Control problems with guaranteed result, 93h:93008**
(Černý, Martin) *see* **Fuzzy approach to reasoning and decision-making, 93m:68003**
(Ioffe, Alexandre D.) *see* **Optimization and nonlinear analysis, 93d:49004**
(Johnson, Paul E.) *see* **Formal theories of politics, 93d:92018**
(Kutukova, L. T.) *see* **Dynamical systems, 93b:34004**
(Law, A. G.) *see* **Approximation, optimization and computing, 93a:41001**
(Marcus, Moshe M.) *see* **Optimization and nonlinear analysis, 93d:49004**
(Mareš, Milan) *see* **Fuzzy approach to reasoning and decision-making, 93m:68003**
(Nekola, Jiří) *see* **Fuzzy approach to reasoning and decision-making, 93m:68003**
(Novák, Vilém) *see* **Fuzzy approach to reasoning and decision-making, 93m:68003**
Pardalos, Panos M. (*with* Vavasis, Stephen A.) Open questions in complexity theory for numerical optimization.
(Ramík, Jaroslav) *see* **Fuzzy approach to reasoning and decision-making, 93m:68003**
(Reich, Simeon) *see* **Optimization and nonlinear analysis, 93d:49004**
(Subbotin, A. I.) *see* **Control problems with guaranteed result, 93h:93008**
(Sydow, Achim) *see* **Computational systems analysis, 93b:93006**
(Tiba, D.) *see* **Optimization, optimal control and partial differential equations, 93m:00044**
Vavasis, Stephen A. *see* **Pardalos, Panos M.**
(Wang, Chung-Lie) *see* **Approximation, optimization and computing, 93a:41001**

Items listed otherwise than by author

Approximation, optimization and computing ★ Approximation, optimization and computing. **93a:41001**
Bechyně ★ Fuzzy approach to reasoning and decision-making. **93m:68003**
Computational systems analysis ★ Computational systems analysis. **93b:93006**
Conference:
  Optimization, Optimal Control and Partial Differential Equations ★ Optimization, optimal control and partial differential equations. **93m:00044**
Control problems with guaranteed result ★ Проблемы управления с гарантированным результатом. (Russian) [Control problems with guaranteed result] **93h:93008**
Dynamical systems ★ Динамические системы. (Russian) [Dynamical systems] **93b:34004**
Formal theories of politics ★ Formal theories of politics. II. **93d:92018**
Fuzzy approach to reasoning and decision-making ★ Fuzzy approach to reasoning and decision-making. **93m:68003**
Haifa ★ Optimization and nonlinear analysis. **93d:49004**
Iaşi ★ Optimization, optimal control and partial differential equations. **93m:00044**
Optimization and nonlinear analysis ★ Optimization and nonlinear analysis. **93d:49004**
Optimization, optimal control and partial differential equations ★ Optimization, optimal control and partial differential equations. **93m:00044**
Special Issue:
  Formal theories of politics ★ Formal theories of politics. II. **93d:92018**
Symposium:
  Fuzzy Approach to Reasoning and Decision Making ★ Fuzzy approach to reasoning and decision-making. **93m:68003**
Workshop:
  Optimization and Nonlinear Analysis ★ Optimization and nonlinear analysis. **93d:49004**

90–08 Computational methods

Charamza, Pavel Comparison of the stochastic approximation software. (English summary) **93k:90007**
Chen, Wen Pu *see* **Ding, Hui Liang; et al., (93a:41001)**
Conley, William Cleland Multi-stage Monte Carlo optimization applied to a six hundred point travelling salesman problem. (English summary) **93k:90008**
Ding, Hui Liang (*with* Sun, Xian Xue; Long, Qi Hao; Chen, Wen Pu; Pan, Bing Chen) YIDOYU—an optimization program system for wing structures. (*see* **93a:41001**)
Dubois, N. (*with* de Werra, D.) EPCOT: an efficient procedure for coloring optimally with Tabu search. (English summary)

Hürlimann, T. LPL: a mathematical programming language. (English and German summaries) **93k:90009**
Long, Qi Hao *see* **Ding, Hui Liang; et al.**, (93a:41001)
Pan, Bing Chen *see* **Ding, Hui Liang; et al.**, (93a:41001)
Richter, P. Present approximative algorithms for Steiner's problem in graphs. Classification and two new fast approaches. (Polish summary)
Schittkowski, Klaus Heuristic reasoning in mathematical programming. (Russian and Lithuanian summaries) **93a:90004**
Sun, Xian Xue *see* **Ding, Hui Liang; et al.**, (93a:41001)
de Werra, D. *see* **Dubois, N.**

Items with secondary classifications in 90–08

Alekseev, A. O. (*with* Alekseev, O. G.; Kulagin, O. A.) An experimental estimate for the efficiency of an algorithm for solving the minimax traveling salesman problem. (Russian)
Alekseev, O. G. *see* **Alekseev, A. O.; et al.**
Berger, M. F. *see* **Navon, I. M.; et al., 93i:90090**
Carter, Richard G. Numerical experience with a class of algorithms for nonlinear optimization using inexact function and gradient information. (English summary) **93j:90095**
Ferrari, André (*with* Galperin, Efim A.) Numerical experiments with one-dimensional adaptive cubic algorithm. (English summary)
Fréville, Arnaud (*with* Plateau, G.) Sac à dos multidimensionnel en variables 0-1: encadrement de la somme des variables à l'optimum. (English and French summaries) [The 0-1 multidimensional knapsack problem: fixing the sum of the variables at the optimum]
Galperin, Efim A. *see* **Ferrari, André**
Kulagin, O. A. *see* **Alekseev, A. O.; et al.**
Le Dimet, François-Xavier *see* **Navon, I. M.; et al., 93i:90090**
Lukšan, Ladislav Computational experience with improved conjugate gradient methods for unconstrained minimization. (English summary) **93h:90088**
Mehrotra, Sanjay On the implementation of a primal-dual interior point method. (English summary) **93g:90047**
Navon, I. M. (*with* Zou, X.; Berger, M. F.; Phua, Paul Kang Hoh; Schlick, Tamar; Le Dimet, François-Xavier) Numerical experience with limited-memory quasi-Newton and truncated Newton methods. (English summary) **93i:90090**
Phua, Paul Kang Hoh *see* **Navon, I. M.; et al., 93i:90090**
Plateau, G. *see* **Fréville, Arnaud**
Schlick, Tamar *see* **Navon, I. M.; et al., 93i:90090**
Zou, X. *see* **Navon, I. M.; et al., 93i:90090**

90Axx Mathematical economics {For econometrics, see 62P20.}

Items with secondary classifications in 90Axx

Border, Kim C. ★ Fixed point theorems with applications to economics and game theory. **93b:90004**
Castillo, Enrique (*with* Ruiz Cobo, María Reyes) ★ Functional equations and modelling in science and engineering. **93k:39006**
(Fedrizzi, Mario) *see* **Combining fuzzy imprecision with probabilistic uncertainty in decision making, 93c:90002**
Intriligator, M. D. *see* **Kim, Ki Hang; et al., 93j:90001**
(Kacprzyk, Janusz) *see* **Combining fuzzy imprecision with probabilistic uncertainty in decision making, 93c:90002**
Kamien, Morton I. (*with* Schwartz, Nancy L.) ★ Dynamic optimization. **93d:90001**
Karlin, Samuel ★ Mathematical methods and theory in games, programming, and economics. **93a:90001**
Kim, Ki Hang (*with* Roush, F. W.; Intriligator, M. D.) Overview of mathematical social sciences. **93j:90001**
Lewis, Alain A. Some aspects of effectively constructive mathematics that are relevant to the foundations of neoclassical mathematical economics and the theory of games. (English summary) **93i:90003**
(Linhart, Peter B.) *see* **Bargaining with incomplete information**
(Radner, Roy) *see* **Bargaining with incomplete information**
Roush, F. W. *see* **Kim, Ki Hang; et al., 93j:90001**
Ruiz Cobo, María Reyes *see* **Castillo, Enrique, 93k:39006**
(Satterthwaite, Mark A.) *see* **Bargaining with incomplete information**
Schwartz, Nancy L. *see* **Kamien, Morton I., 93d:90001**

Items listed otherwise than by author

Bargaining with incomplete information ★ Bargaining with incomplete information.
Combining fuzzy imprecision with probabilistic uncertainty in decision making ★ Combining fuzzy imprecision with probabilistic uncertainty in decision making. **93c:90002**
Lecture Notes in Economics and Mathematical Systems ★ Combining fuzzy imprecision with probabilistic uncertainty in decision making. **93c:90002**

90A05 Decision theory [see also 62Cxx, 90B50, 90D35]

Athans, Michael *see* **Papastavrou, Jason D.**
Benkherouf, L. (*with* Glazebrook, Kevin D.; Owen, R. W.) Gittins indices and oil exploration. **93i:90007**
Bennavail, J.-C. (*with* Chen, Z.; Singh, Madan G.) Judgemental calibration of multivariable constant elasticity models: scenario generation. (English summary)
Bloch, Francis Nondictatorial social welfare functions with different discrimination structures. (English summary) **93k:90010**
Borisov, A. N. *see* **Slyadz', N. N., (93c:90002)**
Bouyssou, Denis A note on the sum of differences choice function for fuzzy preference relations. **93c:90005**
Brønn, Carl *see* **Whalen, Thomas, (93c:90002)**
Butnariu, Dan (*with* Roventa, Eugene) A measure theoretical approach of the problem of computing production costs. (English summary) **93f:90006**
Chen, Hong Decision-making with a fuzzy satisfaction relation. (Chinese. English and Chinese summaries)
Chen, Pengyuan A lower bound for the dimension of the message space of the decentralized mechanisms realizing a given goal. **93c:90006**
Chen, Rong Hua *see* **Feng, De Yi; et al., (93c:90002)**
Chen, Z. *see* **Bennavail, J.-C.; et al.**
Clark, Stephen A. Revealed preference and linear utility. (English summary) **93k:90011**
Cohen, Michèle Security level, potential level, expected utility: a three-criteria decision model under risk. (English summary) **93h:90002**
Debord, Bernard An axiomatic characterization of Borda's k-choice function. (English summary) **93h:90003**
Dowling, Cornelia E. Applying the basis of a knowledge space for controlling the questioning of an expert. (English summary)
— On the irredundant generation of knowledge spaces. (English summary)
Dubois, Didier (*with* Prade, Henri) Decision evaluation methods under uncertainty and imprecision. (*see* **93c:90002**)
Erkut, Erhan (*with* Tarimcilar, Murat) On sensitivity analysis in the analytic hierarchy process.
Fedrizzi, Mario *see* **Kacprzyk, Janusz; et al., 93d:90006**
Feng, De Yi (*with* Lin, Ming Zhou; Chen, Rong Hua; Jiang, Chun) Application of fuzzy statistical decision making in countermeasures against great earthquakes. (*see* **93c:90002**)
Fischer, Michael J. (*with* Paleologou, Sophia A.) Decision making in the presence of noise. **93g:90005**
Fishburn, Peter C. Uncertainty aversion and separated effects in decision making under uncertainty. (*see* **93c:90002**)
— On nonstandard nontransitive additive utility. (English summary) **93e:90004**
— (*with* Lavalle, Irving H.) Multiattribute expected utility without the Archimedean axiom. (English summary) **93j:90007**
— Notes on: "Craven's conjecture" [Soc. Choice Welf. **8** (1991), no. 3, 269–274; MR 92j:90007] by J. S. Kelly. (English summary) **93g:90006**
French, Simon Recent mathematical developments in decision analysis.
Gil, María Angeles (*with* Jain, Pramod) Comparison of experiments in statistical decision problems with fuzzy utilities. (English summary) **93g:90007**
Glazebrook, Kevin D. *see* **Benkherouf, L.; et al., 93i:90007**
Gorbachev, O. G. (*with* Grebenshchikov, A. Yu.) Fast decision-making algorithms which use multidimensional data and limited-size training samples. (Russian. Russian summary) **93g:90008**
Grebenshchikov, A. Yu. *see* **Gorbachev, O. G., 93g:90008**
Greco, Salvatore Binary preference relations: a difference-distance and entropy-uncertainty approach. **93c:90007**
Jackson, Matthew O. Implementation in undominated strategies: a look at bounded mechanisms. (English summary) **93f:90007**
Jain, Pramod *see* **Gil, María Angeles, 93g:90007**
Jewitt, Ian Applications of likelihood ratio orderings in economics. (English summary) **93i:90008**
Jiang, Chun *see* **Feng, De Yi; et al., (93c:90002)**
Kacprzyk, Janusz (*with* Fedrizzi, Mario; Nurmi, Hannu) Group decision making and consensus under fuzzy preferences and fuzzy majority. (English summary) **93d:90006**
Kapsiotis, G. *see* **Tzafestas, Spyros G.; et al., (93b:93006)**
Karni, Edi A definition of subjective probabilities with state-dependent preferences. (English summary) **93k:90012**
(Kelly, Jerry S.) *see* **Fishburn, Peter C., 93g:90006**
Kijima, Kyoichi (*with* Tanaka, Kenji) Universal maps for binary preference structure generating decision principle functors. (English summary) **93c:90008**
Kleyle, R. *see* **de Korvin, A.**
de Korvin, A. (*with* Kleyle, R.) Selecting a set of simultaneous courses of action when imprecision is involved. (English summary)
Kurochka, M. A. Application of the chain metric in the solution of the group choice problem. (Russian. English and Ukrainian summaries)
Lavalle, Irving H. *see* **Fishburn, Peter C., 93j:90007**
Le Breton, Michel Stochastic orders in welfare economics. (English summary) **93i:90009**
Ligęza, Antoni A knowledge-based approach to decision support. (English and Polish summaries)
Lin, Ming Zhou *see* **Feng, De Yi; et al., (93c:90002)**
Litvakov, B. M. *see* **Vol'skii, V. I., 93b:90012**
Liu, Li Ping[1] Causal relation analysis. (Chinese. English and Chinese summaries)
Long, Yu Grey relational method for discriminating system factors. (English summary)
Looges, Peter J. (*with* Olariu, Stephan) Optimal greedy algorithms for indifference graphs. (English summary) **93i:90010**
Luce, R. Duncan Singular points in generalized concatenation structures that otherwise are homogeneous. (English summary) **93i:90011**
Malakooti, Behnam B. A decision support system for discrete multiple-criteria problems: certainty, uncertainty, and hierarchical. (English summary)
McClennen, Edward F. Rational choice in the context of ideal games. (*see* **93i:90006**)
Mikhalevich, M. V. On the possibility of constructing algorithms that are absolutely stable with respect to errors made by the decision-makers. (Russian)
Moliboga, S. M. Some decision-making problems under conditions of uncertainty based on the minimax risk criterion. (Russian) (*see* **93m:00036**)
Nogin, V. D. Estimation of the set of nondominated solutions. **93c:90009**
Nurmi, Hannu *see* **Kacprzyk, Janusz; et al., 93d:90006**
Olariu, Stephan *see* **Looges, Peter J., 93i:90010**
Ovchinnikov, Sergei (*with* Roubens, Marc) On fuzzy strict preference, indifference, and incomparability relations. **93a:90005**
Owen, R. W. *see* **Benkherouf, L.; et al., 93i:90007**
Paleologou, Sophia A. *see* **Fischer, Michael J., 93g:90005**
Papastavrou, Jason D. (*with* Athans, Michael) On optimal distributed decision architectures in a hypothesis testing environment. (English summary)
Pavlov, V. V. A systems model for evaluating the consequences of decisions in a complex

interconnected economic system. (Russian. Russian summary)
Pavlov, Yu. P. (*with* Vassilev, K.) Recurrent construction of utility functions.
Perny, P. (*with* Roy, Bernard) The use of fuzzy outranking relations in preference modelling. (English summary) **93f:90006**
Pittarelli, Michael Decisions with probabilities over finite product spaces. (English summary) **93f:90009**
Prade, Henri *see* **Dubois, Didier**, (93c:90002)
Reveliotis, S. *see* **Tzafestas, Spyros G.; et al.**, (93b:93006)
Ríos Insua, David On the foundations of decision making under partial information. **93d:90007**
Roubens, Marc *see* **Ovchinnikov, Sergei**, 93a:90005
Roventa, Eugene *see* **Butnariu, Dan**, 93f:90006
Roy, Bernard *see* **Perny, P.**, 93f:90008
Rubinstein, Ariel (*with* Safra, Zvi; Thomson, William L.) On the interpretation of the Nash bargaining solution and its extension to nonexpected utility preferences. (English summary) **93k:90013**
Safra, Zvi *see* **Rubinstein, Ariel; et al.**, 93k:90013
Salo, Ahti A. Inconsistency analysis by approximately specified priorities. (English summary)
Schoemaker, Paul J. H. Subjective expected utility theory revisited: a reductio ad absurdum paradox.
Shenoy, Prakash P. Valuation-based systems for Bayesian decision analysis. (English summary)
Shin, Hyun Song Logical structure of common knowledge. (English summary) **93m:90003**
Singh, Madan G. Complex systems analysis for managerial decision support in a competitive business environment. (English summary) (*see* **93e:00021**)
— *see also* **Bennavail, J.-C.; et al.**
Slyadz', N. N. (*with* Borisov, A. N.) Decision making based on fuzzy stochastic and statistical dominance. (*see* **93c:90002**)
Sun, Jia Le How to construct a consistency judgement matrix in hierarchical analysis. (English summary)
Tanaka, Kenji *see* **Kijima, Kyoichi**, 93c:90008
Tarimcilar, Murat *see* **Erkut, Erhan**
Thomson, William L. *see* **Rubinstein, Ariel; et al.**, 93k:90013
Tzafestas, Spyros G. (*with* Kapsiotis, G.; Reveliotis, S.) The generalized network approach to optimized decision making and planning. (English summary) (*see* **93b:93006**)
Uemura, Y. A decision rule on fuzzy events. (English summary)
Vassilev, K. *see* **Pavlov, Yu. P.**
Vejnarová, Jiřina On various criteria of optimality in probabilistic decision-making. (English summary) **93j:90008**
Vincke, Philippe L'aide multicritère à la décision. Historique et développements récents. [Multicriterion decision-making. History and recent developments]
Vol'skiĭ, V. I. (*with* Litvakov, B. M.) Generalized extremizational choice by pseudocriteria. **93b:90012**
Wang, Feng Song *see* **Wang, Qing Yin**
Wang, Lian Fen Conditions of rank preservation for adding a new element in the AHP. (Chinese. English summary)
Wang, Qing Yin (*with* Wang, Feng Song) The central grey target method for situational decision and its application. (English summary)
Whalen, Thomas (*with* Brønn, Carl) Essentials of decision making under generalized uncertainty. (*see* **93c:90002**)
Xu, Jiu Ping A sequencing method for multiple attribution evaluation. (Chinese. English summary)
Xu, Ruo Ning (*with* Zhai, Xiao Yan) Extensions of the analytic hierarchy process in fuzzy environment. (English summary)
Zhai, Xiao Yan *see* **Xu, Ruo Ning**

Items with secondary classifications in 90A05

Armstrong, Thomas E. Hierarchical Arrow social welfare functions. **93d:90008**
Arya, Anil (*with* Young, Richard A.; Woodlock, Peter) Managerial reporting discretion and the truthfulness of disclosures. (English summary)
Austen-Smith, David Interested experts and policy advice: multiple referrals under open rule. (English summary) **93j:90144**
Bacharach, Michael Backward induction and beliefs about oneself. **93b:90125**
Bakunda, Athanase Connexions entre les points efficaces et les points relativement faiblement efficaces en programmation multiobjective par rapport à un cône. (English summary) [Connections between efficient points and relatively weakly efficient points in multiobjective programming with respect to a cone] **93j:90084**
(Bicchieri, Cristina) *see* **Knowledge, belief, and strategic interaction**, 93i:90006
Bossert, Walter (*with* Storcken, Ton) Strategy-proofness of social welfare functions: the use of the Kemeny distance between preference orderings. (English summary) **93g:90009**
Bridges, Douglas S. The construction of a continuous demand function for uniformly rotund preferences. **93e:90019**
Cameron, Charles M. (*with* Rosendorff, B. Peter) A signaling theory of congressional oversight. (English summary) **93j:90145**
Chanas, S. (*with* Delgado, Miguel; Verdegay, J. L.; Vila, Maria Amparo) Ranking fuzzy interval numbers in the setting of random sets. (English summary) **93k:03052**
Chang, Da Yong (*with* Zhang, Li Li) Extent analysis and synthetic decision. (English summary) (*see* **93d:90005**)
Chen, Shyi Ming A new approach to inexact reasoning for rule-based systems. (English summary) **93h:68127**
Chumakov, V. V. Multistage decision making problems with noncoincident player interests under conditions of subjective uncertainty. (Russian) **93b:90077**
Crouzeix, Jean-Pierre (*with* Kebbour, R.) Index multiplicatifs de convexité/concavité et applications. (English and French summaries) [Multiplicative convexity/concavity indices and applications] **93k:90070**
Czogała, Ernest (*with* Disney, Peter L.) Decision making in a probabilistic fuzzy environment. (*see* **93c:90002**)
(Dalla Chiara, Maria Luisa) *see* **Knowledge, belief, and strategic interaction**, 93i:90006
Delgado, Miguel *see* **Chanas, S.; et al.**, 93k:03052
Disney, Peter L. *see* **Czogała, Ernest**, (93c:90002)
Drèze, Jacques H. ★ Essays on economic decisions under uncertainty. **93b:90005**
Fishburn, Peter C. On the theory of ambiguity. (English summary) **93h:90052**
— A general axiomatization of additive measurement with applications. (English summary) **93f:90020**
Fodor, János C. An axiomatic approach to fuzzy preference modelling. (English summary) **93j:90010**
Furuhashi, T. *see* **Naitoh, Y.; et al.**, 93h:03025
Geetha, S. (*with* Nair, K. P. K.) Markovian assignment decision process. (English and French summaries)
Gergel', V. P. (*with* Grishagin, V. A.; Kukhtin, V. V.; Rogatneva, E. A.; Strongin, R. G.; Vysotskaya, I. N.) ★ Complicated problem solution techniques in optimal parameter searching. (English. English and Russian summaries)
Grishagin, V. A. *see* **Gergel', V. P.; et al.**
Gvozdik, A. A. On ordering of multicriterial objects based on rank criteria. (Russian. Russian summary)
Ho, James K. (*with* Lee, Tak C.) Dynamics of information in distributed decision systems. (English summary)
Hoang Tien Fuzzy system and fuzzy logic theory in the decision support systems and artificial intelligence. (English summary) (*see* **93b:93006**)
Inuiguchi, Masahiro (*with* Kume, Yasufumi) Dominance relations as bases for constructing solution concepts in linear programming with multiple interval objective functions. (English summary) **93j:90088**
Jeffrey, Richard ★ Probability and the art of judgment. **93e:00006**
Judd, Kenneth L. Projection methods for solving aggregate growth models. (English summary) **93i:90020**
Kadane, Joseph B. *see* **Schervish, Mark J.; et al.**, 93j:62008
Kebbour, R. *see* **Crouzeix, Jean-Pierre**, 93k:90070
Koons, Robert C. ★ Paradoxes of belief and strategic rationality. **93d:03029**
Krysov, Yu. A. Making and coordinating decisions in certain procedures of parametric analysis in optimization problems. (Russian) **93b:90093**
Kukhtin, V. V. *see* **Gergel', V. P.; et al.**
Kume, Yasufumi *see* **Inuiguchi, Masahiro**, 93j:90088
Leclerc, Bruno Aggregation of fuzzy preferences: a theoretic Arrow-like approach. **93g:90010**
Lee, Tak C. *see* **Ho, James K.**
Lehtinen, Aarni Recognizing the three best of a sequence. **93g:60090**
Liou, Tian-Shy (*with* Wang, Mao Jiun J.) Ranking fuzzy numbers with integral value. (English summary) **93h:04004**
Liu, Xiao Ping^2 (*with* Zhang, Si Ying) Three-level Stackelberg strategies in linear-quadratic singular systems. (English, Russian and Lithuanian summaries)
Malakooti, Behnam B. (*with* Tandler, Evan C.) An overview of a decision support system for solving discrete MCDM problems under certainty and uncertainty with applications to multiobjective production planning. (English summary)
Nair, K. P. K. *see* **Geetha, S.**
Naitoh, Y. (*with* Furuhashi, T.; Uchikawa, Y.) Variable ordinal structure model for fuzzy reasoning and its application to operational decision priority in product assembly. (English summary) **93h:03025**
Nakamura, Yutaka Multisymmetric structures and nonexpected utility. (English summary) **93i:92022**
Oshime, Yorimasa Perron-Frobenius problem for weakly sublinear maps in a Euclidean positive orthant. **93e:49062**
Pachón, Jacinto González (*with* Ríos-Insúa, Sixto) Characterization of linear rational preference structures.
Paolucci, Massimo (*with* Pesenti, Raffaele) Assessing a new utility/cost function for multiattribute decision making. (English summary)
Pesenti, Raffaele *see* **Paolucci, Massimo**
Piasecki, K. Fuzzy P-measures and their application in decision making. (*see* **93c:90002**)
Polyakova, V. A. *see* **Vasin, A. A.**, (93g:90002)
Ramakrishnan, R. (*with* Rao, C. J. M.) Representations of fuzzy relations with an application to group decision making. (English summary)
Rao, C. J. M. *see* **Ramakrishnan, R.**
Ravindran, A. *see* **Saber, Hussein M.**, 93i:90086
Rhee, WanSoo T. (*with* Talagrand, Michel) A note on the selection of random variables under a sum constraint. **93d:60079**
Ríos-Insúa, Sixto *see* **Pachón, Jacinto González**
Rogatneva, E. A. *see* **Gergel', V. P.; et al.**
Rosendorff, B. Peter *see* **Cameron, Charles M.**, 93j:90145
Saade, Jean J. (*with* Schwarzlander, Harry) Ordering fuzzy sets over the real line: an approach based on decision making under uncertainty. (English summary) **93h:04006**
Saber, Hussein M. (*with* Ravindran, A.) Nonlinear goal programming theory and practice: a survey. (English summary) **93i:90086**
Safra, Zvi (*with* Zilcha, Itzhak) Bargaining solutions without the expected utility hypothesis. (English summary) **93k:90030**
Salukvadze, M. E. *see* **Zhukovskiĭ, V. I.**, 93b:90008
Samet, D. Agreeing to disagree in infinite information structures. **93m:90130**
Sarin, Rakesh (*with* Wakker, Peter) A simple axiomatization of nonadditive expected utility. (English summary) **93m:90021**
Sarkisyan, R. E. Adaptive procedures and the concept of reconciliation of preferences. (Russian. Armenian summary)
Schervish, Mark J. (*with* Seidenfeld, Teddy; Kadane, Joseph B.) Small worlds and state dependent utilities. (English summary) **93j:62008**
Schwarzlander, Harry *see* **Saade, Jean J.**, 93h:04006
Seidenfeld, Teddy *see* **Schervish, Mark J.; et al.**, 93j:62008
Sertel, Murat R. The Nash bargaining solution manipulated by pre-donations is Talmudic. (English summary) **93i:90037**
Shiryaev, V. D. *see* **Zenkevich, N. A.**, 93i:90001
(Stefański, Jacek) *see* **Bargaining and arbitration in conflicts**, 93k:90003
Storcken, Ton *see* **Bossert, Walter**, 93g:90009
Strongin, R. G. *see* **Gergel', V. P.; et al.**

Talagrand, Michel *see* **Rhee, WanSoo T., 93d:60079**
Tandler, Evan C. *see* **Malakooti, Behnam B.**
Uchikawa, Y. *see* **Naitoh, Y.; et al., 93h:03025**
Vasin, A. A. (*with* Polyakova, V. A.) A concept of strategy domination in models of interaction. (Russian. Russian summary) (*see* **93g:90002**)
Verdegay, J. L. *see* **Chanas, S.; et al., 93k:03052**
Vila, Maria Amparo *see* **Chanas, S.; et al., 93k:03052**
Vysotskaya, I. N. *see* **Gergel', V. P.; et al.**
Wakker, Peter Additive representations on rank-ordered sets. I. The algebraic approach. **93a:92021**
— Additive representations on rank-ordered sets. II. The topological approach. (English summary) **93m:92031**
— *see also* **Sarin, Rakesh, 93m:90021**
Wang, Mao Jiun J. *see* **Liou, Tian-Shy, 93h:04004**
Wang, Shou Yang An interactive method for multicriteria decision making. (English summary) (*see* **93d:90005**)
Woodlock, Peter *see* **Arya, Anil; et al.**
Yager, Ronald R. Toward a general theory of information aggregation. (English summary) **93j:68206**
Yang, Miin Shen (*with* Yu, Kai Fun) On existence and strong consistency of a class of fuzzy c-means clustering procedures. (English summary)
Young, Richard A. *see* **Arya, Anil; et al.**
Yu, Ji Ying An algorithm for solving a special kind of mathematical programming problem and its application in finance. (Chinese. English summary)
Yu, Kai Fun *see* **Yang, Miin Shen**
(Zadeh, L. A.) *see* **Zimmermann, H.-J., 93d:04004**
Zenkevich, N. A. (*with* Shiryaev, V. D.) ★ Игры со многими участниками. (Russian. Russian summary) [n-person games] **93i:90001**
Zhan, Yuan Rui An influence diagram with super value nodes. (Chinese. English and Chinese summaries)
Zhang, Li Li *see* **Chang, Da Yong, (93d:90005)**
Zhang, Si Ying *see* **Liu, Xiao Ping²**
Zhukovskii, V. I. (*with* Salukvadze, M. E.) ★ Многокритериальные задачи управления в условиях неопределенности. (Russian) [Multi-objective control problems under conditions of uncertainty] **93b:90008**
Zilcha, Itzhak *see* **Safra, Zvi, 93k:90030**
Zimmermann, H.-J. ★ Fuzzy set theory—and its applications. **93d:04004**

Items listed otherwise than by author

Bargaining and arbitration in conflicts ★ Bargaining and arbitration in conflicts. **93k:90003**
Castiglioncello ★ Knowledge, belief, and strategic interaction. **93i:90006**
Knowledge, belief, and strategic interaction ★ Knowledge, belief, and strategic interaction. **93i:90006**
Special Issue:
Bargaining and arbitration in conflicts ★ Bargaining and arbitration in conflicts. **93k:90003**
Workshop:
Knowledge, Belief, and Strategic Interaction ★ Knowledge, belief, and strategic interaction. **93i:90006**

90A06 Individual preferences

Bossert, Walter (*with* Storcken, Ton) Strategy-proofness of social welfare functions: the use of the Kemeny distance between preference orderings. (English summary) **93g:90009**
— Continuous choice functions and the strong axiom of revealed preference. (English summary) **93m:90004**
Bridges, Douglas S. (*with* Richman, Fred) A recursive counterexample to Debreu's theorem on the existence of a utility function. **93a:90006**
Broome, John A cause of preference is not an object of preference. (English summary)
Ching, Stephen A simple characterization of the uniform rule. (English summary) **93m:90005**
Cook, Wade D. (*with* Kress, Moshe) ★ Ordinal information and preference structures. **93j:90009**
Deissenberg, Christophe Limit cycles in local preference optimization. (English summary) **93f:90010**
— The global failure of local preference optimization. (English summary) **93k:90014**
Fishburn, Peter C. (*with* Lavalle, Irving H.) Nonstandard nontransitive utility on mixture sets. **93c:90010**
— Signed orders and power set extensions. **93b:90013**
Fodor, János C. An axiomatic approach to fuzzy preference modelling. (English summary) **93j:90010**
Giles, Robin A generalization of the theory of subjective probability and expected utility. **93a:90007**
Hindy, Ayman (*with* Huang, Chi-fu; Kreps, David) On intertemporal preferences in continuous time: the case of certainty. (English summary) **93i:90012**
Huang, Chi-fu *see* **Hindy, Ayman; et al., 93i:90012**
Kreps, David *see* **Hindy, Ayman; et al., 93i:90012**
Kress, Moshe *see* **Cook, Wade D., 93j:90009**
Lavalle, Irving H. *see* **Fishburn, Peter C., 93c:90010**
Lin, Y. Joseph The Becker-Brock efficient matching theorem with a supermodular technology defined on an n-lattice. (English summary) **93f:90011**
Perroni, Carlo Homothetic representation of regular nonhomothetic preferences. (English summary)
Richman, Fred *see* **Bridges, Douglas S., 93a:90006**
Storcken, Ton *see* **Bossert, Walter, 93g:90009**
Sugden, Robert An axiomatic foundation for regret theory. (English summary) **93m:90006**
Vincke, Philippe Exploitation of a crisp relation in a ranking problem. **93a:90008**

Items with secondary classifications in 90A06

Bacharach, Michael Backward induction and beliefs about oneself. **93b:90125**
Candeal, Juan Carlos (*with* Induráin Eraso, Esteban; Uriarte, José Ramón) Some issues related to the topological aggregation of preferences. (English summary) **93i:90013**
Clark, Stephen A. Revealed preference and linear utility. (English summary) **93k:90011**
Coletti, G. (*with* Regoli, G.) How can an expert system help in choosing the optimal decision? (English summary) **93j:90019**
Dow, James (*with* Werlang, Sérgio Ribeiro da Costa) Homothetic preferences. **93i:90016**
Fishburn, Peter C. Notes on: "Craven's conjecture" [Soc. Choice Welf. **8** (1991), no. 3, 269–274; MR 92j:90007] by J. S. Kelly. (English summary) **93g:90006**
Hindy, Ayman (*with* Huang, Chi-fu) Intertemporal preferences for uncertain consumption: a continuous time approach. **93c:90027**
Huang, Chi-fu *see* **Hindy, Ayman, 93c:90027**
Induráin Eraso, Esteban *see* **Candeal, Juan Carlos; et al., 93i:90013**
Jeffrey, Richard ★ Probability and the art of judgment. **93e:00006**
Kannai, Yakar I. Nonstandard concave utility functions. **93d:90011**
(Kelly, Jerry S.) *see* **Fishburn, Peter C., 93g:90006**
Lancaster, Tony ★ The econometric analysis of transition data. **93f:90041**
Luenberger, David G. Benefit functions and duality. (English summary) **93h:90006**
McAfee, R. Preston Amicable divorce: dissolving a partnership with simple mechanisms. (English summary) **93e:90023**
Regoli, G. *see* **Coletti, G., 93j:90019**
Ríos Insua, David On the foundations of decision making under partial information. **93d:90007**
Rubinstein, Ariel (*with* Safra, Zvi; Thomson, William L.) On the interpretation of the Nash bargaining solution and its extension to nonexpected utility preferences. (English summary) **93k:90013**
Safra, Zvi *see* **Rubinstein, Ariel; et al., 93k:90013**
Sarin, Rakesh (*with* Wakker, Peter) A simple axiomatization of nonadditive expected utility. (English summary) **93m:90021**
Thomson, William L. *see* **Rubinstein, Ariel; et al., 93k:90013**
Uriarte, José Ramón *see* **Candeal, Juan Carlos; et al., 93i:90013**
Voronin, Yu. A. ★ Начала теории сходства. (Russian) [Elements of similarity theory] **93c:00005**
Wakker, Peter *see* **Sarin, Rakesh, 93m:90021**
Werlang, Sérgio Ribeiro da Costa *see* **Dow, James, 93i:90016**

90A07 Group preferences

Barrett, C. R. (*with* Pattanaik, Prasanta K.; Salles, Maurice) Rationality and aggregation of preferences in an ordinally fuzzy framework. (English summary) **93k:90015**
Blackorby, Charles (*with* Schworm, William) The implications of additive community preferences in a multi-consumer economy. (English summary) **93h:90004**
Candeal, Juan Carlos (*with* Induráin Eraso, Esteban; Uriarte, José Ramón) Some issues related to the topological aggregation of preferences. (English summary) **93i:90013**
Induráin Eraso, Esteban *see* **Candeal, Juan Carlos; et al., 93i:90013**
Leclerc, Bruno Aggregation of fuzzy preferences: a theoretic Arrow-like approach. **93g:90010**
Pattanaik, Prasanta K. *see* **Barrett, C. R.; et al., 93k:90015**
Roberts, Fred S. On the indicator function of the plurality function. **93a:90009**
Salles, Maurice *see* **Barrett, C. R.; et al., 93k:90015**
Schworm, William *see* **Blackorby, Charles, 93h:90004**
Uriarte, José Ramón *see* **Candeal, Juan Carlos; et al., 93i:90013**

Items with secondary classifications in 90A07

Bandyopadhyay, Taradas (*with* Samuelson, Larry) Weakly implementable social choice rules. (English summary) **93m:90007**
Bossert, Walter (*with* Storcken, Ton) Strategy-proofness of social welfare functions: the use of the Kemeny distance between preference orderings. (English summary) **93g:90009**
Cook, Wade D. (*with* Kress, Moshe) ★ Ordinal information and preference structures. **93j:90009**
Greenberg, Joseph On the sensitivity of von Neumann and Morgenstern abstract stable sets: the stable and the individual stable bargaining set. (English summary) **93f:90192**
Hindy, Ayman (*with* Huang, Chi-fu) Intertemporal preferences for uncertain consumption: a continuous time approach. **93c:90027**
Huang, Chi-fu *see* **Hindy, Ayman, 93c:90027**
Kress, Moshe *see* **Cook, Wade D., 93j:90009**
McCall, Brian P. A note on the identifiability of a dynamic binary choice model with state dependence. (English summary) **93k:62216**
Mookherjee, Dilip (*with* Reichelstein, Stefan) The revelation approach to Nash implementation. (English summary) **93g:90012**
Nermuth, Manfred Two-stage discrete aggregation: the Ostrogorski paradox and related phenomena. **93j:90015**
Ovchinnikov, Sergei Social choice and Lukasiewicz logic. **93h:90007**
Reichelstein, Stefan *see* **Mookherjee, Dilip, 93g:90012**
Saari, Donald G. Symmetry extensions of "neutrality". I. Advantage to the Condorcet loser. (English summary) **93k:90016**
Samuelson, Larry *see* **Bandyopadhyay, Taradas, 93m:90007**
Storcken, Ton *see* **Bossert, Walter, 93g:90009**

90A08 Social choice

Abreu, Dilip (*with* Matsushima, Hitoshi) Virtual implementation in iteratively undominated strategies: complete information. (English summary) **93f:90012**
Armstrong, Thomas E. Hierarchical Arrow social welfare functions. **93d:90008**
Bandyopadhyay, Taradas (*with* Samuelson, Larry) Weakly implementable social choice rules. (English summary) **93m:90007**
Banerjee, Asis Rational choice under fuzzy preferences: the Orlovsky choice function. (English summary)
Banks, Jeffrey S. (*with* Bordes, Georges; Le Breton, Michel) Covering relations, closest orderings and Hamiltonian bypaths in tournaments. **93b:90014**

Barthélémy, Jean-Pierre (*with* McMorris, F. R.; Powers, R. C.) Dictatorial consensus functions on n-trees. (English summary) **93j:90011**
Beja, Avraham Arrow and Gibbard-Satterthwaite revisited: extended domains and shorter proofs. (English summary) **93m:90008**
Berg, Sven Condorcet's jury theorem, dependency among jurors. (English summary) **93j:90012**
Bordes, Georges (*with* Le Breton, Michel; Salles, Maurice) Gillies and Miller's subrelations of a relation over an infinite set of alternatives: general results and applications to voting games. (English summary) **93g:90011**
— *see also* **Banks, Jeffrey S.; et al., 93b:90014**
Bossert, Walter (*with* Weymark, John A.) Generalized median social welfare functions. (English summary) **93j:90013**
Campbell, Donald E. The Arrow and Plott independence conditions. (English summary) **93e:90005**
— Implementation of social welfare functions. (English summary) **93d:90009**
— Transitive social choice in economic environments. **93f:90013**
— Quasitransitive intergenerational choice for economic environments. **93f:90014**
— Public goods and Arrovian social choice. (English summary) **93h:90005**
Clark, Stephen A. The representative agent model of probabilistic social choice. **93b:90015**
Denicolò, Vincenzo Fixed agenda social choice theory: correspondence and impossibility theorems for social choice correspondences and social decision functions. (English summary) **93m:90009**
Glover, Jonathani Approximate implementation in the absence of externalities and aggregate feasibility constraints. (English summary) **93e:90006**
Grant, Simon (*with* Kajii, Atsushi; Polak, Ben) Many good choice axioms: when can many-good lotteries be treated as money lotteries? (English summary) **93e:90007**
Haller, Hans Limitations of the revelation principle. (English summary)
Herrero, Maria José (*with* Srivastava, Sanjay) Implementation via backward induction. **93c:90011**
Jackson, Matthew O. (*with* Srivastava, Sanjay) On two-person Nash implementable choice functions. (English summary)
Kajii, Atsushi *see* **Grant, Simon; et al., 93e:90007**
Kelly, Jerry S. Abelian symmetry groups in social choice. (English summary) **93j:90014**
— Almost all social choice rules are highly manipulable, but a few aren't. (English summary) **93m:90010**
Le Breton, Michel *see* **Banks, Jeffrey S.; et al., 93b:90014** *and* **Bordes, Georges; et al., 93g:90011**
Luenberger, David G. Benefit functions and duality. (English summary) **93h:90006**
Matsushima, Hitoshi *see* **Abreu, Dilip, 93f:90012**
McMorris, F. R. *see* **Barthélémy, Jean-Pierre; et al., 93j:90011**
Mookherjee, Dilip (*with* Reichelstein, Stefan) The revelation approach to Nash implementation. (English summary) **93g:90012**
Nagahisa, Ryo-ichi Acyclic and continuous social choice in T_1 connected spaces. Including its application to economic environments. **93a:90010**
— Walrasian social choice in a large economy. (English summary) **93e:90008**
Nermuth, Manfred Two-stage discrete aggregation: the Ostrogorski paradox and related phenomena. **93j:90015**
Nieto, Jorge The lexicographic egalitarian solution on economic environments. (English summary) **93e:90009**
Ovchinnikov, Sergei Social choice and Lukasiewicz logic. **93h:90007**
— (*with* Roubens, Marc) On fuzzy strict preference, indifference, and incomparability relations. (English summary) **93f:90015**
Petersen, Ivar Conditions for equilibrium and stability of the state of a multi-party political system. (Russian. Russian summary) **93f:90016**
Polak, Ben *see* **Grant, Simon; et al., 93e:90007**
Powers, R. C. *see* **Barthélémy, Jean-Pierre; et al., 93j:90011**
Reichelstein, Stefan *see* **Mookherjee, Dilip, 93g:90012**
Roubens, Marc *see* **Ovchinnikov, Sergei, 93f:90015**
Saari, Donald G. Symmetry extensions of "neutrality". I. Advantage to the Condorcet loser. (English summary) **93k:90016**
Salles, Maurice *see* **Bordes, Georges; et al., 93g:90011**
Samuelson, Larry *see* **Bandyopadhyay, Taradas, 93m:90007**
Segal, Uzi Additively separable representations on nonconvex sets. **93c:90012**
Sen, Amartya Internal consistency of choice. (English summary) **93m:90011**
Sjöström, Tomas Implementation in perfect equilibria. (English summary) **93j:90016**
Srivastava, Sanjay *see* **Herrero, Maria José, 93c:90011** *and* **Jackson, Matthew O.**
Starmer, Chris Testing new theories of choice under uncertainty using the common consequence effect. (English summary)
Suck, Reinhard Geometric and combinatorial properties of the polytope of binary choice probabilities. **93e:90010**
Wettstein, David Continuous implementation in economies with incomplete information. **93j:90017**
Weymark, John A. *see* **Bossert, Walter, 93j:90013**
Yamato, Takehiko On Nash implementation of social choice correspondences. **93c:90013**
Zwicker, William S. The voters' paradox, spin, and the Borda count. **93f:90017**

Items with secondary classifications in 90A08

Abdou, J. (*with* Keiding, H.) ★ Effectivity functions in social choice. **93m:90001**
Austen-Smith, David (*with* Wright, John R.) Competitive lobbying for a legislator's vote. (English summary) **93e:90017**
Barrett, C. R. (*with* Pattanaik, Prasanta K.; Salles, Maurice) Rationality and aggregation of preferences in an ordinally fuzzy framework. (English summary) **93k:90015**
Danilov, V. I. Implementation via Nash equilibria. **93a:90097**
Fishburn, Peter C. Signed orders and power set extensions. **93b:90013**
— Notes on: "Craven's conjecture" [Soc. Choice Welf. **8** (1991), no. 3, 269–274; MR 92j:90007] by J. S. Kelly. (English summary) **93g:90006**
Gul, Faruk Savage's theorem with a finite number of states. **93c:90017**
Hellwig, Martin Fully revealing outcomes in signalling models: an example of nonexistence when the type space is unbounded. (English summary) **93f:90048**
Jackson, Matthew O. Implementation in undominated strategies: a look at bounded mechanisms. (English summary) **93f:90007**
Keiding, H. *see* **Abdou, J., 93m:90001**
(Kelly, Jerry S.) *see* **Fishburn, Peter C., 93g:90006**
Lepelley, Dominique Une caractérisation du vote à la majorité simple. (English and French summaries) [A characterization of plurality voting] **93h:90026**
Luce, R. Duncan Singular points in generalized concatenation structures that otherwise are homogeneous. (English summary) **93i:90011**
Moreno, Diego (*with* Walker, Mark) Nonmanipulable voting schemes when participants' interests are partially decomposable. **93c:90025**
Pattanaik, Prasanta K. *see* **Barrett, C. R.; et al., 93k:90015**
Perny, P. (*with* Roy, Bernard) The use of fuzzy outranking relations in preference modelling. (English summary) **93f:90008**
Roberts, Fred S. On the indicator function of the plurality function. **93a:90009**
Roy, Bernard *see* **Perny, P., 93f:90008**
Salles, Maurice *see* **Barrett, C. R.; et al., 93k:90015**
Tovey, Craig A. A polynomial-time algorithm for computing the yolk in fixed dimension. (English summary) **93j:90147**
Walker, Mark *see* **Moreno, Diego, 93c:90025**
Wright, John R. *see* **Austen-Smith, David, 93e:90017**

90A09 Finance, portfolios, investment

Banai, Miklós (*with* Lukács, Béla) Economic examples for exactly solvable variational problems. (Hungarian. English summary) **93b:90016**
Barles, Guy (*with* Burdeau, Julien; Romano, Marc; Samsœn, Nicolas) Estimation de la frontière libre des options américaines au voisinage de l'échéance. (English and French summaries) [Estimate on the free boundary of American puts near maturity]
Beccacece, F. (*with* Li Calzi, M.) On the decomposition of stochastic discounted cash flows. (English and Italian summaries) **93k:90017**
Bertocchi, Maria (*with* Cavalli, Enrico; Zambruno, Giovanni) Parallel and symbolic computation in finance. (English summary) (*see* **93g:65178**)
Biacino, Loredana (*with* Simonelli, M. R.) The internal rate of return of fuzzy cash flow. (English and Italian summaries)
— (*with* Simonelli, M. R.) The internal rate of return of fuzzy cash flows. (English summary)
Blass, Joseph (*with* Padmaraj, Raj A.; Rohatgi, Vijay K.) The effect of truncation on the UMVUE of the Black-Scholes option price. (English summary) **93i:90014**
Burdeau, Julien *see* **Barles, Guy; et al.**
Burnell, Stephen J. The value of money in an overlapping generations model: a note. (English summary) **93k:90018**
Cass, David Sunspots and incomplete financial markets: the general case. **93d:90010**
Cavalli, Enrico *see* **Bertocchi, Maria; et al., (93g:65178)**
Colwell, David B. (*with* Elliott, Robert James) Martingale representation and nonattainable contingent claims. **93g:90013**
Courty, Pascal (*with* Lasry, Jean-Michel; Morel, Jean-Michel; Yip, Cheuk Wai) Immunisation financière, incomplétude des marchés et ondelettes. (English and French summaries) [Financial immunization, market incompleteness and wavelets]
Cox, John C. (*with* Huang, Chi-fu) A continuous-time portfolio turnpike theorem. **93h:90008**
Dana, Rose-Anne (*with* Pontier, Monique) On existence of an Arrow-Radner equilibrium in the case of complete markets. A remark. **93j:90018**
Duffie, Darrell (*with* Stanton, Richard) Pricing continuously resettled contingent claims. **93h:90009**
Elliott, Robert James *see* **Colwell, David B., 93g:90013**
Ghezzi, Luca Luigi Bifurcations in a stock market model. (English summary) **93h:90010**
Hastings, Kevin J. Impulse control of portfolios with jumps and transaction costs. **93b:90017**
Huang, Chi-fu (*with* Pagès, Henri) Optimal consumption and portfolio policies with an infinite horizon: existence and convergence. **93b:90018**
— *see also* **Cox, John C., 93h:90008**
Jensen, David L. *see* **King, Alan J.**
Ji, D. M. (*with* Yin, Gang George) Weak convergence of term structure movements and the connection of prices and interest rates. (English summary)
King, Alan J. (*with* Jensen, David L.) Linear-quadratic efficient frontiers for portfolio optimization. (English summary)
Kivijärvi, Hannu (*with* Soismaa, Margareta) Investment, harvest, and taxation strategies of the forest sector: a differential game approach with a computational decision-aid. (*see* **93d:90003**)
Konno, Hiroshi (*with* Suzuki, Ken-ichi) A fast algorithm for solving large-scale mean-variance models by compact factorization of covariance matrices. **93c:90014**
Lasry, Jean-Michel *see* **Courty, Pascal; et al.**
Li Calzi, M. *see* **Beccacece, F., 93k:90017**
Lukács, Béla *see* **Banai, Miklós, 93b:90016**
Masum, Rashid M. (*with* Tabucanon, Mario T.) An integrated multi-criteria approach for selecting priority industries for investment promotion. (English summary)
Mills, Jeffrey A. Making inflexible investment decisions with incomplete information. (English summary)
Morel, Jean-Michel *see* **Courty, Pascal; et al.**
Morvai, Gusztáv Portfolio choice based on the empirical distribution. (English summary) **93i:90015**
Nairay, Alain Dynamic portfolio choice under asset price lognormality. (English summary)
Padmaraj, Raj A. *see* **Blass, Joseph; et al., 93i:90014**
Pagès, Henri *see* **Huang, Chi-fu, 93b:90018**
Pontier, Monique *see* **Dana, Rose-Anne, 93j:90018**
Presman, È. L. *see* **Sethi, Suresh P.; et al., 93f:90018**
Prigent, Jean-Luc Étude de quelques modèles financiers en temps discret et en temps continu. Convergence en loi des stratégies optimales. [Study of some discrete- and continuous-time financial models. Convergence in law of optimal strategies] **93a:90011**
Rohatgi, Vijay K. *see* **Blass, Joseph; et al., 93i:90014**

Romano, Marc *see* **Barles, Guy; et al.**
Rotando, Louis M. (*with* Thorp, Edward O.) The Kelly criterion and the stock market. **93h:90011**
Samsœn, Nicolas *see* **Barles, Guy; et al.**
Schweizer, Martin Martingale densities for general asset prices. **93h:90012**
Sethi, Suresh P. (*with* Taksar, Michael I.; Presman, E. L.) Explicit solution of a general consumption/portfolio problem with subsistence consumption and bankruptcy. **93f:90018**
— (*with* Taksar, Michael I.) Infinite-horizon investment consumption model with a nonterminal bankruptcy. **93c:90015**
Shreve, Steven E. *see* **Xu, Gan-Lin, 93c:90016a** *and* **93c:90016b**
Simonelli, M. R. *see* **Biacino, Loredana**
Soismaa, Margareta *see* **Kivijärvi, Hannu,** (**93d:90003**)
Stanton, Richard *see* **Duffie, Darrell, 93h:90009**
Suzuki, Ken-ichi *see* **Konno, Hiroshi, 93c:90014**
Tabucanon, Mario T. *see* **Masum, Rashid M.**
Taksar, Michael I. *see* **Sethi, Suresh P., 93c:90015** *and* **93f:90018**
Thorp, Edward O. *see* **Rotando, Louis M., 93h:90011**
Xu, Gan-Lin (*with* Shreve, Steven E.) A duality method for optimal consumption and investment under short-selling prohibition. I. General market coefficients. **93c:90016a**
— (*with* Shreve, Steven E.) A duality method for optimal consumption and investment under short-selling prohibition. II. Constant market coefficients. **93c:90016b**
Yeung, David A game theoretical approach to public investment versus private investment. (English summary) (*see* **93d:90003**)
Yin, Gang George *see* **Ji, D. M.**
Yip, Cheuk Wai *see* **Courty, Pascal; et al.**
Zambruno, Giovanni *see* **Bertocchi, Maria; et al.,** (**93g:65178**)

Items with secondary classifications in 90A09

Algoet, Paul H. Universal schemes for prediction, gambling and portfolio selection. **93d:60075**
Blain, Marie *see* **Marcotte, Patrice,** (**93d:90003**)
Corbae, Dean Relaxing the cash-in-advance constraint at a fixed cost: are simple trigger-target portfolio rules optimal? (English summary)
Cvitanić, Jakša (*with* Karatzas, Ioannis) Convex duality in constrained portfolio optimization. (English summary) **93j:90068**
Diem Ho Quadratic programming for portfolio optimization. (English summary)
Elliott, Robert James (*with* Kopp, P. Ekkehard) Equivalent martingale measures for bridge processes. **93a:60064**
Geman, Hélyette (*with* Yor, Marc) Quelques relations entre processus de Bessel, options asiatiques et fonctions confluentes hypergéométriques. (English summary) [Some relations between Bessel processes, Asian options, and confluent hypergeometric functions] **93b:60183**
Gutiérrez Díez, José Manuel On the gearing adjustment. An axiomatic approach. (English summary) **93h:90053**
Jewitt, Ian Applications of likelihood ratio orderings in economics. (English summary) **93i:90008**
Karatzas, Ioannis *see* **Ocone, Daniel L., 93b:60098** *and* **Cvitanić, Jakša, 93j:90068**
Kopp, P. Ekkehard *see* **Elliott, Robert James, 93a:60064**
Marcotte, Patrice (*with* Blain, Marie) A Stackelberg-Nash model for the design of deregulated transit system. (*see* **93d:90003**)
Ocone, Daniel L. (*with* Karatzas, Ioannis) A generalized Clark representation formula, with application to optimal portfolios. **93b:60098**
Östermark, Ralf Solving a linear multiperiod portfolio problem by interior-point methodology. (English summary) **93h:90061**
Quiggin, John Efficient sets with and without the expected utility hypothesis: a generalization. **93h:90029**
Rogers, L. C. G. (*with* Satchell, S. E.) Estimating variance from high, low and closing prices. **93e:62217**
Satchell, S. E. *see* **Rogers, L. C. G., 93e:62217**
Shtil'man, Michael S. *see* **Zenios, Stavros A.**
Xue, Xing Xiong Martingale representation for a class of processes with independent increments and its applications. **93g:60095**
Yor, Marc *see* **Geman, Hélyette, 93b:60183**
Zenios, Stavros A. (*with* Shtil'man, Michael S.) Constructing optimal samples from a binomial lattice. (English summary)

90A10 Utility theory

Bardsley, Peter Local utility functions. (English summary) **93k:90019**
Beja, Avraham (*with* Gilboa, Itzhak) Numerical representations of imperfectly ordered preferences (a unified geometric exposition). (English summary) **93f:90019**
Coletti, G. (*with* Regoli, G.) How can an expert system help in choosing the optimal decision? (English summary) **93j:90019**
Corbae, Dean Relaxing the cash-in-advance constraint at a fixed cost: are simple trigger-target portfolio rules optimal? (English summary)
Dow, James (*with* Werlang, Sérgio Ribeiro da Costa) Homothetic preferences. **93i:90016**
Duffie, Darrell (*with* Lions, Pierre-Louis) PDE solutions of stochastic differential utility. (English summary) **93j:90020**
Ehtamo, Harri (*with* Ruusunen, Jukka; Hämäläinen, Raimo P.) On intertemporal cooperation—a dynamic stochastic problem with nonadditive group utility function. (*see* **93d:90003**)
Fishburn, Peter C. A general axiomatization of additive measurement with applications. (English summary) **93f:90020**
Fuhrken, G. (*with* Richter, M. K.) Polynomial utility. **93i:90017**
Fukami, Satoru *see* **Yoneda, Minoru; et al., 93m:90013**
Furuya, Tatsumi *see* **Nitta, Tohru, 93h:90013**
Gilboa, Itzhak *see* **Beja, Avraham, 93f:90019**
Grabisch, Michel *see* **Yoneda, Minoru; et al., 93m:90013**
Gul, Faruk Savage's theorem with a finite number of states. **93c:90017**
Hämäläinen, Raimo P. *see* **Ehtamo, Harri; et al.,** (**93d:90003**)
Kannai, Yakar I. Nonstandard concave utility functions. **93d:90011**
Karni, Edi Utility theory with probability-dependent outcome valuation. **93e:90011**
Kimball, Miles S. Standard risk aversion. (English summary)
Kusumoto, Sho-Ichiro Nice demand and concavifiable smooth preferences—determinates of a utility function. (English summary) **93k:90020**
Lahiri, Somdeb Coalitional fairness and distortion of utilities. (English summary)
Lions, Pierre-Louis *see* **Duffie, Darrell, 93j:90020**
Nitta, Tohru (*with* Furuya, Tatsumi) An analysis of a stochastic resource allocation model with a nonnegative production function. (Japanese. English summary) **93h:90013**
Regoli, G. *see* **Coletti, G., 93j:90019**
Richter, M. K. *see* **Fuhrken, G., 93i:90017**
Ruusunen, Jukka *see* **Ehtamo, Harri; et al.,** (**93d:90003**)
Safra, Zvi (*with* Segal, Uzi) Dominance axioms and multivariate nonexpected utility preferences. (English summary) **93m:90012**
Segal, Uzi *see* **Safra, Zvi, 93m:90012**
Trockel, Walter An alternative proof for the linear utility representation theorem. **93c:90018**
Wakker, Peter Characterizing stochastically monotone functions by multiattribute utility theory.
Werlang, Sérgio Ribeiro da Costa *see* **Dow, James, 93i:90016**
Yoneda, Minoru (*with* Fukami, Satoru; Grabisch, Michel) Interactive determination of a utility function represented as a fuzzy integral. (English summary) **93m:90013**

Items with secondary classifications in 90A10

Chew, Soo Hong (*with* Nishimura, Naoko) Differentiability, comparative statics, and nonexpected utility preferences. (English summary) **93f:90040**
Clark, Stephen A. Revealed preference and linear utility. (English summary) **93k:90011**
Cohen, Michèle Security level, potential level, expected utility: a three-criteria decision model under risk. (English summary) **93h:90002**
Duffie, Darrell (*with* Epstein, Larry G.) Stochastic differential utility. **93e:90020**
Epstein, Larry G. *see* **Duffie, Darrell, 93e:90020**
Fishburn, Peter C. On nonstandard nontransitive additive utility. (English summary) **93c:90004**
— (*with* Lavalle, Irving H.) Multiattribute expected utility without the Archimedean axiom. (English summary) **93j:90007**
Hindy, Ayman (*with* Huang, Chi-fu; Kreps, David) On intertemporal preferences in continuous time: the case of certainty. (English summary) **93i:90012**
Huang, Chi-fu *see* **Hindy, Ayman; et al., 93i:90012**
Kelsey, David Risk and risk aversion for state-dependent utility. **93i:90033**
Kreps, David *see* **Hindy, Ayman; et al., 93i:90012**
Lavalle, Irving H. *see* **Fishburn, Peter C., 93j:90007**
Le Breton, Michel Stochastic orders in welfare economics. (English summary) **93i:90009**
Legros, Patrick Information revelation in repeated delegation. (English summary) **93k:90123**
Moulin, Hervé An application of the Shapley value to fair division with money. (English summary) **93m:90119**
Nielsen, Lars Tyge The utility of infinite menus. (English summary) **93c:90029**
Nishimura, Naoko *see* **Chew, Soo Hong, 93f:90040**
Resnick, Sidney I. (*with* Roy, Rishin) Random usc functions, max-stable processes and continuous choice. **93e:60009**
Roy, Rishin *see* **Resnick, Sidney I., 93e:60009**
Rubinstein, Ariel (*with* Safra, Zvi; Thomson, William L.) On the interpretation of the Nash bargaining solution and its extension to nonexpected utility preferences. (English summary) **93k:90013**
Safra, Zvi *see* **Rubinstein, Ariel; et al., 93k:90013**
Sarin, Rakesh (*with* Wakker, Peter) A simple axiomatization of nonadditive expected utility. (English summary) **93m:90021**
Scarsini, Marco Dominance conditions in nonadditive expected utility theory. **93g:90025**
Schoemaker, Paul J. H. Subjective expected utility theory revisited: a reductio ad absurdum paradox.
(Skiadas, Costis) *see* **Duffie, Darrell, 93e:90020**
Suda, Shinichi (*with* Tallon, Jean-Marc; Villanacci, Antonio) Real indeterminacy of equilibria in a sunspot economy with inside money. **93c:90022**
Tallon, Jean-Marc *see* **Suda, Shinichi; et al., 93c:90022**
Thomson, William L. *see* **Rubinstein, Ariel; et al., 93k:90013**
Villanacci, Antonio *see* **Suda, Shinichi; et al., 93c:90022**
Wakker, Peter Continuity of transformations. **93b:54011**
— *see also* **Sarin, Rakesh, 93m:90021**

90A11 Production theory, theory of the firm

Baye, Michael R. (*with* Kovenock, Dan; de Vries, Casper G.) It takes two to tango: equilibria in a model of sales. (English summary) **93g:90014**
Boyd, John H., III (*with* McKenzie, Lionel W.) The existence of competitive equilibrium over an infinite horizon with production and general consumption sets. (English summary) **93k:90021**
Deng, Shu Hui (*with* Yang, She Tang) A model for medium- or long-term planning. (English summary)
Gale, Douglas Standard securities. (English summary) **93f:90021**
Galor, Oded (*with* Tsiddon, Daniel) Transitory productivity shocks and long-run output. (English summary) **93f:90022**
Hopenhayn, Hugo A. Entry, exit, and firm dynamics in long run equilibrium. (English summary) **93e:90012**
— Exit, selection, and the value of firms.
Iritani, Jun (*with* Nagatani, Hiroaki) A neoclassical foundation of the nonlinear input-output model. (English summary) **93f:90023**
Jackson, Peter L. *see* **Tunçel, Levent**
Kovenock, Dan *see* **Baye, Michael R.; et al., 93g:90014**

Malliaris, A. G. (*with* Stefani, Silvana) Heterogeneous discount rates: a generalization of Hotelling's rule. (*see* **93d:90003**)
Matloka, Marian Subjective valuations in a production model. (English summary) **93m:90014**
McKenzie, Lionel W. *see* **Boyd, John H., III, 93k:90021**
Nagatani, Hiroaki *see* **Iritani, Jun, 93f:90023**
Newman, Donald J. (*with* Primak, M. E.) Complexity of circumscribed and inscribed ellipsoid methods for solving equilibrium economical models. (English summary) **93j:90021**
Overgaard, Per Baltzer Adverse producer incentives and product quality when consumers are short-term players. (English summary)
Pérez, Miguel A. Incentive strategies in an inter-firm coordination arrangement. (English summary) (*see* **93d:90003**)
Primak, M. E. *see* **Newman, Donald J., 93j:90021**
Stefani, Silvana *see* **Malliaris, A. G., (93d:90003)**
Tan, Guofu Entry and R & D in procurement contracting. (English summary) **93f:90024**
Tsiddon, Daniel *see* **Galor, Oded, 93f:90022**
Tunçel, Levent (*with* Jackson, Peter L.) On the convexity of a function related to the Wagner-Whitin model. (English summary)
de Vries, Casper G. *see* **Baye, Michael R.; et al., 93g:90014**
Yang, She Tang *see* **Deng, Shu Hui**

Items with secondary classifications in 90A11

Benhabib, Jess (*with* Radner, Roy) The joint exploitation of a productive asset: a game-theoretic approach. **93c:90120**
Bonnisseau, Jean-Marc (*with* Cornet, Bernard) General equilibrium theory with increasing returns: the existence problem. **93d:90012**
Cornet, Bernard *see* **Bonnisseau, Jean-Marc, 93d:90012**
Goldman, Alvin I. (*with* Shaked, Moshe) Results on inquiry and truth possession. **93c:62010**
Isac, George Iterative methods for the general order complementarity problem. **93f:90169**
Kamien, Morton I. (*with* Oren, Shmuel S.; Tauman, Yair) Optimal licensing of cost-reducing innovation. (English summary) **93i:90034**
Khenkin, G. M. (*with* Shananin, A. A.) The Bernstein theorems for the Fantappiè indicatrix and their applications to mathematical economics. **93d:44004**
Kolpin, Van Shared facility games with variable utilization. (English summary)
Kramarz, Francis (*with* Ponssard, Jean-Pierre) Standards of behavior and time generate tacit cooperation in a hierarchical relationship. (English and French summaries) **93f:90193**
Mirzoakhmedov, F. ★ Математические модели и методы управления производством с учетом случайных факторов. (Russian) [Mathematical models and methods for production control taking random factors into account] **93c:90001**
Oren, Shmuel S. *see* **Kamien, Morton I.; et al., 93i:90034**
Ponssard, Jean-Pierre *see* **Kramarz, Francis, 93f:90193**
Radner, Roy *see* **Benhabib, Jess, 93c:90120**
Reiko, Aoki (*with* Reitman, David) Simultaneous signaling through investment in an R & D game with private information. **93b:90117**
Reitman, David *see* **Reiko, Aoki, 93b:90117**
Shaked, Moshe *see* **Goldman, Alvin I., 93c:62010**
Shananin, A. A. *see* **Khenkin, G. M., 93d:44004**
Tauman, Yair *see* **Kamien, Morton I.; et al., 93i:90034**

90A12 Price theory and market structure

Allen, Beth (*with* Hellwig, Martin) Bertrand-Edgeworth duopoly with proportional residual demand. (English summary) **93h:90014**
Bala, Venkatesh (*with* Majumdar, Mukul) Chaotic tatonnement. (English summary) **93g:90015**
El Karoui, Nicole *see* **Jeanblanc-Picqué, Monique; et al., 93c:90019**
Furth, D. Equilibria in markets with product differentiation and free entry. **93j:90022**
Hellwig, Martin *see* **Allen, Beth, 93h:90014**
Ingersoll, Jonathan E., Jr. Optimal consumption and portfolio rules with intertemporally dependent utility of consumption.
Jeanblanc-Picqué, Monique (*with* El Karoui, Nicole; Viswanathan, Ravi) Bounds for the price of options. **93c:90019**
Kolpin, Van Shared facility games with variable utilization. (English summary)
Majumdar, Mukul *see* **Bala, Venkatesh, 93g:90015**
McLennan, Andrew (*with* Sonnenschein, Hugo) Sequential bargaining as a noncooperative foundation for Walrasian equilibrium. **93a:90012**
McMillan, John (*with* Zinde-Walsh, Victoria) Inflation and the timing of price changes. (English summary) **93e:90013**
Reitzes, James D. Quality choice, trade policy, and firm incentives. (English summary) **93f:90025**
Shao, Pin Zong The problem of allocation of profits in the price formation process in mathematical economics. (Chinese. English summary)
Shreve, Steven E. Martingales and the theory of capital asset pricing. (*see* **93e:90003**)
Sidorov, A. V. *see* **Vasil'ev, V. A.[1]**
Sonnenschein, Hugo *see* **McLennan, Andrew, 93a:90012**
Spulber, Daniel F. Optimal nonlinear pricing and contingent contracts. (English summary) **93h:90015**
von Thadden, Ernst-Ludwig Optimal pricing against a simple learning rule. (English summary) **93f:90026**
Vasil'ev, V. A.[1] (*with* Sidorov, A. V.) The existence of consistent states under unlimited price flexibility. (Russian)
Viswanathan, Ravi *see* **Jeanblanc-Picqué, Monique; et al., 93c:90019**
Zhang, Wei-Bin Endogenous fluctuations of actual prices near natural ones in a classical growth model. (English summary) **93g:90016**
Zinde-Walsh, Victoria *see* **McMillan, John, 93e:90013**

Items with secondary classifications in 90A12

Cass, David Sunspots and incomplete financial markets: the general case. **93d:90010**
von Hagen, Jürgen Policy-delegation and fixed exchange rates. (English summary)
Kravvaritis, Dimitrios (*with* Pantelides, George; Papageorgiou, Nikolaos S.) Existence of support prices for a discrete time growth model with uncertainty. (English summary) **93h:90022**
Magill, M. (*with* Quinzii, M.) Real effects of money in general equilibrium. **93f:90032**
Mandy, David M. Nonuniform Bertrand competition. (English summary) **93m:90024**
Pantelides, George *see* **Kravvaritis, Dimitrios; et al., 93h:90022**
Papageorgiou, Nikolaos S. *see* **Kravvaritis, Dimitrios; et al., 93h:90022**
Polemarchakis, H. M. (*with* Siconolfi, P.) Competitive equilibria without free disposal or nonsatiation. (English summary)
Quinzii, M. *see* **Magill, M., 93f:90032**
Rauscher, Michael Cartel instability and periodic price shocks. (English summary)
Siconolfi, P. *see* **Polemarchakis, H. M.**

90A14 Equilibrium: general theory

Allen, Beth (*with* Van Zandt, Timothy) Uniform continuity of information combination. A corrigendum: "Neighboring information and distributions of agents' characteristics under uncertainty" [J. Math. Econom. **12** (1983), no. 1, 63–101; MR 85e:90012] by Allen. (English summary) **93j:90023**
Balasko, Yves The set of regular equilibria. (English summary) **93i:90018**
Becker, Robert A. (*with* Bercovici, Hari; Foias, Ciprian) Weak Pareto optimality and the approximate support property. (English summary) **93h:90016**
Bekmet'ev, A. R. The influence of fines on the behavior of a two-sector economic model. (Russian. Russian summary)
Bercovici, Hari *see* **Becker, Robert A.; et al., 93h:90016**
Bonnisseau, Jean-Marc (*with* Cornet, Bernard) General equilibrium theory with increasing returns: the existence problem. **93d:90012**
— Existence of equilibria in the presence of increasing returns: a synthesis. (English summary) **93f:90027**
Buckley, James J. Solving fuzzy equations in economics and finance. (English summary)
Candeal, Juan Carlos (*with* Hervés, Carlos; Induráin Eraso, Esteban) Applications économiques des suites dans les espaces vectoriels topologiques. (English summary) [Applications in economics of sequences in topological vector spaces] **93j:90024**
Chari, V. V. (*with* Kehoe, Patrick J.) Sustainable plans and mutual default. (English summary) **93h:90017**
Conze, A. (*with* Lasry, Jean-Michel; Scheinkman, J. A.) A system of nonlinear functional-differential equations arising in an equilibrium model of an economy with borrowing constraints. (French summary) **93a:90013**
Cornet, Bernard *see* **Bonnisseau, Jean-Marc, 93d:90012**
Cromme, Ludwig J. (*with* Diener, Immo) Fixed point theorems for discontinuous mapping. **93d:90013**
Diener, Immo *see* **Cromme, Ludwig J., 93d:90013**
Ding, Xie Ping (*with* Kim, Won Kyu; Tan, Kok-Keong) Equilibria of noncompact generalized games with $\mathscr{L}^*$-majorized preference correspondences. **93d:90014**
Dohtani, Akitaka Global stability of the competitive economy involving complementary relations among commodities. (English summary) **93k:90022**
Dudey, Marc Dynamic Edgeworth-Bertrand competition.
Engel, Charles The risk premium and the liquidity premium in foreign exchange markets. (English summary)
Fisher, Eric O'N. Sustained growth in the model of overlapping generations. (English summary) **93f:90028**
Flaschel, Peter Dressing the emperor in a new dynamic outfit. (English summary) **93f:90029**
Foias, Ciprian *see* **Becker, Robert A.; et al., 93h:90016**
Gao, Tang An (*with* Wang, Ze Ke) A perturbation free PL homotopy method for economic equilibria. (English summary) **93i:90019**
Gekker, Ruvin On the strategic inconsistency of the meta-rights approach. (English summary) **93f:90030**
Gorelik, V. A. (*with* Rulev, G. V.) A conversion model. (Russian. Russian summary) (*see* **93c:49002**)
Groot, Fons The feedback Stackelberg equilibrium in the cartel-versus-fringe model. (English summary) (*see* **93d:90003**)
Hervés, Carlos *see* **Candeal, Juan Carlos; et al., 93j:90024**
Huo, Teh Ming A corrigendum: "Money and interest in a cash-in-advance economy" [Econometrica **55** (1987), no. 3, 491–513; MR 88c:90030] by R. E. Lucas, Jr. and N. L. Stokey. **93d:90015**
Induráin Eraso, Esteban *see* **Candeal, Juan Carlos; et al., 93j:90024**
Jouini, Elyes Structure de l'ensemble des équilibres d'une économie productive. (English summary) [Structure of the equilibrium set of a production economy] **93f:90031**
— An index theorem for nonconvex production economies. **93m:90015**
— The graph of the Walras correspondence: the production economies case. (English summary) **93j:90025**
Judd, Kenneth L. Projection methods for solving aggregate growth models. (English summary) **93i:90020**
Kehoe, Patrick J. *see* **Chari, V. V., 93h:90017**
Kemp, Murray C. (*with* Shimomura, Koji) A dynamic model of the distribution of wealth among households and nations. (English summary) **93h:90018**
Kim, Won Kyu *see* **Ding, Xie Ping; et al., 93d:90014**
Lasry, Jean-Michel *see* **Conze, A.; et al., 93a:90013**
(Lucas, Robert E., Jr.) *see* **Huo, Teh Ming, 93d:90015**
Madden, Paul A disequilibrium rational expectations model with Walrasian prices and involuntary unemployment. (English summary)
Magill, M. (*with* Quinzii, M.) Real effects of money in general equilibrium. **93f:90032**
Mertens, Jean-François Stable equilibria—a reformulation. II. Discussion of the definition, and further results. **93b:90019**
— The small worlds axiom for stable equilibria. (English summary) **93i:90021**
Munch, Niels Juul Noise reduction in tight Weyl-Heisenberg frames. **93b:90020**

Narens, Louis Cores of dense exchange economies. (English summary) **93h:90019**
Nenakhov, È. I. On an investigation of equilibrium states. (Russian) **93c:90020**
Neral, John (*with* Ochs, Jack) The sequential equilibrium theory of reputation building: a further test. (English summary)
Ochs, Jack *see* **Neral, John**
Pietra, Tito The structure of the set of sunspot equilibria in economies with incomplete financial markets. **93f:90033**
Podczeck, Konrad General equilibrium with differentiated commodities: the linear activity model without joint production. **93i:90022**
Polemarchakis, H. M. (*with* Siconolfi, P.) Competitive equilibria without free disposal or nonsatiation. (English summary)
Polterovich, V. M. Rationing, queues, and black markets. (English summary) **93k:90023**
Prescott, Edward C. (*with* Rios-Rull, Jose-Victor) Classical competitive analysis of economies with islands. **93d:90016**
Primak, M. E. A converging algorithm for a linear exchange model. (English summary) **93k:90024**
Quinzii, M. *see* **Magill, M., 93f:90032**
Rao, Milind On the transfer and advantageous reallocation paradoxes. **93c:90021**
Reiter, Stanley (*with* Simon, Carl P.) Decentralized dynamic processes for finding equilibrium. (English summary) **93f:90034**
Rios-Rull, Jose-Victor *see* **Prescott, Edward C., 93d:90016**
Rubinov, A. M. Dynamic equilibrium in linearly homogeneous economics. (Russian)
Rulev, G. V. *see* **Gorelik, V. A., (93c:49002)**
Sasakura, Kazuyuki Boundedness of economic variables and Olech's theorem. (English summary) **93i:90023**
Scheinkman, J. A. *see* **Conze, A.; et al., 93a:90013**
Shimomura, Koji *see* **Kemp, Murray C., 93h:90018**
Siconolfi, P. *see* **Polemarchakis, H. M.**
Simon, Carl P. *see* **Reiter, Stanley, 93f:90034**
(Stokey, Nancy L.) *see* **Huo, Teh Ming, 93d:90015**
Suda, Shinichi (*with* Tallon, Jean-Marc; Villanacci, Antonio) Real indeterminacy of equilibria in a sunspot economy with inside money. **93c:90022**
Tallon, Jean-Marc *see* **Suda, Shinichi; et al., 93c:90022**
Tan, Kok-Keong *see* **Ding, Xie Ping; et al., 93d:90014**
Tarafdar, E. Fixed point theorems in H-spaces and equilibrium points of abstract economies. (English summary) **93m:90016**
Thomas, Jonathan Noncomputable rational expectations equilibria. (English summary) **93i:90024**
Tian, Guo Qiang Existence of equilibrium in abstract economies with discontinuous payoffs and noncompact choice spaces. **93f:90035**
— *see also* **Zhou, Jian-Xin, 93c:90023**
Van Zandt, Timothy *see* **Allen, Beth, 93j:90023**
Villanacci, Antonio *see* **Suda, Shinichi; et al., 93c:90022**
Wang, Ze Ke *see* **Gao, Tang An, 93i:90019**
Wilson, Robert B. Computing simply stable equilibria. (English summary) **93i:90025**
Zhou, Jian-Xin (*with* Tian, Guo Qiang) Transfer method for characterizing the existence of maximal elements of binary relations on compact or noncompact sets. **93c:90023**
Zhou, Lin A simple proof of the Shapley-Folkman theorem.

Items with secondary classifications in 90A14

Amershi, Amin H. (*with* Sadanand, Asha; Sadanand, Venkatraman) Player importance and forward induction. **93c:90118**
Amir, R. (*with* Hadim, A.) Some structured dynamic programs arising in economics. (English summary) **93i:90105**
Andersson, Åke E. (*with* Zhang, Wei-Bin) Topics in mathematical economics—on fixed points and structural change. (*see* **93d:92001**)
— *see also* **Theory & control of dynamical systems, 93d:92001**
(Andersson, Stig I.) *see* **Theory & control of dynamical systems, 93d:92001**
Asheim, Geir B. A unique solution to n-person sequential bargaining. **93d:90072**
Baye, Michael R. (*with* Kovenock, Dan; de Vries, Casper G.) It takes two to tango: equilibria in a model of sales. (English summary) **93g:90014**
Boyd, John H., III (*with* McKenzie, Lionel W.) The existence of competitive equilibrium over an infinite horizon with production and general consumption sets. (English summary) **93k:90021**
Canning, David Average behavior in learning models. (English summary) **93i:90026**
Cass, David Sunspots and incomplete financial markets: the general case. **93d:90010**
Chiappori, Pierre-André (*with* Geoffard, Pierre-Yves; Guesnerie, Roger) Sunspot fluctuations around a steady state: the case of multidimensional, one-step forward looking economic models. (English summary) **93e:90016**
Chiarella, C. The birth of limit cycles in Cournot oligopoly models with time delays. **93a:90017**
Dafermos, S. C. (*with* McKelvey, S. C.) Partitionable variational inequalities with applications to network and economic equilibria. **93d:49010**
Dana, Rose-Anne (*with* Pontier, Monique) On existence of an Arrow-Radner equilibrium in the case of complete markets. A remark. **93j:90018**
Dewatripont, M. (*with* Roland, G.) Economic reform and dynamic political constraints. (English summary)
Ding, Xie Ping (*with* Kim, Won Kyu; Tan, Kok-Keong) A selection theorem and its applications. (English summary) **93g:47072**
Farahani, A. M. (*with* Grove, E. A.) A simple model for price fluctuations in a single commodity market. **93g:90019**
Furth, D. Equilibria in markets with product differentiation and free entry. **93j:90022**
Geoffard, Pierre-Yves *see* **Chiappori, Pierre-André; et al., 93e:90016**
Gradus, Raymond H. J. M. The derivation of feedback Stackelberg equilibria in dynamic economic games. (*see* **93d:90003**)
Grove, E. A. *see* **Farahani, A. M., 93g:90019**
Guesnerie, Roger *see* **Chiappori, Pierre-André; et al., 93e:90016**
Hadim, A. *see* **Amir, R., 93i:90105**
Hopenhayn, Hugo A. Entry, exit, and firm dynamics in long run equilibrium. (English summary) **93e:90012**
Im, Sung Mo (*with* Kim, Won Kyu; Rim, Dong Il) Existence of equilibrium in noncompact sets and its application. **93h:47079**
Kamenev, G. K. (*with* Kondrat'ev, D. L.) A method for studying nonclosed nonlinear models. (Russian. English and Russian summaries)
Kandori, Michihiro (*with* Mailath, George J.; Rob, Rafael) Learning, mutation, and long run equilibria in games. (English summary) **93m:90129**
Kang, Shi Kun *see* **Zhang, Shi Sheng; et al.**
Kim, Won Kyu A new equilibrium existence theorem. (English summary) **93i:90131**
— Existence of maximal element and equilibrium for a nonparacompact N-person game. **93a:90083**
— *see also* **Ding, Xie Ping; et al., 93g:47072**; **Rim, Dong Il, 93g:47074** *and* **Im, Sung Mo; et al., 93h:47079**
Kondrat'ev, D. L. *see* **Kamenev, G. K.**
Kovenock, Dan *see* **Baye, Michael R.; et al., 93g:90014**
Kukushkin, N. S. On existence of stable and efficient outcomes in games with public and private objectives. **93f:90210**
Ma, Chenghu Market equilibrium with heterogeneous recursive-utility-maximizing agents. (English summary) **93m:90023**
Mailath, George J. *see* **Kandori, Michihiro; et al., 93m:90129**
Matsui, Akihiko Best response dynamics and socially stable strategies. (English summary) **93g:90110**
McKelvey, S. C. *see* **Dafermos, S. C., 93d:49010**
McKenzie, Lionel W. *see* **Boyd, John H., III, 93k:90021**
McLennan, Andrew (*with* Sonnenschein, Hugo) Sequential bargaining as a noncooperative foundation for Walrasian equilibrium. **93a:90012**
Nagurney, Anna ★ Network economics: a variational inequality approach. (English. English summary) **93m:90002**
— (*with* Zhao, Lan) Variational inequalities and networks in the formulation and computation of market equilibria and disequilibria: the case of direct demand functions. (English summary) **93j:90033**
Newman, Donald J. (*with* Primak, M. E.) Complexity of circumscribed and inscribed ellipsoid methods for solving equilibrium economical models. (English summary) **93j:90021**
(Ottoson, Ulf) *see* **Theory & control of dynamical systems, 93d:92001**
Papageorgiou, Nikolaos S. A note on a nonlinear variational problem. (English summary) **93k:49003**
Park, Sehie Some coincidence theorems on acyclic multifunctions and applications to KKM theory. (English summary) **93j:47087**
Peng, Yong Cheng *see* **Zhang, Shi Sheng; et al.**
Peters, Hans (*with* van der Stel, H.; Storcken, Ton) Pareto optimality, anonymity, and strategy-proofness in location problems. (English summary) **93i:90058**
Petersen, Ivar Conditions for equilibrium and stability of the state of a multi-party political system. (Russian. Russian summary) **93f:90016**
— Equilibria in noncooperative competition of political parties having a common rate of morality. (English summary) **93m:92030**
Pontier, Monique *see* **Dana, Rose-Anne, 93j:90018**
Primak, M. E. *see* **Newman, Donald J., 93j:90021**
Rim, Dong Il (*with* Kim, Won Kyu) A fixed point theorem and existence of equilibrium for abstract economies. **93g:47074**
— *see also* **Im, Sung Mo; et al., 93h:47079**
Rob, Rafael *see* **Kandori, Michihiro; et al., 93m:90129**
Roland, G. *see* **Dewatripont, M.**
Sadanand, Asha *see* **Amershi, Amin H.; et al., 93c:90118**
Sadanand, Venkatraman *see* **Amershi, Amin H.; et al., 93c:90118**
Salonen, Hannu An axiomatic analysis of the Nash equilibrium concept. (English summary) **93f:90196**
Santos, Manuel S. Differentiability and comparative analysis in discrete-time infinite-horizon optimization. **93e:49041**
Sjöström, Tomas Implementation in perfect equilibria. (English summary) **93j:90016**
Sonnenschein, Hugo *see* **McLennan, Andrew, 93a:90012**
van der Stel, H. *see* **Peters, Hans; et al., 93i:90058**
Stinchcombe, Maxwell B. (*with* White, Halbert) Some measurability results for extrema of random functions over random sets. **93f:28011**
Storcken, Ton *see* **Peters, Hans; et al., 93i:90058**
Tan, Kok-Keong *see* **Ding, Xie Ping; et al., 93g:47072**
Voitishin, Yu. V. ★ Приближенная оптимизация вариантных моделей развития производственных систем. (Russian. Russian summary) [Approximate optimization of variant models for the development of production systems]
de Vries, Casper G. *see* **Baye, Michael R.; et al., 93g:90014**
Wang, Yu Yun Multifunction and its application.
Weibull, Jörgen W. On self-enforcement in extensive-form games. **93e:90074**
White, Halbert *see* **Stinchcombe, Maxwell B., 93f:28011**
Żakowski, Wojciech On some asymmetrical conflicts. **93g:90111**
Zhang, Shi Sheng (*with* Kang, Shi Kun; Peng, Yong Cheng) The Browder fixed point theorem in H-spaces and its application to social equilibrium problems. (Chinese. English and Chinese summaries)
Zhang, Wei-Bin *see* **Andersson, Åke E., (93d:92001)**
Zhao, Lan *see* **Nagurney, Anna, 93j:90033**

Items listed otherwise than by author

Huddinge ★ Theory & control of dynamical systems. **93d:92001**
Meeting:
Theory & Control of Dynamical Systems ★ Theory & control of dynamical systems. **93d:92001**
Theory & control of dynamical systems ★ Theory & control of dynamical systems. **93d:92001**

90A15 General economic models, trade models

Canning, David Average behavior in learning models. (English summary) **93i:90026**

Chen, Mu Fa Stochastic models of economic optimization. I. (Chinese. English and Chinese summaries)
— Stochastic models of economic optimization. II. (Chinese. English and Chinese summaries)
Dietzenbacher, Erik The LeChatelier-Samuelson principle revisited. (English summary) **93e:90014**
Fedrizzi, Mario (*with* Fedrizzi, Michele; Ostasiewicz, Walenty) Towards fuzzy modelling in economics. (English summary)
Fedrizzi, Michele *see* **Fedrizzi, Mario; et al.**
Ito, Yukio Dynamic game strategies for corporate demand models in national economy. (English summary) (*see* **93d:90003**)
Ivanov, Yu. N. A theorem on the representability of aggregated economic models. (Russian. Russian summary)
Koutsougeras, Leonidas C. (*with* Yannelis, Nicholas C.) Incentive compatibility and information superiority of the core of an economy with differential information. (English summary)
Lagunoff, Roger Fully endogenous mechanism selection on finite outcome sets. (English summary) **93g:90017**
Li, Bai Bing (*with* Wu, Jian Zhong) Hierarchical dynamic planned-economy models with central government coordination of one-step delay information. (English summary) (*see* **93d:90003**)
Mittnik, Stefan Forecasting international growth rates with leading indicators: a system-theoretic approach. (English summary)
Ostasiewicz, Walenty *see* **Fedrizzi, Mario; et al.**
Panek, Emil Optimal trajectories in a multisectoral model of economic growth. (English summary) **93d:90017**
Skonhoft, Anders Investment and growth in the Johansen putty-clay model. A technical note. (English summary)
Vassilakis, Spyros Some economic applications of Scott domains. (English summary) **93i:90027**
Wu, Jian Zhong *see* **Li, Bai Bing**, (**93d:90003**)
Yannelis, Nicholas C. *see* **Koutsougeras, Leonidas C.**

Items with secondary classifications in 90A15

(Amman, Hans M.) *see* **Computational economics and econometrics, 93b:90009**
Basu, Kaushik A characterization of the class of rationalizable equilibria of oligopoly games. (English summary)
(Belsley, David A.) *see* **Computational economics and econometrics, 93b:90009**
Berliant, Marcus (*with* ten Raa, Thijs) Corrigendum: "A foundation of location theory: consumer preferences and demand" [J. Econom. Theory **44** (1988), no. 2, 336–353; MR 89e:90050]. **93k:90029**
Brøns, Morten (*with* Sturis, Jeppe) Homoclinic bifurcation to infinity in a model of the economic long wave. **93c:58199**
Chukwu, E. N. Mathematical controllability theory of capital growth of nations. (English summary) **93k:93014**
Lewis, Alain A. On the effective content of asymptotic verifications of Edgeworth's conjecture. **93d:90020**
— On Turing degrees of Walrasian models and a general impossibility result in the theory of decision-making. (English summary) **93k:03042**
Mirzoakhmedov, F. ★ Математические модели и методы управления производством с учетом случайных факторов. (Russian) [Mathematical models and methods for production control taking random factors into account] **93c:90001**
Papageorgiou, Nikolaos S. Existence and sensitivity analysis of optimal paths in an economic growth model with infinite planning horizon. (English summary) **93f:49008**
(Pau, Louis-F.) *see* **Computational economics and econometrics, 93b:90009**
Pavlov, V. V. A systems model for evaluating the consequences of decisions in a complex interconnected economic system. (Russian. Russian summary)
ten Raa, Thijs *see* **Berliant, Marcus, 93k:90029**
Rao, Milind On the transfer and advantageous reallocation paradoxes. **93c:90021**
Safronov, I. A. ★ Метод коррекции исходных данных к задаче линейного программирования специального вида. (Russian. Russian summary) [A method for correcting the initial data to a linear programming problem of special type] **93f:90117**
Shen, Zhao Han *see* **Wu, Guang Mou; et al.**
Sturis, Jeppe *see* **Brøns, Morten, 93c:58199**
Uebe, Götz The model of Lang—national income accounts in 1807. (English summary) **93g:01043**
Wu, Guang Mou (*with* Shen, Zhao Han; Xu, Nan Rong) The imperfect regulation of economic systems in the equilibrium state and the control of the self-organizing process. (Chinese. English summary)
Xu, Nan Rong *see* **Wu, Guang Mou; et al.**

Items listed otherwise than by author

Computational economics and econometrics ★ Computational economics and econometrics. **93b:90009**
Meeting:
Society of Economic Dynamics and Control ★ Computational economics and econometrics. **93b:90009**
Minneapolis, MN ★ Computational economics and econometrics. **93b:90009**

90A16 Dynamic economic models, growth models

Atkeson, Andrew (*with* Lucas, Robert E., Jr.) On efficient distribution with private information. **93e:90015**
Becker, Robert A. (*with* Boyd, John H., III) Recursive utility and optimal capital accumulation. II. Sensitivity and duality theory. (English summary) **93i:90028**
Bendjilali, Boualem On the instability of the Edgeworth process. (English summary) **93f:90036**
Boyd, John H., III *see* **Becker, Robert A., 93i:90028**
Cabrales, Antonio (*with* Sobel, Joel) On the limit points of discrete selection dynamics. (English summary) **93g:90018**
Caputo, Michael R. Fundamental symmetries and qualitative properties in the adjustment cost model of the firm. **93b:90021**
Chiappori, Pierre-André (*with* Geoffard, Pierre-Yves; Guesnerie, Roger) Sunspot fluctuations around a steady state: the case of multidimensional, one-step forward looking economic models. (English summary) **93e:90016**
De Santis, Alberto (*with* Germani, Alfredo; Scoglio, Caterina) Kalman filter approach to solution of rational expectations models. (English summary)
Dockner, Engelbert J. (*with* Feichtinger, Gustav) On the optimality of limit cycles in dynamic economic systems. **93c:90024**
Dutta, Prajit K. (*with* Sundaram, Rangarajan K.) Markovian equilibrium in a class of stochastic games: existence theorems for discounted and undiscounted models. **93h:90020**
Engwerda, Jacob C. Tracking strategies for asymptotically admissible target paths in economic models. (English summary) (*see* **93c:90003**)
Ermini, Luigi Some unresolved issues in the application of control theory to economic policy-making. (English summary)
Farahani, A. M. (*with* Grove, E. A.) A simple model for price fluctuations in a single commodity market. **93g:90019**
Feichtinger, Gustav Rational addictive cycles ("binges") under a budget constraint. (English summary)
— *see also* **Dockner, Engelbert J., 93c:90024**
Fomina, T. P. *see* **Gorelik, V. A., (93c:49002)**
Galor, Oded A two-sector overlapping-generations model: a global characterization of the dynamical system. (English summary) **93h:90021**
Geoffard, Pierre-Yves *see* **Chiappori, Pierre-André; et al., 93e:90016**
Germani, Alfredo *see* **De Santis, Alberto; et al.**
Gorelik, V. A. (*with* Fomina, T. P.) Turnpike properties for a two-sector model with a nonsmooth functional. (Russian. Russian summary) (*see* **93c:49002**)
Gradus, Raymond H. J. M. The derivation of feedback Stackelberg equilibria in dynamic economic games. (*see* **93d:90003**)
Grove, E. A. *see* **Farahani, A. M., 93g:90019**
Guesnerie, Roger *see* **Chiappori, Pierre-André; et al., 93e:90016**
Hommes, Cars H. (*with* Nusse, Helena E.) "Period three to period two" bifurcation for piecewise linear models. **93b:90022**
Hopenhayn, Hugo A. (*with* Prescott, Edward C.) Stochastic monotonicity and stationary distributions for dynamic economies. (English summary) **93k:90025**
Huijberts, H. J. C. (*with* Withagen, Cees) Local asymptotic stability of optimal steady states. (English summary) **93i:90029**
Khritonenko, N. V. *see* **Semenov, K. E.; et al.**
Kravvaritis, Dimitrios (*with* Pantelides, George; Papageorgiou, Nikolaos S.) Existence of support prices for a discrete time growth model with uncertainty. (English summary) **93h:90022**
Kuznetsov, V. K. ★ Исследование механизмов экономического роста. (Russian. Russian summary) [Research on the mechanisms for economic growth]
Le Van, Cuong Lagging and unlagging theorems: a quasi-equivalence. (English summary) **93g:90020**
Lucas, Robert E., Jr. *see* **Atkeson, Andrew, 93e:90015**
Ma, Yue Policy measurement for the dynamic linear model with expectations variables: a multiplier approach. (English summary) **93f:90037**
Mitra, Tapan (*with* Nyarko, Yaw) On the existence of optimal processes in nonstationary environments. **93b:90023**
Nusse, Helena E. *see* **Hommes, Cars H., 93b:90022**
Nyarko, Yaw *see* **Mitra, Tapan, 93b:90023**
Pantelides, George *see* **Kravvaritis, Dimitrios; et al., 93h:90022**
Papageorgiou, Nikolaos S. *see* **Kravvaritis, Dimitrios; et al., 93h:90022**
Prescott, Edward C. *see* **Hopenhayn, Hugo A., 93k:90025**
Sacco, Pier Luigi Optimal control of input-output systems via demand management. (English summary)
Sánchez Chóliz, Julio Note on Roemer's indecomposability. **93f:90038**
Scoglio, Caterina *see* **De Santis, Alberto; et al.**
Semenov, K. E. (*with* Khritonenko, N. V.; Yatsenko, Yu. P.) Turnpike properties of the optimal periods of the service of funds. (Russian. English and Russian summaries)
Sengupta, Jati K. Information theory and economic growth models. (English summary)
Sobel, Joel *see* **Cabrales, Antonio, 93g:90018**
Sundaram, Rangarajan K. *see* **Dutta, Prajit K., 93h:90020**
Szidarovszky, Ferenc (*with* Yen, Jerome) On the controllability of discrete dynamic oligopolies under adaptive expectations. (English summary) **93m:90017**
Withagen, Cees *see* **Huijberts, H. J. C., 93i:90029**
Yatsenko, Yu. P. *see* **Semenov, K. E.; et al.**
Yen, Jerome *see* **Szidarovszky, Ferenc, 93m:90017**
Zaslavskiĭ, A. Ya. Asymptotics of the trajectories of a model with discrete innovations. (Russian. Russian summary) **93f:90039**

Items with secondary classifications in 90A16

Andrianov, D. L. (*with* Maksimov, V. P.; Rumyantsev, A. N.) Some boundary value problems in economic dynamics. (Russian. Russian summary) **93h:34117**
Dockner, Engelbert J. (*with* Jørgensen, Steffen) New product advertising in dynamic oligopolies. (English summary)
Dohtani, Akitaka Global stability of the competitive economy involving complementary relations among commodities. (English summary) **93k:90022**
Ehtamo, Harri (*with* Hämäläinen, Raimo P.) A cooperative incentive equilibrium for a resource management problem. (English summary) **93m:90123**
— *see also* **Dynamic games in economic analysis, 93d:90003**
(Feichtinger, Gustav) *see* **Nonlinear methods in economic dynamics and optimal control, 93d:90004**
Fudenberg, Drew (*with* Harris, Christopher J.) Evolutionary dynamics with aggregate shocks. (English summary) **93g:92016**
Galor, Oded (*with* Tsiddon, Daniel) Transitory productivity shocks and long-run output. (English summary) **93f:90022**
Grant, Simon (*with* Kajii, Atsushi; Polak, Ben) Many good risks: an interpretation of

multivariate risk and risk aversion without the independence axiom. (English summary) **93e:90021**

Hämäläinen, Raimo P. *see* **Ehtamo, Harri, 93m:90123** *and* **Dynamic games in economic analysis, 93d:90003**

Harris, Christopher J. *see* **Fudenberg, Drew, 93g:92016**

(Hartl, R. F.) *see* **Nonlinear methods in economic dynamics and optimal control, 93d:90004**

Ivanov, Yu. N. A theorem on the representability of aggregated economic models. (Russian. Russian summary)

Jørgensen, Steffen *see* **Dockner, Engelbert J.**

Kajii, Atsushi *see* **Grant, Simon; et al., 93e:90021**

Kemp, Murray C. (*with* Shimomura, Koji) A dynamic model of the distribution of wealth among households and nations. (English summary) **93h:90018**

Lee, Che Ping Application of the Kalman filter to capital accumulation. (English summary)

Léonard, Daniel (*with* Long, Ngo Van) ★ Optimal control theory and static optimization in economics. **93d:49002**

Li, Wentian Phenomenology of nonlocal cellular automata. (English summary) **93h:68103**

Long, Ngo Van *see* **Léonard, Daniel, 93d:49002**

Maksimov, V. P. *see* **Andrianov, D. L.; et al., 93h:34117**

Matulka, Josef (*with* Neck, Reinhard) OPTCON: an algorithm for the optimal control of nonlinear stochastic models. (English summary) **93h:93088**

Mertens, Jean-François Stable equilibria—a reformulation. II. Discussion of the definition, and further results. **93b:90019**

Neck, Reinhard *see* **Matulka, Josef, 93h:93088**

Polak, Ben *see* **Grant, Simon; et al., 93e:90021**

Rempała, Ryszarda (*with* Sethi, Suresh P.) Decision and forecast horizons for one-dimensional optimal control problems: existence results and applications. (English summary) **93i:49008**

Rumyantsev, A. N. *see* **Andrianov, D. L.; et al., 93h:34117**

Rustichini, Aldo Second best equilibria for games of joint exploitation of a productive asset. **93h:90112**

Schäfer, Martin Resource extraction and production of a substitute. (English summary) **93d:90019**

Sethi, Suresh P. *see* **Rempała, Ryszarda, 93i:49008**

Shimomura, Koji *see* **Kemp, Murray C., 93h:90018**

Sigmund, Karl Time averages for unpredictable orbits of deterministic systems. (English summary) **93j:58122**

Tan, Guofu Entry and R & D in procurement contracting. (English summary) **93f:90024**

Tateishi, Hiroshi Perron-Frobenius theorem for multi-valued mappings. **93h:47080**

Tesfatsion, Leigh Nonlocal automated comparative static analysis. (English summary) **93h:65002**

Tsiddon, Daniel *see* **Galor, Oded, 93f:90022**

Wirl, Franz Cyclical strategies in two-dimensional optimal control models: necessary conditions and existence. (English summary) **93f:49021**

Yatsenko, Yu. P. ★ Интегральные модели систем с управляемой памятью. (Russian) [Integral models of systems with controllable memory] **93g:93002**

Zhang, Wei-Bin Trade and world economic growth: differences in knowledge utilization and creativity. (English summary) **93e:90025**

Items listed otherwise than by author

Conference:

Operations Research ★ Nonlinear methods in economic dynamics and optimal control. **93d:90004**

Dynamic games in economic analysis ★ Dynamic games in economic analysis. **93d:90003**

Espoo ★ Dynamic games in economic analysis. **93d:90003**

Lecture Notes in Control and Information Sciences ★ Dynamic games in economic analysis. **93d:90003**

Nonlinear methods in economic dynamics and optimal control ★ Nonlinear methods in economic dynamics and optimal control. **93d:90004**

Symposium:

Differential Games and Applications ★ Dynamic games in economic analysis. **93d:90003**

Vienna ★ Nonlinear methods in economic dynamics and optimal control. **93d:90004**

90A17 Multisectoral models

Xie, Danyang Mathematical induction applied on Leontief systems. (English summary) **93h:90023**

Items with secondary classifications in 90A17

Dutta, Prajit K. Finite horizon optimization: sensitivity and continuity in multi-sectoral models. (English summary) **93j:90034**

90A19 Statistical models; economic indexes and measures

Bikhchandani, Sushil (*with* Segal, Uzi; Sharma, Sunil) Stochastic dominance under Bayesian learning. (English summary) **93h:90024**

Brandon, J. A. *see* **Zhong, Bing Lin**

Chew, Soo Hong (*with* Nishimura, Naoko) Differentiability, comparative statics, and nonexpected utility preferences. (English summary) **93f:90040**

Dutta, Bhaskar (*with* Esteban, Joan) Social welfare and equality. (English summary) **93h:90025**

El-Gamal, Mahmoud A. The role of priors in active Bayesian learning in the sequential statistical decision framework. (*see* **93b:00011**)

Esteban, Joan *see* **Dutta, Bhaskar, 93h:90025**

Ferreira, M. Luisa (*with* Perali, C. Federico) Barten group equivalence scales and Barten group indexes. (English summary)

Fisher, Stephen D. *see* **Spencer, Bruce D.**

Gleissner, W. A parameterisation of the price indices characterized by the Eichhorn-Voeller axioms. **93g:90021**

— A parameterisation of the price indices characterized by the Eichhorn-Voeller axioms. **93i:90030**

Lancaster, Tony ★ The econometric analysis of transition data. **93f:90041**

Mookherjee, Dilip (*with* Reichelstein, Stefan) Dominant strategy implementation of Bayesian incentive compatible allocation rules. (English summary) **93d:90018**

Nishimura, Naoko *see* **Chew, Soo Hong, 93f:90040**

Noe, Thomas H. (*with* Ramamurtie, Buddhavarapu Sailesh) Diversification in parametric rational expectations economies. (English summary)

Olkin, Ingram *see* **Yitzhaki, Shlomo, 93g:90022**

Pal, Manoranjan Indices of growth. (English summary) **93f:90042**

Perali, C. Federico *see* **Ferreira, M. Luisa**

Ramamurtie, Buddhavarapu Sailesh *see* **Noe, Thomas H.**

Reichelstein, Stefan *see* **Mookherjee, Dilip, 93d:90018**

Segal, Uzi *see* **Bikhchandani, Sushil; et al., 93h:90024**

Sharma, Sunil *see* **Bikhchandani, Sushil; et al., 93h:90024**

Shi, Jian Qing (*with* Zhao, Zheng Feng) A Bayesian predictive view of inference about structural changes in mathematical models of social economy. (Chinese. English and Chinese summaries)

Shtil'man, Michael S. *see* **Zenios, Stavros A.**

Spencer, Bruce D. (*with* Fisher, Stephen D.) On comparing distributions of poverty gaps. (English summary)

Ştefănescu, Poliana (*with* Ştefănescu, Şt.) Computing simulation of a random variable used in economy. (French and Russian summaries)

Ştefănescu, Şt. *see* **Ştefănescu, Poliana**

Vaccaro, Richard J. (*with* Vukina, Tomislav) A solution to the positivity problem in the state-space approach to modeling vector-valued time series. (English summary) **93k:90026**

Vukina, Tomislav *see* **Vaccaro, Richard J., 93k:90026**

Yitzhaki, Shlomo (*with* Olkin, Ingram) Concentration indices and concentration curves. (English summary) **93g:90022**

Zenios, Stavros A. (*with* Shtil'man, Michael S.) Constructing optimal samples from a binomial lattice. (English summary)

Zhao, Zheng Feng *see* **Shi, Jian Qing**

Zhong, Bing Lin (*with* Brandon, J. A.) A study of hybrid prediction models and their application in economic and social systems. (English summary)

Items with secondary classifications in 90A19

Chen, Mu Fa Stochastic models of economic optimization. I. (Chinese. English and Chinese summaries)

— Stochastic models of economic optimization. II. (Chinese. English and Chinese summaries)

Christensen, Bent Jesper (*with* Kiefer, Nicholas M.) The exact likelihood function for an empirical job search model. **93c:62168**

Duffie, Darrell (*with* Stanton, Richard) Pricing continuously resettled contingent claims. **93h:90009**

Eastwood, Brian J. (*with* Gallant, A. Ronald) Adaptive rules for seminonparametric estimators that achieve asymptotic normality. **93g:62053**

Gallant, A. Ronald *see* **Eastwood, Brian J., 93g:62053**

Jewitt, Ian Applications of likelihood ratio orderings in economics. (English summary) **93i:90008**

Kabe, D. G. On a prediction interval problem of econometric aggregation theory. (English summary) **93j:62246**

Kiefer, Nicholas M. *see* **Christensen, Bent Jesper, 93c:62168**

Monti, Anna Clara The study of the Gini concentration ratio by means of the influence function. (English and Italian summaries) **93h:62194**

Neck, Reinhard Noncooperative equilibrium solutions for a stochastic dynamic game of economic stabilization policies. (*see* **93d:90003**)

Neral, John (*with* Ochs, Jack) The sequential equilibrium theory of reputation building: a further test. (English summary)

Ochs, Jack *see* **Neral, John**

Pötscher, Benedikt M. (*with* Prucha, Ingmar R.) Basic structure of the asymptotic theory in dynamic nonlinear econometric models. II. Asymptotic normality. **93e:62263**

Prucha, Ingmar R. *see* **Pötscher, Benedikt M., 93e:62263**

Schneider, Wolfgang Systems of seemingly unrelated regression equations with time varying coefficients—an interplay of Kalman filtering, scoring, EM- and MINQUE-method. (English summary)

Stanton, Richard *see* **Duffie, Darrell, 93h:90009**

Wooldridge, Jeffrey M. Some alternatives to the Box-Cox regression model. (English summary) **93h:62120**

Yanagimoto, Takemi Estimating a model through the conditional MLE. **93c:62169**

Zellner, Arnold Bayesian methods and entropy in economics and econometrics. (*see* **93b:00011**)

90A20 Economic time series analysis [see also 62M10]

Deng, Ji Xian (*with* Fan, Wen Ning; Song, Xin Yuan) Application of the first-order closed cycle TAR model and asymptotic properties of its coefficient estimates. (Chinese. English and Chinese summaries)

Fan, Wen Ning *see* **Deng, Ji Xian; et al.**

Song, Xin Yuan *see* **Deng, Ji Xian; et al.**

Items with secondary classifications in 90A20

Lee, Hahn Shik Maximum likelihood inference on cointegration and seasonal cointegration. (English summary) **93k:62215**

Nassiuma, D. K. (*with* Thavaneswaran, A.) Smoothed estimates for nonlinear time series models with irregular data. (English summary) **93j:62216**

Sengupta, Jati K. Information theory and economic growth models. (English summary)

Thavaneswaran, A. *see* **Nassiuma, D. K., 93j:62216**

White, Halbert (*with* Wooldridge, Jeffrey M.) Some results on sieve estimation with dependent observations. **93j:62232**

Wooldridge, Jeffrey M. *see* **White, Halbert, 93j:62232**

90A25 Spatial models

Schulz, Norbert (*with* Stahl, Konrad) Corrigendum: "Good and bad competition in spatial markets for search goods: the case of linear utility functions" [Ann. Économ. Statist. **1989**, no. 15–16, 113–136; see MR 91b:90001].
Stahl, Konrad *see* **Schulz, Norbert**

90A28 Voting theory

Austen-Smith, David (*with* Wright, John R.) Competitive lobbying for a legislator's vote. (English summary) **93e:90017**
Berg, Sven (*with* Lepelley, Dominique) Note sur le calcul de la probabilité des paradoxes du vote. (English and French summaries) [Note on the computation of the voting paradox probability] **93j:90026**
— *see also* **Gehrlein, William V.**
Bradberry, Brent A. A geometric view of some apportionment paradoxes.
Brams, Steven J. (*with* Fishburn, Peter C.) Coalition voting. (English summary) **93f:90043**
Coughlin, Peter J. ★ Probabilistic voting theory. **93j:90027**
Felsenthal, Dan S. (*with* Machover, Moshé) Sequential voting by veto: making the Mueller-Moulin algorithm more versatile. (English summary) **93k:90027**
Fishburn, Peter C. *see* **Brams, Steven J., 93f:90043**
Gehrlein, William V. Condorcet efficiency of simple voting rules for large electorates. (English summary) **93i:90031**
— (*with* Berg, Sven) The effect of social homogeneity on coincidence probabilities for pairwise proportional lottery and simple majority rules. (English summary)
González, Jaime (*with* Lacourly, N.) A family of Hamilton type methods for congressional apportionments. (French summary) **93a:90014**
Hansson, Sven Ove A procedural model of voting. **93f:90044**
Harrington, Joseph E., Jr. The impact of reelection pressures on the fulfillment of campaign promises. (English summary)
Lacourly, N. *see* **González, Jaime, 93a:90014**
Lepelley, Dominique Une caractérisation du vote à la majorité simple. (English and French summaries) [A characterization of plurality voting] **93h:90026**
— On the probability of electing the Condorcet loser. (English summary) **93i:90032**
— *see also* **Berg, Sven, 93j:90026**
Lezina, Z. M. *see* **Vol'skii, V. I., 93f:90045**
Machover, Moshé *see* **Felsenthal, Dan S., 93k:90027**
Moreno, Diego (*with* Walker, Mark) Nonmanipulable voting schemes when participants' interests are partially decomposable. **93c:90025**
Myerson, Roger B. Effectiveness of electoral systems for reducing government corruption: a game-theoretic analysis. (English summary)
Osborne, Martin J. Candidate positioning and entry in a political competition. (English summary) **93m:90018**
Schofield, Norman (*with* Tovey, Craig A.) Probability and convergence for supra-majority rule with Euclidean preferences. (English summary) **93g:90023**
Taylor, Alan (*with* Zwicker, William S.) Weighted voting, multicameral representation, and power. (English summary) **93h:90027**
Tovey, Craig A. The probability of an undominated central voter in 2-dimensional spatial majority voting. **93a:90015**
— *see also* **Schofield, Norman, 93g:90023**
Vol'skii, V. I. (*with* Lezina, Z. M.) Comparative analysis of voting procedures (a survey of the current state and new problems). (Russian. Russian summary) **93f:90045**
Walker, Mark *see* **Moreno, Diego, 93c:90025**
Weber, Shlomo On hierarchical spatial competition. **93e:90018**
Wright, John R. *see* **Austen-Smith, David, 93e:90017**
Zwicker, William S. *see* **Taylor, Alan, 93h:90027**

Items with secondary classifications in 90A28

Banks, Jeffrey S. (*with* Bordes, Georges; Le Breton, Michel) Covering relations, closest orderings and Hamiltonian bypaths in tournaments. **93h:90014**
Bordes, Georges (*with* Le Breton, Michel; Salles, Maurice) Gillies and Miller's subrelations of a relation over an infinite set of alternatives: general results and applications to voting games. (English summary) **93g:90011**
— *see also* **Banks, Jeffrey S.; et al., 93b:90014**
Campbell, Donald E. Public goods and Arrovian social choice. (English summary) **93h:90005**
Chen, Robert W. (*with* Zame, Alan) An urn model with some applications. **93h:60015**
Gnedin, A. V. Multicriteria extensions of the best choice problem: sequential selection without linear order. **93g:60087**
Harrington, Joseph E., Jr. Modelling the role of information in elections. (English summary) **93m:92034**
Ingberman, Daniel E. Incumbent reputations and ideological campaign contributions in spatial competition. (English summary) **93g:92036**
Le Breton, Michel *see* **Banks, Jeffrey S.; et al., 93b:90014** *and* **Bordes, Georges; et al., 93g:90011**
Salles, Maurice *see* **Bordes, Georges; et al., 93g:90011**
Yamato, Takehiko On Nash implementation of social choice correspondences. **93c:90013**
Zame, Alan *see* **Chen, Robert W., 93h:60015**

90A30 Environmental economics (natural resource models, harvesting, pollution, etc.)

Batabyal, Amitrajeet A. Environmental pollution and unilateral control in an open economy. (English summary) **93f:90046**
Clemhout, Simone (*with* Wan, Henry, Jr.) Environmental problem as a common-property resource game. (English summary) (*see* **93d:90003**)
Crabbé, Philippe (*with* Long, Ngo Van) Entry deterrence and overexploitation of the fishery. (English summary) **93m:90019**
Kapur, J. N. Pareto-optimal solution for competitive exploitation of restricted-access common-property fishery resources. (English summary)
Krechetov, L. I. Equilibrium in transboundary pollution reduction. (*see* **93e:90003**)
Long, Ngo Van Pollution control: a differential game approach. (English summary) **93j:90028**
— *see also* **Crabbé, Philippe, 93m:90019**
Quinn, John A partial differential equation model of optimal forest harvesting. (English summary) **93k:90028**
Schäfer, Martin Pollution vs. nature—differential game models. (*see* **93d:90003**)
— Resource extraction and production of a substitute. (English summary) **93d:90019**
Sushil Application of physical system theory and goal programming to modelling and analysis of waste management in national planning. (English summary)
Wan, Henry, Jr. *see* **Clemhout, Simone, (93d:90003)**
Yeung, David A differential game of industrial pollution management. (English summary) **93j:90029**

Items with secondary classifications in 90A30

Andrianov, D. L. (*with* Maksimov, V. P.; Rumyantsev, A. N.) Some boundary value problems in economic dynamics. (Russian. Russian summary) **93h:34117**
Babich, O. A. (*with* Pershin, O. Yu.) Problems involving taking into account constraints on the development of industrial systems in the case of the optimal development of oil fields. (Russian. Russian summary)
Boylan, Richard T. Laws of large numbers for dynamical systems with randomly matched individuals. (English summary) **93g:92015**
Maksimov, V. P. *see* **Andrianov, D. L.; et al., 93h:34117**
Pershin, O. Yu. *see* **Babich, O. A.**
Rumyantsev, A. N. *see* **Andrianov, D. L.; et al., 93h:34117**

90A35 Informational economics

Banerjee, Abhijit V. The economics of rumours. (English summary)
Gul, Faruk (*with* Postlewaite, Andrew) Asymptotic efficiency in large exchange economies with asymmetric information. (English summary) **93f:90047**
Hellwig, Martin Fully revealing outcomes in signalling models: an example of nonexistence when the type space is unbounded. (English summary) **93f:90048**
King, Stephen P. Is perfect information perfectly useless? (English summary)
Malyukov, V. P. A quality game for two models of economic dynamics with incomplete information. (Russian. English and Ukrainian summaries) **93g:90024**
Page, Frank H., Jr. Mechanism design for general screening problems with moral hazard. **93a:90016**
Postlewaite, Andrew *see* **Gul, Faruk, 93f:90047**
Rogerson, William P. Contractual solutions to the hold-up problem. (English summary)

Items with secondary classifications in 90A35

Atkeson, Andrew (*with* Lucas, Robert E., Jr.) On efficient distribution with private information. **93e:90015**
Ben-Porath, Elchanan (*with* Dekel, Eddie) Signaling future actions and the potential for sacrifice. **93h:90111**
Canning, David Average behavior in learning models. (English summary) **93i:90026**
Dekel, Eddie *see* **Ben-Porath, Elchanan, 93h:90111**
Lucas, Robert E., Jr. *see* **Atkeson, Andrew, 93e:90015**
Stinchcombe, Maxwell B. A further note on Bayesian information topologies. (English summary) **93k:60011**
Wärneryd, Karl Communication, correlation, and symmetry in bargaining. (English summary) **93h:90030**

90A40 Consumer behavior, demand theory

Berliant, Marcus (*with* ten Raa, Thijs) Corrigendum: "A foundation of location theory: consumer preferences and demand" [J. Econom. Theory **44** (1988), no. 2, 336–353; MR 89e:90050]. **93k:90029**
Bridges, Douglas S. The construction of a continuous demand function for uniformly rotund preferences. **93e:90019**
Chambers, Robert G. (*with* Pope, Rulon D.) The two-index PIGL demand system. **93c:90026**
Hindy, Ayman (*with* Huang, Chi-fu) Intertemporal preferences for uncertain consumption: a continuous time approach. **93c:90027**
— (*with* Huang, Chi-fu) Optimal consumption and portfolio rules with durability and local substitution. (English summary) **93h:90028**
Huang, Chi-fu *see* **Hindy, Ayman, 93c:90027** *and* **93h:90028**
Jerison, David (*with* Jerison, Michael) Approximately rational consumer demand. (English summary) **93m:90020**
Jerison, Michael *see* **Jerison, David, 93m:90020**
Pope, Rulon D. *see* **Chambers, Robert G., 93c:90026**
ten Raa, Thijs *see* **Berliant, Marcus, 93k:90029**
Zariphopoulou, Thaleia Investment-consumption models with transaction fees and Markov-chain parameters. **93b:90024**

Items with secondary classifications in 90A40

(Aumann, Robert) *see* **Roth, Alvin E., 93b:90001**
Deissenberg, Christophe The global failure of local preference optimization. (English summary) **93k:90014**
Desplas, M. Matrice pseudo-inverse de Moore-Penrose et variables duales généralisées en programmation mathématique. (English and French summaries) [The Moore-Penrose pseudo-inverse matrix and generalized dual variables in mathematical programming] **93j:90096**
Huang, Chi-fu (*with* Pagès, Henri) Optimal consumption and portfolio policies with an infinite horizon: existence and convergence. **93b:90018**
Moulin, Hervé (*with* Shenker, Scott) Serial cost sharing. (English summary) **93e:90072**
Pagès, Henri *see* **Huang, Chi-fu, 93b:90018**
Presman, È. L. *see* **Sethi, Suresh P.; et al., 93f:90018**
Roth, Alvin E. (*with* Sotomayor, Marilda de Oliveira) ★ Two-sided matching. **93b:90001**

Schulz, Norbert (*with* Stahl, Konrad) Corrigendum: "Good and bad competition in spatial markets for search goods: the case of linear utility functions" [Ann. Économ. Statist. **1989**, no. 15–16, 113–136; see MR 91b:90001].
Sethi, Suresh P. (*with* Taksar, Michael I.; Presman, È. L.) Explicit solution of a general consumption/portfolio problem with subsistence consumption and bankruptcy. **93f:90018**
Shenker, Scott *see* **Moulin, Hervé, 93e:90072**
Shreve, Steven E. *see* **Xu, Gan-Lin, 93c:90016a** *and* **93c:90016b**
Sotomayor, Marilda de Oliveira *see* **Roth, Alvin E., 93b:90001**
Stahl, Konrad *see* **Schulz, Norbert**
Taksar, Michael I. *see* **Sethi, Suresh P.; et al., 93f:90018**
Xu, Gan-Lin (*with* Shreve, Steven E.) A duality method for optimal consumption and investment under short-selling prohibition. I. General market coefficients. **93c:90016a**
— (*with* Shreve, Steven E.) A duality method for optimal consumption and investment under short-selling prohibition. II. Constant market coefficients. **93c:90016b**

90A43 Expected utility; risk-averse utility

Billot, Antoine From fuzzy set theory to nonadditive probabilities: how have economists reacted? (English summary)
Duffie, Darrell (*with* Epstein, Larry G.) Stochastic differential utility. **93e:90020**
Epstein, Larry G. *see* **Duffie, Darrell, 93e:90020**
Kelsey, David Risk and risk aversion for state-dependent utility. **93i:90033**
Moulin, Hervé Welfare bounds in the cooperative production problem. **93c:90028**
Munier, Bertrand R. Expected utility versus anticipated utility: where do we stand? (English summary)
Nielsen, Lars Tyge The utility of infinite menus. (English summary) **93c:90029**
Quiggin, John Efficient sets with and without the expected utility hypothesis: a generalization. **93h:90029**
Safra, Zvi (*with* Zilcha, Itzhak) Bargaining solutions without the expected utility hypothesis. (English summary) **93k:90030**
Sarin, Rakesh (*with* Wakker, Peter) A simple axiomatization of nonadditive expected utility. (English summary) **93m:90021**
Scarsini, Marco Dominance conditions in nonadditive expected utility theory. **93g:90025**
(Skiadas, Costis) *see* **Duffie, Darrell, 93e:90020**
Wakker, Peter *see* **Sarin, Rakesh, 93m:90021**
Zilcha, Itzhak *see* **Safra, Zvi, 93k:90030**

Items with secondary classifications in 90A43

Beja, Avraham (*with* Gilboa, Itzhak) Numerical representations of imperfectly ordered preferences (a unified geometric exposition). (English summary) **93f:90019**
Duffie, Darrell (*with* Lions, Pierre-Louis) PDE solutions of stochastic differential utility. (English summary) **93j:90020**
Gilboa, Itzhak *see* **Beja, Avraham, 93f:90019**
Giles, Robin A generalization of the theory of subjective probability and expected utility. **93a:90007**
Gul, Faruk Savage's theorem with a finite number of states. **93c:90017**
Kadane, Joseph B. *see* **Schervish, Mark J.; et al., 93j:62008**
Karni, Edi Utility theory with probability-dependent outcome valuation. **93e:90011**
Lions, Pierre-Louis *see* **Duffie, Darrell, 93j:90020**
Schervish, Mark J. (*with* Seidenfeld, Teddy; Kadane, Joseph B.) Small worlds and state dependent utilities. (English summary) **93j:62008**
Seidenfeld, Teddy *see* **Schervish, Mark J.; et al., 93j:62008**

90A46 Risk theory

Grant, Simon (*with* Kajii, Atsushi; Polak, Ben) Many good risks: an interpretation of multivariate risk and risk aversion without the independence axiom. (English summary) **93e:90021**
Kajii, Atsushi *see* **Grant, Simon; et al., 93e:90021**
Polak, Ben *see* **Grant, Simon; et al., 93e:90021**

90A50 Labor market

Fernandez, Raquel Terms-of-trade uncertainty, incomplete markets and unemployment. (English summary)
Schultz, Christian The impossibility of involuntary unemployment in an overlapping generations model with rational expectations. (English summary)
Talmain, Gabriel Search from an unknown distribution: an explicit solution. **93m:90022**

90A53 Special types of economies

Calvo, Guillermo A. (*with* Guidotti, Pablo E.) Optimal maturity of nominal government debt: an infinite-horizon model. (English summary)
Chiarella, C. The birth of limit cycles in Cournot oligopoly models with time delays. **93a:90017**
Dewatripont, M. (*with* Roland, G.) Economic reform and dynamic political constraints. (English summary)
Fung, K. C. Economic integration as competitive discipline. (English summary)
Guidotti, Pablo E. *see* **Calvo, Guillermo A.**
Hanchate, Amresh D. Strategic bargaining equilibrium in a market with no re-entry: a generalization. (English summary)
Kamien, Morton I. (*with* Oren, Shmuel S.; Tauman, Yair) Optimal licensing of cost-reducing innovation. (English summary) **93i:90034**
Lacker, Jeffrey M. (*with* Weinberg, John A.) A coalition proof equilibrium for a private information credit economy. (English summary)
Liang, Zi Hao Continuity of equilibria in exchange economies. (English summary) **93j:90030**
Oren, Shmuel S. *see* **Kamien, Morton I.; et al., 93i:90034**
Roland, G. *see* **Dewatripont, M.**
Shitovitz, Benyamin Coalitional fair allocations in smooth mixed markets with an atomless sector. (English summary) **93j:90031**
Tauman, Yair *see* **Kamien, Morton I.; et al., 93i:90034**
Weinberg, John A. *see* **Lacker, Jeffrey M.**

Items with secondary classifications in 90A53

Becker, Robert A. (*with* Bercovici, Hari; Foias, Ciprian) Weak Pareto optimality and the approximate support property. (English summary) **93h:90016**
Bercovici, Hari *see* **Becker, Robert A.; et al., 93h:90016**
Chew, Soo Hong (*with* Nishimura, Naoko) Differentiability, comparative statics, and nonexpected utility preferences. (English summary) **93f:90040**
Foias, Ciprian *see* **Becker, Robert A.; et al., 93h:90016**
Kamiyama, Shinichi (*with* Murata, Yasuo) The discrete-time model of Bagchi's regional investment allocation problem. (English summary) **93d:90079**
Murata, Yasuo *see* **Kamiyama, Shinichi, 93d:90079**
Nishimura, Naoko *see* **Chew, Soo Hong, 93f:90040**
Prescott, Edward C. (*with* Rios-Rull, Jose-Victor) Classical competitive analysis of economies with islands. **93d:90016**
Rios-Rull, Jose-Victor *see* **Prescott, Edward C., 93d:90016**
Schulz, Norbert (*with* Stahl, Konrad) Corrigendum: "Good and bad competition in spatial markets for search goods: the case of linear utility functions" [Ann. Économ. Statist. **1989**, no. 15–16, 113–136; see MR 91b:90001].
Smith, Lones Folk theorems in overlapping generations games. **93f:90202**
Stahl, Konrad *see* **Schulz, Norbert**

90A56 Special types of equilibria

Diamantaras, Dimitrios Regular public good economies. (English summary) **93i:90035**
Li, Shuhe Far-sighted strong equilibrium and oligopoly. (English summary)
Liu, Chongshan From a theorem of Radner. (English summary)
Nagurney, Anna The application of variational inequality theory to the study of spatial equilibrium and disequilibrium. (English summary) (*see* **93m:62006**)

Items with secondary classifications in 90A56

Cass, David Sunspots and incomplete financial markets: the general case. **93d:90010**
Chiarella, C. The birth of limit cycles in Cournot oligopoly models with time delays. **93a:90017**
Dana, Rose-Anne (*with* Pontier, Monique) On existence of an Arrow-Radner equilibrium in the case of complete markets. A remark. **93j:90018**
Fisher, Eric O'N. Sustained growth in the model of overlapping generations. (English summary) **93f:90028**
Hanchate, Amresh D. Strategic bargaining equilibrium in a market with no re-entry: a generalization. (English summary)
Liang, Zi Hao Continuity of equilibria in exchange economies. (English summary) **93j:90030**
Madden, Paul A disequilibrium rational expectations model with Walrasian prices and involuntary unemployment. (English summary)
Polterovich, V. M. Rationing, queues, and black markets. (English summary) **93k:90023**
Pontier, Monique *see* **Dana, Rose-Anne, 93j:90018**

90A58 Models of real-world systems; general macro-economic models, etc.

Bianconi, M. Variable markup in a small open economy with inflation. (English summary)
Tang, Xiao Wo An improved algorithm for the $R \cdot A \cdot S$ method. (Chinese. English and Chinese summaries)
Willett, R. J. An axiomatic theory of accounting measurement structures.

Items with secondary classifications in 90A58

Léonard, Daniel (*with* Long, Ngo Van) ★ Optimal control theory and static optimization in economics. **93d:49002**
Long, Ngo Van *see* **Léonard, Daniel, 93d:49002**
Mailath, George J. Endogenous sequencing of firm decisions. (English summary)
Prescott, Edward C. (*with* Rios-Rull, Jose-Victor) Classical competitive analysis of economies with islands. **93d:90016**
Rios-Rull, Jose-Victor *see* **Prescott, Edward C., 93d:90016**
Skonhoft, Anders Investment and growth in the Johansen putty-clay model. A technical note. (English summary)

90A60 Market models (auctions, bargaining, bidding, selling, etc.)

Allen, Beth Price and quantity competition in homogeneous duopoly markets.
Assaf, David (*with* Levikson, Benny) Optimal advertising policy for selling a single asset. **93f:90049**
Ausubel, Lawrence M. (*with* Deneckere, Raymond J.) Bargaining and the right to remain silent. **93c:90030**
— (*with* Deneckere, Raymond J.) Durable goods monopoly with incomplete information. (English summary) **93f:90050**
Bassetti, A. (*with* Torricelli, C.) Optimal portfolio selection as a bargaining game. (*see* **93d:90003**)
Blume, Lawrence (*with* Easley, David) Evolution and market behavior. (English summary) **93g:90026**
Bossert, Walter Monotonic solutions for bargaining problems with claims. (English summary) **93g:90027**
— An alternative solution to bargaining problems with claims. (English summary) **93k:90031**
Castagnoli, Erio (*with* Mazzoleni, Piera) From an oriental market to the European monetary systems: some fuzzy-sets-related ideas. (*see* **93c:90002**)

Dalmazzo, Alberto Outside options in a bargaining model with decay in the size of the cake. (English summary)
Deneckere, Raymond J. *see* **Ausubel, Lawrence M., 93c:90030** *and* **93f:90050**
Donald, Stephen G. (*with* Paarsch, Harry J.) Piecewise pseudo-maximum likelihood estimation in empirical models of auctions. (English summary) **93i:90036**
Dubey, Pradeep (*with* Sahi, Siddhartha; Shubik, Martin) Repeated trade and the velocity of money. (English summary) **93j:90032**
Easley, David *see* **Blume, Lawrence, 93g:90026**
Grandy, Christopher The principle of maximum entropy and the difference between risk and uncertainty. (*see* **93h:00011**)
von Hagen, Jürgen Policy-delegation and fixed exchange rates. (English summary)
Hausch, Donald B. (*with* Li, Lode) A common value auction model with endogenous entry and information acquisition. (English summary)
Houba, Harold (*with* de Zeeuw, Aart J.) Strategic bargaining and difference games. (English summary) (*see* **93d:90003**)
Isaac, R. Mark *see* **Reynolds, Stanley S.**
Kesteloot, K. Multimarket cooperation with scope effects in demand. (English summary)
King, Ian (*with* Welling, Linda; McAfee, R. Preston) Investment decisions under first and second price auctions. (English summary) **93g:90028**
Klemisch-Ahlert, Marlies Distributive justice of bargaining and risk sensitivity. **93a:90018**
Lainé, Jean On the Nash equilibrium property of an auction matching game. **93e:90022**
Levikson, Benny *see* **Assaf, David, 93f:90049**
Lewis, Alain A. On the effective content of asymptotic verifications of Edgeworth's conjecture. **93d:90020**
Li, Lode *see* **Hausch, Donald B.**
Ma, Chenghu Market equilibrium with heterogeneous recursive-utility-maximizing agents. (English summary) **93m:90023**
Mandy, David M. Nonuniform Bertrand competition. (English summary) **93m:90024**
Mazzoleni, Piera *see* **Castagnoli, Erio, (93c:90002)**
McAfee, R. Preston Amicable divorce: dissolving a partnership with simple mechanisms. (English summary) **93e:90023**
— A dominant strategy double auction. (English summary) **93e:90024**
— *see also* **King, Ian; et al., 93g:90028**
Muthoo, Abhinay Sequential bargaining and competition. (English summary)
Nagurney, Anna (*with* Zhao, Lan) Variational inequalities and networks in the formulation and computation of market equilibria and disequilibria: the case of direct demand functions. (English summary) **93j:90033**
Paarsch, Harry J. *see* **Donald, Stephen G., 93i:90036**
Rauscher, Michael Cartel instability and periodic price shocks. (English summary)
Reynolds, Stanley S. (*with* Isaac, R. Mark) Stochastic innovation and product market organization. (English summary)
Sahi, Siddhartha *see* **Dubey, Pradeep; et al., 93j:90032**
Sertel, Murat R. The Nash bargaining solution manipulated by pre-donations is Talmudic. (English summary) **93i:90037**
Shubik, Martin (*with* Tsomocos, D. P.) A strategic market game with a mutual bank with fractional reserves and redemption in gold (a continuum of traders). (English summary) **93f:90051**
— *see also* **Dubey, Pradeep; et al., 93j:90032**
Tokarev, V. V. Guarantees and operative fault compensation in raw material deliveries. IV. Analysis of the market and of control methods. (Russian. Russian summary)
Torricelli, C. *see* **Bassetti, A., (93d:90003)**
Trockel, Walter Mathematik in der Wirtschaftstheorie am Beispiel der Struktur der Marktnachfrage. (German summary) [Mathematics in business theory using the example of the structure of market demand]
Tsomocos, D. P. *see* **Shubik, Martin, 93f:90051**
Wärneryd, Karl Communication, correlation, and symmetry in bargaining. (English summary) **93h:90030**
Welling, Linda *see* **King, Ian; et al., 93g:90028**
Young, H. Peyton An evolutionary model of bargaining. (English summary) **93m:90025**
de Zeeuw, Aart J. *see* **Houba, Harold, (93d:90003)**
Zhao, Lan *see* **Nagurney, Anna, 93j:90033**

Items with secondary classifications in 90A60

Bikhchandani, Sushil (*with* Segal, Uzi; Sharma, Sunil) Stochastic dominance under Bayesian learning. (English summary) **93h:90024**
Calvo, Guillermo A. (*with* Guidotti, Pablo E.) Optimal maturity of nominal government debt: an infinite-horizon model. (English summary)
Chun, Youngsub (*with* Thomson, William L.) Bargaining problems with claims. (English summary) **93d:90073**
Deng, Shu Hui (*with* Yang, She Tang) A model for medium- or long-term planning. (English summary)
Drèze, Jacques H. ★ Essays on economic decisions under uncertainty. **93b:90005**
Engel, Charles The risk premium and the liquidity premium in foreign exchange markets. (English summary)
Fernandez, Raquel Terms-of-trade uncertainty, incomplete markets and unemployment. (English summary)
Flåm, Sjur D. Approaching core solutions by means of continuous bargaining. (English summary) **93e:90075**
Fung, K. C. Economic integration as competitive discipline. (English summary)
Grant, Simon (*with* Kajii, Atsushi; Polak, Ben) Many good choice axioms: when can many-good lotteries be treated as money lotteries? (English summary) **93e:90007**
Guidotti, Pablo E. *see* **Calvo, Guillermo A.**
Harrington, Joseph E., Jr. Uncertainty over product differentiation in a price-setting duopoly: a nonrobustness result. (English summary) **93i:90118**
Kajii, Atsushi *see* **Grant, Simon; et al., 93e:90007**
Klompstra, Margriet B. A nonzero-sum game with variable final time. (English summary) **93e:90077**
McLennan, Andrew (*with* Sonnenschein, Hugo) Sequential bargaining as a noncooperative foundation for Walrasian equilibrium. **93a:90012**
Muto, Shigeo On licensing policies in Bertrand competition. (English summary) **93k:90124**
Panferov, V. N. (*with* Tsurkan, Yu. V.) On the resolution of conflict situations in differential-game-theoretic models of market relations in economics. (Russian. Russian summary)
Peck, James (*with* Shell, Karl; Spear, Stephen E.) The market game: existence and structure of equilibrium. **93a:90084**
Plum, Michael Characterization and computation of Nash-equilibria for auctions with incomplete information. **93b:90126**
Polak, Ben *see* **Grant, Simon; et al., 93e:90007**
Reitzes, James D. Quality choice, trade policy, and firm incentives. (English summary) **93f:90025**
Rotar', V. I. (*with* Smirnov, Eugene N.) The maximum incentive solutions in bargaining problems. (English summary) **93g:90094**
Safra, Zvi (*with* Zilcha, Itzhak) Bargaining solutions without the expected utility hypothesis. (English summary) **93k:90030**
Segal, Uzi *see* **Bikhchandani, Sushil; et al., 93h:90024**
Sharma, Sunil *see* **Bikhchandani, Sushil; et al., 93h:90024**
Shell, Karl *see* **Peck, James; et al., 93a:90084**
Smirnov, Eugene N. *see* **Rotar', V. I., 93g:90094**
Sonnenschein, Hugo *see* **McLennan, Andrew, 93a:90012**
Spear, Stephen E. *see* **Peck, James; et al., 93a:90084**
Thomson, William L. *see* **Chun, Youngsub, 93d:90073**
Tsurkan, Yu. V. *see* **Panferov, V. N.**
Weidner, F. The generalized Nash bargaining solution and incentive compatible mechanisms. (English summary) **93m:90107**
Yang, She Tang *see* **Deng, Shu Hui**
Zilcha, Itzhak *see* **Safra, Zvi, 93k:90030**

90A70 Macro-economic policy-making, taxation

Bagwell, Kyle (*with* Staiger, Robert W.) The sensitivity of strategic and corrective R & D policy in battles for monopoly. (English summary)
Burkov, V. N. (*with* Khokhlov, V. I.) Anti-expenditure taxation mechanisms. (Russian. Russian summary)
Gilli, Manfred Causal ordering and beyond. (English summary) **93f:90052**
Gradus, Raymond H. J. M. Optimal dynamic profit taxation: the derivation of feedback Stackelberg equilibria. (English summary)
Khokhlov, V. I. *see* **Burkov, V. N.**
Moyes, Patrick The through-time redistributive effect of income taxation: the intermediate inequality view. (English summary)
Staiger, Robert W. *see* **Bagwell, Kyle**

90A80 Resource allocation

Berliant, Marcus (*with* Thomson, William L.; Dunz, Karl) On the fair division of a heterogeneous commodity. **93a:90019**
Chintagunta, Pradeep (*with* Jain, Dipak) A study of manufacturer-retailer marketing strategies: a differential game approach. (English summary) (*see* **93d:90003**)
Dunz, Karl *see* **Berliant, Marcus; et al., 93a:90019**
Dutta, Prajit K. Finite horizon optimization: sensitivity and continuity in multi-sectoral models. (English summary) **93j:90034**
Gretsky, Neil E. (*with* Ostroy, Joseph M.; Zame, William R.) The nonatomic assignment model. **93d:90021**
Jain, Dipak *see* **Chintagunta, Pradeep, (93d:90003)**
Ostroy, Joseph M. *see* **Gretsky, Neil E.; et al., 93d:90021**
Röller, Lars-Hendrik (*with* Tombak, Mihkel M.) Entry with new multiproduct technologies. (English summary) (*see* **93d:90003**)
Thomson, William L. *see* **Berliant, Marcus; et al., 93a:90019**
Tombak, Mihkel M. *see* **Röller, Lars-Hendrik, (93d:90003)**
Vohra, Rajiv Equity and efficiency in nonconvex economies. (English summary) **93g:90029**
Zame, William R. *see* **Gretsky, Neil E.; et al., 93d:90021**
Zhang, Wei-Bin Trade and world economic growth: differences in knowledge utilization and creativity. (English summary) **93e:90025**

Items with secondary classifications in 90A80

Dutta, Prajit K. (*with* Sundaram, Rangarajan K.) Markovian equilibrium in a class of stochastic games: existence theorems for discounted and undiscounted models. **93h:90020**
Klein, Rachelle S. (*with* Luss, Hanan; Smith, Donald Robert) A lexicographic minimax algorithm for multiperiod resource allocation. **93c:90097**
Luss, Hanan *see* **Klein, Rachelle S.; et al., 93c:90097**
Polterovich, V. M. Rationing, queues, and black markets. (English summary) **93k:90023**
Sherali, Hanif D. (*with* Tuncbilek, Cihan H.) A squared-Euclidean distance location-allocation problem. **93a:90033**
Shitovitz, Benyamin Coalitional fair allocations in smooth mixed markets with an atomless sector. (English summary) **93j:90031**
Smith, Donald Robert *see* **Klein, Rachelle S.; et al., 93c:90097**
Sundaram, Rangarajan K. *see* **Dutta, Prajit K., 93h:90020**
Tuncbilek, Cihan H. *see* **Sherali, Hanif D., 93a:90033**

90A99 None of the above, but in this section

Mullen, Thomas A systems study and the fallacy of Perseus.
Thompson, Colin J. Chaos in economics and management. **93a:90020**

Items with secondary classifications in 90A99

Eydeland, Alexander *see* **Nagurney, Anna, 93f:90112**
Kohli, Rajeev (*with* Krishnamurti, Ramesh) A total-value greedy heuristic for the integer knapsack problem. (English summary) **93k:90055**
Krishnamurti, Ramesh *see* **Kohli, Rajeev, 93k:90055**

Nagurney, Anna (*with* Eydeland, Alexander) A splitting equilibration algorithm for the computation of large-scale constrained matrix problems: theoretical analysis and applications. (English summary) **93f:90112**

90Bxx Operations research and management science

(Coffman, Edward G., Jr.) *see* **Computing, 93i:90038**
(Lenstra, J. K.) *see* **Computing, 93i:90038**
(Rinnooy Kan, A. H. G.) *see* **Computing, 93i:90038**

Items listed otherwise than by author

Computing ★ Computing. **93i:90038**

Items with secondary classifications in 90Bxx

(Heyman, D. P.) *see* **Stochastic models, 93a:60001**
Kalvelagen, Erwin (*with* Tijms, Henk) ORSTAT: software for operations research and statistics. (English summary)
(Sobel, Matthew J.) *see* **Stochastic models, 93a:60001**
Tijms, Henk *see* **Kalvelagen, Erwin**

Items listed otherwise than by author

Stochastic models ★ Stochastic models. **93a:60001**

90B05 Inventory, storage, reservoirs

Anily, S. (*with* Federgruen, Awi) Two-echelon distribution systems with vehicle routing costs and central inventories. (English summary) **93i:90039**
Axsäter, Sven Optimization of order-up-to-S policies in two-echelon inventory systems with periodic review. (English summary)
Bae, Hyeong Ohk *see* **Poston, Timothy; et al., 93a:90022**
Bar-Lev, Shaul K. (*with* Parlar, Mahmut; Perry, David) Impulse control of a Brownian inventory system with supplier uncertainty. (English summary) **93j:90035**
Basu, Sujit Kumar (*with* Mukerjee, Rahul) Optimum ordering policy in a bicomponent inventory model: statistical aspects.
Bouakiz, Mokrane (*with* Sobel, Matthew J.) Inventory control with an exponential utility criterion. (English summary) **93g:90030**
Chand, Shubhag *see* **Gupta, Yash P., 93g:90031**
Chen, Fangruo (*with* Zheng, Yu-Sheng) Waiting time distribution in (T,S) inventory systems. (English summary) **93h:90031**
Dasgupta, Bandana *see* **Mukherjee, S. P.**
Dave, Upendra On probabilistic scheduling period inventory system with instantaneous demand. (English summary)
Federgruen, Awi *see* **Anily, S., 93i:90039**
Gallego, Guillermo A minmax distribution free procedure for the (Q,R) inventory model. **93a:90021**
— (*with* Shaw, Dong; Simchi-Levi, David) The complexity of the staggering problem, and other classical inventory problems. (English summary) **93f:90053**
Goh, Chon-Huat (*with* Greenberg, Betsy S.; Matsuo, Hirofumi) Perishable inventory systems with batch demand and arrivals. (English summary)
Greenberg, Betsy S. *see* **Goh, Chon-Huat; et al.**
Gu, Ji Fa *see* **Liu, Bao Ding, 93m:90026**
Gupta, Yash P. (*with* Chand, Shubhag) Inventory system analysis by Markov renewal processes. (English summary) **93g:90031**
van der Heijden, M. C. (*with* de Kok, A. G.) Customer waiting times in an (R,S) inventory system with compound Poisson demand. (English summary) **93j:90036**
Inoue, Manabu *see* **Kuriyama, Sennosuke; et al.**
Iqbal Basha, R. *see* **Krishnamoorthy, A.; et al.**
de Kok, A. G. *see* **van der Heijden, M. C., 93j:90036**
Krishnamoorthy, A. (*with* Lakshmy, B.) A continuous review inventory system with bulk demand and Markov dependent replenishment quantities. (English summary) **93f:90054**
— (*with* Narasimhulu, Y. C.; Iqbal Basha, R.) On perishable inventory with Markov chain demand quantities. (English summary)
Kuriyama, Sennosuke (*with* Nose, Toyokazu; Shiihara, Masatsugu; Inoue, Manabu) Studies of inventory and sales plannings for perishable commodities with respect to the properties of procurement leadtime. (Japanese. English summary)
Lakshmy, B. *see* **Krishnamoorthy, A., 93f:90054**
Lee, Chung-Nim *see* **Poston, Timothy; et al., 93a:90022**
Liu, Bao Ding (*with* Gu, Ji Fa) Probability criterion in inventory systems. (English summary) **93m:90026**
Liu, Li Ming A limited repair and continuous review (Q,S) inventory model. (Chinese. English and Chinese summaries)
Lototskii, V. A. (*with* Mandel′, A. S.) ★ Модели и методы управления запасами. (Russian. English and Russian summaries) [Models and methods of inventory control] **93k:90032**
Luo, Rong Gui An industry inventory model with variable demand and an optimal inventory policy. (Chinese. Chinese summary)
Mandel′, A. S. *see* **Lototskii, V. A., 93k:90032**
Matsuo, Hirofumi *see* **Goh, Chon-Huat; et al.**
Min, K. Jo Inventory and pricing policies under competition. (English summary) **93f:90055**
— Inventory and quantity discount pricing policies under profit maximization. (English summary)
Mukerjee, Rahul *see* **Basu, Sujit Kumar**
Mukherjee, S. P. (*with* Dasgupta, Bandana) An inventory problem revisited. (English summary)
— (*with* Dasgupta, Bandana) EOQ under permissible delay in payments. (English summary)
Narasimhulu, Y. C. *see* **Krishnamoorthy, A.; et al.**
Nose, Toyokazu *see* **Kuriyama, Sennosuke; et al.**
Parlar, Mahmut (*with* Rempała, Ryszarda) Stochastic inventory problem with piecewise quadratic holding cost function containing a cost-free interval. (English summary) **93f:90056**
— *see also* **Bar-Lev, Shaul K.; et al., 93j:90035**
Perry, David *see* **Bar-Lev, Shaul K.; et al., 93j:90035**
Porteus, Evan L. Stochastic inventory theory. (*see* **93a:60001**)
Poston, Timothy (*with* Bae, Hyeong Ohk; Lee, Chung-Nim) Bifurcation structure of the Eckalbar stock-holding model. **93a:90022**
Rempała, Ryszarda *see* **Parlar, Mahmut, 93f:90056**
Rose, John S. The newsboy with known demand and uncertain replenishment: applications to quality control and container fill. **93b:90025**
Shaw, Dong *see* **Gallego, Guillermo; et al., 93f:90053**
Shiihara, Masatsugu *see* **Kuriyama, Sennosuke; et al.**
Simchi-Levi, David *see* **Gallego, Guillermo; et al., 93f:90053**
Sobel, Matthew J. *see* **Bouakiz, Mokrane, 93g:90030**
Song, Jing Sheng (*with* Zipkin, Paul H.) Evaluation of base-stock policies in multiechelon inventory systems with state-dependent demands. I. State-independent policies. **93f:90057**
Triantaphyllou, Evangelos A sensitivity analysis of a (t_i, S_i) inventory policy with increasing demand. (English summary)
Vachani, Rita Performance of heuristics for the uncapacitated lot-size problem. (English summary)
Xuan, Jia Ji Economic analysis of the optimum inventory program. (Chinese. English and Chinese summaries)
Zheng, Yu-Sheng *see* **Chen, Fangruo, 93h:90031**
Zipkin, Paul H. *see* **Song, Jing Sheng, 93f:90057**

Items with secondary classifications in 90B05

Boland, Philip J. (*with* El-Neweihi, Emad; Proschan, Frank) Stochastic order for redundancy allocations in series and parallel systems. **93d:62166**
Ch'ên, Miao Shêng (*with* Lai, Kwei Kwei) A monopoly agent's optimal control on inventory and prices over a given selling planning horizon. (English summary)
El-Neweihi, Emad *see* **Boland, Philip J.; et al., 93d:62166**
Jagannathan, Raj Linear programming with stochastic processes as parameters as applied to production planning. **93a:90048**
Kallenberg, Lodewijk C. M. Separable Markovian decision problems. The linear programming method in the multichain case. (German summary) **93b:90106**
Lai, Kwei Kwei *see* **Ch'ên, Miao Shêng**
Proschan, Frank *see* **Boland, Philip J.; et al., 93d:62166**
Rempała, Ryszarda (*with* Sethi, Suresh P.) Decision and forecast horizons for one-dimensional optimal control problems: existence results and applications. (English summary) **93i:49008**
Savelsbergh, M. W. P. ★ Computer aided routing. **93k:90034**
Sethi, Suresh P. *see* **Rempała, Ryszarda, 93i:49008**
Shalamov, A. S. Probability characteristics of bounded quasi-Poisson processes of inventory control systems. (Russian) **93d:90022**
Stern, H. I. Optimal control of a facility with periodic interrupted demand. **93g:90039**

90B06 Transportation, logistics

Adamski, Andrzej Probabilistic models of passengers service processes at bus stops. (English summary)
Bertsimas, Dimitris J. A vehicle routing problem with stochastic demand. (English summary) **93i:90040**
Crainic, Teodor Gabriel (*with* Delorme, Louis) Dual-ascent procedures for multicommodity location-allocation problems with balancing requirements. (English summary)
Delorme, Louis *see* **Crainic, Teodor Gabriel**
Derigs, U. (*with* Metz, A.) A matching-based approach for solving a delivery/pick-up vehicle routing problem with time constraints. (English and German summaries) **93f:90058**
Desrochers, Martin *see* **Li, Chung-Lun; et al.**
Frizzell, Peter W. (*with* Giffin, J. W.) The bounded split delivery vehicle routing problem with grid network distances. (English summary)
Giffin, J. W. *see* **Frizzell, Peter W.**
Grega, Wojciech Decomposition approach to the public transport scheduling problem. (English summary)
Helbing, Dirk A fluid-dynamic model for the movement of pedestrians. (English summary) **93m:90027**
Li, Chung-Lun (*with* Simchi-Levi, David; Desrochers, Martin) On the distance constrained vehicle routing problem. (English summary)
Metz, A. *see* **Derigs, U., 93f:90058**
Shmyrëv, V. I. A version of a problem of transportation equilibrium. (Russian)
Simchi-Levi, David *see* **Li, Chung-Lun; et al.**
Solomon, D. I. Approximate algorithms for constructing a graph of the operation of drivers and buses on intercity routes. (Russian. Russian summary)

Items with secondary classifications in 90B06

Campbell, James F. Selecting routes to minimize urban travel time. (English summary)
Cao, Da Zhu *see* **Li, Li Yuan**
Casal, Alfonso C. (*with* Victoria Rodríguez, Susana) Functional-differential equations in traffic models. (Spanish) (*see* **93j:00009**)
Černý, Ján (*with* Kluvánek, Pavol) ★ Základy matematickej teórie dopravy. (Slovak) [Foundations of the mathematical theory of transportation] **93a:90002**
Falin, G. I. *see* **Khalil, Zohel; et al., 93c:60146**
Frederickson, Greg N. (*with* Guan, D. J.) Preemptive ensemble motion planning on a tree. (English summary) **93k:68043**
— A note on the complexity of a simple transportation problem. (English summary) **93m:90031**
Guan, D. J. *see* **Frederickson, Greg N., 93k:68043**
Gupta, Anju (*with* Khanna, Saroj; Puri, M. C.) Paradoxical situations in transportation problems. (English summary) **93m:90053**
Khalil, Zohel (*with* Falin, G. I.; Yang, Tao) Some analytical results for congestion in subscriber line modules. **93c:60146**
Khanna, Saroj *see* **Gupta, Anju; et al., 93m:90053**

Kim, Seong In *see* **Sherali, Hanif D., 93i:90114**
Kluvánek, Pavol *see* **Černý, Ján, 93a:90002**
Li, Chung-Lun (*with* McCormick, S. Thomas; Simchi-Levi, David) The point-to-point delivery and connection problems: complexity and algorithms. **93c:90031**
Li, Li Yuan (*with* Cao, Da Zhu) Optimal prediction of road traffic flow and optimal control of signals at intersections. (Chinese. English and Chinese summaries)
McCormick, S. Thomas *see* **Li, Chung-Lun; et al., 93c:90031**
Puri, M. C. *see* **Gupta, Anju; et al., 93m:90053**
Sherali, Hanif D. (*with* Kim, Seong In) Variational problems for determining optimal paths of a moving facility. (English summary) **93i:90114**
Simchi-Levi, David *see* **Li, Chung-Lun; et al., 93c:90031**
Victoria Rodríguez, Susana *see* **Casal, Alfonso C., (93j:00009)**
Yang, Tao *see* **Khalil, Zohel; et al., 93c:60146**
Yu, Ji Ying On the 0-1 transportation problem. (Chinese. English summary)

90B10 Flows in networks, deterministic

Ascheuer, N. (*with* Escudero, L. F.; Grötschel, Martin; Stoer, Mechthild) A cutting plane approach to the sequential ordering problem (with applications to job scheduling in manufacturing). (English summary) **93k:90033**
Barnhart, Cynthia Dual-ascent methods for large-scale multicommodity flow problems. (English summary)
— (*with* Sheffi, Yosef) A network-based primal-dual heuristic for the solution of multicommodity network flow problems. (English summary)
Batta, Rajan *see* **Sivakumar, Raj A.; et al.**
Benavent López, Enrique (*with* Campos, V.; Corberán, Á.; Mota, E.) The capacitated arc routing problem: lower bounds. (English summary) **93h:90032**
Berman, Oded (*with* Ingco, Divinagracia I.; Odoni, Amedeo R.) Improving the location of minisum facilities through network modification. (English summary) **93m:90028**
Bernstein, David *see* **Friesz, Terry L.; et al., 93j:90038**
Bertsekas, Dimitri P. Auction algorithms for network flow problems: a tutorial introduction. (English summary) **93h:90033**
Blain, Marie *see* **Marcotte, Patrice, (93d:90003)**
Bramel, Julien (*with* Coffman, Edward G., Jr.; Shor, Peter W.; Simchi-Levi, David) Probabilistic analysis of the capacitated vehicle routing problem with unsplit demands. (English summary) **93i:90041**
Campos, V. *see* **Benavent López, Enrique; et al., 93h:90032**
Cheng, Chung-Kuan (*with* Hu, Te Chiang) Maximum concurrent flows and minimum cuts. (English summary) **93h:90034**
Coffman, Edward G., Jr. *see* **Bramel, Julien; et al., 93i:90041**
Corberán, Á. *see* **Benavent López, Enrique; et al., 93h:90032**
Davidson, M. R. A subgradient method for solving the problem of the development of multicommodity networks with a viability guarantee. (Russian. Russian summary) **93m:90029**
Ervolina, Thomas R. (*with* McCormick, S. Thomas) Canceling most helpful total cuts for minimum cost network flow. (English summary) **93j:90037**
Escudero, L. F. *see* **Ascheuer, N.; et al., 93k:90033**
Francis, Richard Lane (*with* Lowe, Timothy J.) On worst-case aggregation analysis for network location problems. (English summary) **93m:90030**
Frederickson, Greg N. A note on the complexity of a simple transportation problem. (English summary) **93m:90031**
Friesz, Terry L. (*with* Bernstein, David; Smith, Tony E.; Tobin, Roger L.; Wie, B.-W.) A variational inequality formulation of the dynamic network user equilibrium problem. (English summary) **93j:90038**
Fujishige, Satoru (*with* Zhang, Xiaodong) New algorithms for the intersection problem of submodular systems. (English summary) **93m:90032**
Gautier, Antoine (*with* Granot, Frieda) A parametric analysis of a nonlinear asset allocation management model. (English summary) **93f:90059**
Goldberg, Andrew V. A natural randomization strategy for multicommodity flow and related algorithms. (English summary) **93g:90032**
Goldfarb, Donald (*with* Hao, Jianxiu) Polynomial-time primal simplex algorithms for the minimum cost network flow problem. **93f:90060**
Granot, Frieda *see* **Gautier, Antoine, 93f:90059**
Grötschel, Martin *see* **Ascheuer, N.; et al., 93k:90033**
Hao, Jianxiu *see* **Goldfarb, Donald, 93f:90060**
Hellstrand, Johan (*with* Larsson, Torbjörn; Migdalas, Athanasios) A characterization of the uncapacitated network design polytope. (English summary) **93f:90061**
Hirabayashi, Ryuichi *see* **Saruwatari, Yasufumi; et al., 93g:90034**
Hirata, Hironori Modelling of flow networks using information coding: an application to ecological systems. (English summary) (*see* **93c:90003**)
Hochbaum, Dorit S. An exact sublinear algorithm for the max-flow, vertex disjoint paths and communication problems on random graphs. (English summary)
Hu, Te Chiang *see* **Cheng, Chung-Kuan, 93h:90034**
Hu, Xuan Da (*with* Sheng, Zhao Han) Optimal time-interval formulas for streamlined production. (Chinese. English and Chinese summaries)
Ingco, Divinagracia I. *see* **Berman, Oded; et al., 93m:90028**
Jansen, Klaus Bounds for the general capacitated routing problem. (English summary) **93m:90033**
Karwan, Mark H. *see* **Sivakumar, Raj A.; et al.**
King, Valerie (*with* Rao, Satish; Tarjan, Robert Endre) A faster deterministic maximum flow algorithm. **93f:90062**
Kishi, Genya *see* **Kishimoto, Wataru; et al., 93m:90034**
Kishimoto, Wataru (*with* Takeuchi, Masashi; Kishi, Genya) Synthesis of flow networks minimizing the sum of edge capacities. (English summary) **93m:90034**
Larsson, Torbjörn *see* **Hellstrand, Johan; et al., 93f:90061**
(Lawler, E. L.) *see* **Traveling salesman problem, 93g:90035**
(Lenstra, J. K.) *see* **Traveling salesman problem, 93g:90035**
Li, Chung-Lun (*with* McCormick, S. Thomas; Simchi-Levi, David) The point-to-point delivery and connection problems: complexity and algorithms. **93c:90031**
Li, Yan Zhao *see* **Liu, Qiang; et al.**
Liu, Qiang (*with* Li, Yan Zhao; Zhong, Wan Xie) The cutting problem for the layout of rectangle graph units in a rectangular domain. (Chinese. English summary)
Lowe, Timothy J. *see* **Francis, Richard Lane, 93m:90030**
Marcotte, Patrice (*with* Blain, Marie) A Stackelberg-Nash model for the design of deregulated transit system. (*see* **93d:90003**)
McCormick, S. Thomas *see* **Li, Chung-Lun; et al., 93c:90031** *and* **Ervolina, Thomas R., 93j:90037**
Migdalas, Athanasios *see* **Hellstrand, Johan; et al., 93f:90061**
Mota, E. *see* **Benavent López, Enrique; et al., 93h:90032**
Nakano, Jun *see* **Tokuyama, Takeshi, (93b:68005)**
Nishida, Naonori *see* **Saruwatari, Yasufumi; et al., 93g:90034**
Odoni, Amedeo R. *see* **Berman, Oded; et al., 93m:90028**
Orlin, James B. A faster strongly polynomial minimum cost flow algorithm. (English summary)
Perttunen, Jukka On the solving strategy in composite heuristics. (English summary)
Phan Thiên Thạch A decomposition method using a pricing mechanism for min concave cost flow problems with a hierarchical structure. **93b:90026**
Rao, Satish *see* **King, Valerie; et al., 93f:90062**
(Rinnooy Kan, A. H. G.) *see* **Traveling salesman problem, 93g:90035**
Rubinstein, J. H. (*with* Thomas, D. A.) A variational approach to the Steiner network problem. **93g:90033**
Saruwatari, Yasufumi (*with* Hirabayashi, Ryuichi; Nishida, Naonori) Node duplication lower bounds for the capacitated arc routing problem. (English summary) **93g:90034**
Savelsbergh, M. W. P. ★ Computer aided routing. **93k:90034**
Shahrokhi, Farhad Duality theorems for the maximum concurrent flow problem. **93c:90032**
Sheffi, Yosef *see* **Barnhart, Cynthia**
Sheng, Zhao Han *see* **Hu, Xuan Da**
(Shmoys, David B.) *see* **Traveling salesman problem, 93g:90035**
Shor, Peter W. *see* **Bramel, Julien; et al., 93i:90041**
Simchi-Levi, David *see* **Li, Chung-Lun; et al., 93c:90031** *and* **Bramel, Julien; et al., 93i:90041**
Sivakumar, Raj A. (*with* Batta, Rajan; Karwan, Mark H.) A network-based model for transporting extremely hazardous materials. (English summary)
Smith, Tony E. *see* **Friesz, Terry L.; et al., 93j:90038**
Stoer, Mechthild *see* **Ascheuer, N.; et al., 93k:90033**
Takeuchi, Masashi *see* **Kishimoto, Wataru; et al., 93m:90034**
Tarjan, Robert Endre *see* **King, Valerie; et al., 93f:90062**
Thomas, D. A. *see* **Rubinstein, J. H., 93g:90033**
Tobin, Roger L. *see* **Friesz, Terry L.; et al., 93j:90038**
Tokuyama, Takeshi (*with* Nakano, Jun) Efficient algorithms for the Hitchcock transportation problem. (*see* **93b:68005**)
Trubin, V. A. Strength of a network, its amplification and packing of trees. (Russian. English and Ukrainian summaries) **93a:90023**
Wie, B.-W. *see* **Friesz, Terry L.; et al., 93j:90038**
Zhang, Xiaodong *see* **Fujishige, Satoru, 93m:90032**
Zhong, Wan Xie *see* **Liu, Qiang; et al.**

Items listed otherwise than by author

Traveling salesman problem ★ The traveling salesman problem. **93g:90035**

Items with secondary classifications in 90B10

Ageev, A. A. A polynomial algorithm for solving the location problem on a series-parallel network. (Russian) **93g:90081**
Anderson, Edward J. (*with* Aramendia, Miguel) A linear programming approach to the search game on a network with mobile hider. **93b:90123**
Anily, S. (*with* Hassin, Refael) The swapping problem. **93c:05057**
Aramendia, Miguel *see* **Anderson, Edward J., 93b:90123**
Bambos, Nicholas On closed ring queueing networks. (English summary) **93h:60145**
Bein, Wolfgang W. (*with* Brucker, P.; Stallmann, Matthias F. M.) A characterization of network representable polymatroids. (German summary) **93g:90082**
Bennett, L. *see* **Sheer, A.; et al., 93h:90038**
Beresnev, V. L. (*with* Zholdoshev, A. Zh.) An algorithm for a problem on maximal flow with gains. (Russian) **93c:90095**
(Bermond, Jean-Claude) *see* **Interconnection networks, 93j:00012**
Bertsimas, Dimitris J. A vehicle routing problem with stochastic demand. (English summary) **93i:90040**
Bianco, Lucio (*with* Mingozzi, Aristide; Ricciardelli, Salvatore) The traveling salesman problem with cumulative costs. (English summary) **93j:90081**
Booth, R. S. The Steiner ratio for five points. **93h:05054**
Brandeau, Margaret L. (*with* Chiu, Samuel S.) A center location problem with congestion. (English summary) **93m:90043**
Brucker, P. *see* **Bein, Wolfgang W.; et al., 93g:90082**
Buzacott, John A. (*with* Shanthikumar, J. George) Design of manufacturing systems using queueing models. (English summary) **93h:90041**
Chiu, Samuel S. *see* **Brandeau, Margaret L., 93m:90043**
Chu, Chengbin Efficient heuristics to minimize total flow time with release dates. (English summary)
Csaba, László (*with* Faudree, Ralph J.; Gyárfás, András; Lehel, Jenő; Schelp, Richard H.) Networks communicating for each pairing of terminals. (English summary) **93h:05097**
Du, Ding Zhu (*with* Zhang, Yanjun) On better heuristics for Steiner minimum trees. (English summary) **93i:90101**
Eiselt, Horst A. (*with* Gendreau, Michel; Laporte, Gilbert) Location of facilities on a network subject to a single-edge failure. **93b:90039**
El Baz, Didier *see* **Ribeiro, Cassilda, (93e:90003)**
Erdős, Péter L. (*with* Székely, László A.) Evolutionary trees: an integer multicommodity max-flow–min-cut theorem. (English summary) **93j:05038**
Evans, James R. (*with* Minieka, Edward) ★ Optimization algorithms for networks and graphs. **93j:90002**
Faudree, Ralph J. *see* **Csaba, László; et al., 93h:05097**

Frederickson, Greg N. (*with* Guan, D. J.) Preemptive ensemble motion planning on a tree. (English summary) **93k:68043**
Fredman, M. L. (*with* Johnson, David Stifler; McGeoch, L. A.; Ostheimer, G.) Data structures for traveling salesmen. (English summary) (*see* **93k:05002**)
Fukushima, Masao *see* **Ibaraki, Satoru; et al., 93f:90172**
Gendreau, Michel *see* **Eiselt, Horst A.; et al., 93b:90039**
Granot, Frieda (*with* Penn, Michal) On the integral plane two-commodity flow problem. (English summary) **93d:05075**
Guan, D. J. *see* **Frederickson, Greg N., 93k:68043**
Gustfield, Dan (*with* Martel, Charles) A fast algorithm for the generalized parametric minimum cut problem and applications. **93b:90072**
Gyárfás, András *see* **Csaba, László; et al., 93h:05097**
Hassin, Refael *see* **Anily, S., 93c:05057**
Hearn, Donald W. *see* **Ventura, Jose A., 93k:90100**
Her, Shenq-Shyong *see* **Murthy, Ishwar**
Ibaraki, Satoru (*with* Fukushima, Masao; Ibaraki, Toshihide) Dual-based Newton methods for nonlinear minimum cost network flow problems. **93f:90172**
Ibaraki, Toshihide *see* **Ibaraki, Satoru; et al., 93f:90172**
Janiga, Ladislav (*with* Koubek, Václav) Minimum cut in directed planar networks. **93b:90103**
Johnson, David Stifler *see* **Fredman, M. L.; et al., (93k:05002)**
Kasugai, Hiroshi *see* **Kubo, Mikio, 93h:90125**
Kleinman, David L. *see* **Tang, Zhuang-Bo; et al.**
Koubek, Václav *see* **Janiga, Ladislav, 93b:90103**
Kubo, Mikio (*with* Kasugai, Hiroshi) On the core of the network design game. (English summary) **93h:90125**
Laporte, Gilbert *see* **Eiselt, Horst A.; et al., 93b:90039**
Lehel, Jenő *see* **Csaba, László; et al., 93h:05097**
Magirou, Vangelis F. An improved partial solution to the task assignment and multiway cut problems. (English summary) **93f:90101**
Martel, Charles *see* **Gustfield, Dan, 93b:90072**
McGeoch, L. A. *see* **Fredman, M. L.; et al., (93k:05002)**
Miller, Zevi (*with* Perkel, Manley) The Steiner problem in the hypercube. **93d:05095**
Mingozzi, Aristide *see* **Bianco, Lucio; et al., 93j:90081**
Minieka, Edward *see* **Evans, James R., 93j:90002**
Morgan, Frank Minimal surfaces, crystals, shortest networks, and undergraduate research. **93h:53012**
Murthy, Ishwar (*with* Her, Shenq-Shyong) Solving min-max shortest-path problems on a network.
Murty, Katta G. ★ Network programming. **93k:90001**
Nabona, Narcís (*with* Verdejo, Josep M.) Numerical implementation of nonlinear multicommodity network flows with linear side constraints through price-directive decomposition. (*see* **93e:90003**)
Nagurney, Anna ★ Network economics: a variational inequality approach. (English. English summary) **93m:90002**
Ostheimer, G. *see* **Fredman, M. L.; et al., (93k:05002)**
Pattipati, Krishna R. *see* **Tang, Zhuang-Bo; et al.**
Penn, Michal *see* **Granot, Frieda, 93d:05075**
Perkel, Manley *see* **Miller, Zevi, 93d:05095**
Pinar, Mustafa Ç. *see* **Zenios, Stavros A., 93f:90177**
Plastria, Frank When facilities coincide: exact optimality conditions in multifacility location. (English summary) **93g:90046**
Plotkin, Serge A. (*with* Shmoys, David B.; Tardos, Éva) Fast approximation algorithms for fractional packing and covering problems. (English summary) **93j:90083**
Rabinovitch, Ramon (*with* Tamir, Arie) On a tree-shaped facility location problem of Minieka. (English summary) **93g:90045**
Ribeiro, Cassilda (*with* El Baz, Didier) A dual method for optimal routing in packet-switched networks. (*see* **93e:90003**)
Ricciardelli, Salvatore *see* **Bianco, Lucio; et al., 93j:90081**
Righter, Rhonda (*with* Shanthikumar, J. George) Extremal properties of the FIFO discipline in queueing networks. (English summary) **93i:60177**
Rubinstein, J. H. (*with* Thomas, D. A.; Weng, Jia Feng) Degree-five Steiner points cannot reduce network costs for planar sets. (English summary) **93g:05041**
Ruhe, Günther ★ Algorithmic aspects of flows in networks. **93a:90003**
Schelp, Richard H. *see* **Csaba, László; et al., 93h:05097**
Shanthikumar, J. George *see* **Buzacott, John A., 93h:90041** *and* **Righter, Rhonda, 93i:60177**
Sheer, A. (*with* Simhairi, N.; Bennett, L.) Trees, cycles and sensitivity of the traffic assignment problem. (English summary) **93h:90038**
Shmoys, David B. *see* **Plotkin, Serge A.; et al., 93j:90083**
Simhairi, N. *see* **Sheer, A.; et al., 93h:90038**
Snyder, Timothy Law (*with* Steele, J. Michael) Equidistribution of point sets for the traveling salesman and related problems. (English summary) **93m:90092**
Sologub, D. M. An iterative method for computing closed queueing networks. (Russian. English and Ukrainian summaries)
Stallmann, Matthias F. M. *see* **Bein, Wolfgang W.; et al., 93g:90082**
Steele, J. Michael *see* **Snyder, Timothy Law, 93m:90092**
Swamy, M. N. S. *see* **Thulasiraman, K., 93f:05002**
Székely, László A. *see* **Erdős, Péter L., 93j:05038**
Tamir, Arie *see* **Rabinovitch, Ramon, 93g:90045**
Tang, Zhuang-Bo (*with* Pattipati, Krishna R.; Kleinman, David L.) Optimization of detection networks. I. Tandem structures. (English summary)
Tardos, Éva *see* **Plotkin, Serge A.; et al., 93j:90083**
Thomas, D. A. *see* **Rubinstein, J. H.; et al., 93g:05041**
Thulasiraman, K. (*with* Swamy, M. N. S.) ★ Graphs: theory and algorithms. **93f:05002**
Ventura, Jose A. (*with* Hearn, Donald W.) Restricted simplicial decomposition for symmetric convex flow problems. (English summary) **93k:90100**
Verdejo, Josep M. *see* **Nabona, Narcís, (93e:90003)**
Vishwanathan, Sundar An approximation algorithm for the asymmetric travelling salesman problem with distances one and two. (English summary) **93h:68063**
Waissi, Gary R. A new polynomial algorithm for maximum value flow with an efficient parallel implementation. (English summary) **93i:90104**
Warren, Richard H. Revisiting the 0, 1 assignment problem. **93d:05032**
Watts, A. M. Variational principles, duality, Legendre transformations and mine shaft ventilation. (English summary) **93j:49040**
Weng, Jia Feng *see* **Rubinstein, J. H.; et al., 93g:05041**
Zenios, Stavros A. (*with* Pinar, Mustafa Ç.) Parallel block-partitioning of truncated Newton for nonlinear network optimization. (English summary) **93f:90177**
Zhang, Yanjun *see* **Du, Ding Zhu, 93i:90101**
Zholdoshev, A. Zh. *see* **Beresnev, V. L., 93c:90095**
Zhuang, Jian Qiu A simulating algorithm for the traveling salesman problem. (Chinese. English summary)
Zimmermann, Uwe Negative circuits for flows and submodular flows. **93f:90178**

Items listed otherwise than by author

Interconnection networks ★ Interconnection networks. **93j:00012**

90B12 Communication networks [see also 68M10, 94A05]

Bar-David, Israel *see* **Etzion, Tuvi, 93g:90036**
Bitan, Sara (*with* Zaks, Shmuel) Optimal linear broadcast. (English summary) **93m:90035**
Chang, Chên Hua *see* **Li, Hsün Ming, 93i:90043**
Chang, Yih-Long (*with* Liu, Howard; Shen, Sheldon) Analysis of a CSMA/CD priority protocol. (English summary) **93f:90063**
Etzion, Tuvi (*with* Bar-David, Israel) An explicit construction of Euler circuits in shuffle nets and related networks. (English summary) **93g:90036**
Fernández de la Vega, W. (*with* Manoussakis, Yannis) The forwarding index of communication networks with given connectivity. (English summary) **93i:90042**
Gargano, Luisa (*with* Vaccaro, Ugo) Minimum time broadcast networks tolerating a logarithmic number of faults. **93f:90064**
Hwang, F. K. (*with* Richards, G. W.) A two-stage network with dual partial concentrators. (English summary) **93h:90035**
Koh, Jae-moon (*with* Tcha, Dong-wan) Local broadcasting in a tree under minisum criterion. (English summary) **93j:90039**
Ku-Mahamud, Ku Ruhana *see* **Othman, Abu Talib; et al., (93k:62003)**
Li, Hsün Ming (*with* Chang, Chên Hua) Set to set broadcasting in communication networks. (English summary) **93i:90043**
Liu, Howard *see* **Chang, Yih-Long; et al., 93f:90063**
Manoussakis, Yannis *see* **Fernández de la Vega, W., 93i:90042**
Mohemed, Monem A. Traffic signal control of a network system. (English summary)
Moreno, Oscar (*with* Schiappacasse, Oscar; Zhan, Zheng) Optical orthogonal codes for a large number of users. (English summary) **93k:90035**
Navathe, Shamkant B. *see* **Rivera-Vega, Pedro I.; et al., 93e:90026**
Othman, Abu Talib (*with* Ku-Mahamud, Ku Ruhana; Selamat, M. H.) Analytical analysis of decentralized controlled general data communication networks. (English summary) (*see* **93k:62003**)
Richards, G. W. *see* **Hwang, F. K., 93h:90035**
Rivera-Vega, Pedro I. (*with* Varadarajan, Ravi; Navathe, Shamkant B.) Scheduling file transfers in fully connected networks. (English summary) **93e:90026**
Robinson, Derek R. The optimality of fixed channel assignment policies for cellular radio systems. **93f:90065**
Schiappacasse, Oscar *see* **Moreno, Oscar; et al., 93k:90035**
Selamat, M. H. *see* **Othman, Abu Talib; et al., (93k:62003)**
Shen, Sheldon *see* **Chang, Yih-Long; et al., 93f:90063**
Tcha, Dong-wan *see* **Koh, Jae-moon, 93j:90039**
Vaccaro, Ugo *see* **Gargano, Luisa, 93f:90064**
Varadarajan, Ravi *see* **Rivera-Vega, Pedro I.; et al., 93e:90026**
Zaks, Shmuel *see* **Bitan, Sara, 93m:90035**
Zhan, Zheng *see* **Moreno, Oscar; et al., 93k:90035**

Items with secondary classifications in 90B12

Alon, Noga (*with* Bar-Noy, Amotz; Linial, Nathan; Peleg, David) Single round simulation on radio networks. (English summary) **93m:68011**
Anantharam, Venkat On fast simulation of the time to saturation of slotted ALOHA. **93g:60206**
Ayoub, Jamil Edge connectivity of communication networks. (English and Arabic summaries) **93j:05098**
Bagchi, Amitava (*with* Schmeichel, Edward; Hakimi, S. Louis) Sequential information dissemination by packets. **93c:68006**
Bar-Noy, Amotz *see* **Alon, Noga; et al., 93m:68011**
Bar-Yehuda, Reuven (*with* Goldreich, Oded; Itai, Alon) On the time-complexity of broadcast in multi-hop radio networks: an exponential gap between determinism and randomization.
Bermond, Jean-Claude (*with* Hell, Pavol; Liestman, Arthur L.; Peters, Joseph G.) Sparse broadcast graphs. **93a:68011**
Bertsekas, Dimitri P. *see* **Varvarigos, Emmanouel A., 93j:68019**
Brown, Jason I. (*with* Colbourn, Charles J.; Devitt, John S.) Network transformations and bounding network reliability. (English summary) **93k:68012**
Cai, Leizhen (*with* Corneil, Derek G.) Tree spanners: an overview. (English summary) **93j:05037**
Chandrasekaran, R. *see* **Sridhar, S., 93j:90122**
Ch'ên, Yen Liang An algorithm for finding the k quickest paths in a network. (English summary) **93h:68112**
Cheng, Siu Wing *see* **Janardan, Ravi, 93a:68118**
Chopra, Sunil Polyhedra of the equivalent subgraph problem and some edge connectivity problems. **93k:05099**
Colbourn, Charles J. *see* **Brown, Jason I.; et al., 93k:68012**
Corneil, Derek G. *see* **Cai, Leizhen, 93j:05037**
Das, Sajal K. Designing recursive networks combinatorially. **93c:68004**
Devitt, John S. *see* **Brown, Jason I.; et al., 93k:68012**

van Dijk, Nico M. Transient error bound analysis for continuous-time Markov reward structures. **93a:90026**
Diks, Krzysztof (*with* Pelc, Andrzej) Almost safe gossiping in bounded degree networks. **93j:05092**
Dolev, Danny (*with* Feder, Tomás) Determinism vs. nondeterminism in multiparty communication complexity. (English summary) **93i:68019**
Falin, G. I. Phase transitions in overloaded computer and communication systems. (*see* **93k:00029**)
Faudree, Ralph J. Properties in pairable graphs. **93d:05069**
Feder, Tomás *see* **Dolev, Danny, 93i:68019**
Ferrandiz, Josep M. (*with* Lazar, Aurel A.) Monitoring the packet gap of real-time packet traffic. (English summary) **93i:60170**
Flores, Christopher Diffusion approximations for computer communications networks. **93c:60144**
Gargano, Luisa Tighter time bounds on fault-tolerant broadcasting and gossiping. **93e:68006**
Goldreich, Oded *see* **Bar-Yehuda, Reuven; et al.**
Graham, C. Robin (*with* Méléard, Sylvie) Propagation of chaos for a fully connected loss network with alternate routing. (English summary) **93h:60163**
Grötschel, Martin (*with* Monma, Clyde L.; Stoer, Mechthild) Facets for polyhedra arising in the design of communication networks with low-connectivity constraints. **93f:90134**
Hakimi, S. Louis *see* **Bagchi, Amitava; et al., 93c:68006**
Han, Ching-Chih (*with* Lin, Kwei-Jay) Scheduling real-time computations with separation constraints. **93c:90037**
Harary, Frank (*with* Hayes, John P.) Edge fault tolerance in graphs. (English summary) **93i:05106**
Hayashi, Masahiro Network reliability analysis using dual graph. **93a:94046**
Hayes, John P. *see* **Harary, Frank, 93i:05106**
Hell, Pavol *see* **Bermond, Jean-Claude; et al., 93a:68011** *and* **de Werra, D.; et al., 93i:68031**
Itai, Alon *see* **Bar-Yehuda, Reuven; et al.**
Janardan, Ravi (*with* Cheng, Siu Wing) Efficient distributed algorithms for single-source shortest paths and related problems on plane networks. **93a:68118**
Kameda, Tsunehiko *see* **de Werra, D.; et al., 93i:68031**
Katoh, Naoki *see* **de Werra, D.; et al., 93i:68031**
Kishi, Genya *see* **Kishimoto, Wataru; et al., 93m:90034**
Kishimoto, Wataru (*with* Takeuchi, Masashi; Kishi, Genya) Synthesis of flow networks minimizing the sum of edge capacities. (English summary) **93m:90034**
Lazar, Aurel A. *see* **Ferrandiz, Josep M., 93i:60170**
Lebah, M. (*with* Pellaumail, J.) Transient behavior for some Jackson networks. (English summary) **93k:90038**
Liestman, Arthur L. (*with* Peters, Joseph G.) Minimum broadcast digraphs. (English summary) **93j:94041**
— (*with* Shermer, Thomas C.) Grid spanners. (English summary) **93j:68017**
— *see also* **Bermond, Jean-Claude; et al., 93a:68011**
Lin, Kwei-Jay *see* **Han, Ching-Chih, 93c:90037**
Linial, Nathan *see* **Alon, Noga; et al., 93m:68011**
Lyuu, Yuh-Dauh Fast fault-tolerant parallel communication and on-line maintenance for hypercubes using information dispersal. **93a:68013**
Méléard, Sylvie *see* **Graham, C. Robin, 93h:60163**
Monma, Clyde L. *see* **Grötschel, Martin; et al., 93f:90134**
Pelc, Andrzej *see* **Diks, Krzysztof, 93j:05092**
Peleg, David *see* **Alon, Noga; et al., 93m:68011**
Pellaumail, J. Décomposition de M-matrice et buffer d'un multiplexeur ATM. (English summary) [M-matrix decomposition and buffer of an ATM multiplexor] **93c:65060**
— *see also* **Lebah, M., 93k:90038**
Peters, Joseph G. *see* **Bermond, Jean-Claude; et al., 93a:68011** *and* **Liestman, Arthur L., 93j:94041**
Postan, M. Ya. A class of mixed Markov processes and their application in teletraffic theory. (Russian. Russian summary) **93j:60103**
Rajasekaran, Sanguthevar (*with* Tsantilas, Thanasis) Optimal routing algorithms for mesh-connected processor arrays.
Sanders, Bart *see* **Wallin, J. F. E., 93g:90040**
Schmeichel, Edward *see* **Bagchi, Amitava; et al., 93c:68006**
Servatius, Brigitte *see* **Shi, Wei Geng, 93d:94033**
Shermer, Thomas C. *see* **Liestman, Arthur L., 93j:68017**
Shi, Wei Geng (*with* Servatius, Brigitte) Improving the reliability of computer communication networks. **93d:94033**
— Reconnectable network with limited resources. **93f:68015**
Solot, Ph. *see* **de Werra, D.; et al., 93i:68031**
Sridhar, S. (*with* Chandrasekaran, R.) Integer solution to synthesis of communication networks. (English summary) **93j:90122**
Stoer, Mechthild *see* **Grötschel, Martin; et al., 93f:90134**
Takeuchi, Masashi *see* **Kishimoto, Wataru; et al., 93m:90034**
Tsantilas, Thanasis *see* **Rajasekaran, Sanguthevar**
Varvarigos, Emmanouel A. (*with* Bertsekas, Dimitri P.) Communication algorithms for isotropic tasks in hypercubes and wraparound meshes. (English summary) **93j:68019**
Wallin, J. F. E. (*with* Sanders, Bart) The calculation of overflow moments in loss systems with selective trunk reservation. (English summary) **93g:90040**
Weng, Jia Feng Degenerate Gilbert-Steiner trees. **93k:05049**
de Werra, D. (*with* Hell, Pavol; Kameda, Tsunehiko; Katoh, Naoki; Solot, Ph.; Yamashita, Masafumi) Graph endpoint coloring and distributed processing. (English summary) **93i:68031**
Yamashita, Masafumi *see* **de Werra, D.; et al., 93i:68031**
Yang, Chu Sing Reliability analysis on the multiple-loop network. (English summary) **93i:90048**

90B15 Flows in networks, probabilistic

Barahona, Francisco (*with* Cabrelli, Carlos A.; Molter, Ursula M.) Computing the Hutchinson distance by network flows. (English summary)
Birge, John R. (*with* Ho, James K.) Optimal flows in stochastic dynamic networks with congestion. (English summary) **93i:90044**
Cabrelli, Carlos A. *see* **Barahona, Francisco; et al.**
Fishman, George S. (*with* Rubin, David S.) Bounding the variance in Monte Carlo experiments. (English summary) **93f:90066**
Ho, James K. *see* **Birge, John R., 93i:90044**
Jaillet, Patrick Shortest path problems with node failures. (English summary) **93g:90037**
Kamburowski, Jerzy Bounding the distribution of project duration in PERT networks. (English summary) **93f:90067**
Kasugai, Hiroshi *see* **Kubo, Mikio, 93h:90036**
Kubo, Mikio (*with* Kasugai, Hiroshi) The probabilistic network design problem. (English summary) **93h:90036**
Laws, C. N. Resource pooling in queueing networks with dynamic routing. **93h:90037**
Molter, Ursula M. *see* **Barahona, Francisco; et al.**
Nielsen, Soren S. (*with* Zenios, Stavros A.) A massively parallel algorithm for nonlinear stochastic network problems. (English summary)
Rubin, David S. *see* **Fishman, George S., 93f:90066**
Yavin, Yaakov Optimal stopping and control of dynamic routing in networks. (English summary) **93i:90045**
— Optimal stochastic switching of dynamic routing in networks. (English summary) **93k:90036**
Zenios, Stavros A. *see* **Nielsen, Soren S.**

Items with secondary classifications in 90B15

Chen, Hong[3] (*with* Mandelbaum, Avi) Stochastic discrete flow networks: diffusion approximations and bottlenecks. **93a:60143**
— *see also* **Xu, Susan H., 93m:93100**
Diks, Krzysztof (*with* Pelc, Andrzej) Almost safe gossiping in bounded degree networks. **93j:05092**
Graham, C. Robin (*with* Méléard, Sylvie) Propagation of chaos for a fully connected loss network with alternate routing. (English summary) **93h:60163**
Konsowa, Mokhtar H. Some criteria for the transience of simple random walks on trees. **93d:60112**
Mandelbaum, Avi *see* **Chen, Hong[3], 93a:60143**
Méléard, Sylvie *see* **Graham, C. Robin, 93h:60163**
Pelc, Andrzej *see* **Diks, Krzysztof, 93j:05092**
Pittel, Boris Correction: "Paths in a random digital tree: limiting distributions" [Adv. in Appl. Probab. **18** (1986), no. 1, 139–155; MR 87k:68021].
Reiman, Martin I. (*with* Simon, Burton; Willie, J. Stanford) Simterpolation: a simulation based interpolation approximation for queueing systems. (English summary) **93f:90078**
Simon, Burton *see* **Reiman, Martin I.; et al., 93f:90078**
Willie, J. Stanford *see* **Reiman, Martin I.; et al., 93f:90078**
Xu, Susan H. (*with* Chen, Hong[3]) On the asymptote of the optimal routing policy for two service stations. (English summary) **93m:93100**

90B20 Highway traffic

Bennett, L. *see* **Sheer, A.; et al., 93h:90038**
Carey, Malachy (*with* Srinivasan, Ashok) Externalities, average and marginal costs, and tolls on congested networks with time-varying flows. (English summary)
Casal, Alfonso C. (*with* Victoria Rodríguez, Susana) Functional-differential equations in traffic models. (Spanish) (*see* **93j:00009**)
Chen, Wei Yu *see* **Yang, Jian Qing; et al.**
Papola, Natale Bandwidth maximization: split and unsplit solutions. (English summary)
Roberts, Fred S. (*with* Xu, Yong Hua[2]) On the optimal strongly connected orientations of city street graphs. III. Three east-west avenues or north-south streets. **93f:90068**
Sheer, A. (*with* Simhairi, N.; Bennett, L.) Trees, cycles and sensitivity of the traffic assignment problem. (English summary) **93h:90038**
Silcock, J. P. Phase-based optimisation of isolated signal-controlled junctions: sensitivity analysis and a treatment of double green phases. (English summary) **93h:90039**
Simhairi, N. *see* **Sheer, A.; et al., 93h:90038**
Srinivasan, Ashok *see* **Carey, Malachy**
Victoria Rodríguez, Susana *see* **Casal, Alfonso C., (93j:00009)**
Xu, Nan Rong *see* **Yang, Jian Qing; et al.**
Xu, Yong Hua[2] *see* **Roberts, Fred S., 93f:90068**
Yang, Jian Qing (*with* Chen, Wei Yu; Xu, Nan Rong) A study of a road network traffic system model and its characteristics. (Chinese. English and Chinese summaries)

Items with secondary classifications in 90B20

Asmussen, Søren (*with* Rubinstein, Reuven Y.) The efficiency and heavy traffic properties of the score function method in sensitivity analysis of queueing models. **93d:60152**
(Griffiths, J. D.) *see* **Mathematics in transport planning and control, 93g:90003**
Rubinstein, Reuven Y. *see* **Asmussen, Søren, 93d:60152**
Varaiya, Pravin Smart cars on smart roads: problems of control. (English summary) **93j:93093**

Items listed otherwise than by author

Cardiff ★ Mathematics in transport planning and control. **93g:90003**
Conference:
Mathematics in Transport Planning and Control ★ Mathematics in transport planning and control. **93g:90003**
Mathematics in transport planning and control ★ Mathematics in transport planning and control. **93g:90003**

90B22 Queues and service [see also 60K25, 68M20]

Adan, Ivo Jean-Baptiste François (*with* Wessels, Jaap; Zijm, W. H. M.) Matrix-geometric analysis of the shortest queue problem with threshold jockeying. (English summary) **93m:90036**
Agarwal, Manju *see* **Chaudhry, Mohan L.; et al., 93m:90037**

Aicardi, Michele (*with* Minciardi, Riccardo; Pesenti, Raffaele) Minimizing the customer mean flow time in simple queue networks: upper and lower bounds. (*see* **93e:90003**)
Alfa, Attahiru Sule (*with* Gupta, Yash P.) Quality control in manufacturing systems using $M/G/1$ queues with $(N+1)$ different inspection rates. (English summary)
Arian, Yair (*with* Levy, Yonatan) Algorithms for generalized round robin routing. (English summary)
Asmussen, Søren Queueing simulation in heavy traffic. **93e:90027**
Atatdzhanov, Kh. L. Limit distributions of the time of first customer loss in two-level queueing systems. (Russian. Russian summary)
Azar, Yossi (*with* Naor, Joseph; Rom, Raphael) The competitiveness of on-line assignments. (*see* **93b:68005**)
Badrinath, Vivek *see* **Mazumdar, Ravi R.; et al., 93g:90038**
Bergholz, G. (*with* Richter, K.) Performance evaluation of computer networks with blockings. (English summary) (*see* **93e:00021**)
Bertsimas, Dimitris J. (*with* Servi, L. D.) Deducing queueing from transactional data: the queue inference engine, revisited. **93h:90040**
Bitran, Gabriel R. (*with* Dasu, Sriram) A review of open queueing network models of manufacturing systems. (English summary)
Blanc, J. P. C. (*with* de Waal, Peter R.; Nain, Philippe; Towsley, Donald) Optimal control of admission to a multiserver queue with two arrival streams. **93c:90033**
Boguslavskiĭ, L. B. (*with* Coffman, Edward G., Jr.; Gilbert, Edgar N.; Kreinin, A. Ya.) Scheduling checks and saves. (English summary)
Boyer, Jacqueline *see* **Guillemin, Fabrice; et al.**
Brandt, Andreas (*with* Sulanke, H.) A queueing network model for a communication system with channel allocation. (English summary) **93f:90069**
Buzacott, John A. (*with* Shanthikumar, J. George) Design of manufacturing systems using queueing models. (English summary) **93h:90041**
Cassandras, Christos G. *see* **Wardi, Y.; et al., 93j:90042**; **Towsley, Donald; et al.** *and* **Mohanty, Bibhu P.**
Cavazos-Cadena, Rolando (*with* Hernández-Lerma, Onésimo) Adaptive policies for priority assignment in discrete time queues—discounted cost criterion. (Russian and Polish summaries) **93c:90034**
Chao, Xiuli (*with* Pinedo, Michael) On reversibility of tandem queues with blocking. (English summary)
Chaudhry, Mohan L. Numerical issues in computing steady-state queueing-time distributions of single-server bulk-service queues: $M/G^b/1$ and $M/G^d/1$. (English summary) **93f:90070**
— (*with* Agarwal, Manju; Templeton, James G. C.) Computing steady-state queueing-time distributions of single-server queues: $GI^X/M/1$. (English summary) **93m:90037**
Cheng, Dinah W. Second order properties in a tandem queue with general blocking. (English summary) **93f:90071**
— Analysis of a tandem queue with state-dependent general blocking: a GSMP perspective. (English summary)
Chouigui, N. *see* **Grzech, A.; et al., (93e:00021)**
Chrobak, Marek (*with* Larmore, Lawrence L.) Generosity helps, or an 11-competitive algorithm for three servers. (*see* **93b:68005**)
Coffman, Edward G., Jr. *see* **Boguslavskiĭ, L. B.; et al.**
Dallery, Yves (*with* Towsley, Donald) Symmetry property of the throughput in closed tandem queueing networks with finite buffers. **93b:90027**
— (*with* Frein, Yannick) On decomposition methods for tandem queueing networks with blocking. (English summary)
Dasu, Sriram *see* **Bitran, Gabriel R.**
Decreusefond, L. (*with* Körezlioğlu, H.; van Dijk, Nico M.) An error bound for infinite approximations of queueing networks with large finite stations under RSRD protocol. (English summary)
van Dijk, Nico M. *see* **Decreusefond, L.; et al.**
Ding, Yiping *see* **Sholl, Howard A., (93a:41001)**
Dupuis, Alain *see* **Guillemin, Fabrice; et al.**
Ephremides, Anthony *see* **Tassiulas, Leandros**
Frangos, C. *see* **Yavin, Yaakov, 93j:90043**
Frein, Yannick *see* **Dallery, Yves**
Frostig, Esther On the optimal assignment of servers in a two stations tandem queue with no intermediate waiting room. (English summary) **93k:90037**
Gail, H. R. (*with* Hantler, S. L.; Taylor, B. A.) On a preemptive Markovian queue with multiple servers and two priority classes. **93b:90028**
Gilbert, Edgar N. *see* **Boguslavskiĭ, L. B.; et al.**
Gong, Wei Bo *see* **Wardi, Y.; et al., 93j:90042**
Gordon, V. S. Minimization of the cost connected with variable discrete deadlines in a problem of scheduling theory with one device. (Russian. Russian summary) **93f:90072**
Grzech, A. (*with* Kasprzak, A.; Chouigui, N.) The new expression for blocking probability for route in integrated services digital networks. (English summary) (*see* **93e:00021**)
Guillemin, Fabrice (*with* Boyer, Jacqueline; Dupuis, Alain) Burstiness in broadband integrated networks. (English summary)
— *see also* **Mazumdar, Ravi R.; et al., 93g:90038**
Gupta, Yash P. *see* **Alfa, Attahiru Sule**
Gusak, D. V. An oscillating inventory control model. (Russian. Russian summary) (*see* **93m:60009**)
Hantler, S. L. *see* **Gail, H. R.; et al., 93b:90028**
Hasegawa, Toshiharu *see* **Ko, Hong Seung; et al.**
Hernández-Lerma, Onésimo *see* **Cavazos-Cadena, Rolando, 93c:90034**
Hu, Jian Qiang (*with* Xiang, Dong) The queueing equivalence to a manufacturing system with failures. (English summary)
Kallmes, M. H. *see* **Wardi, Y.; et al., 93j:90042**
Kannurpatti, Raghavan *see* **Mazumdar, Ravi R.; et al., 93g:90038**
Karmeshu Queueing models with threshold phenomena: with special reference to machine interference problems. (English summary)
Kasprzak, A. *see* **Grzech, A.; et al., (93e:00021)**
Ko, Hong Seung (*with* Takine, Tetsuya; Takahashi, Yutaka[3]; Hasegawa, Toshiharu) Performance analysis of a flexible manufacturing cell with waiting storage. (English and Polish summaries)
Kogan, Ya. A. Another approach to asymptotic expansions for large closed queueing networks. (English summary) **93f:90073**
Koole, Ger Optimal server assignment in the case of service times with monotone failure rates. (English summary)
Körezlioğlu, H. *see* **Decreusefond, L.; et al.**
Korotaev, I. A. (*with* Spivak, L. R.) Queueing systems in a semi-Markov random environment. (Russian. Russian summary) **93h:90042**
Kouvatsos, Demetres D. (*with* Tomaras, Panagiotis J.) Multilevel aggregation of central server models: a minimum relative entropy approach. **93b:90029**
Kreĭnin, A. Ya. *see* **Boguslavskiĭ, L. B.; et al.**
Krichagina, E. V. (*with* Taksar, Michael I.) Asymptotically optimal policies for controlled queues in heavy traffic. (English summary) (*see* **93g:93007**)
Ku-Mahamud, Ku Ruhana (*with* Othman, Abu Talib) Model reduction of general queueing networks. (English summary)
Kumar, Anurag Task allocation in multiserver systems—a survey of results. (English summary)
— On the average idle time and average queue length estimates in an $M/M/1$ queue. (English summary) **93f:90074**
Larmore, Lawrence L. *see* **Chrobak, Marek, (93b:68005)**
Lebah, M. (*with* Pellaumail, J.) Transient behavior for some Jackson networks. (English summary) **93k:90038**
L'Ecuyer, Pierre Convergence rates for steady-state derivative estimators. (English summary) **93j:90040**
Lee, Duan-Shin (*with* Li, San-Qi) Transient analysis of a switched Poisson arrival queue under overload control. (English summary)
Levy, Yonatan *see* **Arian, Yair**
Li, San-Qi *see* **Lee, Duan-Shin**
Mazumdar, Ravi R. (*with* Guillemin, Fabrice; Badrinath, Vivek; Kannurpatti, Raghavan) On pathwise behavior of queues. (English summary) **93g:90038**
Mikadze, I. S. (*with* Mikadze, Z. I.) Single-server queueing systems with time and information redundancy. (Russian. English and Ukrainian summaries)
Mikadze, Z. I. *see* **Mikadze, I. S.**
Minciardi, Riccardo *see* **Aicardi, Michele; et al., (93e:90003)**
Mirzaev, I. K. *see* **Sakhobov, O.**
Mitomo, Hitoshi Heterogeneous subscribers and the optimal two-part tariff of telecommunications service. (English summary)
Mohanty, Bibhu P. (*with* Cassandras, Christos G.) Effect of model uncertainty on some optimal routing problems. (English summary)
Nain, Philippe *see* **Blanc, J. P. C.; et al., 93c:90033**
Naor, Joseph *see* **Azar, Yossi; et al., (93b:68005)**
Nguyen, Viên On the optimality of trunk reservation in overflow processes. (English summary) **93f:90075**
Othman, Abu Talib *see* **Ku-Mahamud, Ku Ruhana**
Ou, Jihong (*with* Wein, Lawrence M.) On the improvement from scheduling a two-station queueing network in heavy traffic. (English summary) **93f:90076**
Pellaumail, J. *see* **Lebah, M., 93k:90038**
Pesenti, Raffaele *see* **Aicardi, Michele; et al., (93e:90003)**
Pinedo, Michael *see* **Chao, Xiuli**
Postan, M. Ya. *see* **Voevudskiĭ, E. N.**
Pourbabai, Behnam Performance modelling of an integrated assembly line system with inspection stations and finite capacity local storages; an approximation algorithm. (English summary)
Que, Tai Lin On-line identification of the new-information GM(1, 1) parameters. (English summary)
Rayward-Smith, V. J. (*with* Rebaine, D.) Open shop scheduling with delays. (English and French summaries) **93f:90077**
Rebaine, D. *see* **Rayward-Smith, V. J., 93f:90077**
Reiman, Martin I. (*with* Simon, Burton; Willie, J. Stanford) Simterpolation: a simulation based interpolation approximation for queueing systems. (English summary) **93f:90078**
Richter, K. *see* **Bergholz, G., (93e:00021)**
Rom, Raphael *see* **Azar, Yossi; et al., (93b:68005)**
Ryzhikov, Yu. I. Three methods for computing time characteristics of open queueing systems. (Russian. Russian summary)
Sakhobov, O. (*with* Mirzaev, I. K.) Two-sided estimates for the mean number of failures of a system during a busy period under various service disciplines. (Russian. English and Ukrainian summaries)
Sanders, Bart *see* **Wallin, J. F. E., 93g:90040**
Servi, L. D. *see* **Bertsimas, Dimitris J., 93h:90040**
Shalamov, A. S. Probability characteristics of bounded quasi-Poisson processes of inventory control systems. (Russian) **93d:90022**
Shanthikumar, J. George (*with* Yao, David D.) Multiclass queueing systems: polymatroidal structure and optimal scheduling control.
— *see also* **Buzacott, John A., 93h:90041**
Sholl, Howard A. (*with* Ding, Yiping) On queueing approximation formulas for mean waiting time. (*see* **93a:41001**)
Simon, Burton *see* **Reiman, Martin I.; et al., 93f:90078**
Sparaggis, Panayotis D. *see* **Towsley, Donald; et al.**
Spearman, Mark L. Customer service in pull production systems. (English summary)
Spivak, L. R. *see* **Korotaev, I. A., 93h:90042**
Srinivas, V. *see* **Subba Rao, S.**
Stadje, Wolfgang A direct approach to the $GI/G/1$ queueing system with finite capacity. (English summary)
Stern, H. I. Optimal control of a facility with periodic interrupted demand. **93g:90039**
Subba Rao, S. (*with* Srinivas, V.) Bounds for design parameters in queues. (English summary)
Sulanke, H. *see* **Brandt, Andreas, 93f:90069**
Takagi, Hideaki Analysis of an $M/G/1//N$ queue with multiple server vacations, and its application to a polling model. (English summary)
Takahashi, Yutaka[3] *see* **Ko, Hong Seung; et al.**
Takine, Tetsuya *see* **Ko, Hong Seung; et al.**

Taksar, Michael I. *see* **Krichagina, E. V., (93g:93007)**

Tanaev, V. S. Symmetric functions in scheduling theory (problems with one machine and the simultaneous arrival of customers in the queue). (Russian. English and Russian summaries) **93j:90041**

Tassiulas, Leandros (*with* Ephremides, Anthony) Stability properties of constrained queueing systems and scheduling policies for maximum throughput in multihop radio networks. (English summary)

Tatashev, A. G. A queueing system with invariant discipline. (Russian. Russian summary)

Taylor, B. A. *see* **Gail, H. R.; et al., 93b:90028**

Templeton, James G. C. *see* **Chaudhry, Mohan L.; et al., 93m:90037**

Timofeev, E. A. Realization of given average waiting times in a single-channel queueing system. (Russian. English and Ukrainian summaries)

Tomaras, Panagiotis J. *see* **Kouvatsos, Demetres D., 93b:90029**

Towsley, Donald (*with* Sparaggis, Panayotis D.; Cassandras, Christos G.) Optimal routing and buffer allocation for a class of finite capacity queueing systems. (English summary)

— *see also* **Dallery, Yves, 93b:90027** *and* **Blanc, J. P. C.; et al., 93c:90033**

Tsitsiklis, John N. Special cases of traveling salesman and repairman problems with time windows. **93b:90030**

Voevudskii, E. N. (*with* Postan, M. Ya.) A two-phase inventory system for a nonhomogeneous product with priorities. (Russian. English and Ukrainian summaries)

de Waal, Peter R. *see* **Blanc, J. P. C.; et al., 93c:90033**

Wakuta, Kazuyoshi Optimal control of an imperfectly observed queueing system. (English summary) **93m:90038**

Wallin, J. F. E. (*with* Sanders, Bart) The calculation of overflow moments in loss systems with selective trunk reservation. (English summary) **93g:90040**

Wang, Lin Shan Prior estimation of grey model GM(1, 1). (English summary) **93e:90028**

Wang, Yi Ju *see* **Zhang, Yu Zhong**

Wardi, Y. (*with* Kallmes, M. H.; Cassandras, Christos G.; Gong, Wei Bo) Smoothed perturbation analysis algorithms for estimating the derivatives of occupancy-related functions in serial queueing networks. (English summary) **93j:90042**

Weber, Richard R. On a conjecture about assigning jobs to processors of differing speeds. (English summary) **93i:90046**

Wein, Lawrence M. *see* **Ou, Jihong, 93f:90076**

Wessels, Jaap *see* **Adan, Ivo Jean-Baptiste François; et al., 93m:90036**

Willie, J. Stanford *see* **Reiman, Martin I.; et al., 93f:90078**

Xiang, Dong *see* **Hu, Jian Qiang**

Xu, Guang Hui (*with* Yuan, Xue Ming) Stationary behavior of a two-stage tandem queueing system with finite capacity. (Chinese. English summary)

Xu, Xue Lei *see* **Zheng, Da Zhong**

Yao, David D. *see* **Shanthikumar, J. George**

Yavin, Yaakov (*with* Frangos, C.) The performance of some manufacturing queueing networks when some of the machines are in the failure mode. (English summary) **93j:90043**

Yuan, Xue Ming *see* **Xu, Guang Hui**

Zhang, Yu Zhong (*with* Wang, Yi Ju) The worst-case analysis of a placement algorithm for two machines. (Chinese. English and Chinese summaries)

Zheng, Da Zhong (*with* Xu, Xue Lei) Advances in the study of modeling and the analysis of fork-join queueing networks. (Chinese. English and Chinese summaries)

Zijm, W. H. M. *see* **Adan, Ivo Jean-Baptiste François; et al., 93m:90036**

Items with secondary classifications in 90B22

Abate, Joseph (*with* Whitt, Ward) Solving probability transform functional equations for numerical inversion. (English summary) **93i:60163**

Abolnikov, Lev (*with* Dukhovny, Alexander) Markov chains with transition delta-matrix: ergodicity conditions, invariant probability measures and applications. **93e:60132**

— (*with* Dshalalow, Jewgeni H.) On a multilevel controlled bulk queueing system $M^X/G^{r,R}/1$. (English summary) **93m:60177**

— (*with* Dshalalow, Jewgeni H.; Dukhovny, Alexander) On stochastic processes in a multilevel control bulk queueing system. **93b:60206**

Adamski, Andrzej Probabilistic models of passengers service processes at bus stops. (English summary)

Adan, Ivo Jean-Baptiste François ★ A compensation approach for queueing problems. **93c:60136**

Agarwal, Manju *see* **Chaudhry, Mohan L.; et al., 93b:60207**

Ahn, Wi Chong *see* **Choi, Bong Dae; et al., 93h:68011**

Baba, Yutaka A gated processor-sharing $M/G/1$ queue with limited number of service positions.

Baccelli, François *see* **Liu, Zhen, 93f:60144**

Baiocchi, Andrea Asymptotic behaviour of the loss probability of the $M/G/1/K$ and $G/M/1/K$ queues. **93c:60138**

Bambos, Nicholas On closed ring queueing networks. (English summary) **93h:60145**

Bertsimas, Dimitris J. (*with* Nakazato, Daisuke) Transient and busy period analysis of the $GI/G/1$ queue: the method of stages. **93c:60139**

Blondia, C. Performance evaluation of an $M/1$-stage in an ATM switching element. **93i:68027**

Bondi, André B. A study of a state-dependent job admission policy in a computer system with restricted memory partitions. (English summary) **93h:68010**

Boucherie, Richard J. (*with* van Dijk, Nico M.) A generalization of Norton's theorem for queueing networks. (English summary) **93m:60178**

Braglia, M. $M/M/1$ queuing model with ordinary maintenance and breakdowns. (English and French summaries)

Brandeau, Margaret L. (*with* Chiu, Samuel S.) A center location problem with congestion. (English summary) **93m:90043**

Brémaud, Pierre (*with* Vázquez-Abad, Felisa J.) On the pathwise computation of derivatives with respect to the rate of a point process: the phantom RPA method. **93d:60154**

Browne, Sid (*with* Coffman, Edward G., Jr.; Gilbert, Edgar N.; Wright, Paul E.) The gated infinite-server queue: uniform service times. (English summary) **93h:60146**

Bunday, Brian D. *see* **Sztrik, János**

Burlakov, M. V. ★ Ситуационное управление в системах массового обслуживания. (Russian) [Situational control in queueing systems] **93e:90001**

Buzacott, John A. *see* **Liu, Xiao-Gao, 93k:68014**

Cao, Cheng Xian *see* **Tian, Nai Shuo; et al., 93a:60151**

Cao, Xi-Ren A new method of performance sensitivity analysis for non-Markovian queueing networks. **93d:60155**

Cassandras, Christos G. *see* **Sparaggis, Panayotis D.; et al., 93j:60150**

Catoni, Olivier Applications of sharp large deviations estimates to optimal cooling schedules. (French summary) **93g:60057**

Cavazos-Cadena, Rolando Average optimal stationary policies in Markov decision processes under weak stability conditions. **93e:90066**

Chang, Cheng-Shang A new ordering for stochastic majorization: theory and applications. **93g:60039**

Chang, Chin Fu (*with* Harn, Ywh-Pyng) A discrete-time priority queue with two-class customers and bulk services. **93c:60141**

Chaudhry, Mohan L. (*with* Gupta, U. C.; Madill, B. R.) Computational aspects of bulk-service queueing system with variable capacity and finite waiting space: $M/G^Y/1/N+B$. **93a:60142**

— (*with* Agarwal, Manju; Templeton, James G. C.) Exact and approximate numerical solutions of steady-state distributions arising in the queue $GI/G/1$. **93b:60207**

Chernova, N. I. Ergodicity conditions for a class of queueing systems. (Russian) (*see* **93m:00026**)

Chiu, Samuel S. *see* **Brandeau, Margaret L., 93m:90043**

Choi, Bong Dae (*with* Shin, Yang Woo) Transient diffusion approximation for $M/G/m$ system. **93c:60142**

— (*with* Park, Kwang Kyu) The $M^k/M/\infty$ queue with heterogeneous customers in a batch. **93b:60208**

— (*with* Shin, Yang Woo; Ahn, Wi Chong) Retrial queues with collision arising from unslotted CMSA/CD protocol. (English summary) **93h:68011**

— (*with* Han, Dong Hwan; Falin, G. I.) On the virtual waiting time for an $M/G/1$ retrial queue with two types of calls. (English summary) **93m:60180**

Çinlar, Erhan Sunset over Brownistan. **93f:60120**

Coffman, Edward G., Jr. *see* **Browne, Sid; et al., 93h:60146**

Cooper, Robert B. Queueing theory. (*see* **93a:60001**)

Dai, J. G. (*with* Wang, Y.) Nonexistence of Brownian models for certain multiclass queueing networks. (English summary)

Daigle, John N. (*with* Magalhães, Marcos N.) Transient behavior of $M/M^{[i]}/1$ queues. **93b:60209**

Daley, D. J. (*with* Rolski, Tomasz) Light traffic approximations in many-server queues. **93b:60210**

— (*with* Servi, L. D.) Exploiting Markov chains to infer queue length from transactional data. **93i:60169**

Dekker, Rommert (*with* Hordijk, Arie) Recurrence conditions for average and Blackwell optimality in denumerable state Markov decision chains. **93h:90100**

van Dijk, Nico M. (*with* Taylor, P. G.) An error bound for a continuous time approximation of discrete time servicing. (English summary) **93j:60141**

— *see also* **Boucherie, Richard J., 93m:60178**

Disney, Ralph L. *see* **Wortman, Martin A.; et al., 93d:60159**

Drmota, Michael (*with* Schmid, Ulrich) Exponential limiting distributions in queueing systems with deadlines. (English summary) **93m:60182**

Dshalalow, Jewgeni H. On single-server closed queues with priorities and state dependent parameters. **93a:60144**

— (*with* Russell, Gary) On a single-server queue with fixed accumulation level, state dependent service, and semi-Markov modulated input flow. **93c:60143**

— Single-server queues with controlled bulk service, random accumulation level, and modulated input. (English summary) **93m:60183**

— *see also* **Abolnikov, Lev; et al., 93b:60206** *and* **93m:60177**

Dukhovny, Alexander *see* **Abolnikov, Lev; et al., 93b:60206** *and* **93e:60132**

El-Sayed, Khaled M. F. *see* **Mostafa, Magdi S., 93a:60149**

El-Taha, Muhammad (*with* Stidham, Shaler, Jr.) A filtered ASTA property. (English summary) **93h:60148**

Falin, G. I. *see* **Choi, Bong Dae; et al., 93m:60180**

Fu, Michael C. (*with* Hu, Jian Qiang) Extensions and generalizations of smoothed perturbation analysis in a generalized semi-Markov process framework. (English summary) **93i:60171**

Fuhrmann, Steve W. *see* **Sidi, Moshe; et al., 93g:60198** *and* **Iliadis, I., 93h:60152**

Gilbert, Edgar N. *see* **Browne, Sid; et al., 93h:60146**

Glasserman, Paul (*with* Yao, David D.) Generalized semi-Markov processes: antimatroid structure and second-order properties. **93h:60204**

— (*with* Yao, David D.) Monotonicity in generalized semi-Markov processes. **93e:60178**

Gong, Wei Bo (*with* Hu, Jian Qiang) The MacLaurin series for the $GI/G/1$ queue. **93b:60213**

Gupta, U. C. *see* **Chaudhry, Mohan L.; et al., 93a:60142**

Han, Dong Hwan *see* **Choi, Bong Dae; et al., 93m:60180**

Harn, Ywh-Pyng *see* **Chang, Chin Fu, 93c:60141**

Harrison, J. Michael (*with* Williams, Ruth J.) Brownian models of feedforward queueing networks: quasireversibility and product form solutions. **93d:60126**

— (*with* Nguyen, Viên) Brownian models of multiclass queueing networks: current status and open problems. (English summary) **93m:60185**

Hasegawa, Toshiharu *see* **Takine, Tetsuya, 93j:60151; 93j:60152** *and* **93m:60190**

Henderson, W. (*with* Taylor, P. G.) Discrete-time queueing networks with geometric release probabilities. **93i:60173**

— (*with* Taylor, P. G.) Insensitivity in discrete time queues with a moving server. (English summary) **93m:60187**

Hordijk, Arie *see* **Dekker, Rommert, 93h:90100**

Hu, Jian Qiang Consistency of infinitesimal perturbation analysis estimators with rates. **93b:60216**

— Variance properties of sample path derivatives of parametric random variables. **93a:60162**

— *see also* **Gong, Wei Bo, 93b:60213** *and* **Fu, Michael C., 93i:60171**

Huang, Wên Chang (*with* Puri, Prem S.) A queueing process with the possibility of customers becoming servers. **93b:60217**

Ibaraki, Toshihide *see* **Katoh, Naoki; et al.**

Igaki, Nobuko Exponential two server queue with N-policy and general vacations. **93c:60145**

Iliadis, I. (*with* Fuhrmann, Steve W.) Moment relationships for queues with Poisson input. (English summary) **93h:60152**

Imaizumi, Jun (*with* Morito, Susumu) Studies on tandem queueing system with blocking: a survey. (Japanese. English summary)

Ishikawa, Akihiko On the joint distribution of the departure intervals in an $M/G/1/N$ queue. **93a:60147**

Jagerman, David L. (*with* Sengupta, Bhaskar) The $GI/M/1$ processor-sharing queue and its heavy traffic analysis. **93a:60148**

Jayawardena, Thusitha *see* **Yakowitz, Sid; et al., 93j:90127**

Kameda, Tsunehiko *see* **Katoh, Naoki; et al.**

Kao, Edward P. C. Using state reduction for computing steady state vectors in Markov chains of $M/G/1$ type. **93b:60218**

Katayama, Tsuyoshi (*with* Takahashi, Yoshitaka) Analysis of a two-class priority queue with Bernoulli schedules. (English summary) **93i:60174**

— A note on conservation laws for a multi-class service queueing system with setup times. (English summary) **93f:60141**

Katoh, Naoki (*with* Ibaraki, Toshihide; Kameda, Tsunehiko) A multiversion cautious scheduler with dynamic serialization constraints for database concurrency control. (English summary)

Kelly, F. P. (*with* Laws, C. N.) Dynamic routing in open queueing networks: Brownian models, cut constraints and resource pooling. (English summary)

Khamisy, Asad (*with* Sidi, Moshe) Discrete-time priority queues with two-state Markov modulated arrivals. **93c:60147**

Kiessler, Peter C. (*with* Wortman, Martin A.) Workload in queues having priorities assigned according to service time. **93c:60148**

— *see also* **Wortman, Martin A.; et al., 93d:60159**

Kijima, Masaaki *see* **Sumita, Ushio, 93b:65203**

Kim, Kisu (*with* Scila, Andrew F.) A generalized cost model for stochastic clearing systems. (English summary)

Kimura, Toshikazu Interpolation approximations for the mean waiting time in a multi-server queue.

Knessl, Charles Asymptotic approximations for the $GI/M/1$ queue with processor-sharing service. **93f:60142**

Kovalëv, M. Ya. Minimization of the weighted sum of delayed customers when one server is employed. (Russian) **93c:90062**

Krichagina, E. V. (*with* Taksar, Michael I.) Diffusion approximation for $GI/G/1$ controlled queues. (English summary) **93h:60154**

Krishnamoorthy, A. (*with* Varughese, Rajan) On a finite capacity bulk service queueing problem. **93f:60143**

Kroese, Dirk P. (*with* Schmidt, Volker) A continuous polling system with general service times. (English summary) **93j:60143**

Kumar, Panganamala Ramana Re-entrant lines. (English summary)

Lai, Min Tsai (*with* Yuan, John) An optimal replacement period for a parallel system with single and multiple failures. (English summary) **93k:60218**

Laws, C. N. Resource pooling in queueing networks with dynamic routing. **93h:90037**

— *see also* **Kelly, F. P.**

Lee, Duan-Shin (*with* Sengupta, Bhaskar) An approximate analysis of a cyclic server queue with limited service and reservations. (English summary) **93g:60195**

Leung, Kin K. An execution/sleep scheduling policy for serving an additional job in priority queuing systems. (English summary)

Levy, Hanoch *see* **Sidi, Moshe; et al., 93g:60198**

Li, Shu *see* **Yakowitz, Sid; et al., 93j:90127**

Liu, Xiao-Gao (*with* Buzacott, John A.) The reversibility of cyclic queues. (English summary) **93k:68014**

Liu, Zhen (*with* Baccelli, François) Generalized precedence-based queueing systems. (English summary) **93f:60144**

Madill, B. R. *see* **Chaudhry, Mohan L.; et al., 93a:60142**

Magalhães, Marcos N. *see* **Daigle, John N., 93b:60209**

Makowski, Armand M. (*with* Philips, Thomas K.) Stochastic convexity of sums of i.i.d. nonnegative random variables with applications. **93b:60034**

Melikov, A. Z. (*with* Ponomarenko, L. A.) Optimization of a digital integral maintenance network with a finite number of users and with lockouts. (Russian. Russian summary)

Menich, Ronald (*with* Serfozo, Richard F.) Optimality of routing and servicing in dependent parallel processing systems. **93b:60220**

Miyazawa, Masakiyo On the system queue length distributions of LCFS-P queues with arbitrary acceptance and restarting policies. **93e:60183**

Morito, Susumu *see* **Imaizumi, Jun**

Mostafa, Magdi S. (*with* El-Sayed, Khaled M. F.) Matrix-geometric solution of a multi-server queue with Markovian group arrivals and Coxian servers. **93a:60149**

Mukai, H. *see* **Yan, Di, 93j:90072**

Nakazato, Daisuke *see* **Bertsimas, Dimitris J., 93c:60139**

Nguyen, Viên *see* **Harrison, J. Michael, 93m:60185**

Ou, Jihong (*with* Wein, Lawrence M.) Performance bounds for scheduling queueing networks. **93b:60221**

Park, Kwang Kyu *see* **Choi, Bong Dae, 93b:60208**

Patterson, Richard L. Distributions of unexpended services in a D-node Markov-renewal network distinguished by customer class. (English summary)

Philips, Thomas K. *see* **Makowski, Armand M., 93b:60034**

Pitts, Jonathan M. *see* **Schormans, John A.; et al.**

Plum, H.-J. Optimal monotone hysteretic Markov policies in an $M/M/1$ queueing model with switching costs and finite time horizon. **93c:60150**

Ponomarenko, L. A. *see* **Melikov, A. Z.**

Posner, Morton J. M. *see* **Yang, Tao; et al., 93f:60147**

Pourbabai, Behnam Approximation of the departure processes from $G/M/1/K$ and $M/G/1/K$ queueing systems. (English summary)

Puri, Prem S. *see* **Huang, Wên Chang, 93b:60217**

Righter, Rhonda (*with* Shanthikumar, J. George) Extremal properties of the FIFO discipline in queueing networks. (English summary) **93i:60177**

Ritt, Robert K. (*with* Sennott, Linn I.) Optimal stationary policies in general state space Markov decision chains with finite action sets. (English summary) **93j:90126**

Rolski, Tomasz *see* **Daley, D. J., 93b:60210**

Russell, Gary *see* **Dshalalow, Jewgeni H., 93c:60143**

Safarov, M. M. Limit theorems for queueing networks with multichannel stations. (Russian) **93e:60187**

Sanders, J. L. *see* **Venkatasubramanyan, N., 93h:60158**

Scharf, Eric M. *see* **Schormans, John A.; et al.**

Schmid, Ulrich *see* **Drmota, Michael, 93m:60182**

Schmidt, Volker *see* **Kroese, Dirk P., 93j:60143**

Schormans, John A. (*with* Pitts, Jonathan M.; Scharf, Eric M.) A priority queue with superimposed geometric batch arrivals. (English summary)

Scila, Andrew F. *see* **Kim, Kisu**

Sengupta, Bhaskar An approximation for the sojourn-time distribution for the $GI/G/1$ processor-sharing queue. **93a:60150**

— *see also* **Jagerman, David L., 93a:60148** *and* **Lee, Duan-Shin, 93g:60195**

Sennott, Linn I. *see* **Ritt, Robert K., 93j:90126**

Serfozo, Richard F. *see* **Menich, Ronald, 93b:60220**

Servi, L. D. *see* **Daley, D. J., 93i:60169**

Shanthikumar, J. George *see* **Righter, Rhonda, 93i:60177**

Shimogawa, Shinsuke (*with* Takahashi, Yoshitaka) A note on the pseudo-conservation law for a multi-queue with local priority. (English summary)

Shin, Yang Woo *see* **Choi, Bong Dae, 93c:60142** *and* **93h:68011**

Sidi, Moshe (*with* Levy, Hanoch; Fuhrmann, Steve W.) A queueing network with a single cyclically roving server. (English summary) **93g:60198**

— *see also* **Khamisy, Asad, 93c:60147**

Sigman, Karl Light traffic for workload in queues. (English summary) **93j:60149**

Sparaggis, Panayotis D. (*with* Towsley, Donald; Cassandras, Christos G.) Extremal properties of the shortest/longest nonfull queue policies in finite-capacity systems with state-dependent service rates. (English summary) **93j:60150**

Stidham, Shaler, Jr. *see* **El-Taha, Muhammad, 93h:60148**

Sumita, Ushio (*with* Kijima, Masaaki) Theory and algorithms of the Laguerre transform. II. Algorithm. **93b:65203**

Sztrik, János (*with* Bunday, Brian D.) Asymptotic analysis of the heterogeneous machine interference problem with random environments. (English summary)

Takagi, Hideaki ★ Queueing analysis: a foundation of performance evaluation. Vol. 1. **93e:60188**

— Time-dependent process of $M/G/1$ vacation models with exhaustive service. **93c:60153**

— *see also* **Takine, Tetsuya; et al., 93m:60190**

Takahashi, Yoshitaka *see* **Katayama, Tsuyoshi, 93i:60174** *and* **Shimogawa, Shinsuke**

Takine, Tetsuya (*with* Hasegawa, Toshiharu) On the $M/G/1$ queue with multiple vacations and gated service discipline. (English summary) **93j:60151**

— (*with* Hasegawa, Toshiharu) A generalization of the decomposition property in the $M/G/1$ queue with server vacations. (English summary) **93j:60152**

— (*with* Takagi, Hideaki; Hasegawa, Toshiharu) Analysis of an $M/G/1/K/N$ queue. (English summary) **93m:60190**

Taksar, Michael I. *see* **Krichagina, E. V., 93h:60154**

Taylor, P. G. *see* **Henderson, W., 93i:60173**; **van Dijk, Nico M., 93j:60141** *and* **Henderson, W., 93m:60187**

Templeton, James G. C. *see* **Chaudhry, Mohan L.; et al., 93b:60207** *and* **Yang, Tao; et al., 93f:60147**

Teugels, Jozef L. *see* **Willekens, E., 93d:60158**

Tian, Nai Shuo (*with* Zhang, Da Qing; Cao, Cheng Xian) $M/G/1$ queue with controllable vacations and optimization of vacation policy. **93a:60151**

Tikhonenko, O. M. ★ Модели массового обслуживания в системах обработки информации. (Russian) [Queueing models in information processing systems] **93a:68018**

— A multiserver queueing system with customers of random length and restrictions on waiting time. (Belorussian. English and Russian summaries) **93j:60153**

Towsley, Donald *see* **Sparaggis, Panayotis D.; et al., 93j:60150**

Tsitsiashvili, G. Sh. A study of regeneration times in cyclic queueing networks. **93c:60154**

Varughese, Rajan *see* **Krishnamoorthy, A., 93f:60143**

Vázquez-Abad, Felisa J. *see* **Brémaud, Pierre, 93d:60154**

Venkatasubramanyan, N. (*with* Sanders, J. L.) Order restoration in queues. (English summary) **93h:60158**

Vickson, Raymond G. *see* **Zhang, Zhe, 93m:60193**

Voevudskii, E. N. Stochastic optimisation of queueing system control. (English summary) (*see* **93d:90005**)

Walrand, Jean Queueing networks. (*see* **93a:60001**)

Wang, Jing[3] (*with* Yang, De Li) An analytical model for an $M|G|1$ queueing system with a finite population. (Chinese. English summary)

Wang, Y. *see* **Dai, J. G.**

Weber, Richard R. The interchangeability of tandem queues with heterogeneous customers and dependent service times. **93g:60202**

Wein, Lawrence M. *see* **Ou, Jihong, 93b:60221**

Whitt, Ward *see* **Abate, Joseph, 93i:60163**

Willekens, E. (*with* Teugels, Jozef L.) Asymptotic expansions for waiting time probabilities in an $M/G/1$ queue with long-tailed service time. **93d:60158**

Williams, Ruth J. *see* **Harrison, J. Michael, 93d:60126**

Wortman, Martin A. (*with* Disney, Ralph L.; Kiessler, Peter C.) The $M/GI/1$ Bernoulli feedback queue with vacations. **93d:60159**

— *see also* **Kiessler, Peter C., 93c:60148**

Wright, Paul E. Two parallel processors with coupled inputs. (English summary) **93i:60178**

— *see also* **Browne, Sid; et al., 93h:60146**

Xu, Guang Hui (*with* Yuan, Xue Ming) The queueing system $M^{(x)}/M/c \to /PH^{(r)}/1/K$. (English summary)

— *see also* **Zhang, Han Qin, 93i:60179**

Yakowitz, Sid (*with* Jayawardena, Thusitha; Li, Shu) Theory for automatic learning under partially observed Markov-dependent noise. (English summary) **93j:90127**

Yan, Di (*with* Mukai, H.) Stochastic discrete optimization. **93j:90072**
Yang, De Li *see* **Wang, Jing³**
Yang, Tao (*with* Posner, Morton J. M.; Templeton, James G. C.) The $C_a/M/s/m$ retrial queue: a computational approach. (English summary) **93f:60147**
Yao, David D. *see* **Glasserman, Paul, 93b:60204** *and* **93e:60178**
Yuan, John *see* **Lai, Min Tsai, 93k:60218**
Yuan, Xue Ming *see* **Xu, Guang Hui**
Zhang, Da Qing *see* **Tian, Nai Shuo; et al., 93a:60151**
Zhang, Han Qin (*with* Xu, Guang Hui) Strong approximations for the open queueing network in heavy traffic. (English summary) **93i:60179**
Zhang, Zhe (*with* Vickson, Raymond G.) A simple approximation for mean waiting time in $M/G/1$ queue with vacations and limited service discipline. (English summary) **93m:60193**

90B25 Reliability, availability, maintenance, inspection [see also 60K10, 62N05]

Abe, Shun-ichi Asymptotic evaluation of flow reliability for coherent repairable networks under periodic demand variation. (English summary) **93g:90041**
Atlas, Radosław (*with* Kordecki, Wojciech) Reliability of series systems with additional elements joining every other nodes. (English summary)
Baxter, Laurence A. *see* **Lee, Eui Yong, 93h:90044**
Bector, C. R. (*with* Hawaleshka, O.; Gill, A.) A 0-1 linear programming formulation for solving an equipment replacement problem. (English summary) **93h:90043**
Cai, Kai Yuan (*with* Wen, Chuan Yuan; Zhang, Ming Lian) Fuzzy variables as a basis for a theory of fuzzy reliability in the possibility context. **93a:90024**
Canfield, E. Rodney (*with* McCormick, William P.) Asymptotic reliability of consecutive k-out-of-n systems. **93d:90023**
Chand, Suresh (*with* McClurg, Tim; Ward, James E.) A single-machine replacement model with learning. (English summary)
Chao, Min Te (*with* Fu, James C.) The reliability of a large series system under Markov structure. **93a:90025**
Chern, Maw Sheng On the computational complexity of reliability redundancy allocation in a series system. (English summary) **93f:90079**
Christer, A. H. (*with* Jack, N.) An integral-equation approach for replacement modelling over finite time horizons. **93c:90035**
Das, Tapas K. (*with* Wortman, Martin A.) Performance of N machine centers of K-out-of-M : G type maintained by a single repairman. (English summary)
van Dijk, Nico M. Transient error bound analysis for continuous-time Markov reward structures. **93a:90026**
van der Duyn Schouten, F. A. (*with* Wartenhorst, P.) A two-machine repair model with variable repair rate. (English summary)
Finkel'shtein, M. S. A restoration process with dependent cycles. (Russian. Russian summary) **93f:90080**
Fishman, George S. Sensitivity analysis for the system reliability function. (English summary)
Fu, James C. *see* **Chao, Min Te, 93a:90025**
Gill, A. *see* **Bector, C. R.; et al., 93h:90043**
Günlük, N. O. *see* **Özekici, S., 93d:90024**
Hawaleshka, O. *see* **Bector, C. R.; et al., 93h:90043**
Hryniewicz, Olgierd Estimation of life-time with fuzzy prior information: application in reliability. (*see* **93c:90002**)
Hwang, F. K. (*with* Rothblum, Uriel G.) Generalization of an engineering principle. (English summary) **93f:90081**
Ibrahim, Yaacob Reliability analysis of linear dynamic systems using optimization techniques. (English summary) (*see* **93d:90005**)
Iyer, Srinivas Availability results for imperfect repair. (English summary) **93m:90039**
Jack, N. *see* **Christer, A. H., 93c:90035**
Jensen, Finn M. (*with* Thoft-Christensen, P.) Application of linear decomposition technique in reliability-based structural optimization. (English summary) (*see* **93e:90003**)
Kawakami, Shin-ichi *see* **Tanaka, Hiroaki; et al.**
Kistner, K.-P. *see* **Srinivasan, S. K.; et al.**
Kordecki, Wojciech *see* **Atlas, Radosław**
Lam, Yeh Optimal geometric process replacement model. **93b:90031**
— Optimal policy for a general repair replacement model: discounted reward case. **93f:90082**
Lee, Eui Yong (*with* Baxter, Laurence A.) Further properties of a model for a system subject to continuous wear. **93h:90044**
Li, Xue Chao A group testing method for distinguishing two defectives. (Chinese. English and Chinese summaries) **93k:90039**
Liang, Gin Shuh System reliability evaluation using fuzzy fault tree analysis.
Liu, Ch'ing T'ien *see* **Sheu, Shey Huei, 93i:90047**
Liu, Qiu-Sheng (*with* Ohno, Katsuhisa; Sumita, Ushio) Structural properties of optimal tool replacement policy in a machining center. (English summary) **93f:90083**
McClurg, Tim *see* **Chand, Suresh; et al.**
McCormick, William P. *see* **Canfield, E. Rodney, 93d:90023**
Nakagawa, Yuji *see* **Ohtagaki, Hirokazu, (93f:93007)**
Nedosekin, A. O. Application of the theory of random arrangements to the analysis of the survivability of technological systems. (Russian. English and Ukrainian summaries)
Ng, Chung W. (*with* Young, Gilbert H.) Minimizing maximal weighted earliness and tardiness about a common due date. (English summary) **93j:90044**
Ohi, Fumio (*with* Shinmori, Shuichi) Study on minimal path and cut sets of coherent binary systems. **93c:90036**
Ohno, Katsuhisa *see* **Liu, Qiu-Sheng; et al., 93f:90083**
Ohtagaki, Hirokazu (*with* Nakagawa, Yuji) A recursive greedy procedure for solving nonlinear knapsack class of reliability optimization problems. (English summary) (*see* **93f:93007**)
Osaki, Shunji *see* **Tanaka, Hiroaki; et al.**
Özekici, S. (*with* Günlük, N. O.) Maintenance of a device with age-dependent exponential failures. **93d:90024**
Revyakov, M. I. Interval estimation of the reliability of a system from the results of experiments. (Russian. English and Ukrainian summaries)
— Component allocation for a distributed system: reliability maximization. (English summary) **93m:90040**
Rothblum, Uriel G. *see* **Hwang, F. K., 93f:90081**
Rozinas, M. G. Calculation of the coincidence coefficient for two-machine utilization in the stochastic case. (Russian. Russian summary)
Savits, Thomas H. Repair policies and stochastic order. (English summary) **93g:90042**
Shaked, Moshe (*with* Shanthikumar, J. George) Optimal allocation of resources to nodes of parallel and series systems. (English summary) **93h:90045**
Shanthikumar, J. George *see* **Shaked, Moshe, 93h:90045**
Sheu, Shey Huei (*with* Liu, Ch'ing T'ien) Optimum ordering policies with age-dependent minimal repair and two types of lead times. (English summary) **93i:90047**
Shi, Xi Quan¹ (*with* Tang, De Jun; Zhang, Zhi Hua) Bootstrap interval estimation for reliability indices of truncated constants. (Chinese. English summary)
Shinmori, Shuichi *see* **Ohi, Fumio, 93c:90036**
So, Kut C. Optimality of control limit policies in replacement models. **93e:90029**
Srinivasan, S. K. (*with* Subramanian, Ramachandran; Kistner, K.-P.) Control of repair rates in cold standby systems. (English and German summaries)
Stadje, Wolfgang An optimal choice problem for a set of checking procedures. (English summary)
Subramanian, Ramachandran *see* **Srinivasan, S. K.; et al.**
Sumita, Ushio *see* **Liu, Qiu-Sheng; et al., 93f:90083**
Tanaka, Hiroaki (*with* Yamada, Shigeru; Osaki, Shunji; Kawakami, Shin-ichi) Software reliability growth model with continuous error domain—application of a linear stochastic differential equation.
Tang, De Jun *see* **Shi, Xi Quan¹; et al.**
Tang, Guo Chun A survey of studies on scheduling in China. (Chinese. Chinese summary)
Tang, Ying Hui Reliability bounds for shock systems. (Chinese. English and Chinese summaries)
Tatashev, A. G. A problem on the optimization of the task completion rate by an unreliable device. (Russian. English and Ukrainian summaries)
Thoft-Christensen, P. *see* **Jensen, Finn M., (93e:90003)**
Titenko, I. M. Controllable systems with minimally complete restoration. (Russian. Russian summary) **93f:90084**
Traldi, Lorenzo On the star-delta transformation in network reliability. (English summary)
Viscolani, B. Random inspection schedules with nondecreasing intensity. (English and French summaries) **93f:90085**
Wang, Ling Ling Sequential test procedures of availability. (Chinese. English and Chinese summaries)
Ward, James E. *see* **Chand, Suresh; et al.**
Wartenhorst, P. *see* **van der Duyn Schouten, F. A.**
Wen, Chuan Yuan *see* **Cai, Kai Yuan; et al., 93a:90024**
Wortman, Martin A. *see* **Das, Tapas K.**
Yamada, Shigeru *see* **Tanaka, Hiroaki; et al.**
Yang, Chu Sing Reliability analysis on the multiple-loop network. (English summary) **93i:90048**
Young, Gilbert H. *see* **Ng, Chung W., 93j:90044**
Zak, Yu. A. A probabilistic analysis of structural reliability and productivity of assembly belts and automatic lines. (Russian. English summary)
Zelentsov, V. A. A model for estimating the reliability of systems with slack. (Russian)
Zhang, Ming Lian *see* **Cai, Kai Yuan; et al., 93a:90024**
Zhang, Zhi Hua *see* **Shi, Xi Quan¹; et al.**

Items with secondary classifications in 90B25

Altınel, İsmail Kuban The design of optimum component test plans in the demonstration of a series system reliability. (English summary) **93m:62209**
Ananda, Malwane M. A. Estimating the exponential reliability function for a system in series with type II censored data. (English summary) **93m:62210**
Arjas, Elja (*with* Norros, Ilkka) Should minimal repair depend on information? (English summary) **93i:60091**
— (*with* Norros, Ilkka) Stochastic order and martingale dynamics in multivariate life length models: a review. (English summary) **93j:60061**
Belyaev, Yu. K. (*with* Dugina, T. N.; Chistyakova, N. V.) Estimation of the reliability of a system with multiple failures on the basis of incomplete data. (Russian. Russian summary)
Block, Henry W. (*with* Langberg, Naftali A.; Savits, Thomas H.) Repair replacement policies. (English summary) **93j:60129**
Boland, Philip J. (*with* Proschan, Frank; Tong, Yung Liang) A stochastic ordering of partial sums of independent random variables and of some random processes. **93m:60035**
Boukas, El-Kebir Techniques for flow control and preventive maintenance in manufacturing systems. **93a:93011**
Chatterjee, Aditya *see* **Mukherjee, S. P., 93f:62135**
Cheng, Kan Some recent advances on reliability theory in China. **93i:60161**
Chern, Maw Sheng *see* **Lin, Kao Cheng, 93m:68136**
Chistyakova, N. V. *see* **Belyaev, Yu. K.; et al.**
Colbourn, Charles J. (*with* Harms, Daryl D.; Myrvold, Wendy J.) Reliability polynomials can cross twice. (English summary) **93m:94053**
Crowder, Martin (*with* Kimber, A. C.; Smith, Robert L.; Sweeting, Trevor J.) ★ Statistical analysis of reliability data. **93d:62167**
Del Grosso, G. (*with* Gerardi, A.; Koch, Giorgio) Optimality in accelerated life tests. (English summary) **93k:62202**
Dimitrov, B. *see* **Rachev, Svetlozar T.; et al., 93m:60175**
Dugina, T. N. *see* **Belyaev, Yu. K.; et al.**
Egeland, Thore Mixing dependence and system reliability. **93h:62179**
Eiselt, Horst A. (*with* Gendreau, Michel; Laporte, Gilbert) Location of facilities on a network subject to a single-edge failure. **93b:90039**
El-Mallah, Ehab S. Algorithms for K-terminal reliability problems with node failures. **93b:68008**

El-Neweihi, Emad (*with* Sethuraman, Jayaram) A study of the role of modules in the failure of systems. (English summary) **93j:60131**
Gaede, Karl-Walter Stochastic orderings in reliability. (English summary) (*see* **93g:60003**)
Gendreau, Michel *see* **Eiselt, Horst A.; et al., 93b:90039**
Gerardi, A. *see* **Del Grosso, G.; et al., 93k:62202**
Griffith, William S. *see* **Sheu, Shey Huei, 93j:60135**
Harms, Daryl D. *see* **Colbourn, Charles J.; et al., 93m:94053**
Hayashi, Masahiro Network reliability analysis using dual graph. **93a:94046**
Healy, Kevin J. Scheduling arrivals to a stochastic service mechanism. (English summary)
Heinricher, Arthur C. (*with* Stockbridge, Richard H.) Optimal control and replacement with state-dependent failure rate. (English summary) **93j:93152**
Hwang, F. K. (*with* Li, Wen-Ch'ing Winnie) Reliabilities of double-loop networks. (English summary) **93e:05057**
Iyer, Srinivas The Barlow-Proschan importance and its generalizations with dependent components. (English summary) **93h:60141**
Jaillet, Patrick Shortest path problems with node failures. (English summary) **93g:90037**
Khalil, Zohel *see* **Rachev, Svetlozar T.; et al., 93m:60175**
Kimber, A. C. *see* **Crowder, Martin; et al., 93d:62167**
Koch, Giorgio *see* **Del Grosso, G.; et al., 93k:62202**
Kordecki, Wojciech (*with* Szajowski, Krzysztof) Analysis of the structure and the reliability of the multistage technical systems. (*see* **93a:60004**)
Langberg, Naftali A. *see* **Block, Henry W.; et al., 93j:60129**
Laporte, Gilbert *see* **Eiselt, Horst A.; et al., 93b:90039**
Li, Wen-Ch'ing Winnie *see* **Hwang, F. K., 93e:05057**
Lin, Kao Chêng (*with* Chern, Maw Sheng) The most vital edges in the minimum spanning tree problem. (English summary) **93m:68136**
Lototskii, V. A. (*with* Mandel', A. S.) ★ Модели и методы управления запасами. (Russian. English and Russian summaries) [Models and methods of inventory control] **93k:90032**
Mandel', A. S. *see* **Lototskii, V. A., 93k:90032**
Marchuk, G. A. *see* **Stoïkova, L. S.**
Metzger, C. (*with* Rüschendorf, L.) Conditional variability ordering of distributions. **93d:60028**
Mukherjee, S. P. (*with* Chatterjee, Aditya) On some closure properties of dominance relations between life distributions based on reliability measures. **93f:62135**
Myrvold, Wendy J. *see* **Colbourn, Charles J.; et al., 93m:94053**
Norros, Ilkka *see* **Arjas, Elja, 93i:60091** *and* **93j:60061**
Ohi, Fumio (*with* Proschan, Frank) Crossing properties of reliability functions. (English summary) **93j:60134**
Proschan, Frank *see* **Ohi, Fumio, 93j:60134** *and* **Boland, Philip J.; et al., 93m:60035**
Rachev, Svetlozar T. (*with* Dimitrov, B.; Khalil, Zohel) A probabilistic approach to optimal quality usage. (English summary) **93m:60175**
Rüschendorf, L. *see* **Metzger, C., 93d:60028**
Savits, Thomas H. *see* **Block, Henry W.; et al., 93j:60129**
Sethi, Suresh P. *see* **Zhou, Xun Yu, 93g:93088**
Sethuraman, Jayaram *see* **El-Neweihi, Emad, 93j:60131**
Shaked, Moshe (*with* Shanthikumar, J. George) Reliability and maintainability. (*see* **93a:60001**)
Shanthikumar, J. George *see* **Shaked, Moshe, (93a:60001)**
Sheu, Shey Huei (*with* Griffith, William S.) Multivariate imperfect repair. (English summary) **93j:60135**
Smith, Robert L. *see* **Crowder, Martin; et al., 93d:62167**
Stern, H. I. Optimal control of a facility with periodic interrupted demand. **93g:90039**
Stockbridge, Richard H. *see* **Heinricher, Arthur C., 93j:93152**
Stoïkova, L. S. (*with* Marchuk, G. A.) Sharp estimates for the probability of failure in several models of reliability with incomplete information. (Russian. English and Russian summaries)
Sweeting, Trevor J. *see* **Crowder, Martin; et al., 93d:62167**
Szajowski, Krzysztof *see* **Kordecki, Wojciech, (93a:60004)**
Tong, Yung Liang *see* **Boland, Philip J.; et al., 93m:60035**
Venugopal, N. Some new approaches to problems in storage and general reliability systems. (*see* **93m:60007**)
Zelinskii, D. I. On the reliability of signal distinction by a multichannel frequency-time code receiver. (Russian. Russian summary)
Zhou, Xun Yu (*with* Sethi, Suresh P.) A sufficient condition for near optimal stochastic controls and its application to an HMMS model under uncertainty. (English summary) **93g:93088**

90B30 Production models

Federgruen, Awi (*with* Queyranne, Maurice; Zheng, Yu-Sheng) Simple power-of-two policies are close to optimal in a general class of production/distribution networks with general joint setup costs. (English summary) **93j:90045**
McCardle, Kevin F. Strategic uncertain search. **93a:90027**
Queyranne, Maurice *see* **Federgruen, Awi; et al., 93j:90045**
Zheng, Yu-Sheng *see* **Federgruen, Awi; et al., 93j:90045**

Items with secondary classifications in 90B30

Ascheuer, N. (*with* Escudero, L. F.; Grötschel, Martin; Stoer, Mechthild) A cutting plane approach to the sequential ordering problem (with applications to job scheduling in manufacturing). (English summary) **93k:90033**
Avi-Itzhak, Benjamin (*with* Halfin, Shlomo) Servers in tandem with communication and manufacturing blocking. (English summary) **93m:60195**
Cheng, Liping *see* **Ding, Fong-Yuen**
Ding, Fong-Yuen (*with* Cheng, Liping) A simple sequencing algorithm for mixed-model assembly lines in just-in-time production systems. (English summary)
Escudero, L. F. *see* **Ascheuer, N.; et al., 93k:90033**
Grötschel, Martin *see* **Ascheuer, N.; et al., 93k:90033**
Halfin, Shlomo *see* **Avi-Itzhak, Benjamin, 93m:60195**
Jagannathan, Raj Linear programming with stochastic processes as parameters as applied to production planning. **93a:90048**
Stoer, Mechthild *see* **Ascheuer, N.; et al., 93k:90033**

90B35 Scheduling theory [see also 68M20]

Ahmadi, Javad H. (*with* Ahmadi, Reza H.; Dasu, Sriram; Tang, Christopher S.) Batching and scheduling jobs on batch and discrete processors. (English summary)
Ahmadi, Reza H. (*with* Bagchi, Uttarayan) Minimizing job idleness in deadline constrained environments. (English summary)
— *see also* **Ahmadi, Javad H.; et al.**
Alidaee, B. Optimal assignment of NOP due-dates and sequencing in a single machine shop. (English summary) **93e:90030**
— Maximizing set function formulation of two scheduling problems. (English summary)
Aoki, Kenichi (*with* Kanezashi, Masakazu; Itoh, Masaru; Matsuura, Haruki) Power generation scheduling by neural network. (English summary)
Bagchi, Uttarayan *see* **Ahmadi, Reza H.**
Baxter, Laurence A. (*with* Harche, Farid) On the optimal assembly of series-parallel systems. (English summary)
Belouadah, H. (*with* Posner, M. E.; Potts, C. N.) Scheduling with release dates on a single machine to minimize total weighted completion time. **93a:90028**
Bianco, Lucio (*with* Dell'Olmo, P.; Speranza, M. Grazia) A decomposition approach to a scheduling problem with multiple modes. (*see* **93e:90003**)
Blieberger, J. (*with* Schmid, Ulrich) Preemptive LCFS scheduling in hard real-time applications. (English summary) **93h:90046**
— *see also* **Schmid, Ulrich, 93h:90049**
Brah, Shaukat A. Complexity of the flow shop with multiple processors scheduling problem, and some dominance conditions. (English summary) (*see* **93d:90005**)
Browne, Sid (*with* Weiss, Gideon) Dynamic priority rules when polling with multiple parallel servers. (English summary) **93i:90049**
Chand, Suresh (*with* Chhajed, Dilip) A single machine model for determination of optimal due dates and sequence. (English summary)
Chandru, Vijaya (*with* Lee, Chung-Yee; Uzsoy, Reha) Minimizing total completion time on a batch processing machine with job families. (English summary)
Chang, Cheng-Shang (*with* Chao, Xiuli; Pinedo, Michael; Weber, Richard R.) On the optimality of LEPT and $c\mu$ rules for machines in parallel. **93d:90025**
Chao, Xiuli *see* **Chang, Cheng-Shang; et al., 93d:90025**
Chen, Rong Qiu *see* **Xiong, Ya Zhou**
Chen, Z. L. *see* **Li, Chung-Lun; et al., 93k:90044**
Cheng, Liping *see* **Ding, Fong-Yuen**
Cheng, T. C. E. (*with* Kahlbacher, H. G.) The parallel-machine common due-date assignment and scheduling problem is NP-hard. (English summary) **93m:90041**
— *see also* **Li, Chung-Lun; et al., 93k:90044**
Chhajed, Dilip *see* **Chand, Suresh**
Choo, E. U. *see* **Warburton, A. R.; et al., (93d:90005)**
Chu, Chengbin A branch-and-bound algorithm to minimize total flow time with unequal release dates. (English summary) **93e:90031**
— Efficient heuristics to minimize total flow time with release dates. (English summary)
Coffman, Edward G., Jr. (*with* Flatto, Leopold; Wright, Paul E.) Optimal stochastic allocation of machines under waiting-time constraints. (English summary) **93k:90040**
Correira, António Dourado P. *see* **Monteiro, Paulo P., 93c:90038**
Dasu, Sriram *see* **Ahmadi, Javad H.; et al.**
De, Prabuddha (*with* Ghosh, Jay B.; Wells, Charles E.) On the general solution for a class of early/tardy problems. (English summary)
Delic, Hakan (*with* Papantoni-Kazakos, P.) A class of scheduling policies for mixed data with renewal arrival processes. (English summary) **93k:90041**
Dell'Olmo, P. *see* **Bianco, Lucio; et al., (93e:90003)**
Deshpande, Y. L. Towards reducing computational demands in calculating lower bounds in permutation flow shop scheduling. (English summary) (*see* **93d:90005**)
Dileepan, Parthasarati Common due date scheduling problem with separate earliness and tardiness penalties. (English summary)
Ding, Fong-Yuen (*with* Cheng, Liping) A simple sequencing algorithm for mixed-model assembly lines in just-in-time production systems. (English summary)
Dohi, Tadashi *see* **Kaio, Naoto; et al., 93f:90091**
Dror, Moshe Openshop scheduling with machine dependent processing times. (English summary) **93h:90047**
Du, Jianzhong (*with* Leung, Joseph Y.-T.; Wong, Chin Siong) Minimizing the number of late jobs with release time constraint. **93a:90029**
— (*with* Leung, Joseph Y.-T.) Minimizing mean flow time in two-machine open shops and flow shops. (English summary) **93i:90050**
— (*with* Leung, Joseph Y.-T.) Minimizing mean flow time with release time and deadline constraints. (English summary)
Erkip, N. *see* **Süral, H.; et al.**
Farnbacher, E. *see* **Tinhofer, G., (93e:90003)**
Flatto, Leopold *see* **Coffman, Edward G., Jr.; et al., 93k:90040**
Frenk, J. B. G. A note on one-machine scheduling problems with imperfect information. (English summary) **93f:90086**
— A general framework for stochastic one-machine scheduling problems with zero release times and no partial ordering. (English summary)
Frostig, Esther A note on stochastic scheduling on a single machine subject to breakdown—the preemptive repeat model. (English summary) **93f:90087**
Fukuda, Toyoo *see* **Tsukiyama, Makoto; et al., (93e:90003)**
Gallego, Guillermo (*with* Roundy, Robin) The economic lot scheduling problem with finite backorder costs. **93a:90030**
Gershuni, D. S. The problem of two periodic tasks. (Russian) **93b:90032**
Ghosh, Jay B. *see* **De, Prabuddha; et al.**
Glazebrook, Kevin D. On nonpreemptive policies for stochastic single-machine scheduling with breakdowns. (English summary) **93f:90088**
— (*with* Whitaker, Lyn R.) Single-machine stochastic scheduling with dependent processing times. **93k:90042**
— Single-machine scheduling of stochastic jobs subject to deterioration or delay. **93i:90051**

— On permutation policies for the scheduling of deteriorating stochastic jobs on a single machine. (English summary) **93i:90052**
Golenko-Ginzburg, Dimitri (*with* Sims, Julie A.) Using permutation spaces in job-shop scheduling. (English summary)
González, Roberto L. V. (*with* Muramatsu, Kenji; Rofman, Edmundo) Quasi-variational inequality approach to multi-item single machine lot scheduling problem. (*see* **93e:90003**)
Gordon, V. S. Parallel algorithms for solving problems in scheduling theory. (Russian. Russian summary) **93f:90089**
GOThA Le problèmes d'ordonnancement. (English and French summaries) [Scheduling problems]
Granot, Frieda (*with* Skorin-Kapov, Jadranka) On polynomial solvability of the high multiplicity total weighted tardiness problem. (English summary) **93j:90046**
Hall, Leslie A. (*with* Shmoys, David B.) Jackson's rule for single-machine scheduling: making a good heuristic better. **93a:90031**
Han, Ching-Chih (*with* Lin, Kwei-Jay) Scheduling real-time computations with separation constraints. **93c:90037**
Harche, Farid *see* **Baxter, Laurence A.**
Hasegawa, Toshiharu *see* **Takine, Tetsuya**, **93b:90034**
Hong, Kwang S. (*with* Leung, Joseph Y.-T.) Some results on Liu's conjecture. (English summary) **93i:90053**
Huang, Chueng Chiu (*with* Weiss, Gideon) Scheduling jobs with stochastic processing times and due dates to minimize total tardiness. (English summary) **93f:90090**
Itoh, Masaru *see* **Aoki, Kenichi; et al.**
Jansen, Klaus Scheduling with constrained processor allocation for interval orders. (English summary)
Jung, Young-Sik (*with* Nagasawa, Hiroyuki; Nishiyama, Noriyuki) Extension of deterministic scheduling in stochastic scheduling. (English summary) **93h:90048**
Kahlbacher, H. G. *see* **Cheng, T. C. E.**, **93m:90041**
Kaio, Naoto (*with* Dohi, Tadashi; Osaki, Shunji) Optimal maintenance policies with lead times and repair. (English summary) **93f:90091**
Kanezashi, Masakazu *see* **Aoki, Kenichi; et al.**
Keil, J. Mark On the complexity of scheduling tasks with discrete starting times. (English summary)
Kim, Yeong-Dae A new branch and bound algorithm for minimizing mean tardiness in two-machine flowshops. (English summary)
Kleinau, Ulf Two-machine shop scheduling problems with batch processing. (English summary) **93k:90043**
Klostermeyer, William On the complexity of scheduling to optimize average response time. (English summary)
Kondakcı, S. *see* **Süral, H.; et al.**
Korst, Jan ★ Periodic multiprocessor scheduling.
Kostogryzov, A. I. Investigation of the efficiency of a combination of different disciplines of priority servicing of calls in computer systems. (Russian. English and Ukrainian summaries)
Koulamas, C. P. A bi-criterion algorithm for minimizing machine interference and reducing job waiting time. (English summary)
Kumar, Panganamala Ramana Re-entrant lines. (English summary)
Lau, Hoong Chuin Preference-based scheduling via constraint satisfaction. (English summary) (*see* **93d:90005**)
Lee, Chung-Yee (*with* Lin, Chen-Sin) Stochastic flow-shop scheduling with lateness-related performance measures. (English summary) **93f:90092**
— (*with* Liman, Surya Danusaputro) Single machine flow-time scheduling with scheduled maintenance. (English summary) **93f:90093**
— (*with* Uzsoy, Reha; Martin-Vega, Louis A.) Efficient algorithms for scheduling semiconductor burn-in operations. (English summary)
— (*with* Liman, Surya Danusaputro) Capacitated two-parallel machines scheduling to minimize sum of job completion times. (English summary) **93i:90054**
— *see also* **Chandru, Vijaya; et al.**
Leong, H.-W. (*with* Tia, T. S.) New heuristic algorithms for precedence constrained scheduling. (English summary) (*see* **93d:90005**)
Leung, Joseph Y.-T. *see* **Du, Jianzhong; et al.**, **93a:90029**; **93i:90050**; **Hong, Kwang S.**, **93i:90053** *and* **Du, Jianzhong**
Li, Chung-Lun (*with* Chen, Z. L.; Cheng, T. C. E.) A note on one-processor scheduling with asymmetric earliness and tardiness penalties. (English summary) **93k:90044**
Liao, Ching Jong Optimal release time on a stochastic single machine. (English summary)
Liman, Surya Danusaputro *see* **Lee, Chung-Yee**, **93f:90093** *and* **93i:90054**
Lin, Chen-Sin *see* **Lee, Chung-Yee**, **93f:90092**
Lin, Kwei-Jay *see* **Han, Ching-Chih**, **93c:90037**
Lin, Miao Tsong (*with* Tseng, Shian Shyong) Relocation problems of maximizing new capacities under a common due date. (English summary) **93f:90094**
Logunov, P. L. Comparison of expenditures with an optimal and a random control in a particular technical system. (Russian. Russian summary) **93d:90026**
Lou, Sheldon (*with* Sethi, Suresh P.; Sorger, Gerhard) Stability of real-time lot scheduling policies for an unreliable machine. (English summary)
Mansour, Yishay (*with* Patt-Shamir, Boaz) Greedy packet scheduling on shortest paths. (English summary) **93m:90042**
Martin-Vega, Louis A. *see* **Lee, Chung-Yee; et al.**
Matsuura, Haruki *see* **Aoki, Kenichi; et al.**
Monteiro, Paulo P. (*with* Correira, António Dourado P.) Short-term production scheduling: a new and more efficient algorithm and its application to the pulp and paper industry. (English summary) **93c:90038**
Mori, Kazuyuki *see* **Tsukiyama, Makoto; et al.**, **(93e:90003)**
Muramatsu, Kenji *see* **González, Roberto L. V.; et al.**, **(93e:90003)**
Nagasawa, Hiroyuki *see* **Jung, Young-Sik; et al.**, **93h:90048**
Nishiyama, Noriyuki *see* **Jung, Young-Sik; et al.**, **93h:90048**
Osaki, Shunji *see* **Kaio, Naoto; et al.**, **93f:90091**
Panishev, A. V. (*with* Varakin, A. S.) Optimal sequencing of two-stage jobs in flexible manufacturing systems. (Russian. English and Ukrainian summaries)
Papantoni-Kazakos, P. *see* **Delic, Hakan**, **93k:90041**
Patt-Shamir, Boaz *see* **Mansour, Yishay**, **93m:90042**
Pinedo, Michael *see* **Chang, Cheng-Shang; et al.**, **93d:90025**
Porotskii, S. M. Determination of minimal error of methods for calculating queueing systems "by two moments". (Russian. Russian summary)
Posner, M. E. *see* **Belouadah, H.; et al.**, **93a:90028**
Potts, C. N. (*with* Van Wassenhove, L. N.) Single machine scheduling to minimize total late work. (English summary)
— (*with* Van Wassenhove, L. N.) Approximation algorithms for scheduling a single machine to minimize total late work. (English summary) **93f:90095**
— *see also* **Belouadah, H.; et al.**, **93a:90028**
Pronovost, D. *see* **Warburton, A. R.; et al.**, **(93d:90005)**
Righter, Rhonda Multiprocessor scheduling and the sequential assignment problem. **93b:90033**
Rofman, Edmundo *see* **González, Roberto L. V.; et al.**, **(93e:90003)**
Roundy, Robin *see* **Gallego, Guillermo**, **93a:90030**
Schmid, Ulrich (*with* Blieberger, J.) Some investigations on FCFS scheduling in hard real time applications. (English summary) **93h:90049**
— *see also* **Blieberger, J.**, **93h:90046**
Sethi, Suresh P. *see* **Lou, Sheldon; et al.**
Shakhlevich, N. V. *see* **Strusevich, V. A.**
Shmoys, David B. *see* **Hall, Leslie A.**, **93a:90031**
Sims, Julie A. *see* **Golenko-Ginzburg, Dimitri**
Skorin-Kapov, Jadranka *see* **Granot, Frieda**, **93j:90046**
Sok, Yu Chang (*with* Zimmermann, Karel) Optimal choice of parameters in machine-time scheduling problems with penalized earliness in starting and lateness in completing the operations. (English, Russian and Czech summaries)
Sorger, Gerhard *see* **Lou, Sheldon; et al.**
Sousa, Jorge P. (*with* Wolsey, Laurence A.) A time indexed formulation of nonpreemptive single machine scheduling problems. **93c:90039**
Speranza, M. Grazia *see* **Bianco, Lucio; et al.**, **(93e:90003)**
Strusevich, V. A. (*with* Shakhlevich, N. V.) Optimal scheduling of two jobs in systems with nonfixed routes. (Russian. Russian summary)
Sun, Shi Jie A branch-and-bound method for solving two lower bound estimates of the tardy/early scheduling problem. (Chinese. English summary) **93d:90027**
Süral, H. (*with* Kondakcı, S.; Erkip, N.) Scheduling unit-time tasks in renewable resource constrained flowshops. (English summary)
Szwarc, Włodzimierz Adjacent orderings in single-machine scheduling with earliness and tardiness penalties. (English summary) **93j:90047**
Takine, Tetsuya (*with* Hasegawa, Toshiharu) Average waiting time of a symmetric polling system under Bernoulli scheduling. **93b:90034**
Tang, Christopher S. *see* **Ahmadi, Javad H.; et al.**
Tia, T. S. *see* **Leong, H.-W.**, **(93d:90005)**
Tinhofer, G. (*with* Farnbacher, E.) A new lower bound for the makespan of a single machine scheduling problem. (*see* **93e:90003**)
Tsai, Li-Hui Sequencing to minimize the maximum renewal cumulative cost. (English summary) **93i:90055**
Tseng, Shian Shyong *see* **Lin, Miao Tsong**, **93f:90094**
Tsukiyama, Makoto (*with* Mori, Kazuyuki; Fukuda, Toyoo) Dynamic scheduling with Petri-net modeling and constraint-based schedule editing for flexible manufacturing systems. (English summary) (*see* **93e:90003**)
Uzsoy, Reha *see* **Lee, Chung-Yee; et al.** *and* **Chandru, Vijaya; et al.**
Vakhaniya, N. N. Ordering of operations in the case of parallel machines. (Russian. Russian summary) **93f:90096**
Van Wassenhove, L. N. *see* **Potts, C. N.**, **93f:90095**
Varakin, A. S. *see* **Panishev, A. V.**
Wang, P. Patrick Static and dynamic scheduling of customer arrivals to a single-server system. (English summary)
Warburton, A. R. (*with* Choo, E. U.; Pronovost, D.) A parametric model for staff scheduling problems with flexible demand constraints. (English summary) (*see* **93d:90005**)
Weber, Richard R. *see* **Chang, Cheng-Shang; et al.**, **93d:90025**
Wein, Lawrence M. Dynamic scheduling of a multiclass make-to-stock queue. (English summary) **93f:90097**
Weiss, Gideon *see* **Huang, Chueng Chiu**, **93f:90090** *and* **Browne, Sid**, **93i:90049**
Wells, Charles E. *see* **De, Prabuddha; et al.**
Whitaker, Lyn R. *see* **Glazebrook, Kevin D.**, **93k:90042**
Woeginger, Gerhard J. (*with* Yu, Zhong Liang) A heuristic for preemptive scheduling with set-up times. (English and German summaries)
Wolsey, Laurence A. *see* **Sousa, Jorge P.**, **93c:90039**
Wong, Chin Siong *see* **Du, Jianzhong; et al.**, **93a:90029**
Wright, Paul E. *see* **Coffman, Edward G., Jr.; et al.**, **93k:90040**
Xiong, Ya Zhou (*with* Chen, Rong Qiu) Criteria for $n/1//\overline{F}+\overline{T}+\overline{E}$ problems. (Chinese. English and Chinese summaries)
Xu, Susan H. Stochastically minimizing total delay of jobs subject to random deadlines. (English summary)
— On a job resequencing issue in parallel processor stochastic scheduling. (English summary) **93h:90050**
Yu, Zhong Liang *see* **Woeginger, Gerhard J.**
Zdrzałka, Stanisław Scheduling jobs on a single machine with release dates, delivery times and controllable processing times: worst-case analysis. **93b:90035**
Zhang, Bo[2] (*with* Zhang, Ling[1]) A relation matrix approach to labelling temporal relations in scheduling.
Zhang, Ling[1] *see* **Zhang, Bo[2]**
Zimmermann, Karel *see* **Sok, Yu Chang**

Items with secondary classifications in 90B35

Bein, Wolfgang W. (*with* Kamburowski, Jerzy; Stallmann, Matthias F. M.) Optimal reduction of two-terminal directed acyclic graphs. (English summary) **93j:68152**
Borodin, Allan (*with* Linial, Nathan; Saks, Michael E.) An optimal on-line algorithm for metrical task system. (English summary) **93g:68008**
Csirik, János (*with* Kellerer, Hans[2]; Woeginger, Gerhard J.) The exact LPT-bound for maximizing the minimum completion time. (English summary) **93f:90127**

Daun, Brian *see* **Zweben, Monte; et al., 93i:68159**
Dave, Upendra On probabilistic scheduling period inventory system with instantaneous demand. (English summary)
Davis, Eugene *see* **Zweben, Monte; et al., 93i:68159**
Deale, Michael *see* **Zweben, Monte; et al., 93i:68159**
Drascher, Ellen *see* **Zweben, Monte; et al., 93i:68159**
Eskey, Megan *see* **Zweben, Monte; et al., 93i:68159**
Grega, Wojciech Decomposition approach to the public transport scheduling problem. (English summary)
Gupta, Ashish *see* **Swami, Arun; et al., 93i:68029**
Hasegawa, Toshiharu *see* **Takine, Tetsuya, 93g:60201**
Hassin, Refael Approximation schemes for the restricted shortest path problem. **93b:90102**
Hochbaum, Dorit S. (*with* Shamir, Ron; Shanthikumar, J. George) A polynomial algorithm for an integer quadratic nonseparable transportation problem. **93e:90041**
Holte, Robert (*with* Rosier, Louis; Tulchinsky, Igor; Varvel, Donald) Pinwheel scheduling with two distinct numbers. **93d:68008**
Johnston, Mark D. *see* **Minton, Steven; et al.**
Kamburowski, Jerzy *see* **Bein, Wolfgang W.; et al., 93j:68152**
Kellerer, Hans² *see* **Csirik, János; et al., 93f:90127**
Laird, Philip *see* **Minton, Steven; et al.**
Laws, C. N. Resource pooling in queueing networks with dynamic routing. **93h:90037**
Lee, S. F. *see* **Leong, H.-W., 93f:90213**
Leong, H.-W. (*with* Lee, S. F.) A new approach to game scheduling with preassignments. (English summary) **93f:90213**
Linial, Nathan *see* **Borodin, Allan; et al., 93g:68008**
Liu, Zhen (*with* Nain, Philippe; Towsley, Donald) On optimal polling policies. (English summary) **93h:60156**
Minton, Steven (*with* Johnston, Mark D.; Philips, Andrew B.; Laird, Philip) Minimizing conflicts: a heuristic repair method for constraint satisfaction and scheduling problems. (English summary)
Motwani, Rajeev (*with* Phillips, Steven J.; Torng, Eric) Nonclairvoyant scheduling. (English summary) **93k:68015**
Nain, Philippe *see* **Liu, Zhen; et al., 93h:60156**
Navathe, Shamkant B. *see* **Rivera-Vega, Pedro I.; et al., 93e:90026**
Philips, Andrew B. *see* **Minton, Steven; et al.**
Phillips, Steven J. *see* **Motwani, Rajeev; et al., 93k:68015**
(Phua, Paul Kang Hoh) *see* **Optimization, 93d:90005**
Plotkin, Serge A. (*with* Shmoys, David B.; Tardos, Éva) Fast approximation algorithms for fractional packing and covering problems. (English summary) **93j:90083**
Righter, Rhonda (*with* Shanthikumar, J. George) Extension of the bivariate characterization for stochastic orders. **93b:60036**
Rivera-Vega, Pedro I. (*with* Varadarajan, Ravi; Navathe, Shamkant B.) Scheduling file transfers in fully connected networks. (English summary) **93e:90026**
Rosier, Louis *see* **Holte, Robert; et al., 93d:68008**
Saks, Michael E. *see* **Borodin, Allan; et al., 93g:68008**
Shamir, Ron *see* **Hochbaum, Dorit S.; et al., 93e:90041**
Shanthikumar, J. George *see* **Righter, Rhonda, 93b:60036** *and* **Hochbaum, Dorit S.; et al., 93e:90041**
Shmoys, David B. (*with* Wein, Joel; Williamson, David P.) Scheduling parallel machines on-line. (English summary) (*see* **93d:68005**)
— (*with* Tardos, Éva) Scheduling unrelated machines with costs. (English summary) **93m:68025**
— *see also* **Plotkin, Serge A.; et al., 93j:90083**
Stallmann, Matthias F. M. *see* **Bein, Wolfgang W.; et al., 93j:68152**
Swami, Arun (*with* Young, Honesty C.; Gupta, Ashish) Algorithms for handling skew in parallel task scheduling. (English summary) **93i:68029**
Takine, Tetsuya (*with* Hasegawa, Toshiharu) A cyclic-service finite source model with round-robin scheduling. (English summary) **93g:60201**
Tardos, Éva *see* **Plotkin, Serge A.; et al., 93j:90083** *and* **Shmoys, David B., 93m:68025**
Torng, Eric *see* **Motwani, Rajeev; et al., 93k:68015**
Towsley, Donald *see* **Liu, Zhen; et al., 93h:60156**
Tsai, Li-Hui An algorithm for flow time minimization and its asymptotic makespan properties. (English summary) **93i:68030**
Tulchinsky, Igor *see* **Holte, Robert; et al., 93d:68008**
Varadarajan, Ravi *see* **Rivera-Vega, Pedro I.; et al., 93e:90026**
Varvel, Donald *see* **Holte, Robert; et al., 93d:68008**
(Wang, C. M.) *see* **Optimization, 93d:90005**
Wein, Joel *see* **Shmoys, David B.; et al., (93d:68005)**
Williamson, David P. *see* **Shmoys, David B.; et al., (93d:68005)**
Woeginger, Gerhard J. *see* **Csirik, János; et al., 93f:90127**
(Yeong, W. Y.) *see* **Optimization, 93d:90005**
Young, Honesty C. *see* **Swami, Arun; et al., 93i:68029**
Yuan, Jin Jiang The NP-hardness of the single machine common due date weighted tardiness problem. (English summary)
Zweben, Monte (*with* Davis, Eugene; Daun, Brian; Drascher, Ellen; Deale, Michael; Eskey, Megan) Learning to improve constraint-based scheduling. (English summary) **93i:68159**

Items listed otherwise than by author

Conference:
Optimization Techniques and Applications ★ Optimization. Vol. 1, 2. **93d:90005**
Optimization ★ Optimization. Vol. 1, 2. **93d:90005**
Singapore ★ Optimization. Vol. 1, 2. **93d:90005**

90B40 Search theory

Abd El-Moneim, M. A. *see* **El-Rayes, A. B.; et al.**
Bather, J. A. Search models. **93i:90056**
Beck, Anatole (*with* Beck, Micah) The revenge of the linear search problem. **93f:90098**
Beck, Micah *see* **Beck, Anatole, 93f:90098**
El-Rayes, A. B. (*with* Abd El-Moneim, M. A.; Fergani, H. A.) On the generalized linear search problem. (English and Arabic summaries)
Fergani, H. A. *see* **El-Rayes, A. B.; et al.**
Gargano, Luisa (*with* Körner, János; Vaccaro, Ugo) Search problems for two irregular coins with incomplete feedback: the underweight model. **93b:90036**
Hassin, Refael (*with* Tamir, Arie) Minimal length curves that are not embeddable in an open planar set: the problem of a lost swimmer with a compass. **93d:90028**
Kalbaugh, D. V. Optimal search among false contacts. (English summary) **93i:90057**
Körner, János *see* **Gargano, Luisa; et al., 93b:90036**
McKenna, C. J. Counter-offers in the theory of individual job search.
Ohsumi, Akira Optimal search for a Markovian target. **93b:90037**
Tamir, Arie *see* **Hassin, Refael, 93d:90028**
Vaccaro, Ugo *see* **Gargano, Luisa; et al., 93b:90036**
Vishwanath, Tara Parallel search for the best alternative. **93h:90051**
White, Douglas John A conjecture of Ross for a search problem. **93a:90032**

Items with secondary classifications in 90B40

Chkhartishvili, A. G. A geometric property of the tracking domain in a search problem. (Russian. Russian summary) **93m:90127**
(Ermakov, S. M.) *see* **Zhiglyavskii, A. A., 93i:90004**
Feinberg, Eugene A. A Markov decision model of a search process. **93c:90101**
Ikuta, Seizo The optimal stopping problem in which the sum of the accepted offer's value and the remaining search budget is an objective function. (English summary) **93j:60057**
Ivanov, M. N. *see* **Zheleznov, V. S.; et al., 93g:90106**
Kikuta, Kensaku A search game with traveling cost. **93a:90100**
Kurskii, È. A. *see* **Zheleznov, V. S.; et al., 93g:90106**
Maslov, E. P. *see* **Zheleznov, V. S.; et al., 93g:90106**
O'Geran, J. H. (*with* Wynn, Henry P.; Zhiglyavskii, A. A.) Search. **93c:62012**
Wynn, Henry P. *see* **O'Geran, J. H.; et al., 93c:62012**
Zheleznov, V. S. (*with* Ivanov, M. N.; Maslov, E. P.; Kurskii, È. A.) On an evasion problem in a space. (Russian. Russian summary) **93g:90106**
Zhiglyavskii, A. A. ★ Theory of global random search. **93i:90004**
— *see also* **O'Geran, J. H.; et al., 93c:62012**

90B50 Management decision-making, including multiple objectives [see also 90A05, 90C31, 90D35]

Arya, Anil (*with* Young, Richard A.; Woodlock, Peter) Managerial reporting discretion and the truthfulness of disclosures. (English summary)
Basaglia, Giorgio *see* **Guida, Marco; et al.**
Fishburn, Peter C. On the theory of ambiguity. (English summary) **93h:90052**
Guida, Marco (*with* Marchesi, Paola; Basaglia, Giorgio) Knowledge-based decision support systems for manufacturing decision-making. The Pirelli experience. (English summary)
Gutiérrez Díez, José Manuel On the gearing adjustment. An axiomatic approach. (English summary) **93h:90053**
Malakooti, Behnam B. (*with* Tandler, Evan C.) An overview of a decision support system for solving discrete MCDM problems under certainty and uncertainty with applications to multiobjective production planning. (English summary)
Marchesi, Paola *see* **Guida, Marco; et al.**
Pachón, Jacinto González (*with* Ríos-Insúa, Sixto) Characterization of linear rational preference structures.
Paolucci, Massimo (*with* Pesenti, Raffaele) Assessing a new utility/cost function for multiattribute decision making. (English summary)
Pesenti, Raffaele *see* **Paolucci, Massimo**
Ramakrishnan, R. (*with* Rao, C. J. M.) The fuzzy weighted additive rule. **93b:90038**
Rao, C. J. M. *see* **Ramakrishnan, R., 93b:90038**
Ríos-Insúa, Sixto *see* **Pachón, Jacinto González**
Sheng, Zhao Han *see* **Xia, Hong Sheng; et al.**
Tandler, Evan C. *see* **Malakooti, Behnam B.**
Tang, Xiao Wo A study on combination forecasting error information matrices. (Chinese. English and Chinese summaries)
Wakuta, Kazuyoshi Optimal stationary policies in the vector-valued Markov decision process. **93f:90099**
Wang, Jing *see* **Wei, Shi Xiao; et al.**
Wei, Shi Xiao (*with* Zhou, Xian Zhong; Wang, Jing) A graphic interactive relaxation method for multi-objective decision making. (Chinese. English summary)
Woodlock, Peter *see* **Arya, Anil; et al.**
Xia, Hong Sheng (*with* Sheng, Zhao Han; Xu, Nan Rong) A method based on the trade-off rate for two-level multi-objective decision making with several interconnected decision-makers. (Chinese. English and Chinese summaries)
Xu, Nan Rong *see* **Xia, Hong Sheng; et al.**
Young, Richard A. *see* **Arya, Anil; et al.**
Zhou, Xian Zhong *see* **Wei, Shi Xiao; et al.**

Items with secondary classifications in 90B50

Bennavail, J.-C. (*with* Chen, Z.; Singh, Madan G.) Judgemental calibration of multivariable constant elasticity models: scenario generation. (English summary)
Benson, Harold P. (*with* Sayin, Serpil) A face search heuristic algorithm for optimizing over the efficient set. (English summary) **93h:90079**
Cen, Cheng De An interactive conservative optimal method for multi-objective decision making. (Chinese. English and Chinese summaries)
Chen, Z. *see* **Bennavail, J.-C.; et al.**
Chumakov, V. V. Multistage decision making problems with noncoincident player interests under conditions of subjective uncertainty. (Russian) **93b:90077**
Erkut, Erhan (*with* Tarimcilar, Murat) On sensitivity analysis in the analytic hierarchy process.
French, Simon Recent mathematical developments in decision analysis.
Furuya, Tatsumi *see* **Nitta, Tohru, 93h:90013**
Greco, Salvatore Binary preference relations: a difference-distance and entropy-uncertainty approach. **93c:90007**

Hwang, Ching Lai *see* **Lai, Young-Jou**
Kolonko, Michael Optimal compactification of a floorplan and its relation to other optimization problems—a dynamic programming approach. (English summary) **93k:90108**
Lai, Young-Jou (*with* Hwang, Ching Lai) IFLP-II: a decision support system. (English summary)
Mirzoakhmedov, F. (*with* Mosheev, L. I.) Deterministic and stochastic approximating problems with applications to the control of production. (Russian. English, Russian and Ukrainian summaries) **93g:90053**
Mosheev, L. I. *see* **Mirzoakhmedov, F., 93g:90053**
Nefedov, E. V. *see* **Volkovich, V. L.**
Nitta, Tohru (*with* Furuya, Tatsumi) An analysis of a stochastic resource allocation model with a nonnegative production function. (Japanese. English summary) **93h:90013**
Pusz, Grzegorz Two-criteria analysis of a flexible manufacturing system. (English and Polish summaries)
Ríos Insua, David On the foundations of decision making under partial information. **93d:90007**
Sayin, Serpil *see* **Benson, Harold P., 93h:90079**
Singh, Madan G. Complex systems analysis for managerial decision support in a competitive business environment. (English summary) (*see* **93e:00021**)
— *see also* **Bennavail, J.-C.; et al.**
Tarimcilar, Murat *see* **Erkut, Erhan**
Volkovich, V. L. (*with* Nefedov, E. V.) Multicriterial optimization as a method for solving quality estimation problems. (Russian. English, Russian and Ukrainian summaries)

90B60 Marketing, advertising [see also 90A60]

Items with secondary classifications in 90B60

Assaf, David (*with* Levikson, Benny) Optimal advertising policy for selling a single asset. **93f:90049**
Levikson, Benny *see* **Assaf, David, 93f:90049**

90B70 Theory of organizations, industrial and manpower planning [see also 92H35]

Caulkins, Jonathan P. (*with* Padman, Rema) Interdiction's impact on the structure and behavior of the export-import sector for illicit drugs. (English summary)
Padman, Rema *see* **Caulkins, Jonathan P.**
Papadopoulou, A. A. *see* **Vassiliou, P.-C. G., 93e:90032**
Vassiliou, P.-C. G. (*with* Papadopoulou, A. A.) Nonhomogeneous semi-Markov systems and maintainability of the state sizes. **93e:90032**

Items with secondary classifications in 90B70

Gerontidis, Ioannis I. Cyclic strong ergodicity in nonhomogeneous Markov systems. **93b:60156**
Govindarajulu, Z. The secretary problem: optimal selection with batch-interviewing and cost. (English and French summaries) **93m:60083**
Lysenko, I. V. (*with* Ptushkin, A. I.) The equivalent transformation method for network models. (Russian. Russian summary) **93k:90099**
Ptushkin, A. I. *see* **Lysenko, I. V., 93k:90099**

90B80 Discrete location and assignment [see also 90C10]

Ahuja, Ravindra K. *see* **Orlin, James B., 93b:90040**
Bastian, Michael (*with* Volkmer, M.) A perfect forward procedure for a single facility dynamic location/relocation problem. (English summary) **93f:90100**
Bhattacharya, U. (*with* Rao, J. R.; Tiwari, R. N.) Fuzzy multi-criteria facility location problem. (English summary) **93g:90043**
Boe, Warren J. *see* **Cheng, Chun Hung; et al., 93d:90029**
Brandeau, Margaret L. (*with* Chiu, Samuel S.) A center location problem with congestion. (English summary) **93m:90043**
Campbell, James F. Location-allocation for distribution to a uniform demand with transshipments.
Cheng, Chun Hung (*with* Kusiak, Andrew; Boe, Warren J.) A branch-and-bound algorithm for solving the machine allocation problem. **93d:90029**
Chiu, Samuel S. *see* **Brandeau, Margaret L., 93m:90043**
Drezner, Zvi A note on the Weber location problem. (English summary) **93m:90044**
— (*with* Simchi-Levi, David) Asymptotic behavior of the Weber location problem on the plane. (English summary) **93m:90045**
Eiselt, Horst A. Hotelling's duopoly on a tree. (English summary) **93m:90046**
— (*with* Gendreau, Michel; Laporte, Gilbert) Location of facilities on a network subject to a single-edge failure. **93b:90039**
— (*with* Laporte, Gilbert) The existence of equilibria in the 3-facility Hotelling model in a tree. (English summary) **93m:90047**
Gendreau, Michel *see* **Eiselt, Horst A.; et al., 93b:90039**
Govindan, Ramesh *see* **Pandu Rangan, C., 93d:90030**
Huang, Guo Shi A mathematical method for housing assignment and selection. (Chinese. English and Chinese summaries)
Ishii, Hiroaki[1] (*with* Matutomi, Tatsuo) The asymmetric rectilinear distance location problem with barriers. (English summary) (*see* **93d:90005**)
— *see also* **Matsutomi, Tatsuo, (93d:90005)**
Kleinman, David L. *see* **Miao, Xiyi; et al., (93d:90003)**
Kusiak, Andrew *see* **Cheng, Chun Hung; et al., 93d:90029**
Laporte, Gilbert *see* **Eiselt, Horst A.; et al., 93b:90039** *and* **93m:90047**
Li, Jian Guo *see* **Tian, Qing Hui**
Liu, Wei *see* **Mori, Masao**
Louveaux, François V. (*with* Peeters, D.) A dual-based procedure for stochastic facility location. (English summary) **93g:90044**
Luh, Peter B. *see* **Miao, Xiyi; et al., (93d:90003)**
Magirou, Vangelis F. An improved partial solution to the task assignment and multiway cut problems. (English summary) **93f:90101**
Matsutomi, Tatsuo (*with* Ishii, Hiroaki[1]) A single facility location problem with fixed orientations. (English summary) (*see* **93d:90005**)
Matutomi, Tatsuo *see* **Ishii, Hiroaki[1], (93d:90005)**
Mazzola, Joseph B. (*with* Neebe, Alan W.) An algorithm for the bottleneck generalized assignment problem. (English summary) **93m:90048**
Miao, Xiyi (*with* Luh, Peter B.; Kleinman, David L.) Distributed hierarchical team resource allocation. (English summary) (*see* **93d:90003**)
Mori, Masao (*with* Liu, Wei) A location problem of an entering firm's facilities in a competitive environment. (English summary)
Neebe, Alan W. *see* **Mazzola, Joseph B., 93m:90048**
Orlin, James B. (*with* Ahuja, Ravindra K.) New scaling algorithms for the assignment and minimum mean cycle problems. **93b:90040**
Pandu Rangan, C. (*with* Govindan, Ramesh) An $O(n \log n)$ algorithm for a maxmin location problem. **93d:90030**
Peeters, D. *see* **Louveaux, François V., 93g:90044**
Rabinovitch, Ramon (*with* Tamir, Arie) On a tree-shaped facility location problem of Minieka. (English summary) **93g:90045**
Rao, J. R. *see* **Bhattacharya, U.; et al., 93g:90043**
Shallcross, David F. A polynomial algorithm for a one machine batching problem. (English summary) **93f:90102**
Sherali, Hanif D. (*with* Tuncbilek, Cihan H.) A squared-Euclidean distance location-allocation problem. **93a:90033**
Simchi-Levi, David *see* **Drezner, Zvi, 93m:90045**
Tadenuma, Koichi (*with* Thomson, William L.) The fair allocation of an indivisible good when monetary compensations are possible. (English summary)
Tam, Kar Yan A genetic algorithm approach to the facility layout problem. (English summary) (*see* **93d:90005**)
Tamir, Arie On the core of cost allocation games defined on location problems. (English summary) **93m:90049**
— *see also* **Rabinovitch, Ramon, 93g:90045**
Thomson, William L. *see* **Tadenuma, Koichi**
Tian, Qing Hui (*with* Li, Jian Guo) Unbalanced assignment problems. (Chinese. English and Chinese summaries)
Tiwari, R. N. *see* **Bhattacharya, U.; et al., 93g:90043**
Tuncbilek, Cihan H. *see* **Sherali, Hanif D., 93a:90033**
Volkmer, M. *see* **Bastian, Michael, 93f:90100**
Wirth, Andrew Order picking from a two-dimensional system. (English summary) **93f:90103**

Items with secondary classifications in 90B80

Abe, T. *see* **Tamura, H.; et al., (93g:93006)**
Armstrong, Ronald D. (*with* Jin, Zhiying) Solving linear bottleneck assignment problems via strong spanning trees. (English summary) **93f:90130**
Berman, Oded (*with* Ingco, Divinagracia I.; Odoni, Amedeo R.) Improving the location of minisum facilities through network modification. (English summary) **93m:90028**
Borm, P. E. M. *see* **van den Nouweland, A.; et al., 93a:90089**
Chang, Ruei Chuan *see* **Hwang, R. Z.; et al., 93k:68103**
Ching, Yu Tai *see* **Ko, M. T., 93m:90062**
(Drezner, Zvi) *see* **Locational decisions, 93k:90005**
Fleishman, S. B. Assignments with a given order of succession. (Russian) **93a:90041a**
— Errata: "Assignments with a given order of succession". (Russian) **93a:90041b**
Francis, Richard Lane (*with* Lowe, Timothy J.) On worst-case aggregation analysis for network location problems. (English summary) **93m:90030**
Hadley, S. W. (*with* Rendl, Franz; Wolkowicz, Henry) Symmetrization of nonsymmetric quadratic assignment problems and the Hoffman-Wielandt inequality. **93d:90050**
Huang, Hai Jun (*with* Lam, William H. K.) Modified Evans' algorithms for solving the combined trip distribution and assignment problem. (English summary)
Hwang, R. Z. (*with* Lee, R. C. T.; Chang, Ruei Chuan) The slab dividing approach to solve the Euclidean P-center problem. (English summary) **93k:68103**
Ingco, Divinagracia I. *see* **Berman, Oded; et al., 93m:90028**
Jackson, Peter L. *see* **Tunçel, Levent**
Jin, Zhiying *see* **Armstrong, Ronald D., 93f:90130**
Klein, Rachelle S. (*with* Luss, Hanan; Smith, Donald Robert) A lexicographic minimax algorithm for multiperiod resource allocation. **93c:90097**
Ko, M. T. (*with* Ching, Yu Tai) Linear time algorithms for the weighted tailored 2-partition problem and the weighted 2-center problem under l_∞-distance. (English summary) **93m:90062**
Lam, William H. K. *see* **Huang, Hai Jun**
Lee, R. C. T. *see* **Hwang, R. Z.; et al., 93k:68103**
Lowe, Timothy J. *see* **Francis, Richard Lane, 93m:90030**
Luss, Hanan *see* **Klein, Rachelle S.; et al., 93c:90097**
Majumder, Tarit Kumar Prop of a graph and its graph topological application in solving assignment problems. (English summary)
Murthy, Ishwar Solving the multiperiod assignment problem with start-up costs using dual ascent. (English summary) **93i:90082**
van den Nouweland, A. (*with* Borm, P. E. M.; Tijs, Stef H.) Allocation rules for hypergraph communication situations. **93a:90089**
Odoni, Amedeo R. *see* **Berman, Oded; et al., 93m:90028**
Pesamosca, Giancarlo On the optimality conditions for the Euclidean multifacility location problem. (English summary)
Rendl, Franz *see* **Hadley, S. W.; et al., 93d:90050**
Rispoli, Fred J. The monotonic diameter of the perfect matching and shortest path polytopes. (English summary) **93h:90066**
Sengoku, M. *see* **Tamura, H.; et al., (93g:93006)**
Shinoda, S. *see* **Tamura, H.; et al., (93g:93006)**
Smith, Donald Robert *see* **Klein, Rachelle S.; et al., 93c:90097**
Tamura, H. (*with* Yamaguchi, A.; Sengoku, M.; Shinoda, S.; Abe, T.) Location problems and their dual problems on undirected flow networks. (English summary) (*see* **93g:93006**)

Tijs, Stef H. *see* **van den Nouweland, A.; et al., 93a:90089**
Tunçel, Levent (*with* Jackson, Peter L.) On the convexity of a function related to the Wagner-Whitin model. (English summary)
Wolkowicz, Henry *see* **Hadley, S. W.; et al., 93d:90050**
Wu, Kwei Mei (*with* Yao, Ching Hsing) Optimum boundary points for double stratification. (English summary) **93j:62027**
Yamaguchi, A. *see* **Tamura, H.; et al., (93g:93006)**
Yao, Ching Hsing *see* **Wu, Kwei Mei, 93j:62027**
Zabudskiĭ, G. G. On an integer formulation of a problem on the arrangement of objects on a line. (Russian) **93d:90054**

Items listed otherwise than by author

Fullerton, CA ★ Locational decisions. **93k:90005**
Locational decisions ★ Locational decisions. **93k:90005**
Symposium:
Locational Decisions ★ Locational decisions. **93k:90005**

90B85 Continuous location

Brimberg, Jack (*with* Wesolowsky, George O.) Probabilistic l_p distances in location models. (English summary) **93m:90050**
Jefferson, Thomas R. *see* **Jorjani, Soheila; et al., 93k:90045**
Jorjani, Soheila (*with* Scott, Carlton H.; Jefferson, Thomas R.) Quality locations for the constrained minimax location model. (English summary) **93k:90045**
Peters, Hans (*with* van der Stel, H.; Storcken, Ton) Pareto optimality, anonymity, and strategy-proofness in location problems. (English summary) **93i:90058**
Plastria, Frank When facilities coincide: exact optimality conditions in multifacility location. (English summary) **93g:90046**
Scott, Carlton H. *see* **Jorjani, Soheila; et al., 93k:90045**
van der Stel, H. *see* **Peters, Hans; et al., 93i:90058**
Storcken, Ton *see* **Peters, Hans; et al., 93i:90058**
Wesolowsky, George O. *see* **Brimberg, Jack, 93m:90050**

Items with secondary classifications in 90B85

Casini, Emanuele (*with* Papini, Pier Luigi) Different metrics and location problems. **93a:41046**
(Drezner, Zvi) *see* **Locational decisions, 93k:90005**
Gretsky, Neil E. (*with* Ostroy, Joseph M.; Zame, William R.) The nonatomic assignment model. **93d:90021**
Ostroy, Joseph M. *see* **Gretsky, Neil E.; et al., 93d:90021**
Papini, Pier Luigi *see* **Casini, Emanuele, 93a:41046**
Zame, William R. *see* **Gretsky, Neil E.; et al., 93d:90021**

Items listed otherwise than by author

Fullerton, CA ★ Locational decisions. **93k:90005**
Locational decisions ★ Locational decisions. **93k:90005**
Symposium:
Locational Decisions ★ Locational decisions. **93k:90005**

90B90 Case-oriented studies

Items with secondary classifications in 90B90

Caulkins, Jonathan P. (*with* Padman, Rema) Interdiction's impact on the structure and behavior of the export-import sector for illicit drugs. (English summary)
Gargano, Luisa (*with* Körner, János; Vaccaro, Ugo) Search problems for two irregular coins with incomplete feedback: the underweight model. **93b:90036**
Körner, János *see* **Gargano, Luisa; et al., 93b:90036**
Padman, Rema *see* **Caulkins, Jonathan P.**
Vaccaro, Ugo *see* **Gargano, Luisa; et al., 93b:90036**

90B99 None of the above, but in this section

Items with secondary classifications in 90B99

Chakraborty, Tushar Kanti Stochastic parameter single sampling plans of given strength. (English summary) **93j:62240**
Flajolet, Philippe (*with* Gardy, Danièle; Thimonier, Loÿs) Birthday paradox, coupon collectors, caching algorithms and self-organizing search. (English summary) **93i:68107**
Gardy, Danièle *see* **Flajolet, Philippe; et al., 93i:68107**
Held, Martin ★ On the computational geometry of pocket machining. **93a:68151**
Özveren, Cüneyt M. (*with* Willsky, Alan S.) Tracking and restrictability in discrete event dynamic systems. (English summary) **93h:93038**
Thimonier, Loÿs *see* **Flajolet, Philippe; et al., 93i:68107**
Willsky, Alan S. *see* **Özveren, Cüneyt M., 93h:93038**

90Cxx Mathematical programming [see also 49Mxx, 65Kxx]

Items with secondary classifications in 90Cxx

(Bulatov, V. P.) *see* **Optimization: models, methods, solutions, 93k:90002**
(Fedrizzi, Mario) *see* **Combining fuzzy imprecision with probabilistic uncertainty in decision making, 93c:90002**
Gulrajani, Ramesh M. *see* **Iakovidis, Ilias**
Iakovidis, Ilias (*with* Gulrajani, Ramesh M.) Improving Tikhonov regularization with linearly constrained optimization: application to the inverse epicardial potential solution. (English summary)
(Kacprzyk, Janusz) *see* **Combining fuzzy imprecision with probabilistic uncertainty in decision making, 93c:90002**
(Pavlovskiĭ, Yu. N.) *see* **Decomposition and optimization in complex systems, 93c:49002**
(Phua, Paul Kang Hoh) *see* **Optimization, 93d:90005**
(Wang, C. M.) *see* **Optimization, 93d:90005**
(Yeong, W. Y.) *see* **Optimization, 93d:90005**

Items listed otherwise than by author

Combining fuzzy imprecision with probabilistic uncertainty in decision making ★ Combining fuzzy imprecision with probabilistic uncertainty in decision making. **93c:90002**
Conference:
Optimization Techniques and Applications ★ Optimization. Vol. 1, 2. **93d:90005**
Decomposition and optimization in complex systems ★ Декомпозиция и оптимизация в сложных системах. (Russian) [Decomposition and optimization in complex systems] **93c:49002**
Irkutsk ★ Оптимизация: модели, методы, решения. (Russian) [Optimization: models, methods, solutions] **93k:90002**
Lecture Notes in Economics and Mathematical Systems ★ Combining fuzzy imprecision with probabilistic uncertainty in decision making. **93c:90002**
Mathematical programming and its related fields ★ Keikaku sūgaku to sono kanren bunya. (Japanese) [Mathematical programming and its related fields] **93f:90005**
Optimization ★ Optimization. Vol. 1, 2. **93d:90005**
Optimization: models, methods, solutions ★ Оптимизация: модели, методы, решения. (Russian) [Optimization: models, methods, solutions] **93k:90002**
School:
Optimization Methods and their Applications ★ Оптимизация: модели, методы, решения. (Russian) [Optimization: models, methods, solutions] **93k:90002**
Singapore ★ Optimization. Vol. 1, 2. **93d:90005**
Symposium:
Mathematical Programming and its Related Fields ★ Keikaku sūgaku to sono kanren bunya. (Japanese) [Mathematical programming and its related fields] **93f:90005**

90C05 Linear programming

Abdèl'-Gilel', Mukhamed Akhmed A stable method for solving a two-stage problem of linear programming. (Russian. Tajiki summary) **93b:90041**
Abramov, A. P. Problems on the choice of plan-proportions. (Russian) **93h:90054**
Adler, Ilan (*with* Beling, Peter A.) Polynomial algorithms for LP over a subring of the algebraic integers with applications to LP with circulant matrices. (English summary) **93j:90048**
Andersen, J. A. *see* **Levkovitz, R.; et al., (93e:90003)**
Anstreicher, Kurt M. On monotonicity in the scaled potential algorithm for linear programming. **93a:90034**
— (*with* Bosch, Robert A.) Long steps in an $O(n^3L)$ algorithm for linear programming. **93f:90104**
— On interior algorithms for linear programming with no regularity assumptions. (English summary) **93f:90105**
— *see also* **Bosch, Robert A., 93k:90046**
Beling, Peter A. *see* **Adler, Ilan, 93j:90048**
Betke, Ulrich (*with* Henk, M.) Linear programming by minimizing distances. **93d:90031**
Birge, John R. (*with* Freund, Robert M.; Vanderbei, Robert J.) Prior reduced fill-in in solving equations in interior point algorithms. (English summary) **93e:90033**
Bixby, Robert E. Implementing the simplex method: the initial basis. (English summary)
Boender, C. G. E. (*with* Caron, R. J.; Rinnooy Kan, A. H. G.; et al.) Shake-and-bake algorithms for generating uniform points on the boundary of bounded polyhedra. **93f:90106**
Borzemski, Leszek File allocation in a distributed knowledge-based multistage decision making system. (English and Polish summaries)
Bosch, Robert A. (*with* Anstreicher, Kurt M.) On partial updating in a potential reduction linear programming algorithm of Kojima, Mizuno, and Yoshise. (English summary) **93k:90046**
— *see also* **Anstreicher, Kurt M., 93f:90104**
Cao, Hai Jun A general discussion on the cyclic problem for linear programming. (Chinese. Chinese summary)
Cardoso, Domingos M. (*with* Clímaco, João C. Namorado) The generalized simplex method. (English summary) **93i:90059**
Caron, R. J. *see* **Boender, C. G. E.; et al., 93f:90106**
Charnes, Abraham (*with* Rousseau, J. J.; Semple, John Hartley) Non-Archimedean infinitesimals, transcendentals and categorical inputs in linear programming and data envelopment analysis. (English summary)
Chazelle, Bernard (*with* Matoušek, Jiří) On linear-time deterministic algorithms for optimization problems in fixed dimension. (English summary) **93m:90051**
Chen, You Qin *see* **Xu, Shu Rong; et al., 93d:90038** *and* **Yao, Hong Bing; et al.**
Clímaco, João C. Namorado *see* **Cardoso, Domingos M., 93i:90059**
Crouzeix, Jean-Pierre (*with* Ferland, Jacques A.; Schaible, Siegfried) Generalized convexity on affine subspaces with an application to potential functions. (English summary) **93h:90055**
Dikin, I. I. Determination of an inner point of a system of linear inequalities. (Russian. English and Ukrainian summaries) **93j:90049**
Düsing, R. *see* **Meier, G., 93k:90048**
Eppstein, David Dynamic three-dimensional linear programming. (English summary) (*see* **93d:68005**)
— Dynamic three-dimensional linear programming. (English summary)
Fang, S. C. An unconstrained convex programming view of linear programming. **93e:90034**
— *see also* **Sheu, R.-L., 93f:90109** *and* **Rajasekera, J. R., 93k:90049**
Ferland, Jacques A. *see* **Crouzeix, Jean-Pierre; et al., 93h:90055**
Fourer, Robert (*with* Marsten, Roy E.) Solving piecewise-linear programs: experiments with a simplex approach. (English summary)
Fraley, Chris (*with* Vial, Jean-Philippe) Alternative approaches to feasibility in projective methods for linear programming. (English summary) **93i:90060**
Freund, Robert M. A potential-function reduction algorithm for solving a linear program directly from an infeasible "warm start". **93a:90035**

— *see also* **Birge, John R.; et al., 93e:90033**
Gao, Zi You *see* **Lu, Xin Ming; et al., 93j:90053**
Girko, V. L. (*with* Smirnova, V. V.) An empirical method for solving problems of linear programming. (Russian)
Goldberg, Andrew V. (*with* Plotkin, Serge A.; Shmoys, David B.; Tardos, Éva) Using interior-point methods for fast parallel algorithms for bipartite matching and related problems. **93d:90036**
Gong, Da Ping (*with* Xu, Shu Rong) An interior point algorithm for solving linear programming problems with hybrid constraints. (Chinese. English and Chinese summaries)
Gonzaga, Clovis C. Path-following methods for linear programming. **93j:90050**
Güler, Osman Augmented Lagrangian algorithms for linear programming. (English summary) **93i:90061**
Hartvigsen, David Recognizing Voronoĭ diagrams with linear programming. (English summary) **93h:90056**
He, Bing Sheng Some numerical experiments with a saddle point algorithm for linear programming. (Chinese. English summary) **93j:90051**
Henk, M. *see* **Betke, Ulrich, 93d:90031**
den Hertog, D. (*with* Roos, C.; Terlaky, Tamás) A build-up variant of the logarithmic barrier method for LP. (English summary) **93f:90107**
— (*with* Roos, C.; Vial, Jean-Philippe) A complexity reduction for the long-step path-following algorithm for linear programming. **93d:90032**
Ho, James K. (*with* Sundarraj, R. P.) A timing model for the revised simplex method. (English summary)
Ho, Tien Kung A revised simplex algorithm for LP problem with bounded variables. **93c:90040**
Huang, Ming Geng Several problems concerning the Fourier-Motzkin method for solving linear programming problems. (Chinese. English summary)
Huang, Si Ming (*with* Kortanek, K. O.) A note of a potential reduction algorithm for LP with simultaneous primal-dual updating. **93a:90036**
— *see also* **Zhu, Ji Shan, 93e:90038**
Huang, Zhen Sheng *see* **Wang, Hsiao Fan, 93k:90051**
Hurd, James K. (*with* Murphy, Frederic H.) Exploiting special structure in primal dual interior point methods. (English summary) **93h:90057**
Iri, Masao Integrability of vector and multivector fields associated with interior point methods for linear programming. **93a:90037**
Kalaba, Robert *see* **Moore, James E., II; et al., 93g:90048**
Kalantari, Bahman *see* **Khachiyan, L. G., 93h:90058**
Karmarkar, Narendra Interior-point methods in optimization. (*see* **93b:00026**)
Käschel, Joachim A note to the paper: "An efficient algorithm for linear programming" [Proc. Indian Acad. Sci. Math. Sci. **100** (1990), no. 3, 295–301; MR 91k:90103] by V. Ch. Venkaiah. (English summary) **93j:90052**
Khachiyan, L. G. (*with* Kalantari, Bahman) Diagonal matrix scaling and linear programming. (English summary) **93h:90058**
Kim, Moon-Hyun *see* **Moore, James E., II; et al., 93g:90048**
Kortanek, K. O. *see* **Huang, Si Ming, 93a:90036**
Kovačević-Vujčić, Vera V. Improving the rate of convergence of interior point methods for linear programming. **93e:90035**
Kudin, V. I. A relaxation scheme for solving a linear programming problem on the basis of the simplex-method and sequential analysis. (Russian. Russian summary)
Levkovitz, R. (*with* Andersen, J. A.; Mitra, Gautam) The interior point method for LP on parallel computers. (English summary) (*see* **93e:90003**)
Li, Shou Fan *see* **Niu, Tie Jun; et al., (93a:41001)**
Liang, Yan Chun *see* **Niu, Tie Jun; et al., (93a:41001)**
Lu, Xin Ming (*with* Gao, Zi You; Zhao, Mao Xian) Some effective algorithms for linear programming. (Chinese. English summary) **93j:90053**
Lukatskii, A. M. (*with* Shapot, D. V.) Estimation of the sensitivity of the optimal solution of a linear programming problem to variations of the matrix coefficients. (Russian. English and Ukrainian summaries)
Luo, Zhi-Quan *see* **Tseng, Paul, 93i:90064**
Lustig, Irvin J. (*with* Marsten, Roy E.; Shanno, David F.) On implementing Mehrotra's predictor-corrector interior-point method for linear programming. **93h:90059**
Mahony, R. E. (*with* Moore, John Barratt) Recursive interior-point linear programming algorithm based on Lie-Brockett flows. (English summary) **93f:90108**
Marsten, Roy E. *see* **Lustig, Irvin J.; et al., 93h:90059** *and* **Fourer, Robert**
Mashchenko, S. O. *see* **Voloshin, A. F.**
Matoušek, Jiří *see* **Chazelle, Bernard, 93m:90051**
Megiddo, Nimrod On finding primal- and dual-optimal bases. (English summary) **93d:90033**
— A note on approximate linear programming. **93b:90042**
Mehrotra, Sanjay Deferred rank one updates in $O(n^3L)$ interior point algorithm. (English summary) **93k:90047**
— On the implementation of a primal-dual interior point method. (English summary) **93g:90047**
Meier, G. (*with* Düsing, R.) Zur Modellierung logischer Aussagen ergänzend zu linearen Programmen. Grundlagen und Entwurfsüberlegungen für einen Modellgenerator. (English and German summaries) [On the modelling of logical predicates supplementary to linear programs. Foundations and design ideas for a model generator] **93k:90048**
Mitra, Gautam *see* **Levkovitz, R.; et al., (93e:90003)**
Mizuno, Shinji (*with* Nagasawa, Atsushi) Strict monotonicity in Todd's low-complexity algorithm for linear programming. (English summary) **93h:90060**
Monteiro, Renato D. C. On the continuous trajectories for a potential reduction algorithm for linear programming. **93b:90043**
Moore, James E., II (*with* Kim, Moon-Hyun; Seo, Jong-Gook; Wu, Ying; Kalaba, Robert) Linear programming, recurrent associative memories, and feed-forward neural networks. **93g:90048**
Moore, John Barratt *see* **Mahony, R. E., 93f:90108**
Murphy, Frederic H. *see* **Hurd, James K., 93h:90057**
Nagasawa, Atsushi *see* **Mizuno, Shinji, 93h:90060**
Niu, Tie Jun (*with* Li, Shou Fan; Wang, Zai Shen; Liang, Yan Chun) Half flexible simplex method and applications in engineering. (*see* **93a:41001**)
Östermark, Ralf Solving a linear multiperiod portfolio problem by interior-point methodology. (English summary) **93h:90061**
Plotkin, Serge A. *see* **Goldberg, Andrew V.; et al., 93d:90036**
Powell, M. J. D. The complexity of Karmarkar's algorithm for linear programming. (English summary) **93i:90062**
Rajasekera, J. R. (*with* Fang, S. C.) Deriving an unconstrained convex program for linear programming. (English summary) **93k:90049**
Renegar, James (*with* Shub, Michael) Unified complexity analysis for Newton LP methods. **93a:90038**
Rinnooy Kan, A. H. G. *see* **Boender, C. G. E.; et al., 93f:90106**
Roos, C. A projective variant of the approximate center method for the dual linear programming problem. (English summary) **93i:90063**
— (*with* Vial, Jean-Philippe) A polynomial method of approximate centers for linear programming. **93e:90036**
— *see also* **den Hertog, D.; et al., 93d:90032** *and* **93f:90107**
Roubens, Marc (*with* Teghem, Jacques, Jr.) Comparison of methodologies for multicriteria feasibility—constrained fuzzy and multiple-objective stochastic linear programming. (*see* **93c:90002**)
Rousseau, J. J. *see* **Charnes, Abraham; et al.**
Sankaran, Jayaram K. A note on resolving infeasibility in linear programs by constraint relaxation. (English summary) **93k:90050**
Schaible, Siegfried *see* **Crouzeix, Jean-Pierre; et al., 93h:90055**
Schneider, Walter Numeric-stability by all-integer simplexiterations. (English summary) (*see* **93e:90003**)
Semple, John Hartley *see* **Charnes, Abraham; et al.**
Seo, Jong-Gook *see* **Moore, James E., II; et al., 93g:90048**
Setiono, Rudy Interior proximal point algorithm for linear programs. (English summary) **93h:90062**
Shanno, David F. *see* **Lustig, Irvin J.; et al., 93h:90059**
Shapot, D. V. *see* **Lukatskii, A. M.**
Sheng, Zhao Han *see* **Wu, Guang Mou**
Sheu, R.-L. (*with* Fang, S. C.) Insights into the interior-point methods. **93f:90109**
Shi, Yong (*with* Zhang, Dazhi) Flexible contingency plans in optimal linear designs. (English summary)
Shmoys, David B. *see* **Goldberg, Andrew V.; et al., 93d:90036**
Shub, Michael *see* **Renegar, James, 93a:90038**
Shvartin, S. M. ★ Об общей устойчивости канонических задач линейного программирования. (Russian) [On the general stability of canonical problems of linear programming] **93c:90041**
Smirnova, V. V. *see* **Girko, V. L.**
Sonnevend, G. (*with* Stoer, Josef; Zhao, Gong Yun) On the complexity of following the central path of linear programs by linear extrapolation. II. **93b:90044**
Stoer, Josef On interior point methods for solving linear programs and their complexity. (*see* **93g:93003**)
— *see also* **Sonnevend, G.; et al., 93b:90044** *and* **Zhao, Gong Yun, 93h:90064**
Sundarraj, R. P. *see* **Ho, James K.**
Tao, Hui Min (*with* Zhu, Ji Shan) A robust decomposition of linear programming using a goal partitioning method. (English summary) **93f:90110**
Tapia, Richard A. *see* **Zhang, Yin[1], 93d:90039** *and* **93j:90057**
Tardos, Éva *see* **Goldberg, Andrew V.; et al., 93d:90036**
Teghem, Jacques, Jr. *see* **Roubens, Marc, (93c:90002)**
Terlaky, Tamás *see* **den Hertog, D.; et al., 93f:90107**
Todd, Michael J. On Anstreicher's combined phase I–phase II projective algorithm for linear programming. **93d:90034**
— (*with* Vial, Jean-Philippe) Todd's low-complexity algorithm is a predictor-corrector path-following method. (English summary) **93g:90049**
— A low complexity interior-point algorithm for linear programming. **93c:90042**
— (*with* Wang, Yu Fei) On combined phase 1–phase 2 projective methods for linear programming. (English summary) **93j:90054**
Tone, Kaoru Remarks on potential versus barrier function methods for linear programming. **93a:90039**
Tseng, Paul (*with* Luo, Zhi-Quan) On the convergence of the affine-scaling algorithm. (English summary) **93i:90064**
Tsuchiya, Takashi Global convergence of the affine scaling methods for degenerate linear programming problems. **93d:90035**
— Global convergence property of the affine scaling methods for primal degenerate linear programming problems. (English summary) **93j:90055**
Vanderbei, Robert J. *see* **Birge, John R.; et al., 93e:90033**
Vannelli, Anthony A parallel implementation of an interior point method for linear programming. (English summary) (*see* **93g:65178**)
(Venkaiah, V. Ch.) *see* **Käschel, Joachim, 93j:90052**
Vial, Jean-Philippe A projective algorithm for linear programming with no regularity condition. (English summary) **93g:90050**
— *see also* **den Hertog, D.; et al., 93d:90032**; **Roos, C., 93e:90036**; **Todd, Michael J., 93g:90049** *and* **Fraley, Chris, 93i:90060**
Voloshin, A. F. (*with* Mashchenko, S. O.) A nonbasis algorithm for sequential analysis in a linear programming problem. (Russian. Russian summary)
Wang, Hsiao Fan (*with* Huang, Zhen Sheng) The maximal tolerance analysis of the constraint matrix in linear programming. (English and Chinese summaries) **93k:90051**
Wang, Yu Fei *see* **Todd, Michael J., 93j:90054**
Wang, Zai Shen *see* **Niu, Tie Jun; et al., (93a:41001)**
Wei, Zi Luan Recent developments of interior algorithms for linear programming. (Chinese English summary)
Wierzchoń, S. T. Randomness and fuzziness in a linear programming problem. (*see* **93c:90002**)
Wright, Margaret H. Interior methods for constrained optimization. **93d:90037**
Wu, Fang *see* **Wu, Shi Quan[1], 93e:90037**
Wu, Guang Mou (*with* Sheng, Zhao Han) The relation between effectiveness of data envelopment analysis and index speciality. (Chinese. English summary)
Wu, Shi Quan[1] (*with* Wu, Fang) New algorithms for linear programming. **93e:90037**

Wu, Ying *see* **Moore, James E., II; et al., 93g:90048**
Xu, Cheng Xian Efficient and stable algorithms for the revised simplex method. (Chinese. English and Chinese summaries)
Xu, Shu Rong (*with* Yao, Hong Bing; Chen, You Qin) An improved Karmarkar algorithm for linear programming and its numerical test. (Chinese. English summary) **93d:90038**
— *see also* **Yao, Hong Bing; et al.** *and* **Gong, Da Ping**
Yao, Hong Bing (*with* Chen, You Qin; Xu, Shu Rong) An algorithm for nonnegative solutions to compatible equations in linear programming problems. (Chinese. English and Chinese summaries)
— *see also* **Xu, Shu Rong; et al., 93d:90038**
Ye, Yinyu Extensions of the potential reduction algorithm for linear programming. **93b:90045**
— On the finite convergence of interior-point algorithms for linear programming. (English summary) **93j:90056**
— A potential reduction algorithm allowing column generation. **93a:90040**
Zhang, Dazhi *see* **Shi, Yong**
Zhang, Xiang Sun Research on stability of solutions to parametric linear programming problems. (Chinese. English and Chinese summaries)
Zhang, Yin[1] (*with* Tapia, Richard A.) Superlinear and quadratic convergence of primal-dual interior-point methods for linear programming revisited. **93d:90039**
— (*with* Tapia, Richard A.) A superlinearly convergent polynomial primal-dual interior-point algorithm for linear programming. (English summary) **93j:90057**
Zhao, Feng Zhi A parallel characteristics analysis of linear programming algorithms. (Chinese. English summary) **93h:90063**
Zhao, Gong Yun (*with* Stoer, Josef) Estimating the complexity of a class of path-following methods for solving linear programs by curvature integrals. (English summary) **93h:90064**
— *see also* **Sonnevend, G.; et al., 93b:90044**
Zhao, Mao Xian *see* **Lu, Xin Ming; et al., 93j:90053**
Zhu, Ji Shan (*with* Huang, Si Ming) On the convergence rate of the duality gap in a symmetric primal-dual potential reduction algorithm. (English summary) **93e:90038**
— *see also* **Tao, Hui Min, 93f:90110**
Zhu, Ming Quan A new simplex method. (English summary) **93j:90058**

Items with secondary classifications in 90C05

Achtziger, W. (*with* Bendsøe, M.; Ben-Tal, A.; Zowe, Jochem) Equivalent displacement based formulations for maximum strength truss topology design. (English summary) **93j:73057**
Adler, Ilan (*with* Monteiro, Renato D. C.) A geometric view of parametric linear programming. **93e:90061**
Agarwal, Pankaj K. (*with* Sharir, Micha; Toledo, Sivan) Applications of parametric searching in geometric optimization. **93d:68063**
Allwright, J. C. (*with* Papavasiliou, G. C.) On linear programming and robust model-predictive control using impulse-responses. **93a:93054**
Amenta, Nina Finding a line transversal of axial objects in three dimensions. **93d:68065**
Anderson, Edward J. (*with* Aramendia, Miguel) A linear programming approach to the search game on a network with mobile hider. **93b:90123**
Antunes, Carlos Henggeler (*with* Clímaco, João C. Namorado) Sensitivity analysis in MCDM using the weight space. (English summary) **93f:90140**
Aramendia, Miguel *see* **Anderson, Edward J., 93b:90123**
Armand, Paul Comportement combinatoire des polyèdres perturbés en programmation linéaire. (English and French summaries) [Combinatorial behavior of perturbed polyhedra in linear programming] **93e:52023**
Astaf'ev, N. N. ★ Бесконечные системы линейных неравенств в математическом программировании. (Russian) [Infinite systems of linear inequalities in mathematical programming] **93b:90002**
Balas, Egon (*with* Fischetti, Matteo) The fixed-outdegree 1-arborescence polytope. (English summary) **93m:90088**
Barnes, E. R. (*with* Hoffman, A. J.; Rothblum, Uriel G.) Optimal partitions having disjoint convex and conic hulls. **93d:05014**
Bendsøe, M. *see* **Achtziger, W.; et al., 93j:73057**
Ben-Tal, A. *see* **Achtziger, W.; et al., 93j:73057**
Boyd, E. Andrew A pseudopolynomial network flow formulation for exact knapsack separation. **93h:90099**
(Bulatov, V. P.) *see* **Optimization: models, methods, solutions, 93k:90002**
Choi, Gyunghyun *see* **Sherali, Hanif D., 93k:90068**
Clímaco, João C. Namorado *see* **Antunes, Carlos Henggeler, 93f:90140**
Coleman, Thomas F. (*with* Li, Yuying) A globally and quadratically convergent affine scaling method for linear l_1 problems. (English summary) **93g:65073**
Crouzeix, Jean-Pierre (*with* Kebbour, R.) Index multiplicatifs de convexité/concavité et applications. (English and French summaries) [Multiplicative convexity/concavity indices and applications] **93k:90070**
Cui, Jin Chuan (*with* Liu, De Gang; Zhang, Xiang Sun) Improvements on the sensitivity analysis of parametric linear programming. (Chinese) **93g:90071**
Dahleh, Munther A. (*with* Khammash, Mustafa H.) Controller design for plants with structured uncertainty. (English summary) **93j:93040**
Dauer, J. P. (*with* Saleh, Ossama A.) A representation of the set of feasible objectives in multiple objective linear programs. **93a:90056**
Deif, A. S. *see* **Seif, N. P.; et al., 93a:65055**
Dennis, John E., Jr. *see* **Zhang, Yin[1]; et al., 93a:65084**
Dutta, D. (*with* Rao, J. R.; Tiwari, R. N.) Sensitivity analysis in fuzzy linear fractional programming problem. (English summary)
Erëmin, I. I. Symmetric duality for lexicographic problems of linear programming. (Russian. Russian and Ukrainian summaries) **93k:90077**
Esparza, Javier A solution to the covering problem for 1-bounded conflict-free Petri nets using linear programming. **93g:68100**
Fischetti, Matteo *see* **Balas, Egon, 93m:90088**
Gong, Lin Guo Chance-constrained linear programming with location scale distributions. (English summary) **93j:90061**
Gretsky, Neil E. (*with* Ostroy, Joseph M.; Zame, William R.) The nonatomic assignment model. **93d:90021**
Han, Chi-Geun *see* **Pardalos, Panos M.; et al., (93k:90002)**
Hashem, S. *see* **Seif, N. P.; et al., 93a:65055**
den Hertog, D. (*with* Roos, C.) A survey of search directions in interior point methods for linear programming. **93f:90002**
Hoffman, A. J. *see* **Barnes, E. R.; et al., 93d:05014**
Hürlimann, T. LPL: a mathematical programming language. (English and German summaries) **93k:90009**
Hwang, Ching Lai *see* **Lai, Young-Jou, 93h:90104**
Ishii, Hiroaki[1] *see* **Morita, Hiroshi, 93k:90062**
Jeroslow, Robert G. (*with* Martin, Kipp; Rardin, Ronald L.; Wang, Jinchang) Gainfree Leontief substitution flow problems. (English summary) **93m:90091**
Kebbour, R. *see* **Crouzeix, Jean-Pierre, 93k:90070**
Khammash, Mustafa H. *see* **Dahleh, Munther A., 93j:93040**
Kotkin, G. G. *see* **Voloshinov, V. V., 93f:90166**
Kovács, Margit Linear programming with centered fuzzy numbers. **93b:90111**
Kryachok, N. N. An algorithm for the sequential analysis of variants for a linear multicriterial problem of large dimension. (Russian. Russian summary)
Lai, Young-Jou (*with* Hwang, Ching Lai) Interactive fuzzy linear programming. **93h:90104**
Lessard, E. *see* **Loulou, Richard; et al., (93c:90003)**
Li, Wu Best approximation in polyhedral spaces and linear programs. (*see* **93b:41001**)
Li, Yuying *see* **Coleman, Thomas F., 93g:65073**
Liu, De Gang *see* **Cui, Jin Chuan; et al., 93g:90071**
Loulou, Richard (*with* Savard, Gilles; Lessard, E.) Computation of cooperative and Stackelberg solutions when players are described by linear programs. (*see* **93c:90003**)
Luenberger, David G. A double look at duality. (English summary) **93k:49033**
Lupşa, Liana On the relationship between efficient points and d-bases. (*see* **93m:26001**)
Ma, Zhong Fan Interior point algorithms for linear programming. (Chinese. English summary)
Madsen, Kaj (*with* Nielsen, Hans Bruun) A finite smoothing algorithm for linear l_1 estimation. (English summary)
Martin, Kipp *see* **Jeroslow, Robert G.; et al., 93m:90091**
Mitchell, John E. (*with* Todd, Michael J.) Solving combinatorial optimization problems using Karmarkar's algorithm. (English summary) **93i:90081**
Monteiro, Renato D. C. *see* **Adler, Ilan, 93e:90061**
Morita, Hiroshi (*with* Ishii, Hiroaki[1]) A stochastic improvement method for stochastic programming. (English summary) **93k:90062**
Mulvey, John M. (*with* Ruszczyński, Andrzej) A diagonal quadratic approximation method for large-scale linear programs. (English summary) **93f:90111**
Nielsen, Hans Bruun *see* **Madsen, Kaj**
Norton, Carolyn Haibt (*with* Plotkin, Serge A.; Tardos, Éva) Using separation algorithms in fixed dimension. **93b:90109**
Ostroy, Joseph M. *see* **Gretsky, Neil E.; et al., 93d:90021**
Papavasiliou, G. C. *see* **Allwright, J. C., 93a:93054**
Pardalos, Panos M. (*with* Ye, Yinyu; Han, Chi-Geun) Interior point algorithms in quadratic programming. (Russian) (*see* **93k:90002**)
Plotkin, Serge A. *see* **Norton, Carolyn Haibt; et al., 93b:90109**
Poh, K. L. *see* **Quaddus, M. A., (93d:90005)**
Powell, M. J. D. Interior point methods for semi-infinite programming calculations. (*see* **93d:90005**)
Quaddus, M. A. (*with* Poh, K. L.) A comparative evaluation of multiple objective linear programming methods. (English summary) (*see* **93d:90005**)
Rachev, Svetlozar T. Mass transhipment problems and ideal metrics. **93b:60030**
Ragsdale, Cliff T. Deriving conclusions in expert systems when knowledge is incomplete. (English summary) **93j:68197**
Rao, J. R. *see* **Dutta, D.; et al.**
Rardin, Ronald L. *see* **Jeroslow, Robert G.; et al., 93m:90091**
Roos, C. *see* **den Hertog, D., 93f:90002**
Rothblum, Uriel G. (*with* Schneider, Hans; Schneider, Michael H.) Characterizations of max-balanced flows. (English summary) **93i:90103**
— *see also* **Barnes, E. R.; et al., 93d:05014**
Ruszczyński, Andrzej *see* **Mulvey, John M., 93f:90111**
Safronov, I. A. ★ Метод коррекции исходных данных к задаче линейного программирования специального вида. (Russian. Russian summary) [A method for correcting the initial data to a linear programming problem of special type] **93f:90117**
Saleh, Ossama A. *see* **Dauer, J. P., 93a:90056**
Savard, Gilles *see* **Loulou, Richard; et al., (93c:90003)**
Schneider, Hans *see* **Rothblum, Uriel G.; et al., 93i:90103**
Schneider, Michael H. *see* **Rothblum, Uriel G.; et al., 93i:90103**
Seif, N. P. (*with* Hashem, S.; Deif, A. S.) Bounding the eigenvectors for symmetric interval matrices. **93a:65055**
Sharir, Micha *see* **Agarwal, Pankaj K.; et al., 93d:68063**
Sherali, Hanif D. (*with* Tuncbilek, Cihan H.) A squared-Euclidean distance location-allocation problem. **93a:90033**
— (*with* Choi, Gyunghyun) Finding the closest point to the origin in the convex hull of a discrete set of points. (English summary) **93k:90068**
Shmelëv, V. V. Exact penalty functions in linear and integer linear programming. (Russian. Russian summary) **93g:90055**
Silcock, J. P. Phase-based optimisation of isolated signal-controlled junctions: sensitivity analysis and a treatment of double green phases. (English summary) **93h:90039**
Sonnevend, G. Application of analytic centers to feedback design for systems with uncertainties. (English summary) **93i:93057**
Tapia, Richard A. *see* **Zhang, Yin[1]; et al., 93a:65084**
Tardos, Éva *see* **Norton, Carolyn Haibt; et al., 93b:90109**
Tiwari, R. N. *see* **Dutta, D.; et al.**
Todd, Michael J. *see* **Mitchell, John E., 93i:90081**
Toledo, Sivan *see* **Agarwal, Pankaj K.; et al., 93d:68063**
Tuncbilek, Cihan H. *see* **Sherali, Hanif D., 93a:90033**
Tuniev, A. D. The directional vector method and its applications. (Russian. English and Ukrainian summaries) **93j:65046**

Voloshinov, V. V. (*with* Kotkin, G. G.) ★ Параметрические свойства обратных задач оптимизации. (Russian. Russian summary) [Parametric properties of inverse problems of optimization] **93f:90166**
Wang, Jinchang *see* **Jeroslow, Robert G.; et al., 93m:90091**
Wei, Zi Luan (*with* Wu, Li) A method for computing a feasible solution for systems of linear inequalities. (Chinese. English summary) **93c:65082**
White, Douglas John A linear programming approach to solving bilinear programmes. (English summary) **93f:90162**
Wu, Li *see* **Wei, Zi Luan, 93c:65082**
Yazenin, A. V. Linear programming with random fuzzy data. (Russian) **93h:90107**
Ye, Yinyu *see* **Pardalos, Panos M.; et al., (93k:90002)**
Zame, William R. *see* **Gretsky, Neil E.; et al., 93d:90021**
Zhang, Xiang Sun *see* **Cui, Jin Chuan; et al., 93g:90071**
Zhang, Yin[1] (*with* Tapia, Richard A.; Dennis, John E., Jr.) On the superlinear and quadratic convergence of primal-dual interior point linear programming algorithms. **93a:65084**
Zhou, Lin A simple proof of the Shapley-Folkman theorem.
Zowe, Jochem *see* **Achtziger, W.; et al., 93j:73057**

Items listed otherwise than by author

Irkutsk ★ Оптимизация: модели, методы, решения. (Russian) [Optimization: models, methods, solutions] **93k:90002**
Optimization: models, methods, solutions ★ Оптимизация: модели, методы, решения. (Russian) [Optimization: models, methods, solutions] **93k:90002**
School:
Optimization Methods and their Applications ★ Оптимизация: модели, методы, решения. (Russian) [Optimization: models, methods, solutions] **93k:90002**

90C06 Large-scale problems

Bixby, Robert E. (*with* Gregory, John W.; Lustig, Irvin J.; Marsten, Roy E.; Shanno, David F.) Very large-scale linear programming: a case study in combining interior point and simplex methods. (English summary)
Chen, Kai Zhou *see* **Jiao, Yong Chang, (93a:41001)**
Eiselt, Horst A. (*with* Sandblom, C.-L.) A computational study of redundancy in randomly generated polytopes. (English and German summaries) **93k:90052**
Emelichev, V. A. (*with* Kravtsov, M. K.; Krachkovskii, A. P.) Multi-index planar transportation polytopes with a maximum number of vertices. (Russian) **93j:90059**
Eydeland, Alexander *see* **Nagurney, Anna, 93f:90112**
Gregory, John W. *see* **Bixby, Robert E.; et al.**
Jiao, Yong Chang (*with* Chen, Kai Zhou) A new method for large scale sparse linear programming. (*see* **93a:41001**)
Krachkovskii, A. P. *see* **Emelichev, V. A.; et al., 93j:90059**
Kravtsov, M. K. *see* **Emelichev, V. A.; et al., 93j:90059**
Krivonozhko, V. E. Equivalence of solution trajectories in methods of decomposition and block factorization. (Russian. Russian summary) **93g:90051**
Lustig, Irvin J. *see* **Bixby, Robert E.; et al.**
Marsten, Roy E. *see* **Bixby, Robert E.; et al.**
Mulvey, John M. (*with* Ruszczyński, Andrzej) A diagonal quadratic approximation method for large-scale linear programs. (English summary) **93f:90111**
Nagurney, Anna (*with* Eydeland, Alexander) A splitting equilibration algorithm for the computation of large-scale constrained matrix problems: theoretical analysis and applications. (English summary) **93f:90112**
Ruszczyński, Andrzej *see* **Mulvey, John M., 93f:90111**
Sandblom, C.-L. *see* **Eiselt, Horst A., 93k:90052**
Shanno, David F. *see* **Bixby, Robert E.; et al.**
Tseng, Paul Relaxation method for large-scale linear programming using decomposition. **93f:90113**
Vinarskii, V. Ya. Optimization of the orthogonal hull of polyhedral sets. (Russian) **93f:90114**
Zhao, Feng Zhi Some techniques for solving large scale linear programming problems. (Chinese. English summary)

Items with secondary classifications in 90C06

Averbakh, I. L. A multilevel decomposition scheme in block mixed-integer programming. (Russian) **93a:90046**
Chen, Guang Jun *see* **Xiu, Nai Hua, 93m:65041**
Cheng, Jun Mo Optimal transitive matrices of antisymmetric matrices in the sense of well-distributed optimization. (Chinese. English and Chinese summaries)
Gregory, David A. (*with* Kirkland, Stephen; Pullman, Norman J.) Row-stochastic matrices with a common left fixed vector. **93d:15034**
Ichim, Ion Une généralisation de la méthode du gradient avec le reste minimum. [A generalization of the gradient method with minimum remainder] **93e:65043**
Kirkland, Stephen *see* **Gregory, David A.; et al., 93d:15034**
Pinar, Mustafa Ç. *see* **Zenios, Stavros A., 93f:90177**
Pullman, Norman J. *see* **Gregory, David A.; et al., 93d:15034**
Saad, Omar Mohamed An algorithm for solving the integer linear fractional programs. (English summary)
Tao, Hui Min (*with* Zhu, Ji Shan) A robust decomposition of linear programming using a goal partitioning method. (English summary) **93f:90110**
Xiu, Nai Hua (*with* Chen, Guang Jun) Optimality of updating matrices of Abaffy-Broyden-Spedicato algorithms. (Chinese. English and Chinese summaries) **93m:65041**
Zenios, Stavros A. (*with* Pinar, Mustafa Ç.) Parallel block-partitioning of truncated Newton for nonlinear network optimization. (English summary) **93f:90177**
Zhu, Ji Shan *see* **Tao, Hui Min, 93f:90110**

90C08 Special problems of linear programming (transportation, multi-index, etc.)

Adler, Ilan (*with* Beling, Peter A.) Polynomial algorithms for LP over a subring of the algebraic integers with applications to LP with circulant matrices. (English summary) **93i:90065**
Beling, Peter A. *see* **Adler, Ilan, 93i:90065**
Ben-Ayed, Omar Bilevel linear programming. (English summary) **93m:90052**
Cameron, Kathie (*with* Edmonds, Jack) Coflow polyhedra. **93d:90040**
Chakrabarty, N. R. (*with* Chaudhuri, P. K.) Geometrical solution to some planar constrained minimax problems involving the weighted rectilinear metric. (English summary)
Chaudhuri, P. K. *see* **Chakrabarty, N. R.**
Chen, Bo *see* **Liu, Zi Cheng; et al.**
Cheng, M. C. A new dual simplex algorithm for transportation problem. (English summary) **93h:90065**
Cochand, M. (*with* Gaillard, A.; Gröflin, H.) Lattice matrices, intersection of ring families and dicuts. (English summary) **93j:90060**
Dangalchev, C. A. Partially-linear problems obtained by getting maximum of functions.
Deutsch, Stuart J. *see* **Patel, Minnie H.; et al., 93k:90053**
Du, Ding Zhu *see* **Liu, Zi Cheng; et al.**
Dyubko, A. G. *see* **Yakovlev, S. V., 93c:90043**
Edmonds, Jack *see* **Cameron, Kathie, 93d:90040**
Fleĭshman, S. B. Assignments with a given order of succession. (Russian) **93a:90041a**
— Errata: "Assignments with a given order of succession". (Russian) **93a:90041b**
Gaillard, A. *see* **Cochand, M.; et al., 93j:90060**
Gal, Tomas (*with* Geue, Ferdinand) A new pivoting rule for solving various degeneracy problems. **93b:90046**
Geue, Ferdinand *see* **Gal, Tomas, 93b:90046**
Gong, Lin Guo Chance-constrained linear programming with location scale distributions. (English summary) **93j:90061**
Gröflin, H. *see* **Cochand, M.; et al., 93j:90060**
Gupta, Anju (*with* Khanna, Saroj; Puri, M. C.) Paradoxical situations in transportation problems. (English summary) **93m:90053**
Hu, Xiao Dong *see* **Liu, Zi Cheng; et al.**
Hu, Ying Ping General possibilistic multi-objective linear programming and its application. (Chinese. English summary) **93e:90039**
Huang, Guohe (*with* Moore, R. Dan) Grey linear programming, its solving approach, and its application. (English summary)
Inuiguchi, Masahiro (*with* Murata, Shinichi; Sakawa, Masatoshi) Optimizing the worst achievement rate in linear programming problems with an interval objective function. (Japanese. English summary)
Kabe, D. G. On solving quadratically constrained linear programs. (English summary) **93g:90052**
Kaltinska, Rumena Methods for the approximate solution of linear transportation problems. (Bulgarian. English and Russian summaries)
Khanna, Saroj *see* **Gupta, Anju; et al., 93m:90053**
Khersonskaya, L. V. A problem on the allocation of resources on transportation networks with two types of indeterminate factors. (Russian)
Kolpakov, A. G. On the solution of a problem on convex combinations. (Russian. Russian summary) **93f:90115**
Kopfer, Herbert Konzepte genetischer Algorithmen und ihre Anwendung auf das Frachtoptimierungsproblem im gewerblichen Güterfernverkehr. (English and German summaries) [Concepts of genetic algorithms and their application to the problem of freight minimization in commercial road transportation]
Kovanic, Pavel Smart matrices. (English summary) (*see* **93f:93005**)
Liu, Zi Cheng (*with* Hu, Xiao Dong; Du, Ding Zhu; Chen, Bo) A note on Rosen's algorithm. (Chinese. English summary)
Lu, Xin Ming An unconstrained optimization method for solving large-scale linear programming problems. (Chinese. English and Chinese summaries)
Luo, Zong Jun A piecewise linear programming problem and its algorithm. (Chinese. English summary) **93f:90116**
Mirzoakhmedov, F. (*with* Mosheev, L. I.) Deterministic and stochastic approximating problems with applications to the control of production. (Russian. English, Russian and Ukrainian summaries) **93g:90053**
Moore, R. Dan *see* **Huang, Guohe**
Mosheev, L. I. *see* **Mirzoakhmedov, F., 93g:90053**
Murata, Shinichi *see* **Inuiguchi, Masahiro; et al.**
Nettles, Deborah L. *see* **Patel, Minnie H.; et al., 93k:90053**
Patel, Minnie H. (*with* Nettles, Deborah L.; Deutsch, Stuart J.) A linear-programming-based method for determining whether or not n demand points are on a hemisphere. (English summary) **93k:90053**
Puri, M. C. *see* **Gupta, Anju; et al., 93m:90053**
Rispoli, Fred J. The monotonic diameter of the perfect matching and shortest path polytopes. (English summary) **93h:90066**
Safronov, I. A. ★ Метод коррекции исходных данных к задаче линейного программирования специального вида. (Russian. Russian summary) [A method for correcting the initial data to a linear programming problem of special type] **93f:90117**
Sakawa, Masatoshi *see* **Inuiguchi, Masahiro; et al.**
Serbskii, E. V. Coordinate image of H-convex sets. (Russian) (*see* **93k:00021**)
Todd, Michael J. Probabilistic models for linear programming. **93a:90042**
Topkis, Donald M. Paths on polymatroids. **93e:90040**
Trenčv, N. N. Some procedures for the formation of coordinated decisions in linear-fractional distributed systems. (Russian. English and Ukrainian summaries)
Tszi, Syaofu A simplicial method for solving a discrete minimax problem. (Russian. English summary) **93j:90062**
Wang, Xian Yu Solutions to linear inequalities with fuzzy number coefficients. (Chinese. English and Chinese summaries)
Yakovlev, S. V. (*with* Dyubko, A. G.) Approximate approach to the solution of minimax problems on vertices of a permutation polyhedron. (Russian) **93c:90043**
Yu, Ji Ying An algorithm for solving a special kind of mathematical programming problem and its application in finance. (Chinese. English summary)

Items with secondary classifications in 90C08

Adler, Ilan (*with* Beling, Peter A.) Polynomial algorithms for LP over a subring of the algebraic integers with applications to LP with circulant matrices. (English summary) **93j:90048**

Astaf'ev, N. N. A connection between the properties of quasifiniteness and regularity in problems of semi-infinite linear programming. (Russian. Russian and Ukrainian summaries) **93g:90079**

Averbakh, I. L. A group-theoretic method for decomposition in integer linear programming. (Russian. Russian summary) **93i:90067**

Baumgart, Ralf The set of coefficients such that zero is contained in the weighted algebraic sum of polyhedral sets. **93e:52024**

Beling, Peter A. *see* **Adler, Ilan, 93j:90048**

Berezovskiĭ, O. A. *see* **Shor, N. Z., 93m:90060**

Bulavskiĭ, V. A. (*with* Zvyagina, R. A.; Yakovleva, M. A.) Algorithms for choosing a nondegenerate block in matrices of a special type. (Russian) **93c:65057**

Černý, Ján (*with* Kluvánek, Pavol) ★ Základy matematickej teórie dopravy. (Slovak) [Foundations of the mathematical theory of transportation] **93a:90002**

Chang, Y. C. *see* **Charnes, Abraham; et al., 93k:90059**

Charnes, Abraham (*with* Haag, S.; Jaska, P.; Semple, John Hartley) Sensitivity of efficiency classifications in the additive model of data envelopment analysis. **93a:90066**

— (*with* Chang, Y. C.; Semple, John Hartley) Semi-infinite relaxation of joint chance constraints in chance-constrained programming. I. Zero-order stochastic decision rules. (English summary) **93k:90059**

Couvreur, J. M. (*with* Haddad, S.; Peyre, J. F.) Résolution paramétrée de familles de systèmes linéaires. (English summary) [Parametrized solution of a family of linear systems] **93d:65063**

Dantzig, George B. (*with* Infanger, Gerd) Large-scale stochastic linear programs—importance sampling and Benders decomposition. (English summary) (*see* **93j:00007**)

Davydov, G. V. (*with* Davydova, I. M.) Tautologies and positive solvability of linear homogeneous systems. **93g:15020**

Davydova, I. M. *see* **Davydov, G. V., 93g:15020**

Delgado, Miguel (*with* Herrera, F.; Verdegay, J. L.; Vila, Maria Amparo) Post-optimality analysis on the membership functions of a fuzzy linear programming problem. (English summary) **93k:90101**

Deodhare, Girish (*with* Vidyasagar, M.) Control system design via infinite linear programming. **93g:93040**

— (*with* Vidyasagar, M.) Linear control synthesis and infinite linear programming. (*see* **93g:93003**)

Faustino, Ana M. *see* **Júdice, Joaquím J., 93b:90096**

Fourer, Robert A simplex algorithm for piecewise-linear programming. III. Computational analysis and applications. **93a:65086**

Gabasov, R. F. (*with* Kirillova, F. M.; Kostina, E. A.) Global maximization of special classes of convex functions on a convex polyhedral set. (Russian. Russian summary) **93h:90069**

Goldfarb, Donald (*with* Hao, Jianxiu) Polynomial-time primal simplex algorithms for the minimum cost network flow problem. **93f:90060**

Gondzio, J. (*with* Ruszczyński, Andrzej) Sensitivity method for basis inverse representation in multistage stochastic linear programming problems. **93e:90046**

Haag, S. *see* **Charnes, Abraham; et al., 93a:90066**

Haddad, S. *see* **Couvreur, J. M.; et al., 93d:65063**

Hao, Jianxiu *see* **Goldfarb, Donald, 93f:90060**

Herrera, F. *see* **Delgado, Miguel; et al., 93k:90101**

Hwang, Ching Lai *see* **Lai, Young-Jou, 93h:90105**

Infanger, Gerd Monte Carlo (importance) sampling within a Benders decomposition algorithm for stochastic linear programs. (English summary) **93m:90054**

— *see also* **Dantzig, George B., (93j:00007)**

Inuiguchi, Masahiro (*with* Kume, Yasufumi) Efficient solutions versus nondominated solutions in linear programming with multiple interval objective functions. (English summary) **93i:90083**

— (*with* Kume, Yasufumi) Dominance relations as bases for constructing solution concepts in linear programming with multiple interval objective functions. (English summary) **93j:90088**

Jaska, P. *see* **Charnes, Abraham; et al., 93a:90066**

Jeroslow, Robert G. (*with* Martin, Kipp; Rardin, Ronald L.; Wang, Jinchang) Gainfree Leontief substitution flow problems. (English summary) **93m:90091**

Júdice, Joaquím J. (*with* Faustino, Ana M.) A sequential LCP method for bilevel linear programming. **93b:90096**

Kamenev, G. K. A class of adaptive algorithms for the approximation of convex bodies by polyhedra. (Russian) **93c:65024**

Kirillova, F. M. *see* **Gabasov, R. F.; et al., 93h:90069**

Kluvánek, Pavol *see* **Černý, Ján, 93a:90002**

Kostina, E. A. *see* **Gabasov, R. F.; et al., 93h:90069**

Krivonozhko, V. E. Equivalence of solution trajectories in methods of decomposition and block factorization. (Russian. Russian summary) **93g:90051**

Kume, Yasufumi *see* **Inuiguchi, Masahiro, 93i:90083** *and* **93j:90088**

Lai, Han Ch'ing (*with* Wu, Shun I) Extremal points and optimal solutions for general capacity problems. **93g:90086**

Lai, Young-Jou (*with* Hwang, Ching Lai) A new approach to some possibilistic linear programming problems. (English summary) **93h:90105**

Mardanov, S. S. Reduction of the dimension of the integer knapsack problem and its solution by a parallel algorithm of dynamic programming. (Russian. Russian summary) **93h:90068**

Martin, Kipp *see* **Jeroslow, Robert G.; et al., 93m:90091**

Morris, Walter D., Jr. The maximum number of complementary facets of a simplicial polytope. **93e:52021**

Nakano, Jun *see* **Tokuyama, Takeshi, (93b:68005)**

Östermark, Ralf Solving a linear multiperiod portfolio problem by interior-point methodology. (English summary) **93h:90061**

Peyre, J. F. *see* **Couvreur, J. M.; et al., 93d:65063**

Rardin, Ronald L. *see* **Jeroslow, Robert G.; et al., 93m:90091**

Rispoli, Fred J. The monotonic diameter of the perfect matching and shortest path polytopes. (English summary) **93h:90066**

Rothblum, Uriel G. (*with* Zenios, Stavros A.) Scalings of matrices satisfying line-product constraints and generalizations. (English summary) **93k:15048**

Ruszczyński, Andrzej *see* **Gondzio, J., 93e:90046**

Rycerz, Anna Some operations (not) preserving the integer rounding property. (English summary) (*see* **93i:05004**)

Semple, John Hartley *see* **Charnes, Abraham; et al., 93a:90066** *and* **93k:90059**

Shor, N. Z. (*with* Berezovskiĭ, O. A.) Construction of an ellipsoid of maximum volume inscribed in a polyhedron using sequential space dilatation. (Russian. Russian summary) **93m:90060**

Sutherland, W. R. S. The offsets of a convex polyhedral set. **93k:52012**

Tokuyama, Takeshi (*with* Nakano, Jun) Efficient algorithms for the Hitchcock transportation problem. (*see* **93b:68005**)

Tseng, Paul Relaxation method for large-scale linear programming using decomposition. **93f:90113**

Verdegay, J. L. *see* **Delgado, Miguel; et al., 93k:90101**

Vidyasagar, M. *see* **Deodhare, Girish, 93g:93040** *and* **(93g:93003)**

Vila, Maria Amparo *see* **Delgado, Miguel; et al., 93k:90101**

Wang, Jinchang *see* **Jeroslow, Robert G.; et al., 93m:90091**

Wu, Shun I Extremal points and an algorithm for a class of continuous transportation problems. **93b:90108**

— *see also* **Lai, Han Ch'ing, 93g:90086**

Yakovleva, M. A. *see* **Bulavskiĭ, V. A.; et al., 93c:65057**

Yannakakis, Mihalis Expressing combinatorial optimization problems by linear programs. **93a:90054**

Zarubina, A. I. Linear recognition problems with exclusion. (Russian. Russian summary) **93f:90122**

Zenios, Stavros A. *see* **Rothblum, Uriel G., 93k:15048**

Zvyagina, R. A. *see* **Bulavskiĭ, V. A.; et al., 93c:65057**

90C09 Boolean programming

Antamoshkin, A. N. (*with* Semënkin, E. S.) Optimization of polymodal locally monotone pseudo-Boolean functions. (English, Russian and Lithuanian summaries) **93h:90067**

— (*with* Koshkin, Yurij) The cutting off algorithms for pseudo-Boolean optimization. (English, Russian and Lithuanian summaries) **93j:90063**

Baessler, Felix A heuristic 0-1 integer programming method. (German summary) **93c:90044**

Balas, Egon (*with* Ceria, Sebastián; Cornuéjols, Gérard) Solving mixed 0-1 programs by a lift-and-project method. (English summary) (*see* **93k:05002**)

Bekturov, A. Sh. *see* **Ospanov, S. S., 93c:90045**

Bertocchi, Maria (*with* Brandolini, L.; Słomiński, Leon; Sobczynska, J.) A Monte-Carlo approach for 0-1 programming problems. (English and German summaries) **93i:90066**

Billionnet, Alain (*with* Sutter, Alain) Persistency in quadratic 0-1 optimization. **93b:90048**

— (*with* Elloumi, S.) Placement de tâches dans un système distribué et dualité lagrangienne. (English summary) [Task allocation in a distributed system and Lagrangian duality] **93b:90047**

Boros, Endre (*with* Crama, Y.; Hammer, Peter L.) Chvátal cuts and odd cycle inequalities in quadratic 0-1 optimization. **93a:90043**

Brandolini, L. *see* **Bertocchi, Maria; et al., 93i:90066**

Bushnell, Michael L. *see* **Chakradhar, Srimat T., 93d:90041**

Ceria, Sebastián *see* **Balas, Egon; et al., (93k:05002)**

Chakradhar, Srimat T. (*with* Bushnell, Michael L.) A solvable class of quadratic 0-1 programming. **93d:90041**

Cornuéjols, Gérard *see* **Balas, Egon; et al., (93k:05002)**

Crama, Y. *see* **Boros, Endre; et al., 93a:90043**

Elloumi, S. *see* **Billionnet, Alain, 93b:90047**

Fréville, Arnaud (*with* Plateau, G.) Sac à dos multidimensionnel en variables 0-1: encadrement de la somme des variables à l'optimum. (English and French summaries) [The 0-1 multidimensional knapsack problem: fixing the sum of the variables at the optimum]

German, O. V. (*with* Germanovich, E. I.; Naĭdenko, V. G.) An algorithm for Boolean optimization on (0, 1)-matrices. (Russian. Russian summary) **93j:90064**

Germanovich, E. I. *see* **German, O. V.; et al., 93j:90064**

Grebennik, I. V. (*with* Yakovlev, S. V.) Extremal properties of quadratic functions with Boolean variables. (Russian)

Hammer, Peter L. *see* **Boros, Endre; et al., 93a:90043**

Hochbaum, Dorit S. (*with* Shamir, Ron; Shanthikumar, J. George) A polynomial algorithm for an integer quadratic nonseparable transportation problem. **93e:90041**

Jha, Somesh *see* **Pardalos, Panos M., 93e:90042**

Kamath, A. (*with* Karmarkar, Narendra) A continuous approach to compute upper bounds in quadratic maximization problems with integer constraints. **93b:90049**

Karmarkar, Narendra *see* **Kamath, A., 93b:90049**

Körner, P. F. An efficient method for obtaining sharp bounds for nonlinear Boolean programming problems. (French summary) **93a:90044**

— A note on optimality conditions for dual problems to the traveling salesman problem. (English summary) **93j:90065**

Koshkin, Yurij *see* **Antamoshkin, A. N., 93j:90063**

Mao, Sheng Gen *see* **Sun, Huan Chun, (93a:41001)**

Naĭdenko, V. G. *see* **German, O. V.; et al., 93j:90064**

Ospanov, S. S. (*with* Bekturov, A. Sh.) An algorithm of the discrete step method for solving the optimization 0-1 knapsack problem. (Russian) **93c:90045**

Pardalos, Panos M. (*with* Jha, Somesh) Complexity of uniqueness and local search in quadratic 0-1 programming. **93e:90042**

Plateau, G. *see* **Fréville, Arnaud**

Semënkin, E. S. *see* **Antamoshkin, A. N., 93h:90067**

Shamir, Ron *see* **Hochbaum, Dorit S.; et al., 93e:90041**

Shanthikumar, J. George *see* **Hochbaum, Dorit S.; et al., 93e:90041**

Słomiński, Leon *see* **Bertocchi, Maria; et al., 93i:90066**

Sobczynska, J. *see* **Bertocchi, Maria; et al., 93i:90066**
Sun, Huan Chun (*with* Mao, Sheng Gen) A combinatorial algorithm for 0-1 programming. (*see* **93a:41001**)
Sutter, Alain *see* **Billionnet, Alain, 93b:90048**
Yakovlev, S. V. *see* **Grebennik, I. V.**
Yu, Ji Ying On the 0-1 transportation problem. (Chinese. English summary)

Items with secondary classifications in 90C09

Aghezzaf, El Houssaine (*with* Wolsey, Laurence A.) Lot-sizing polyhedra with a cardinality constraint. **93b:90068**
Bector, C. R. (*with* Hawaleshka, O.; Gill, A.) A 0-1 linear programming formulation for solving an equipment replacement problem. (English summary) **93h:90043**
Borchardt, M. Ein modifiziertes klassisches Lagrange-Dualitätskonzept für Optimierungsprobleme mit Booleschen und stetigen Variablen. [A modified classical Lagrange duality concept for optimization problems with Boolean and continuous variables] **93c:90048**
Gill, A. *see* **Bector, C. R.; et al., 93h:90043**
Hawaleshka, O. *see* **Bector, C. R.; et al., 93h:90043**
White, Douglas John A parametric-based heuristic program for the quadratic assignment problem. (English summary) **93m:90066**
Wolsey, Laurence A. *see* **Aghezzaf, El Houssaine, 93b:90068**

90C10 Integer programming

Anisimov, E. G. *see* **Anisimov, V. G.**
Anisimov, V. G. (*with* Anisimov, E. G.) A branch and bound algorithm for a class of problems in scheduling theory. (Russian. Russian summary)
Armando Luis, K. (*with* Beĭko, I. V.) An approximate method for solving a partially discrete optimization problem. (Russian. Russian summary)
Averbakh, I. L. (*with* Tsurkov, V. I.) Block problems of mixed-integer programming with connected variables. (Russian. Russian summary)
— A group-theoretic method for decomposition in integer linear programming. (Russian. Russian summary) **93i:90067**
Babaev, Dzh. A. (*with* Mamedov, K. Sh.; Shikhaliev, N. Sh.) Reduction of the solution of a general problem of nonlinear discrete programming to the solution of a sequence of problems with fewer constraints. (Russian) **93f:90118**
Beĭko, I. V. *see* **Armando Luis, K.**
Bollobás, Béla (*with* Meir, Amram) A travelling salesman problem in the k-dimensional unit cube. **93c:90046**
Carlson, Robert C. *see* **Kouvelis, Panagiotis, 93b:90051**
Chakrabarti, P. P. *see* **Sarkar, U. K.; et al.**
Chalasan, R. A problem of integer linear programming. (Russian) (*see* **93m:00021**)
Ch'ên, Chien Hui (*with* Jang, Jin Hwang) An improved parallel algorithm for 0/1 knapsack problem. (English summary)
Chen, Kai Zhou *see* **Xu, Ya Ping, 93f:90121**
Cook, William J. (*with* Rutherford, Thomas F.; Scarf, Herbert E.; Shallcross, David F.) An implementation of the generalized basis reduction algorithm for integer programming. (English summary)
De Sarkar, S. C. *see* **Sarkar, U. K.; et al.**
Diané, Mamadi (*with* Plesník, Ján) An integer programming formulation of the Steiner problem in graphs. (English summary)
Dudziński, Krzysztof (*with* Walukiewicz, Stanisław) PC-oriented algorithms for the knapsack problem. (English summary) (*see* **93e:90003**)
Dyer, Martin (*with* Frieze, A. M.) Probabilistic analysis of the generalised assignment problem. **93d:90042**
Frieze, A. M. *see* **Dyer, Martin, 93d:90042**
Geist, Daniel (*with* Rodin, Ervin Y.) Adjacency of the 0-1 knapsack problem. (English summary) **93d:90043**
Gendreau, Michel (*with* Hertz, Alain; Laporte, Gilbert) New insertion and postoptimization procedures for the traveling salesman problem. (English summary)
Ghose, S. *see* **Sarkar, U. K.; et al.**
Gritzmann, Peter (*with* Klee, Victor) Deciding uniqueness in norm maximization. (English summary) **93i:90068**
Guignard, Monique Solving makespan minimization problems with Lagrangean decomposition. (English summary) **93k:90054**
Hartvigsen, David (*with* Zemel, Eitan) The complexity of lifted inequalities for the knapsack problem. (English summary) **93j:90066**
Hertz, Alain *see* **Gendreau, Michel; et al.**
Iwamura, Kakuzo Discrete decision process model involves greedy algorithm over greedoid. (English summary)
Jang, Jin Hwang *see* **Ch'ên, Chien Hui**
Karmarkar, Narendra (*with* Resende, Mauricio G. C.; Ramakrishnan, K. G.) An interior point algorithm to solve computationally difficult set covering problems. **93b:90050**
Kasugai, Hiroshi *see* **Kubo, Mikio, 93a:90045**
Kiselëv, V. D. (*with* Sukmanov, S. A.) Application of duality in improving the efficiency of methods for solving a quadratic knapsack problem. (Russian)
Klee, Victor *see* **Gritzmann, Peter, 93i:90068**
Kohli, Rajeev (*with* Krishnamurti, Ramesh) A total-value greedy heuristic for the integer knapsack problem. (English summary) **93k:90055**
Kouvelis, Panagiotis (*with* Carlson, Robert C.) Total unimodularity applications in bi-objective discrete optimization. **93b:90051**
Kovalëv, M. M. *see* **Zaporozhets, A. A., 93k:90057**
Krishnamurti, Ramesh *see* **Kohli, Rajeev, 93k:90055**
Kubo, Mikio (*with* Kasugai, Hiroshi) The precedence constrained traveling salesman problem. **93a:90045**
Laporte, Gilbert *see* **Gendreau, Michel; et al.**
Lassmann, Wolfgang (*with* Rogge, Rolf) Discrete optimization with bilinear objective function and linear constraints. (*see* **93e:90003**)
Laurent, Monique (*with* Sassano, Antonio) A characterization of knapsacks with the max-flow–min-cut property. **93d:90044**
Levin, Vitaliĭ Il'ich Discrete optimization under conditions of interval uncertainty. (Russian. Russian summary) **93i:90069**
Li, Han Lin (*with* Yang, Chao Chih) Using integer programming to find minimum deduction graphs for accomplishing inferences. (English summary) **93k:90056**
Lin-Kriz, Yu (*with* Pan, Victor) On parallel complexity of integer linear programming, GCD and the iterated mod function. **93f:90119**
Mamedov, K. Sh. *see* **Babaev, Dzh. A.; et al., 93f:90118**
Mardanov, S. S. Reduction of the dimension of the integer knapsack problem and its solution by a parallel algorithm of dynamic programming. (Russian. Russian summary) **93h:90068**
Meir, Amram *see* **Bollobás, Béla, 93c:90046**
Naddef, Denis (*with* Rinaldi, Giovanni) The crown inequalities for the symmetric traveling salesman polytope. **93e:90043**
Ohtomo, Masahide 3-valued problem and reduction of some integer programming problems. **93f:90120**
Pan, Victor *see* **Lin-Kriz, Yu, 93f:90119**
Pemantle, Robin (*with* Propp, James Gary; Ullman, Daniel) On tensor powers of integer programs. **93b:90052**
Plesník, Ján *see* **Diané, Mamadi**
Propp, James Gary *see* **Pemantle, Robin; et al., 93b:90052**
Ramakrishnan, K. G. *see* **Karmarkar, Narendra; et al., 93b:90050**
Resende, Mauricio G. C. *see* **Karmarkar, Narendra; et al., 93b:90050**
Rinaldi, Giovanni *see* **Naddef, Denis, 93e:90043**
Rodin, Ervin Y. *see* **Geist, Daniel, 93d:90043**
Rogge, Rolf *see* **Lassmann, Wolfgang, (93e:90003)**
Rutherford, Thomas F. *see* **Cook, William J.; et al.**
Rycerz, Anna Some operations (not) preserving the integer rounding property. (English summary) (*see* **93i:05004**)
Sarkar, U. K. (*with* Chakrabarti, P. P.; Ghose, S.; De Sarkar, S. C.) A simple 0.5-bounded greedy algorithm for the 0/1 knapsack problem.
Sassano, Antonio *see* **Laurent, Monique, 93d:90044**
Scarf, Herbert E. *see* **Cook, William J.; et al.**
Senkienė, Elvyra On certain global optimization algorithms. (Russian. English summary) **93i:90070**
Shallcross, David F. Neighbors of the origin for four by three matrices. (English summary) **93g:90054**
— *see also* **Cook, William J.; et al.**
Shikhaliev, N. Sh. *see* **Babaev, Dzh. A.; et al., 93f:90118**
Sierksma, Gerard (*with* Tijssen, Gert A.) Faces with large diameter on the symmetric traveling salesman polytope. (English summary) **93i:90071**
Simanchëv, R. Yu. Completely regular cuttings for problems of integer optimization. (Russian) **93d:90045**
Sukmanov, S. A. *see* **Kiselëv, V. D.**
Tijssen, Gert A. *see* **Sierksma, Gerard, 93i:90071**
Tsurkov, V. I. *see* **Averbakh, I. L.**
Ullman, Daniel *see* **Pemantle, Robin; et al., 93b:90052**
Walukiewicz, Stanisław *see* **Dudziński, Krzysztof, (93e:90003)**
Wan, Jun *see* **Wei, Xiang Yun**
Wang, Zhe Min A general deterministic pivot method for oriented matroid programming. (English summary)
Warren, Richard H. Optimal arcs for the traveling salesman problem. **93c:90047**
Wei, Xiang Yun (*with* Wan, Jun) A direct search algorithm for nonlinear integer programming. (Chinese. Chinese summary)
Wu, Xing Bao Integer search method for integer linear programming. (*see* **93a:41001**)
Xu, Ya Ping (*with* Chen, Kai Zhou) The necessary and sufficient condition of H-graph and the optimizing models of minimum H-circuit. (English summary) **93f:90121**
Yang, Chao Chih *see* **Li, Han Lin, 93k:90056**
Zaporozhets, A. A. (*with* Kovalëv, M. M.) The polytope of alternating successions. (Russian. English and Russian summaries) **93k:90057**
Zarubina, A. I. Linear recognition problems with exclusion. (Russian. Russian summary) **93f:90122**
Zemel, Eitan *see* **Hartvigsen, David, 93j:90066**

Items with secondary classifications in 90C10

Adler, Ilan (*with* Beling, Peter A.) Polynomial algorithms for LP over a subring of the algebraic integers with applications to LP with circulant matrices. (English summary) **93j:90048**
Aghezzaf, El Houssaine (*with* Wolsey, Laurence A.) Lot-sizing polyhedra with a cardinality constraint. **93b:90068**
Alliney, S. A note on the greedy algorithm. (Italian summary) **93m:90061**
Arbib, Claudio (*with* Mocci, Ugo; Scoglio, Caterina) Methodological aspects of ring network design. (English summary) (*see* **93e:90003**)
Beling, Peter A. *see* **Adler, Ilan, 93j:90048**
Boyd, E. Andrew A pseudopolynomial network flow formulation for exact knapsack separation. **93h:90099**
Černý, Ján (*with* Kluvánek, Pavol) ★ Základy matematickej teórie dopravy. (Slovak) [Foundations of the mathematical theory of transportation] **93a:90002**
Chandrasekaran, R. *see* **Sridhar, S., 93j:90122**
Cochand, M. (*with* Gaillard, A.; Gröflin, H.) Lattice matrices, intersection of ring families and dicuts. (English summary) **93j:90060**
Conforti, Michele (*with* Rao, M. R.) Structural properties and decomposition of linear balanced matrices. **93e:05014**
Cvetković, Dragoš (*with* Milosavljević, Milan; Dimitrijević, Vladimir) An algorithm for M asymmetric travelling salesman problem on a bandwidth-limited graph. **93b:90071**
Derigs, U. (*with* Metz, A.) A matching-based approach for solving a delivery/pick-up vehicle routing problem with time constraints. (English and German summaries) **93f:90058**
Dimitrijević, Vladimir *see* **Cvetković, Dragoš; et al., 93b:90071**
Fischetti, Matteo (*with* Toth, Paolo) An additive bounding procedure for the asymmetric travelling salesman problem. **93b:90100**

Fonlupt, Jean (*with* Naddef, Denis) The traveling salesman problem in graphs with some excluded minors. **93b:90101**
Fukao, Takeshi (*with* Harada, Tetsuya; Wu, Jijun) Continuous modelling of discrete optimization problems. (English summary) (*see* **93e:90003**)
Fukuda, Komei (*with* Terlaky, Tamás) Linear complementarity and oriented matroids. **93j:90115**
Gaillard, A. *see* **Cochand, M.; et al., 93j:90060**
Gendler, M. B. (*with* Zaretskiĭ, L. S.) An exact algorithm for solving a multidimensional problem of resource allocation. (Russian. Russian summary)
Gröflin, H. *see* **Cochand, M.; et al., 93j:90060**
Grötschel, Martin (*with* Win, Zaw) A cutting plane algorithm for the windy postman problem. **93g:90083**
Gupta, Renu (*with* Malhotra, Rita) Multi-criteria integer linear programming problem. (English summary) **93j:90086**
Harada, Tetsuya *see* **Fukao, Takeshi; et al., (93e:90003)**
Hassin, Refael Algorithms for the minimim cost circulation problem based on maximizing the mean improvement. (English summary) **93g:90084**
Hirabayashi, Ryuichi (*with* Saruwatari, Yasufumi; Nishida, Naonori) Tour construction algorithm for the capacitated arc routing problems. (English summary) **93j:90120**
Husban, Ahmad The multi-centre travelling salesmen problem. (English and Arabic summaries)
Ishii, Hiroaki[1] *see* **Morita, Hiroshi, 93m:90056**
Jeroslow, Robert G. (*with* Martin, Kipp; Rardin, Ronald L.; Wang, Jinchang) Gainfree Leontief substitution flow problems. (English summary) **93m:90091**
Johnson, Ellis L. (*with* Nemhauser, George L.) Recent developments in integer programming. (English summary) (*see* **93d:90005**)
Kasugai, Hiroshi *see* **Kubo, Mikio, 93j:90082**
Kluvánek, Pavol *see* **Černý, Ján, 93a:90002**
Korte, Bernhard (*with* Lovász, László; Schrader, Rainer) ★ Greedoids. **93f:90003**
Kubo, Mikio (*with* Kasugai, Hiroshi) On symmetric subtour problems. (English summary) **93j:90082**
Larsen, Christian (*with* Tind, Jørgen) Lagrangean duality for facial programs with applications to integer and complementarity problems. (English summary) **93h:90087**
Lee, Jon[2] (*with* Ryan, Jennifer) Matroid applications and algorithms. (English summary) **93h:52019**
Lovász, László (*with* Scarf, Herbert E.) The generalized basis reduction algorithm. (English summary) **93h:52023**
— *see also* **Korte, Bernhard; et al., 93f:90003**
Malhotra, Rita *see* **Gupta, Renu, 93j:90086**
Martin, Kipp *see* **Jeroslow, Robert G.; et al., 93m:90091**
Mazzola, Joseph B. (*with* Neebe, Alan W.) An algorithm for the bottleneck generalized assignment problem. (English summary) **93m:90048**
Metz, A. *see* **Derigs, U., 93f:90058**
(Mikhalevich, V. S.) *see* **Methods for solving problems of nonlinear and discrete programming, 93b:90010**
Milosavljević, Milan *see* **Cvetković, Dragoš; et al., 93b:90071**
Mocci, Ugo *see* **Arbib, Claudio; et al., (93e:90003)**
Monfroglio, Angelo Integer programs for logic constraint satisfaction. **93d:68025**
Morita, Hiroshi (*with* Ishii, Hiroaki[1]) An efficient algorithm for a stochastic linear knapsack problem with a single index model. (English summary) **93m:90056**
Mukai, H. *see* **Yan, Di, 93j:90072**
Naddef, Denis *see* **Fonlupt, Jean, 93b:90101**
Neebe, Alan W. *see* **Mazzola, Joseph B., 93m:90048**
Nemhauser, George L. *see* **Johnson, Ellis L., (93d:90005)**
Nishida, Naonori *see* **Hirabayashi, Ryuichi; et al., 93j:90120**
Nooriafshar, Mehryar Towards nonalgorithmic optimization: a practical and general purpose method of formulating and solving dynamic programming problems. (English summary) (*see* **93d:90005**)
Paczkowski, Witold M. Discrete optimization program based on the ortho-diagonal method. (English summary) (*see* **93d:90005**)
Papadimitriou, Christos H. The complexity of the Lin-Kernighan heuristic for the traveling salesman problem. **93c:90063**
Punnen, Abraham P. Traveling salesman problem under categorization. (English summary) **93f:90135**
Rao, M. R. *see* **Conforti, Michele, 93e:05014**
Rardin, Ronald L. *see* **Jeroslow, Robert G.; et al., 93m:90091**
Ryan, Jennifer *see* **Lee, Jon[2], 93h:52019**
Saad, Omar Mohamed An algorithm for solving the integer linear fractional programs. (English summary)
Salowe, Jeffrey S. A simple proof of the planar rectilinear Steiner ratio. (English summary) **93f:90175**
Saruwatari, Yasufumi *see* **Hirabayashi, Ryuichi; et al., 93j:90120**
Scarf, Herbert E. *see* **Lovász, László, 93h:52023**
Schrader, Rainer *see* **Korte, Bernhard; et al., 93f:90003**
Scoglio, Caterina *see* **Arbib, Claudio; et al., (93e:90003)**
Shallcross, David F. A polynomial algorithm for a one machine batching problem. (English summary) **93f:90102**
Shmelëv, V. V. Exact penalty functions in linear and integer linear programming. (Russian. Russian summary) **93g:90055**
Snyder, Timothy Law (*with* Steele, J. Michael) Equidistribution of point sets for the traveling salesman and related problems. (English summary) **93m:90092**
Soldatenko, G. V. ★ Последовательный метод решения экстремальных комбинаторных задач. (Russian. Russian summary) [A sequential method for solving extremal combinatorial problems] **93g:90001**
Sridhar, S. (*with* Chandrasekaran, R.) Integer solution to synthesis of communication networks. (English summary) **93j:90122**
Steele, J. Michael *see* **Snyder, Timothy Law, 93m:90092**
Terlaky, Tamás *see* **Fukuda, Komei, 93j:90115**
Tind, Jørgen *see* **Larsen, Christian, 93h:90087**
Toth, Paolo *see* **Fischetti, Matteo, 93b:90100**
Walker, John A hybrid approach to the multiple-choice knapsack problem. (English summary) (*see* **93d:90005**)
Wang, Jinchang *see* **Jeroslow, Robert G.; et al., 93m:90091**
Williamson, David P. Analysis of the Held-Karp lower bound for the asymmetric TSP. (English summary) **93f:90138**
Win, Zaw *see* **Grötschel, Martin, 93g:90083**
Wolsey, Laurence A. *see* **Aghezzaf, El Houssaine, 93b:90068**
Wu, Jijun *see* **Fukao, Takeshi; et al., (93e:90003)**
Yan, Di (*with* Mukai, H.) Stochastic discrete optimization. **93j:90072**
Zabudskiĭ, G. G. On an integer formulation of a problem on the arrangement of objects on a line. (Russian) **93d:90054**
Zaretskiĭ, L. S. *see* **Gendler, M. B.**

Items listed otherwise than by author

Methods for solving problems of nonlinear and discrete programming ★ Методы решения задач нелинейного и дискретного программирования. (Russian) [Methods for solving problems of nonlinear and discrete programming] **93b:90010**

90C11 Mixed integer programming

Averbakh, I. L. A multilevel decomposition scheme in block mixed-integer programming. (Russian) **93a:90046**
Beaumont, Nicholas A generalization of binary variables. (English summary) **93j:90067**
Borchardt, M. Ein modifiziertes klassisches Lagrange-Dualitätskonzept für Optimierungsprobleme mit Booleschen und stetigen Variablen. [A modified classical Lagrange duality concept for optimization problems with Boolean and continuous variables] **93c:90048**
Kettani, Ossama *see* **Oral, Muhittin, 93a:90047**
Ni, Ming Fang (*with* Xu, Nan Rong) An initial feasible solution to a mixed integer linear programming problem. (Chinese. English and Chinese summaries)
Oral, Muhittin (*with* Kettani, Ossama) A linearization procedure for quadratic and cubic mixed-integer problems. **93a:90047**
Rana, Krishan A decomposition technique for mixed integer programming problems. **93e:90044**
Shmelëv, V. V. Exact penalty functions in linear and integer linear programming. (Russian. Russian summary) **93g:90055**
Xu, Nan Rong *see* **Ni, Ming Fang**

Items with secondary classifications in 90C11

Cho, Seong-Cheol (*with* Kim, Sehun) Average shadow prices in mathematical programming. **93b:49039**
Kasugai, Hiroshi *see* **Kubo, Mikio, 93j:90082**
Kim, Sehun *see* **Cho, Seong-Cheol, 93b:49039**
Kubo, Mikio (*with* Kasugai, Hiroshi) On symmetric subtour problems. (English summary) **93j:90082**
Louveaux, François V. (*with* Peeters, D.) A dual-based procedure for stochastic facility location. (English summary) **93g:90044**
Peeters, D. *see* **Louveaux, François V., 93g:90044**
Sousa, Jorge P. (*with* Wolsey, Laurence A.) A time indexed formulation of nonpreemptive single machine scheduling problems. **93c:90039**
Wolsey, Laurence A. *see* **Sousa, Jorge P., 93c:90039**

90C15 Stochastic programming

Alabert i Romero, Aureli On the optimization of hydroelectric power generation with random water inflows. (Catalan. Catalan summary)
Averbakh, I. L. An iterative method for solving two-stage discrete problems of stochastic programming with additively separable variables. (Russian) **93b:90053**
Baba, Norio (*with* Morimoto, Akira) Stochastic approximation method for solving the stochastic multiobjective programming problem. (English summary) **93k:90058**
Balder, Erik J. Existence without explicit compactness in stochastic dynamic programming. (English summary) **93i:90073**
Birge, John R. Stochastic programming: optimizing the uncertain. (English summary) (*see* **93d:90005**)
Bordunov, N. N. ★ Динамические оптимизационные модели в условиях неопределенности: многоэтапные задачи стохастического программирования (по материалам IIASA). (Russian. Russian summary) [Dynamical optimization models under conditions of uncertainty: multistage problems of stochastic programming (from IIASA reports)] **93i:90072**
Bouza Herrera, Carlos Bounding the expected approximation error in stochastic linear programming with complete fixed recourse. (*see* **93e:90003**)
Chang, Y. C. *see* **Charnes, Abraham; et al., 93k:90059**
Charnes, Abraham (*with* Chang, Y. C.; Semple, John Hartley) Semi-infinite relaxation of joint chance constraints in chance-constrained programming. I. Zero-order stochastic decision rules. (English summary) **93k:90059**
Chen, Zhi Ping *see* **Xu, Cheng Xian**
Chung, S. L. (*with* Hanson, F. B.; Xu, H. H.) Parallel stochastic dynamic programming: finite element methods. **93c:90049**
Cvitanić, Jakša (*with* Karatzas, Ioannis) Convex duality in constrained portfolio optimization. (English summary) **93j:90068**
Dulá, José H. An upper bound on the expectation of simplicial functions of multivariate random variables. **93c:90050**
Dupačová, Jitka On interval estimates for optimal value of stochastic programs. (*see* **93e:90003**)
Edirisinghe, N. C. P. (*with* Ziemba, W. T.) Tight bounds for stochastic convex programs. (English summary) **93i:90074**
Ermol'ev, Yu. M. (*with* Gal'voronskiĭ, A. A.) Stochastic quasigradient methods for optimization of discrete event systems. (English summary) **93k:90060**
Fan, Yu Bin The Bayesian statistical method for estimating the OD trip matrix from link volumes. (Chinese. English summary)

Fang, Kai Tai (*with* Wang, Yuan[1]) A sequential algorithm for optimization and its applications to regression analysis. (English summary) **93e:90045**
Ferreira, Afonso G. (*with* Žerovnik, Janez) Bounding the probability of success of stochastic methods for global optimization. (English summary) **93k:90061**
Flåm, Sjur D. Lagrange multipliers in stochastic programming. **93c:90051**
Frauendorfer, Karl On the value of perfect information and approximate solutions in convex stochastic two-stage optimization. (English summary) (*see* **93e:90003**)
Gaivoronskiĭ, A. A. *see* **Ermol'ev, Yu. M., 93k:90060**
Girko, V. L. Integral representation and resolvent methods for solving of linear stochastic programming problems of large dimensions. (*see* **93e:90003**)
Gondzio, J. (*with* Ruszczyński, Andrzej) Sensitivity method for basis inverse representation in multistage stochastic linear programming problems. **93e:90046**
González Martín, C. *see* **Sánchez García, Miguel, 93d:90047**
Granichin, O. N. Estimation of the minimum point of an unknown function observed against the background of dependent noise. (Russian. Russian summary)
Hanson, F. B. *see* **Chung, S. L.; et al., 93c:90049**
Higle, Julia L. (*with* Sen, Suvrajeet) On the convergence of algorithms with implications for stochastic and nondifferentiable optimization. **93b:90054**
Huang, Bing Zhang *see* **Zhang, Ke Bang**
Infanger, Gerd Monte Carlo (importance) sampling within a Benders decomposition algorithm for stochastic linear programs. (English summary) **93m:90054**
Ishii, Hiroaki[1] *see* **Morita, Hiroshi, 93k:90062** *and* **93m:90056**
Jagannathan, Raj Linear programming with stochastic processes as parameters as applied to production planning. **93a:90048**
Kall, P. A survey of approximation methods in stochastic programming. (Russian) (*see* **93k:90002**)
— (*with* Mayer, János) A model management system for stochastic linear programming. (*see* **93e:90003**)
Karatzas, Ioannis *see* **Cvitanić, Jakša, 93j:90068**
Komáromi, É. Probabilistic constraints in primal and dual linear programs: duality results. (English summary) **93i:90075**
Kravtsova, L. V. (*with* Plotkin, Ya. D.; Smyshlyaeva, L. G.) On the theory of optimization with respect to a probability criterion and its use in calculating the output percentage of nondefective semiconductor devices. (Russian) (*see* **93m:00035**)
Kurbakovskiĭ, V. Yu. A numerical method for solving an inverse probability problem. (Russian) (*see* **93g:00022**)
Kushner, Harold J. (*with* Yang, Jichuan) A Monte Carlo method for sensitivity analysis and parametric optimization of nonlinear stochastic systems: the ergodic case. **93a:90049**
Kuzin, V. S. Analytical solution of the probabilities of an optimization problem when there are rigid constraints. (Russian. Russian summary) **93d:90046**
Lepp, Riho Approximation of decision rules in stochastic programming. (Russian) **93m:90055**
Li, Xing Si (*with* Templeman, A. B.) An informational entropy approach to optimization. **93c:90052**
Loskutov, V. G. Models, algorithms and software of stochastic optimization. (English summary) (*see* **93k:62001**)
Luus, Rein *see* **Spaans, R.**
Marti, K. Computation of efficient solutions of discretely distributed stochastic optimization problems. **93c:90053**
Mayer, János *see* **Kall, P., (93e:90003)**
Morimoto, Akira *see* **Baba, Norio, 93k:90058**
Morita, Hiroshi (*with* Ishii, Hiroaki[1]) A stochastic improvement method for stochastic programming. (English summary) **93k:90062**
— (*with* Ishii, Hiroaki[1]) An efficient algorithm for a stochastic linear knapsack problem with a single index model. (English summary) **93m:90056**
Mukai, H. *see* **Yan, Di, 93j:90072**
Mulvey, John M. (*with* Ruszczyński, Andrzej) A diagonal quadratic approximation method for linear multistage stochastic programming problems. (*see* **93e:90003**)
Norkin, V. I. Conditions for and convergence rate of the method of empirical averages in mathematical statistics and stochastic programming. (Russian. English and Ukrainian summaries) **93k:90063**
Perevozchikov, A. G. *see* **Zavriev, S. K., 93c:90054**
Plotkin, Ya. D. *see* **Kravtsova, L. V.; et al., (93m:00035)**
Rajasekaran, Sanguthevar (*with* Reif, John H.) Nested annealing: a provable improvement to simulated annealing. **93b:90055**
Reif, John H. *see* **Rajasekaran, Sanguthevar, 93b:90055**
Rommelfanger, Heinrich Stochastic programming with vague data. **93f:90123**
Ruszczyński, Andrzej *see* **Gondzio, J., 93e:90046** *and* **Mulvey, John M., (93e:90003)**
Sánchez García, Miguel (*with* González Martín, C.) A global optimization algorithm based on the geometric probabilistic model. Application to a classification problem. (Spanish. English summary) **93d:90047**
Semple, John Hartley *see* **Charnes, Abraham; et al., 93k:90059**
Sen, Suvrajeet Relaxations for probabilistically constrained programs with discrete random variables. (English summary) (*see* **93e:90003**)
— Relaxations for probabilistically constrained programs with discrete random variables. **93b:90056**
— *see also* **Higle, Julia L., 93b:90054**
Shamir, Eli Remarks on the stochastic travelling salesman. **93e:90047**
Shi, Xiao Fa[2] (*with* Wang, Jin De) Approximate Lagrange multiplier algorithm for stochastic programs with complete recourse: nonlinear deterministic constraints. (English summary) **93j:90069**
Shibaev, S. V. A method for finding the minimax of functionals that depend on probability measures. (Russian. English and Ukrainian summaries) **93j:90070**
Smyshlyaeva, L. G. *see* **Kravtsova, L. V.; et al., (93m:00035)**
Spaans, R. (*with* Luus, Rein) Importance of search-domain reduction in random optimization. (English summary)
Stancu-Minasian, I. M. Stochastic programming with multiple fractile criteria. (English summary) **93j:90071**
Stark, Scott Stochastic global optimization applied to reaction network parameter estimation. (English summary) (*see* **93g:65178**)
Tamm, Ebu Approximation of an unconstrained minimum using biased estimate of the goal function. (Russian and Estonian summaries) **93b:90057**
Templeman, A. B. *see* **Li, Xing Si, 93c:90052**
Tran Quoc Chien Semistochastic decomposition scheme in mathematical programming and game theory. **93a:90050**
Tsirlin, A. M. Conditions for optimality of the solution of averaged problems of mathematical programming. (Russian)
Tsitsiashvili, G. Sh. Parallelization of stochastic programming algorithms. (Russian)
Tu, Renjin (*with* Zheng, Quan[1]) Integral global optimization method in statistical applications. (English summary) **93k:90064**
Voevudskiĭ, E. N. Stochastic optimisation of queueing system control. (English summary) (*see* **93d:90005**)
Wallace, Stein W. (*with* Wets, Roger J.-B.) Preprocessing in stochastic programming: the case of linear programs. (English summary)
Wang, Jin De *see* **Shi, Xiao Fa[2], 93j:90069**
Wang, Yuan[1] *see* **Fang, Kai Tai, 93e:90045**
Wets, Roger J.-B. *see* **Wallace, Stein W.**
Xu, Cheng Xian (*with* Chen, Zhi Ping) A dual gradient method for solving a class of two-stage stochastic programming problems with recourse. (Chinese)
Xu, H. H. *see* **Chung, S. L.; et al., 93c:90049**
Yakowitz, Diana An exact penalty algorithm for recourse-constrained stochastic linear programs. **93k:90065**
Yan, Di (*with* Mukai, H.) Stochastic discrete optimization. **93j:90072**
Yang, Jichuan *see* **Kushner, Harold J., 93a:90049**
Yastremskiĭ, A. I. On the dependence of the effectiveness of some stochastic systems on the degree of dispersion of random parameters. (Russian)
Zavriev, S. K. (*with* Perevozchikov, A. G.) A stochastic analogue of the method of feasible directions. (Russian) **93c:90054**
Žerovnik, Janez *see* **Ferreira, Afonso G., 93k:90061**
Zhang, Ke Bang (*with* Huang, Bing Zhang) A probabilistic objective model for probabilistic constrained programming and its solution. (Chinese. English and Chinese summaries)
Zheng, Quan[1] *see* **Tu, Renjin, 93k:90064**
Ziemba, W. T. *see* **Edirisinghe, N. C. P., 93i:90074**
Žilinskas, Antanas Statistical models of multi-extremal functions and the construction of global optimization algorithms. (Russian) (*see* **93k:90002**)

Items with secondary classifications in 90C15

Alcalá, A. *see* **Ardanuy Albájar, Ramón, 93j:93139**
Ardanuy Albájar, Ramón (*with* Alcalá, A.) Weak infinitesimal operators and stochastic differential games. (English summary) **93j:93139**
Barvinok, A. I. Statistical sums in optimization and computational problems. (Russian) **93f:90131**
Borkar, Vivek S. Pathwise recurrence orders and simulated annealing. **93d:60111**
Canning, David Average behavior in learning models. (English summary) **93i:90026**
Caron, R. J. (*with* Hlynka, M.; McDonald, James Frederick) On the best case performance of hit and run methods for detecting necessary constraints. **93d:65062**
Carraway, Robert L. (*with* Schmidt, Robert L.; Weatherford, Lawrence R.) An algorithm for maximizing target achievement in the stochastic knapsack problem with normal returns. (English summary)
Chakraborty, Tushar Kanti Single sampling LTPD plans as a stochastic programming problem. (English summary)
Charamza, Pavel Comparison of the stochastic approximation software. (English summary) **93k:90007**
Chou, Yün Hsiung (*with* Hsieh, Chung) On occupation times of annealing processes. **93m:60154**
Dantzig, George B. (*with* Infanger, Gerd) Large-scale stochastic linear programs—importance sampling and Benders decomposition. (English summary) (*see* **93j:00007**)
Dutta, Prajit K. What do discounted optima converge to? A theory of discount rate asymptotics in economic models. **93a:90077**
Dyer, Martin (*with* Frieze, A. M.) Probabilistic analysis of the generalised assignment problem. **93d:90042**
(Ermakov, S. M.) *see* **Zhiglyavskiĭ, A. A., 93i:90004**
(Ermol'ev, Yu. M.) *see* **Uryas'ev, S. P., 93b:90007**
Felten, Edward W. *see* **Martin, Olivier; et al.**
Fishman, George S. (*with* Rubin, David S.) Bounding the variance in Monte Carlo experiments. (English summary) **93f:90066**
Frieze, A. M. *see* **Dyer, Martin, 93d:90042**
Garkusha, N. I. Investigation of the adaptive properties of production-transportation systems by means of stochastic models. (Russian)
Hlynka, M. *see* **Caron, R. J.; et al., 93d:65062**
Hsieh, Chung *see* **Chou, Yün Hsiung, 93m:60154**
Huang, Ch'i Jui (*with* Sheu, Shuenn Jyi) Singular perturbed Markov chains and exact behaviors of simulated annealing processes. **93f:60101**
Infanger, Gerd *see* **Dantzig, George B., (93j:00007)**
Jayawardena, Thusitha *see* **Yakowitz, Sid; et al., 93j:90127**
Li, Shu *see* **Yakowitz, Sid; et al., 93j:90127**
Louveaux, François V. (*with* Peeters, D.) A dual-based procedure for stochastic facility location. (English summary) **93g:90044**
Marti, K. Stochastic optimization in structural design. **93h:73028**
Martin, Olivier (*with* Otto, Steve W.; Felten, Edward W.) Large-step Markov chains for the TSP incorporating local search heuristics. (English summary)
McDonald, James Frederick *see* **Caron, R. J.; et al., 93d:65062**
Mirzoakhmedov, F. ★ Математические модели и методы управления производством с учетом случайных факторов. (Russian) [Mathematical models and methods for production control taking random factors into account] **93c:90001**
Nakonechnyĭ, A. N. Extremal problems with rare events. II. The method of successive random approximations. (Russian. English and Ukrainian summaries) **93g:49021**
Otto, Steve W. *see* **Martin, Olivier; et al.**
Peeters, D. *see* **Louveaux, François V., 93g:90044**
Perevozchikov, A. G. *see* **Zavriev, S. K., 93m:93038**

Roubens, Marc (*with* Teghem, Jacques, Jr.) Comparison of methodologies for multicriteria feasibility—constrained fuzzy and multiple-objective stochastic linear programming. (*see* **93c:90002**)
Rubin, David S. *see* **Fishman, George S., 93f:90066**
Sakalauskas, L. L. On the convergence of a centering procedure. (Russian. English and Lithuanian summaries) **93b:65010**
Schmidt, Robert L. *see* **Carraway, Robert L.; et al.**
Sheu, Shuenn Jyi *see* **Huang, Ch'i Jui, 93f:60101**
Sierociński, Andrzej (*with* Zabczyk, Jerzy) On a packing problem. (*see* **93d:93009**)
Tamm, Ebu On statistical estimation of a probability function. (Russian and Estonian summaries)
Teghem, Jacques, Jr. *see* **Roubens, Marc, (93c:90002)**
Todd, Michael J. Probabilistic models for linear programming. **93a:90042**
Uryas'ev, S. P. ★ Адаптивные алгоритмы стохастической оптимизации и теории игр. (Russian) [Adaptive algorithms in stochastic optimization and game theory] **93b:90007**
Vogel, Silvia On stability in multiobjective programming—a stochastic approach. (English summary) **93j:90093**
Weatherford, Lawrence R. *see* **Carraway, Robert L.; et al.**
Yakowitz, Sid (*with* Jayawardena, Thusitha; Li, Shu) Theory for automatic learning under partially observed Markov-dependent noise. (English summary) **93j:90127**
Yazenin, A. V. Linear programming with random fuzzy data. (Russian) **93h:90107**
Zabczyk, Jerzy *see* **Sierociński, Andrzej, (93d:93009)**
Zavriev, S. K. (*with* Perevozchikov, A. G.) Stochastic generalized gradient methods in problems of the design of dynamical systems. (Russian. Russian summary) **93m:93038**
Zhiglyavskii, A. A. ★ Theory of global random search. **93i:90004**

90C20 Quadratic programming

Al-Sultan, K. S. (*with* Murty, Katta G.) Exterior point algorithms for nearest points and convex quadratic programs. (English summary) **93j:90073**
Bhatia, Davinder (*with* Pandey, Shashi) Subgradient duality and duality for multiobjective fractional programming involving invex functions. **93b:90058**
Boland, N. L. A dual-active-set algorithm for positive semi-definite quadratic programming. (English summary) **93g:90056**
Cha, Jian Zhong *see* **Fang, Yun; et al., (93d:90005)**
Charnes, Abraham (*with* Semple, John Hartley) Practical error bounds for a class of quadratic programming problems. (English, Russian and Lithuanian summaries) **93d:90048**
Chen, Dao Qi A new algorithm for ball-constrained quadratic minimization problems. (English summary) **93i:90076**
Chen, Ning *see* **Wang, Jia Song**
Choi, Gyunghyun *see* **Sherali, Hanif D., 93k:90068**
Dai, Zuo *see* **Fang, Yun; et al., (93d:90005)**
Dax, Achiya On minimum norm solutions. (English summary) **93k:90066**
Fang, Yun (*with* Zhou, Ji[1]; Wang, Jian Hua[4]; Cha, Jian Zhong; Dai, Zuo) The discrete recursive quadratic programming with artificial intelligence strategy. (English summary) (*see* **93d:90005**)
Forsgren, A. L. (*with* Gill, P. E.; Murray, Walter) On the identification of local minimizers in inertia-controlling methods for quadratic programming. **93c:90055**
Gabasov, R. F. (*with* Kirillova, F. M.; Kostina, E. A.) Global maximization of special classes of convex functions on a convex polyhedral set. (Russian. Russian summary) **93h:90069**
Gill, P. E. *see* **Forsgren, A. L.; et al., 93c:90055**
Gupta, Renu (*with* Puri, M. C.) Extreme point quadratic minimization problem. (English summary) **93m:90057**
Han, Chi-Geun *see* **Li, Wu; et al., 93j:90074**
He, Bing Sheng (*with* Stoer, Josef) Solution of projection problems over polytopes. **93b:90059**
Jaćimović, M. (*with* Krnić, I.; Potapov, M. M.) Lagrange multipliers method and quadratic programming in Hilbert space. (Serbo-Croatian summary) **93b:90060**
Jiang, N. *see* **Robinson, Alan G.; et al., 93e:90048**
Júdice, Joaquím J. (*with* Pires, F. M.) Numerical treatment of unconstrained variables in quadratic programs with side constraints. (Portuguese. English summary) **93b:90061**
Kirillova, F. M. *see* **Gabasov, R. F.; et al., 93h:90069**
Kostina, E. A. *see* **Gabasov, R. F.; et al., 93h:90069**
Krnić, I. *see* **Jaćimović, M.; et al., 93b:90060**
Lerme, C. S. *see* **Robinson, Alan G.; et al., 93e:90048**
Li, Wu (*with* Pardalos, Panos M.; Han, Chi-Geun) Gauss-Seidel method for least-distance problems. (English summary) **93j:90074**
Murray, Walter *see* **Forsgren, A. L.; et al., 93c:90055**
Murty, Katta G. *see* **Al-Sultan, K. S., 93j:90073**
Nemirovskii, A. S. *see* **Nesterov, Yu., 93b:90062**
Nesterov, Yu. (*with* Nemirovskii, A. S.) Acceleration and parallelization of the path-following interior point method for a linearly constrained convex quadratic problem. **93b:90062**
Pandey, Shashi *see* **Bhatia, Davinder, 93b:90058**
Pardalos, Panos M. *see* **Li, Wu; et al., 93j:90074**
Pesamosca, Giancarlo On the optimality conditions for the problem of minimizing a sum of Euclidean norms. (English summary) **93h:90070**
Pinar, Mustafa Ç. (*with* Zenios, Stavros A.) Parallel decomposition of multicommodity network flows using a linear-quadratic penalty algorithm. (English summary)
Pires, F. M. *see* **Júdice, Joaquím J., 93b:90061**
Potapov, M. M. *see* **Jaćimović, M.; et al., 93b:90060**
Puri, M. C. *see* **Gupta, Renu, 93m:90057**
Robinson, Alan G. (*with* Jiang, N.; Lerme, C. S.) On the continuous quadratic knapsack problem. **93e:90048**
Rosen, J. B. (*with* Xue, Guo Liang) A globally convergent algorithm for the Euclidean multiplicity location problem. (English summary) **93k:90067**
Semple, John Hartley *see* **Charnes, Abraham, 93d:90048**
Sherali, Hanif D. (*with* Choi, Gyunghyun) Finding the closest point to the origin in the convex hull of a discrete set of points. (English summary) **93k:90068**
Stoer, Josef *see* **He, Bing Sheng, 93b:90059**
Sukhinin, M. F. Minimization of quadratic functions. (Russian) (*see* **93m:35001**)
Takahashi, Toshihiko *see* **Yabe, Hiroshi, 93a:90051**
Vavasis, Stephen A. On approximation algorithms for concave quadratic programming. **93f:90124**
— Local minima for indefinite quadratic knapsack problems. **93f:90125**
— Approximation algorithms for indefinite quadratic programming. (English summary) **93i:90077**
Wang, Jia Song (*with* Chen, Ning) The l_∞ norm minimization solution to underdetermined systems of linear equations. (Chinese. English summary)
Wang, Jian Hua[4] *see* **Fang, Yun; et al., (93d:90005)**
Xue, Guo Liang *see* **Rosen, J. B., 93k:90067**
Yabe, Hiroshi (*with* Takahashi, Toshihiko) Numerical comparison among structured quasi-Newton methods for nonlinear least squares problems. **93a:90051**
Zenios, Stavros A. *see* **Pinar, Mustafa Ç.**
Zhang, Rou Lei *see* **Zhong, Wan Xie, (93a:41001)**
Zhao, Xi Nan A study on a method for solving quadratic programming problems. (Chinese. English and Chinese summaries)
Zhong, Wan Xie (*with* Zhang, Rou Lei) Nonlinear analysis by parametric quadratic programming method. (*see* **93a:41001**)
Zhou, Ji[1] *see* **Fang, Yun; et al., (93d:90005)**

Items with secondary classifications in 90C20

Al-Khayyal, Faiz A. (*with* Horst, Reiner; Pardalos, Panos M.) Global optimization of concave functions subject to quadratic constraints: an application in nonlinear bilevel programming. **93c:90072**
Ammar, Elsaid (*with* Metz, Joachim) On fuzzy convexity and parametric fuzzy optimization. (English summary)
Ben-Tal, A. (*with* Teboulle, Marc) Addenda: "A geometric property of the least squares solution of linear equations" [Linear Algebra Appl. **139** (1990), 165–170; MR 91h:15004]. **93k:15004**
Bodon, Elena *see* **Spedicato, Emilio, 93m:65055**
Burton, D. (*with* Toint, Ph. L.) On an instance of the inverse shortest paths problem. **93e:90063**
Bushnell, Michael L. *see* **Chakradhar, Srimat T., 93d:90041**
Calamai, Paul H. *see* **Vicente, Luis N.; et al., 93k:90088**
Canestrelli, Elio (*with* Giove, Silvio) Optimizing a quadratic function with fuzzy linear coefficients. (English, Russian and Polish summaries) **93h:90103**
Chadha, S. S. Optimization of a quadratic fractional function. (English summary)
Chakradhar, Srimat T. (*with* Bushnell, Michael L.) A solvable class of quadratic 0-1 programming. **93d:90041**
Chan, Tony F. C. (*with* Olkin, Julia A.; Cooley, Donald W.) Solving quadratically constrained least squares using black box solvers. (English summary) **93e:65091**
Cooley, Donald W. *see* **Chan, Tony F. C.; et al., 93e:65091**
Correira, António Dourado P. *see* **Monteiro, Paulo P., 93c:90038**
Crouzeix, Jean-Pierre (*with* Ferland, Jacques A.; Schaible, Siegfried) Generalized convexity on affine subspaces with an application to potential functions. (English summary) **93h:90055**
Dax, Achiya On regularized least norm problems. (English summary) **93k:65055**
Di Pillo, Gianni (*with* Facchinei, Francisco; Grippo, Luigi) An RQP algorithm using a differentiable exact penalty function for inequality constrained problems. **93c:90078**
Facchinei, Francisco *see* **Di Pillo, Gianni; et al., 93c:90078**
Ferland, Jacques A. *see* **Crouzeix, Jean-Pierre; et al., 93h:90055**
Frauendorfer, Karl On the value of perfect information and approximate solutions in convex stochastic two-stage optimization. (English summary) (*see* **93e:90003**)
Gao, Zi You *see* **He, Guo Ping**
Giove, Silvio *see* **Canestrelli, Elio, 93h:90103**
Grippo, Luigi *see* **Di Pillo, Gianni; et al., 93c:90078**
Gritzmann, Peter (*with* Klee, Victor) Deciding uniqueness in norm maximization. (English summary) **93i:90068**
Hadley, S. W. (*with* Rendl, Franz; Wolkowicz, Henry) A new lower bound via projection for the quadratic assignment problem. (English summary) **93i:90080**
He, Guo Ping (*with* Gao, Zi You) A parallel algorithm for a class of quadratic programming problems. (Chinese. English and Chinese summaries)
Heinkenschloss, Matthias Mesh independence for nonlinear least squares problems with norm constraints. (English summary) **93m:65082**
Hochbaum, Dorit S. (*with* Shamir, Ron; Shanthikumar, J. George) A polynomial algorithm for an integer quadratic nonseparable transportation problem. **93e:90041**
Horst, Reiner *see* **Al-Khayyal, Faiz A.; et al., 93c:90072**
Jha, Somesh *see* **Pardalos, Panos M., 93e:90042**
Júdice, Joaquím J. *see* **Vicente, Luis N.; et al., 93k:90088**
Kabe, D. G. On solving quadratically constrained linear programs. (English summary) **93g:90052**
Kamath, A. (*with* Karmarkar, Narendra) A continuous approach to compute upper bounds in quadratic maximization problems with integer constraints. **93b:90049**
Karmarkar, Narendra *see* **Kamath, A., 93b:90049**
Kettani, Ossama *see* **Oral, Muhittin, 93a:90047**
Klee, Victor *see* **Gritzmann, Peter, 93i:90068**
Konno, Hiroshi (*with* Suzuki, Ken-ichi) A fast algorithm for solving large-scale mean-variance models by compact factorization of covariance matrices. **93c:90014**
Li, Wu Remarks on convergence of the matrix splitting algorithm for the symmetric linear complementarity problem. (English summary) **93j:90118**
Metz, Joachim *see* **Ammar, Elsaid**
Michel, René (*with* Volle, Michel) On integral inequalities involving logconcave functions. (English summary) (*see* **93m:00044**)
Monteiro, Paulo P. (*with* Correira, António Dourado P.) Short-term production scheduling: a new and more efficient algorithm and its application to the pulp and paper industry. (English summary) **93c:90038**

Olkin, Julia A. *see* **Chan, Tony F. C.; et al., 93e:65091**
Oral, Muhittin (*with* Kettani, Ossama) A linearization procedure for quadratic and cubic mixed-integer problems. **93a:90047**
Pardalos, Panos M. (*with* Jha, Somesh) Complexity of uniqueness and local search in quadratic 0-1 programming. **93e:90042**
— *see also* **Al-Khayyal, Faiz A.; et al., 93c:90072**
Polak, Elijah *see* **Wiest, E. J., 93i:90092**
Rendl, Franz (*with* Wolkowicz, Henry) Applications of parametric programming and eigenvalue maximization to the quadratic assignment problem. **93c:90098**
— *see also* **Hadley, S. W.; et al., 93i:90080**
Renegar, James (*with* Shub, Michael) Unified complexity analysis for Newton LP methods. **93a:90038**
Schaible, Siegfried *see* **Crouzeix, Jean-Pierre; et al., 93h:90055**
Shamir, Ron *see* **Hochbaum, Dorit S.; et al., 93e:90041**
Shanthikumar, J. George *see* **Hochbaum, Dorit S.; et al., 93e:90041**
Shub, Michael *see* **Renegar, James, 93a:90038**
Spedicato, Emilio (*with* Bodon, Elena) Solution of linear least squares via the ABS algorithm. (English summary) **93m:65055**
Strekalovskiĭ, A. S. Search for the global maximum of a convex functional on an admissible set. (Russian. Russian summary) **93m:90081**
Suzuki, Ken-ichi *see* **Konno, Hiroshi, 93c:90014**
Teboulle, Marc *see* **Ben-Tal, A., 93k:15004**
Toint, Ph. L. *see* **Burton, D., 93e:90063**
Vicente, Luis N. (*with* Calamai, Paul H.; Júdice, Joaquim J.) Generation of disjointly constrained bilinear programming test problems. (English summary) **93k:90088**
Volle, Michel *see* **Michel, René, (93m:00044)**
Wei, Zeng Xin A new successive quadratic programming algorithm. (English summary) **93k:90089**
Wiest, E. J. (*with* Polak, Elijah) A generalized quadratic programming-based phase I–phase II method for inequality-constrained optimization. (English summary) **93i:90092**
Wolkowicz, Henry *see* **Rendl, Franz, 93c:90098** *and* **Hadley, S. W.; et al., 93i:90080**
Yatsenko, L. V. On a problem of parametric optimization of a function series. (Russian) **93c:94002**
Ye, Yinyu On affine scaling algorithms for nonconvex quadratic programming. (English summary) **93i:90094**

90C25 Convex programming

Alart, P. (*with* Lemaire, Bernard) Penalization in nonclassical convex programming via variational convergence. **93c:90056**
Andrus, J. F. An exterior point method for the convex programming problem. **93f:90126**
Antsiferov, E. G. (*with* Bulatov, V. P.) On polynomial methods in convex programming. (Russian) (*see* **93k:90002**)
Auslender, A. A. Asymptotic properties of the Fenchel dual functional and applications to decomposition problems. **93e:90049**
Bector, C. R. *see* **Rueda, Norma G.; et al., 93k:90073**
Berezovskiĭ, O. A. *see* **Shor, N. Z., 93m:90060**
Bertsekas, Dimitri P. *see* **Eckstein, Jonathan, 93c:90057**
Boyer, Robert Méthode F.A.C. pour un problème de type "obstacle". (English and French summaries) [An FAC method for an "obstacle" problem] **93g:90057**
Bulatov, V. P. *see* **Antsiferov, E. G., (93k:90002)**
Censor, Yair (*with* Zenios, Stavros A.) Proximal minimization algorithm with D-functions. **93g:90058**
Conn, Andrew R. (*with* Gould, N. I. M.; Sartenaer, A.; Toint, Ph. L.) Global convergence of a class of trust region algorithms for optimization using inexact projections on convex constraints. (English summary) **93k:90069**
Crouzeix, Jean-Pierre (*with* Kebbour, R.) Index multiplicatifs de convexité/concavité et applications. (English and French summaries) [Multiplicative convexity/concavity indices and applications] **93k:90070**
Csirik, János (*with* Kellerer, Hans[2]; Woeginger, Gerhard J.) The exact LPT-bound for maximizing the minimum completion time. (English summary) **93f:90127**
Danao, R. A. Some properties of explicitly quasiconcave functions. (English summary) **93h:90073**
Dietze, S. *see* **Schmidt, Jochen W., 93j:90078**
Eckstein, Jonathan (*with* Bertsekas, Dimitri P.) On the Douglas-Rachford splitting method and the proximal point algorithm for maximal monotone operators. **93c:90057**
Fabella, Raul V. Quasi-concave (composition) functions with nonconcave argument functions. **93d:90049**
Facchinei, Francisco (*with* Lucidi, Stefano) Nonmonotone bundle-type scheme for convex nonsmooth minimization. (English summary) **93m:90058**
Ferris, Michael C. (*with* Mangasarian, O. L.) Minimum principle sufficiency. **93c:90058**
Flåm, Sjur D. (*with* Zowe, Jochem) A primal-dual differential method for convex programming. **93k:90071**
— Solving convex programs by means of ordinary differential equations. **93j:90075**
Golin, Mordecai J. Maxima in convex regions. (English summary) **93m:90059**
Gould, N. I. M. *see* **Conn, Andrew R.; et al., 93k:90069**
Güler, Osman New proximal point algorithms for convex minimization. (English summary) **93j:90076**
Han, Chi-Geun *see* **Pardalos, Panos M.; et al., (93k:90002)**
den Hertog, D. (*with* Roos, C.; Terlaky, Tamás) On the classical logarithmic barrier function method for a class of smooth convex programming problems. **93b:90063**
Jarre, Florian Interior-point methods for convex programming. (English summary) **93h:90071**
Jeyakumar, V. Infinite-dimensional convex programming with applications to constrained approximation. (English summary) **93i:90078**
Kalantari, Bahman Generalization of Karmarkar's algorithm to convex homogeneous functions. **93b:90064**
Kebbour, R. *see* **Crouzeix, Jean-Pierre, 93k:90070**
Kellerer, Hans[2] *see* **Csirik, János; et al., 93f:90127**
Konno, Hiroshi *see* **Kuno, Takahito; et al., 93k:90072**
Konnov, I. V. Properties of support and quasisupport vectors. (Russian) **93c:90059**
Kuno, Takahito (*with* Konno, Hiroshi; Yamamoto, Yoshitsugu) A parametric successive underestimation method for convex programming problems with an additional convex multiplicative constraint. (English summary) **93k:90072**
Lemaire, Bernard *see* **Alart, P., 93c:90056**
Lucidi, Stefano *see* **Facchinei, Francisco, 93m:90058**
Maksimova, G. A. (*with* Tret'yakov, A. A.) Properties of regular problems of mathematical programming. (Russian) **93b:90065**
Mangasarian, O. L. *see* **Ferris, Michael C., 93c:90058**
Mouallif, Khalil (*with* Nguyen, Van Hien; Strodiot, Jean-Jacques) A perturbed parallel decomposition method for a class of nonsmooth convex minimization problems. **93b:90066**
Namm, R. V. On reducing the dimension of auxiliary problems in the method of feasible directions. (Russian. Russian summary) (*see* **93d:00029**)
Nanda, Sudarsan Generalized convexity in mathematical programming. (English summary) **93f:90128**
Nguyen, Van Hien *see* **Mouallif, Khalil; et al., 93b:90066**
Nurminskiĭ, E. A. Toward Newton method in nondifferentiable optimization. **93e:90050**
Pardalos, Panos M. (*with* Ye, Yinyu; Han, Chi-Geun) Interior point algorithms in quadratic programming. (Russian) (*see* **93k:90002**)
Preda, Vasile On generalized convexity and duality with a square root term. (English summary) **93j:90077**
Qi, Li Qun *see* **Sun, Jie, 93k:90074**
Roos, C. *see* **den Hertog, D.; et al., 93b:90063**
Rothblum, Uriel G. Linear inequality scaling problems. (English summary) **93g:90059**
Rueda, Norma G. (*with* Singh, Chanchal; Bector, C. R.) Further properties of b-vex functions. (English summary) **93k:90073**
Sartenaer, A. *see* **Conn, Andrew R.; et al., 93k:90069**
Schmidt, Jochen W. (*with* Dietze, S.) Unconstrained duals to partially separable constrained programs. (English summary) **93j:90078**
Scott, Carlton H. (*with* Tang, Christopher S.) Separable convex programs with ratio constraints over a directed tree. (English summary) **93g:90060**
Shor, N. Z. (*with* Berezovskiĭ, O. A.) Construction of an ellipsoid of maximum volume inscribed in a polyhedron using sequential space dilatation. (Russian. Russian summary) **93m:90060**
Simons, Stephen Convex functions on superconvex spaces. **93f:90129**
Singh, Chanchal *see* **Rueda, Norma G.; et al., 93k:90073**
Strodiot, Jean-Jacques *see* **Mouallif, Khalil; et al., 93b:90066**
Sun, Jie (*with* Qi, Li Qun) An interior point algorithm of $O(\sqrt{m}|\ln\varepsilon|)$ iterations for C^1-convex programming. (English summary) **93k:90074**
Šverák, Vladimír New examples of quasiconvex functions. **93h:90072**
Tang, Christopher S. *see* **Scott, Carlton H., 93g:90060**
Teboulle, Marc Entropic proximal mappings with applications to nonlinear programming. (English summary) **93h:90074**
Terlaky, Tamás *see* **den Hertog, D.; et al., 93b:90063**
Toint, Ph. L. *see* **Conn, Andrew R.; et al., 93k:90069**
Tong, Heng Qing An evaluation model and its iterative solution procedure. (Chinese. English and Chinese summaries)
Tret'yakov, A. A. *see* **Maksimova, G. A., 93b:90065**
Voznyuk, I. S. A linear differential game with retarded argument in the control actions. (Russian. Russian summary) (*see* **93b:90010**)
Watson, G. A. Algorithms for minimum trace factor analysis. (English summary) **93h:90075**
Woeginger, Gerhard J. *see* **Csirik, János; et al., 93f:90127**
Yamamoto, Yoshitsugu *see* **Kuno, Takahito; et al., 93k:90072**
Ye, Yinyu *see* **Pardalos, Panos M.; et al., (93k:90002)**
Yokoyama, Kazunori ε-optimality criteria for convex programming problems via exact penalty functions. (English summary) **93g:90061**
Zenios, Stavros A. *see* **Censor, Yair, 93g:90058**
Zowe, Jochem *see* **Flåm, Sjur D., 93k:90071**

Items with secondary classifications in 90C25

Andramonov, M. Yu. (*with* Zabotin, Ya. I.) On the reduction of a quasiconvex programming problem to an unconditional minimization problem by the conic projection method. (Russian) **93j:90094**
Angleraud, Patrice Caractérisation duale du bon comportement de fonctions convexes. (English summary) [Dual characterization of good behavior for convex functions] **93c:49023**
Astaf'ev, N. N. ★ Бесконечные системы линейных неравенств в математическом программировании. (Russian) [Infinite systems of linear inequalities in mathematical programming] **93b:90002**
Borwein, Jonathan (*with* Lewis, Adrian S.) Partially finite convex programming. I. Quasi relative interiors and duality theory. **93e:90069a**
— (*with* Lewis, Adrian S.) Partially finite convex programming. II. Explicit lattice models. **93e:90069b**
Burton, D. (*with* Toint, Ph. L.) On an instance of the inverse shortest paths problem. **93e:90063**
Cegielski, Andrzej A subgradient projection method in matrix games. (English summary)
Cho, Seong-Cheol (*with* Kim, Sehun) Average shadow prices in mathematical programming. **93b:49039**
Choi, Gyunghyun *see* **Sherali, Hanif D., 93k:90068**
Fang, S. C. An unconstrained convex programming view of linear programming. **93e:90034**
— *see also* **Rajasekera, J. R., 93k:90049**
Federgruen, Awi (*with* Queyranne, Maurice; Zheng, Yu-Sheng) Simple power-of-two policies are close to optimal in a general class of production/distribution networks with general joint setup costs. (English summary) **93j:90045**
Greiner, H. An algorithm for linearly constrained programs with a partly linear objective function. **93b:90082**
Haussmann, U. G. A probabilistic approach to the generalized Hessian. **93e:49024**

He, Bing Sheng A projection and contraction method for a class of linear complementarity problems and its application in convex quadratic programming. **93c:90090**
— (*with* Stoer, Josef) Solution of projection problems over polytopes. **93b:90059**
Hussein, Mohammad L. On convex vector optimization problems with possibilistic weights. (English summary) **93k:90103**
Jeyakumar, V. (*with* Wolkowicz, Henry) Generalizations of Slater's constraint qualification for infinite convex programs. **93e:90070**
Jiang, N. *see* **Robinson, Alan G.; et al., 93e:90048**
Kaminer, Isaac (*with* Khargonekar, Pramod P.; Rotea, Mario A.) Mixed $\mathscr{H}_2/\mathscr{H}_\infty$ control for discrete-time systems via convex optimization. (English summary) **93j:93043**
Khargonekar, Pramod P. *see* **Kaminer, Isaac; et al., 93j:93043**
Kim, Sehun *see* **Cho, Seong-Cheol, 93b:49039**
Kou, Shu Shun Some remarks on the linear complementarity problem and convex quadratic programming. (Chinese. English and Chinese summaries)
Lay, Steven R. ★ Convex sets and their applications. **93g:52001**
Lerme, C. S. *see* **Robinson, Alan G.; et al., 93e:90048**
Lewis, Adrian S. *see* **Borwein, Jonathan, 93e:90069a** *and* **93e:90069b**
Li, Shi Zheng A separation theorem for convex sets in complete vector lattices. (Chinese) **93e:52018**
— Characterizations of proper efficient solutions in terms of saddle points and duality. (English summary) **93j:90089**
Newman, Donald J. (*with* Primak, M. E.) Complexity of circumscribed and inscribed ellipsoid methods for solving equilibrium economical models. (English summary) **93j:90021**
Paeck, S. Convexlike and concavelike conditions in alternative, minimax, and minimization theorems. **93g:90068**
Pai, D. V. *see* **Shunmugaraj, P., 93e:49042**
Primak, M. E. *see* **Newman, Donald J., 93j:90021**
Queyranne, Maurice *see* **Federgruen, Awi; et al., 93j:90045**
Rajasekera, J. R. (*with* Fang, S. C.) Deriving an unconstrained convex program for linear programming. (English summary) **93k:90049**
Robinson, Alan G. (*with* Jiang, N.; Lerme, C. S.) On the continuous quadratic knapsack problem. **93e:90048**
Robinson, Stephen M. Bundle-based decomposition: conditions for convergence. (English summary) (*see* **93h:49003**)
Rotea, Mario A. *see* **Kaminer, Isaac; et al., 93j:93043**
Seeger, Alberto Limiting behavior of the approximate second-order subdifferential of a convex function. (English summary) **93h:49029**
Sherali, Hanif D. (*with* Choi, Gyunghyun) Finding the closest point to the origin in the convex hull of a discrete set of points. (English summary) **93k:90068**
Shunmugaraj, P. (*with* Pai, D. V.) On stability of approximate solutions of minimization problems. **93e:49042**
Stoer, Josef A dual algorithm for solving degenerate linearly constrained linear least squares problems. (English summary) **93i:65066**
— *see also* **He, Bing Sheng, 93b:90059**
Toint, Ph. L. *see* **Burton, D., 93e:90063**
Wolkowicz, Henry *see* **Jeyakumar, V., 93e:90070**
Zabotin, Ya. I. *see* **Andramonov, M. Yu., 93j:90094**
Zheng, Yu-Sheng *see* **Federgruen, Awi; et al., 93j:90045**
Zlobec, Sanjo Characterizing optimality in nonconvex optimization. **93k:90092**
— Addendum: "Characterizing optimality in nonconvex optimization" [Yugosl. J. Oper. Res. **1** (1991), no. 1, 3–14; MR 93k:90092]. (English summary) **93k:90093**

90C26 Nonconvex programming, quasiconvex programming

Benson, Harold P. A finite, nonadjacent extreme-point search algorithm for optimization over the efficient set. **93a:90052**
Danninger, G. Role of copositivity in optimality criteria for nonconvex optimization problems. (English summary) **93j:90079**
Elqortobi, Abdelkader Inf-convolution quasi-convexe des fonctionnelles positives. (English and French summaries) [Quasiconvex inf-convolution of positive functionals] **93j:90080**
First, Z. (*with* Hackman, S. T.; Passy, U.) Local-global properties of bifunctions. **93c:90060**
Hackman, S. T. *see* **First, Z.; et al., 93c:90060**
Konno, Hiroshi (*with* Kuno, Takahito) Linear multiplicative programming. (English summary) **93e:90051**
Kuno, Takahito *see* **Konno, Hiroshi, 93e:90051**
Lin, Shin Yeu Complete decomposition algorithm for nonconvex separable optimization problems and applications. (English summary) **93i:90079**
Passy, U. *see* **First, Z.; et al., 93c:90060**
Shi, Guang Yan Minimizing a concave function with a reverse convex constraint. (Chinese. English summary) **93b:90067**
Sun, Qing Ying *see* **Zhao, Fu An; et al., 93k:90075**
Zhao, Fu An (*with* Zhou, Hou Chun; Zhou, Guang Lu; Sun, Qing Ying) The Kuhn-Tucker sufficient conditions for a class of nonsmooth programming problems. (Chinese. English and Chinese summaries) **93k:90075**
Zhou, Guang Lu *see* **Zhao, Fu An; et al., 93k:90075**
Zhou, Hou Chun *see* **Zhao, Fu An; et al., 93k:90075**

Items with secondary classifications in 90C26

Calamai, Paul H. *see* **Vicente, Luis N.; et al., 93k:90088**
Crouzeix, Jean-Pierre (*with* Kebbour, R.) Index multiplicatifs de convexité/concavité et applications. (English and French summaries) [Multiplicative convexity/concavity indices and applications] **93k:90070**
Friedlander, A. (*with* Martínez, José Mario) New algorithmns for maximization of concave functions with box constraints. (English and French summaries) **93i:90089**
Grebennik, I. V. *see* **Yakovlev, S. V., 93f:90139**
Gupta, Renu (*with* Puri, M. C.) Extreme point quadratic minimization problem. (English summary) **93m:90057**
Hassouni, A. Quasimonotone multifunctions; applications to optimality conditions in quasiconvex programming. (English summary) **93j:49016**
Jeyakumar, V. (*with* Mond, B.) On generalised convex mathematical programming. **93d:90056**
Júdice, Joaquím J. *see* **Vicente, Luis N.; et al., 93k:90088**
Kebbour, R. *see* **Crouzeix, Jean-Pierre, 93k:90070**
Marino, Giuseppe (*with* Pietramala, Paolamaria; Trombetta, Giulio) Convergence of approximating fixed point sets. (Italian summary) **93b:47121**
Martínez, José Mario *see* **Friedlander, A., 93i:90089**
Mond, B. *see* **Jeyakumar, V., 93d:90056**
Pan, Ping Qi New ODE methods for equality constrained optimization. I. Equations. **93c:90081**
— New ODE methods for equality constrained optimization. II. Algorithms. **93c:90082**
Pietramala, Paolamaria *see* **Marino, Giuseppe; et al., 93b:47121**
Puri, M. C. *see* **Gupta, Renu, 93m:90057**
Trombetta, Giulio *see* **Marino, Giuseppe; et al., 93b:47121**
Vavasis, Stephen A. Approximation algorithms for indefinite quadratic programming. (English summary) **93i:90077**
Vicente, Luis N. (*with* Calamai, Paul H.; Júdice, Joaquím J.) Generation of disjointly constrained bilinear programming test problems. (English summary) **93k:90088**
Ward, D. E. A constraint qualification in quasidifferentiable programming. **93b:90091**
White, Douglas John A linear programming approach to solving bilinear programmes. (English summary) **93f:90162**
Yakovlev, S. V. (*with* Grebennik, I. V.) Some classes of optimization problems on a set of arrangements and their properties. (Russian) **93f:90139**

90C27 Combinatorial optimization

Aghezzaf, El Houssaine (*with* Wolsey, Laurence A.) Lot-sizing polyhedra with a cardinality constraint. **93b:90068**
Alekseev, A. O. (*with* Alekseev, O. G.; Kulagin, O. A.) An experimental estimate for the efficiency of an algorithm for solving the minimax traveling salesman problem. (Russian)
Alekseev, O. G. *see* **Alekseev, A. O.; et al.**
Alliney, S. A note on the greedy algorithm. (Italian summary) **93m:90061**
Armstrong, Ronald D. (*with* Jin, Zhiying) Solving linear bottleneck assignment problems via strong spanning trees. (English summary) **93f:90130**
Barvinok, A. I. Statistical sums in optimization and computational problems. (Russian) **93f:90131**
Baxter, Laurence A. (*with* Harche, Farid) Note: on the greedy algorithm for optimal assembly. (English summary) **93f:90132**
Bentley, Jon Louis Fast algorithms for geometric traveling salesman problems. (English summary) **93g:90062**
Bianco, Lucio (*with* Mingozzi, Aristide; Ricciardelli, Salvatore) The traveling salesman problem with cumulative costs. (English summary) **93j:90081**
Bondarenko, V. A. Estimates for the complexity of combinatorial optimization problems in a class of algorithms. (Russian)
Brăsel, H. (*with* Kleinau, M.) On number problems for the open shop problem. (English summary) (*see* **93e:90003**)
Burkov, V. N. (*with* Rubinshtein, M. I.) Combinatorial methods for solving problems of optimal portional resource distribution.
Camerini, P. M. (*with* Trubian, M.) Polymatroids: construction and random algorithms. **93b:90069**
— (*with* Galbiati, G.; Maffioli, F.) The image of weighted combinatorial problems. **93b:90070**
Carraway, Robert L. (*with* Schmidt, Robert L.; Weatherford, Lawrence R.) An algorithm for maximizing target achievement in the stochastic knapsack problem with normal returns. (English summary)
Chandru, Vijaya (*with* Rajan, V. T.; Swaminathan, R.) Monotone pieces of chains. (English summary)
Ching, Yu Tai *see* **Ko, M. T., 93m:90062**
Conforti, Michele (*with* Rao, M. R.) Properties of balanced and perfect matrices. **93g:90063**
Cvetković, Dragoš (*with* Milosavljević, Milan; Dimitrijević, Vladimir) An algorithm for M asymmetric travelling salesman problem on a bandwidth-limited graph. **93b:90071**
Dimitrijević, Vladimir *see* **Cvetković, Dragoš; et al., 93b:90071**
El-Gindy, Hossam (*with* Keil, J. Mark) Efficient algorithms for the capacitated 1-median problem. (English summary)
Felten, Edward W. *see* **Martin, Olivier; et al.**
Fogel, David B. Applying evolutionary programming to selected traveling salesman problems. (English summary)
Fuentes, Olac *see* **Kreinovich, V. Ya.; et al., 93m:90063**
Fukao, Takeshi (*with* Harada, Tetsuya; Wu, Jijun) Continuous modelling of discrete optimization problems. (English summary) (*see* **93e:90003**)
Gabow, Harold N. (*with* Westermann, Herbert H.) Forests, frames, and games: algorithms for matroid sums and applications. **93f:90133**
Galbiati, G. *see* **Camerini, P. M.; et al., 93b:90070**
Gimadi, È. Kh. (*with* Maksishko, N. K.) Justification of conditions for the asymptotic exactness of an approximate algorithm for solving the traveling salesman problem on a maximum in the case of a discrete distribution. (Russian) **93c:90061**
Grebennik, I. V. *see* **Yakovlev, S. V., 93f:90139**
Greening, Daniel R. Asynchronous parallel simulated annealing. (English summary) (*see* **93h:68003**)
de Groot, C. *see* **Peikert, R.; et al., (93e:90003)**
Grötschel, Martin (*with* Monma, Clyde L.; Stoer, Mechthild) Facets for polyhedra arising in the design of communication networks with low-connectivity constraints. **93f:90134**
Gustfield, Dan (*with* Martel, Charles) A fast algorithm for the generalized parametric minimum cut problem and applications. **93b:90072**
Hadley, S. W. (*with* Rendl, Franz; Wolkowicz, Henry) Symmetrization of nonsymmetric quadratic assignment problems and the Hoffman-Wielandt inequality. **93d:90050**

— (*with* Rendl, Franz; Wolkowicz, Henry) A new lower bound via projection for the quadratic assignment problem. (English summary) **93i:90080**
Han, Anthony Fu Wha (*with* Hwang, Ming Chorng) Location-search-based heuristic methods for set covering problems. (English summary) (*see* **93d:90005**)
Harada, Tetsuya *see* **Fukao, Takeshi; et al., (93e:90003)**
Harche, Farid *see* **Baxter, Laurence A., 93f:90132**
He, Yong *see* **Yao, En Yu; et al., (93d:90005)**
Hérault, Laurent (*with* Niez, Jean-Jacques) Neural networks & combinatorial optimization: a study of NP-complete graph problems. (English summary) (*see* **93i:68010**)
Hoffman, A. J. On simple combinatorial optimization problems. (English summary) **93d:90051**
Hum, Sin Hoon (*with* Leong, Thin Yin) A weighted graph partitioning problem with side constraints. (English summary) (*see* **93d:90005**)
Husban, Ahmad The multi-centre travelling salesmen problem. (English and Arabic summaries)
Hwang, Ming Chorng *see* **Han, Anthony Fu Wha, (93d:90005)**
Imai, Hiroshi (*with* Lee, Der Tsai; Yang, Chung-Do) 1-segment center problems. (English summary)
Jaillet, Patrick Rates of convergence for quasi-additive smooth Euclidean functionals and application to combinatorial optimization problems. (English summary) **93k:90076**
Jendo, Stefan (*with* Paczkowski, Witold M.) Multicriterion discrete optimization of large scale frame structures. (English summary) (*see* **93d:90005**)
Jin, Zhiying *see* **Armstrong, Ronald D., 93f:90130**
Johnson, Ellis L. (*with* Nemhauser, George L.) Recent developments in integer programming. (English summary) (*see* **93d:90005**)
Jünger, Michael (*with* Reinelt, Gerhard) Schnittebenenverfahren in der kombinatorischen Optimierung. (German summary) [A cutting plane method in combinatorial optimization]
Kasugai, Hiroshi *see* **Kubo, Mikio, 93j:90082**
Keil, J. Mark *see* **El-Gindy, Hossam**
Kleinau, M. *see* **Brüsel, H., (93e:90003)**
Knuth, Donald E. (*with* Raghunathan, Arvind) The problem of compatible representatives. **93h:90076**
Ko, M. T. (*with* Ching, Yu Tai) Linear time algorithms for the weighted tailored 2-partition problem and the weighted 2-center problem under l_∞-distance. (English summary) **93m:90062**
Koutsoupias, Elias (*with* Papadimitriou, Christos H.; Sideri, Martha) On the optimal bisection of a polygon. (English summary)
Kovalëv, M. M. *see* **Vorob'ev, M. A.**
Kovalëv, M. Ya. Minimization of the weighted sum of delayed customers when one server is employed. (Russian) **93c:90062**
Kreinovich, V. Ya. (*with* Quintana, Chris; Fuentes, Olac) Genetic algorithms: what fitness scaling is optimal? (English summary) **93m:90063**
Kubo, Mikio (*with* Kasugai, Hiroshi) On symmetric subtour problems. (English summary) **93j:90082**
Kulagin, O. A. *see* **Alekseev, A. O.; et al.**
Lee, Der Tsai *see* **Imai, Hiroshi; et al.**
Leong, Thin Yin *see* **Hum, Sin Hoon, (93d:90005)**
Li, Guo Jie *see* **Yao, Xin**
Li, Rong Heng *see* **Yao, En Yu; et al., (93d:90005)**
Li, Xue Liang A proof of Balinski and Russakoff's conjecture on connectivity of assignment polytopes. (Chinese) **93b:90073**
Libura, Marek Sensitivity analysis for minimum weight base of a matroid. (English, Russian and Polish summaries) **93m:90064**
Maffioli, F. *see* **Camerini, P. M.; et al., 93b:90070**
Maksishko, N. K. *see* **Gimadi, È. Kh., 93c:90061**
Martel, Charles *see* **Gustfield, Dan, 93b:90072**
Martin, Olivier (*with* Otto, Steve W.; Felten, Edward W.) Large-step Markov chains for the TSP incorporating local search heuristics. (English summary)
Miller, D. L. *see* **Pekny, J. F., 93c:90064**
Milosavljević, Milan *see* **Cvetković, Dragoš; et al., 93b:90071**
Mingozzi, Aristide *see* **Bianco, Lucio; et al., 93j:90081**
Mitchell, John E. (*with* Todd, Michael J.) Solving combinatorial optimization problems using Karmarkar's algorithm. (English summary) **93i:90081**
Monagan, M. *see* **Peikert, R.; et al., (93e:90003)**
Monma, Clyde L. *see* **Grötschel, Martin; et al., 93f:90134**
Murthy, Ishwar Solving the multiperiod assignment problem with start-up costs using dual ascent. (English summary) **93i:90082**
Nemhauser, George L. *see* **Johnson, Ellis L., (93d:90005)**
Nicoloso, Sara (*with* Nobili, Paolo) A set covering formulation of the matrix equipartition problem. (English summary) (*see* **93e:90003**)
Niez, Jean-Jacques *see* **Hérault, Laurent, (93i:68010)**
Nobili, Paolo *see* **Nicoloso, Sara, (93e:90003)**
Otto, Steve W. *see* **Martin, Olivier; et al.**
Paczkowski, Witold M. Discrete optimization program based on the ortho-diagonal method. (English summary) (*see* **93d:90005**)
— *see also* **Jendo, Stefan, (93d:90005)**
Papadimitriou, Christos H. The complexity of the Lin-Kernighan heuristic for the traveling salesman problem. **93c:90063**
— *see also* **Koutsoupias, Elias; et al.**
Parshin, O. V. *see* **Stoyan, Yu. G.; et al., 93b:90075**
Peikert, R. (*with* Würtz, D.; Monagan, M.; de Groot, C.) Packing circles in a square: a review and new results. (*see* **93e:90003**)
Pekny, J. F. (*with* Miller, D. L.) A parallel branch and bound algorithm for solving large asymmetric traveling salesman problems. **93c:90064**
Pilcher, Martha G. (*with* Rardin, Ronald L.) Partial polyhedral description and generation of discrete optimization problems with known optima. (English summary) **93d:90052**
Pisaruk, N. N. Faces of submodular functions. (Russian. Russian summary) **93m:90065**
Plotkin, Serge A. (*with* Shmoys, David B.; Tardos, Éva) Fast approximation algorithms for fractional packing and covering problems. (English summary) **93j:90083**
Punnen, Abraham P. Traveling salesman problem under categorization. (English summary) **93f:90135**
Queyranne, Maurice (*with* Wang, Yaoguang) On the convex hull of feasible solutions to certain combinatorial problems. **93f:90136**
Quintana, Chris *see* **Kreinovich, V. Ya.; et al., 93m:90063**
Raghunathan, Arvind *see* **Knuth, Donald E., 93h:90076**
Rajan, V. T. *see* **Chandru, Vijaya; et al.**
Ramani, K. V. Graphics software for teaching optimization algorithms. (English summary) (*see* **93d:90005**)
Rao, M. R. *see* **Conforti, Michele, 93g:90063**
Rardin, Ronald L. (*with* Sudit, Moises) Paroids: a canonical format for combinatorial optimization. (English summary) **93h:90077**
— *see also* **Pilcher, Martha G., 93d:90052**
Reinelt, Gerhard *see* **Jünger, Michael**
Rendl, Franz *see* **Hadley, S. W.; et al., 93d:90050** *and* **93i:90080**
Rhee, WanSoo T. On the travelling salesperson problem in many dimensions. **93d:90053**
Ricciardelli, Salvatore *see* **Bianco, Lucio; et al., 93j:90081**
Rivin, Igor (*with* Zabih, Ramin) A dynamic programming solution to the n-queens problem. **93a:90053**
Rothblum, Uriel G. Characterization of stable matchings as extreme points of a polytope. **93c:90065**
Rubinshtein, M. I. *see* **Burkov, V. N.**
Schmidt, Robert L. *see* **Carraway, Robert L.; et al.**
Serdyukov, A. I. Extremal problems on permutations for special classes of matrices. (Russian) **93c:90066**
— Asymptotic properties of optimal solutions of extremal permutation problems in finite-dimensional normed spaces. (Russian. Russian summary) **93e:90052**
Shmoys, David B. *see* **Plotkin, Serge A.; et al., 93j:90083**
Sideri, Martha *see* **Koutsoupias, Elias; et al.**
Smirnov, A. V. On the problem of packing in containers. (Russian) **93b:90074**
Snyder, Timothy Law Worst-case minimum rectilinear Steiner trees in all dimensions. **93c:90067**
Sorkin, Gregory B. Simulated annealing on fractals: theoretical analysis and relevance for combinatorial optimization. **93f:90137**
Stoer, Mechthild *see* **Grötschel, Martin; et al., 93f:90134**
Stoyan, Yu. G. (*with* Yakovlev, S. V.; Parshin, O. V.) Quadratic optimization on combinatorial sets in $\mathbf{R}^n$. (Russian. English and Ukrainian summaries) **93b:90075**
— (*with* Yakovlev, S. V.) Original methods of optimization on combinatorial sets. (*see* **93d:90005**)
Sudit, Moises *see* **Rardin, Ronald L., 93h:90077**
Swaminathan, R. *see* **Chandru, Vijaya; et al.**
Tardos, Éva *see* **Plotkin, Serge A.; et al., 93j:90083**
Taudes, Alfred Optimal and adaptive communication strategies in distributed decision tree algorithms. (*see* **93a:41001**)
Todd, Michael J. *see* **Mitchell, John E., 93i:90081**
Trubian, M. *see* **Camerini, P. M., 93b:90069**
Vorob'ev, M. A. (*with* Kovalëv, M. M.) The Dantzig-Wolfe decomposition method for problems with polymatroid constraints. (Russian. English and Russian summaries)
Walker, John A hybrid approach to the multiple-choice knapsack problem. (English summary) (*see* **93d:90005**)
Wang, Yaoguang *see* **Queyranne, Maurice, 93f:90136**
Weatherford, Lawrence R. *see* **Carraway, Robert L.; et al.**
Westermann, Herbert H. *see* **Gabow, Harold N., 93f:90133**
White, Douglas John A parametric-based heuristic program for the quadratic assignment problem. (English summary) **93m:90066**
Williamson, David P. Analysis of the Held-Karp lower bound for the asymmetric TSP. (English summary) **93f:90138**
Wolkowicz, Henry *see* **Hadley, S. W.; et al., 93d:90050** *and* **93i:90080**
Wolsey, Laurence A. *see* **Aghezzaf, El Houssaine, 93b:90068**
Wu, Jijun *see* **Fukao, Takeshi; et al., (93e:90003)**
Würtz, D. *see* **Peikert, R.; et al., (93e:90003)**
Xu, Jiu Ping The optimal order method of double basic points of multiple attribute evaluation. (English summary) (*see* **93d:90005**)
Yakovlev, S. V. (*with* Grebennik, I. V.) Some classes of optimization problems on a set of arrangements and their properties. (Russian) **93f:90139**
— *see also* **Stoyan, Yu. G.; et al., 93b:90075** *and* **(93d:90005)**
Yang, Chung-Do *see* **Imai, Hiroshi; et al.**
Yannakakis, Mihalis Expressing combinatorial optimization problems by linear programs. **93a:90054**
Yao, En Yu (*with* Li, Rong Heng; He, Yong) New progress on optimal partitioning problems. (English summary) (*see* **93d:90005**)
Yao, Xin (*with* Li, Guo Jie) General simulated annealing.
Yue, Min Yi A simple proof of the inequality $\mathrm{FFD}(L) \le \frac{11}{9}\mathrm{OPT}(L) + 1$, $\forall L$ for the FFD bin-packing algorithm. **93b:90076**
Zabih, Ramin *see* **Rivin, Igor, 93a:90053**
Zabudskiĭ, G. G. On an integer formulation of a problem on the arrangement of objects on a line. (Russian) **93d:90054**
Zhuang, Jian Qiu A simulating algorithm for the traveling salesman problem. (Chinese. English summary)

Items with secondary classifications in 90C27

Aibara, Tsunehiro *see* **Izumida, Masanori; et al., 93i:92006**
Anisimov, E. G. *see* **Anisimov, V. G.**
Anisimov, V. G. (*with* Anisimov, E. G.) A branch and bound algorithm for a class of problems in scheduling theory. (Russian. Russian summary)
Avram, Florin (*with* Bertsimas, Dimitris J.) The minimum spanning tree constant in geometrical probability and under the independent model: a unified approach. **93b:60027**
Barahona, Francisco Separating from the dominant of the spanning tree polytope. (English summary) **93i:90100**
Bertsimas, Dimitris J. *see* **Avram, Florin, 93b:60027**

Boe, Warren J. *see* **Cheng, Chun Hung; et al., 93d:90029**

Bollobás, Béla (*with* Meir, Amram) A travelling salesman problem in the k-dimensional unit cube. **93c:90046**

Boros, Endre (*with* Crama, Y.; Hammer, Peter L.) Chvátal cuts and odd cycle inequalities in quadratic 0-1 optimization. **93a:90043**

Bryant, Victor ★ Aspects of combinatorics.

Carlson, Robert C. *see* **Kouvelis, Panagiotis, 93b:90051**

Catoni, Olivier Sharp large deviations estimates for simulated annealing algorithms. (French summary) **93c:60032**

Cheng, Chun Hung (*with* Kusiak, Andrew; Boe, Warren J.) A branch-and-bound algorithm for solving the machine allocation problem. **93d:90029**

Chopra, Sunil Polyhedra of the equivalent subgraph problem and some edge connectivity problems. **93k:05099**

Cochand, M. (*with* Gaillard, A.; Gröflin, H.) Lattice matrices, intersection of ring families and dicuts. (English summary) **93j:90060**

Coffman, Edward G., Jr. (*with* Shor, Peter W.) Packings in two dimensions: asymptotic average-case analysis of algorithms. (English summary) **93m:68072**

Conley, William Cleland Multi-stage Monte Carlo optimization applied to a six hundred point travelling salesman problem. (English summary) **93k:90008**

Crama, Y. *see* **Boros, Endre; et al., 93a:90043**

Deza, Michel (*with* Laurent, Monique) Extension operations for cuts. (English summary) **93i:05046**

Drezner, Zvi A note on the Weber location problem. (English summary) **93m:90044**

— (*with* Simchi-Levi, David) Asymptotic behavior of the Weber location problem on the plane. (English summary) **93m:90045**

Du, Ding Zhu (*with* Hwang, F. K.) Reducing the Steiner problem in a normed space. (English summary) **93j:52018**

Dudziński, Krzysztof (*with* Walukiewicz, Stanisław) PC-oriented algorithms for the knapsack problem. (English summary) (*see* **93e:90003**)

Dyer, Martin (*with* Frieze, A. M.) Probabilistic analysis of the generalised assignment problem. **93d:90042**

Eiselt, Horst A. Hotelling's duopoly on a tree. (English summary) **93m:90046**

Evans, James R. (*with* Minieka, Edward) ★ Optimization algorithms for networks and graphs. **93j:90002**

Fischetti, Matteo (*with* Toth, Paolo) An additive bounding procedure for the asymmetric travelling salesman problem. **93b:90100**

Frieze, A. M. *see* **Dyer, Martin, 93d:90042**

Frigerio, Alberto (*with* Grillo, Gabriele) Time-dependent Schrödinger operators and simulated annealing. **93i:82053**

Fujishige, Satoru (*with* Zhang, Xiaodong) New algorithms for the intersection problem of submodular systems. (English summary) **93m:90032**

Fukuda, Komei (*with* Terlaky, Tamás) Linear complementarity and oriented matroids. **93j:90115**

Gaillard, A. *see* **Cochand, M.; et al., 93j:90060**

Geist, Daniel (*with* Rodin, Ervin Y.) Adjacency of the 0-1 knapsack problem. (English summary) **93d:90043**

Gendreau, Michel (*with* Hertz, Alain; Laporte, Gilbert) New insertion and postoptimization procedures for the traveling salesman problem. (English summary)

van Ginneken, L. P. P. P. *see* **Otten, R. H. J. M., 93h:90001**

Goemans, Michel X. (*with* Williamson, David P.) A general approximation technique for constrained forest problems. (*see* **93b:68005**)

Grebennik, I. V. (*with* Yakovlev, S. V.) Extremal properties of quadratic functions with Boolean variables. (Russian)

Grillo, Gabriele *see* **Frigerio, Alberto, 93i:82053**

Gritzmann, Peter (*with* Klee, Victor) Deciding uniqueness in norm maximization. (English summary) **93i:90068**

Gröflin, H. *see* **Cochand, M.; et al., 93j:90060**

Grover, Lov K. Local search and the local structure of NP-complete problems. (English summary) **93g:90087**

Gu, Shou Huai An algorithm for the Chinese postman problem. (Chinese. English summary)

Guignard, Monique Solving makespan minimization problems with Lagrangean decomposition. (English summary) **93k:90054**

(Hajnal, András) *see* **Combinatorics, 93m:05002**

Hall, Leslie A. (*with* Magnanti, Thomas L.) A polyhedral intersection theorem for capacitated spanning trees. **93e:90064**

Hammer, Peter L. *see* **Boros, Endre; et al., 93a:90043**

Hansen, Pierre (*with* Jaumard, Brigitte; Savard, Gilles) New branch-and-bound rules for linear bilevel programming. (English summary) **93f:90151**

Hartvigsen, David (*with* Zemel, Eitan) The complexity of lifted inequalities for the knapsack problem. (English summary) **93j:90066**

Hellstrand, Johan (*with* Larsson, Torbjörn; Migdalas, Athanasios) A characterization of the uncapacitated network design polytope. (English summary) **93f:90061**

Hertz, Alain *see* **Gendreau, Michel; et al.**

Hirabayashi, Ryuichi (*with* Saruwatari, Yasufumi; Nishida, Naonori) Tour construction algorithm for the capacitated arc routing problems. (English summary) **93j:90120**

Hochbaum, Dorit S. (*with* Shamir, Ron; Shanthikumar, J. George) A polynomial algorithm for an integer quadratic nonseparable transportation problem. **93e:90041**

— Why should biconnected components be identified first? (English summary) **93m:90090**

Hudec, Oto On alternative p-center problems. (English summary) **93j:90121**

Hwang, F. K. *see* **Du, Ding Zhu, 93j:52018**

Ishii, Hiroaki[1] *see* **Morita, Hiroshi, 93m:90056**

Iwamura, Kakuzo Discrete decision process model involves greedy algorithm over greedoid. (English summary)

Izumida, Masanori (*with* Murakami, Kenji; Aibara, Tsunehiro) Analysis of neural network energy functions using standard forms. (English summary) **93i:92006**

Jansen, Klaus Bounds for the general capacitated routing problem. (English summary) **93m:90033**

Jaumard, Brigitte *see* **Hansen, Pierre; et al., 93f:90151**

Kappen, Bert *see* **Maes, M. J. J. J. B., 93k:52011**

Kasugai, Hiroshi *see* **Kubo, Mikio, 93a:90045** *and* **93h:90125**

Kiselëv, V. D. (*with* Sukmanov, S. A.) Application of duality in improving the efficiency of methods for solving a quadratic knapsack problem. (Russian)

Klafszky, Emil (*with* Terlaky, Tamás) The role of pivoting in proving some fundamental theorems of linear algebra. **93a:15030**

Klee, Victor *see* **Gritzmann, Peter, 93i:90068**

Kohli, Rajeev (*with* Krishnamurti, Ramesh) A total-value greedy heuristic for the integer knapsack problem. (English summary) **93k:90055**

Kopfer, Herbert Konzepte genetischer Algorithmen und ihre Anwendung auf das Frachtoptimierungsproblem im gewerblichen Güterfernverkehr. (English and German summaries) [Concepts of genetic algorithms and their application to the problem of freight minimization in commercial road transportation]

Kőrner, P. F. A note on optimality conditions for dual problems to the traveling salesman problem. (English summary) **93j:90065**

Korte, Bernhard (*with* Lovász, László; Schrader, Rainer) ★ Greedoids. **93f:90003**

Kouvelis, Panagiotis (*with* Carlson, Robert C.) Total unimodularity applications in bi-objective discrete optimization. **93b:90051**

Kovalëv, M. M. *see* **Zaporozhets, A. A., 93k:90057**

Krishnamurti, Ramesh *see* **Kohli, Rajeev, 93k:90055**

Kubo, Mikio (*with* Kasugai, Hiroshi) The precedence constrained traveling salesman problem. **93a:90045**

— (*with* Kasugai, Hiroshi) On the core of the network design game. (English summary) **93h:90125**

Kusiak, Andrew *see* **Cheng, Chun Hung; et al., 93d:90029**

Laporte, Gilbert *see* **Gendreau, Michel; et al.**

Larsen, Christian (*with* Tind, Jørgen) Lagrangean duality for facial programs with applications to integer and complementarity problems. (English summary) **93h:90087**

Larsson, Torbjörn *see* **Hellstrand, Johan; et al., 93f:90061**

Lassmann, Wolfgang (*with* Rogge, Rolf) Discrete optimization with bilinear objective function and linear constraints. (*see* **93e:90003**)

Laurent, Monique (*with* Sassano, Antonio) A characterization of knapsacks with the max-flow–min-cut property. **93d:90044**

— *see also* **Deza, Michel, 93i:05046**

(Lawler, E. L.) *see* **Traveling salesman problem, 93g:90035**

Lee, Jon[2] (*with* Lee, Yew Sing) A spectral method for concordant polyhedral faces. **93e:52020**

— (*with* Ryan, Jennifer) Matroid applications and algorithms. (English summary) **93h:52019**

Lee, S. F. *see* **Leong, H.-W., 93f:90213**

Lee, Yew Sing *see* **Lee, Jon[2], 93e:52020**

(Lenstra, J. K.) *see* **Traveling salesman problem, 93g:90035**

Leong, H.-W. (*with* Lee, S. F.) A new approach to game scheduling with preassignments. (English summary) **93f:90213**

Liu, Yu Min *see* **Xu, Ji Chao, 93m:05128**

Lovász, László *see* **Korte, Bernhard; et al., 93f:90003** *and* **Combinatorics, 93m:05002**

Maes, M. J. J. J. B. (*with* Kappen, Bert) On the permutahedron and the quadratic placement problem. (English summary) **93k:52011**

Magnanti, Thomas L. *see* **Hall, Leslie A., 93e:90064**

Manber, Udi *see* **Wu, Sun, 93g:90085**

Meir, Amram *see* **Bollobás, Béla, 93c:90046**

Migdalas, Athanasios *see* **Hellstrand, Johan; et al., 93f:90061**

(Mikhalevich, V. S.) *see* **Methods for solving problems of nonlinear and discrete programming, 93b:90010**

Minieka, Edward *see* **Evans, James R., 93j:90002**

Morita, Hiroshi (*with* Ishii, Hiroaki[1]) An efficient algorithm for a stochastic linear knapsack problem with a single index model. (English summary) **93m:90056**

Mukai, H. *see* **Yan, Di, 93j:90072**

Murakami, Kenji *see* **Izumida, Masanori; et al., 93i:92006**

Naddef, Denis (*with* Rinaldi, Giovanni) The crown inequalities for the symmetric traveling salesman polytope. **93e:90043**

Nakagawa, Yuji *see* **Ohtagaki, Hirokazu, (93f:93007)**

Nishida, Naonori *see* **Hirabayashi, Ryuichi; et al., 93j:90120**

Nooriafshar, Mehryar Towards nonalgorithmic optimization: a practical and general purpose method of formulating and solving dynamic programming problems. (English summary) (*see* **93d:90005**)

Ohtagaki, Hirokazu (*with* Nakagawa, Yuji) A recursive greedy procedure for solving nonlinear knapsack class of reliability optimization problems. (English summary) (*see* **93f:93007**)

Okikiolu, Kate Characterization of subsets of rectifiable curves in $\mathbf{R}^n$. **93m:28008**

Otten, R. H. J. M. (*with* van Ginneken, L. P. P. P.) ★ The annealing algorithm. **93h:90001**

Peck, G. W. (*with* Shastri, Aditya) Bandwidth of theta graphs with short paths. **93g:05120**

Perttunen, Jukka On the solving strategy in composite heuristics. (English summary)

Plesník, Ján Worst-case relative performances of heuristics for the Steiner problem in graphs. **93c:05040**

Prodon, Alain Steiner trees with n terminals among $n + 1$ nodes. (English summary) **93d:05045**

Rhee, WanSoo T. (*with* Talagrand, Michel) Packing random items of three colors. (English summary) **93i:60020**

Rinaldi, Giovanni *see* **Naddef, Denis, 93e:90043**

(Rinnooy Kan, A. H. G.) *see* **Traveling salesman problem, 93g:90035**

Rodin, Ervin Y. *see* **Geist, Daniel, 93d:90043**

Rogge, Rolf *see* **Lassmann, Wolfgang, (93e:90003)**

Ryan, Jennifer *see* **Lee, Jon[2], 93h:52019**

Saruwatari, Yasufumi *see* **Hirabayashi, Ryuichi; et al., 93j:90120**

Sassano, Antonio *see* **Laurent, Monique, 93d:90044**

Savard, Gilles *see* **Hansen, Pierre; et al., 93f:90151**

Savelsbergh, M. W. P. ★ Computer aided routing. **93k:90034**

Schrader, Rainer *see* **Korte, Bernhard; et al., 93f:90003**

Sen, Suvrajeet Relaxations for probabilistically constrained programs with discrete random variables. **93b:90056**

Shamir, Ron *see* **Hochbaum, Dorit S.; et al., 93e:90041**
Shanthikumar, J. George *see* **Hochbaum, Dorit S.; et al., 93e:90041**
Shastri, Aditya *see* **Peck, G. W., 93g:05120**
(Shmoys, David B.) *see* **Traveling salesman problem, 93g:90035**
Shor, Peter W. *see* **Coffman, Edward G., Jr., 93m:68072**
Sierksma, Gerard (*with* Tijssen, Gert A.) Faces with large diameter on the symmetric traveling salesman polytope. (English summary) **93i:90071**
Simanchëv, R. Yu. Completely regular cuttings for problems of integer optimization. (Russian) **93d:90045**
Simchi-Levi, David *see* **Drezner, Zvi, 93m:90045**
Snyder, Timothy Law (*with* Steele, J. Michael) Equidistribution of point sets for the traveling salesman and related problems. (English summary) **93m:90092**
Soldatenko, G. V. ★ Последовательный метод решения экстремальных комбинаторных задач. (Russian. Russian summary) [A sequential method for solving extremal combinatorial problems] **93g:90001**
(Sós, Vera T.) *see* **Combinatorics, 93m:05002**
Steele, J. Michael *see* **Snyder, Timothy Law, 93m:90092**
Sukmanov, S. A. *see* **Kiselëv, V. D.**
Sun, Shi Jie A branch-and-bound method for solving two lower bound estimates of the tardy/early scheduling problem. (Chinese. English summary) **93d:90027**
Swamy, M. N. S. *see* **Thulasiraman, K., 93f:05002**
Talagrand, Michel *see* **Rhee, WanSoo T., 93i:60020**
Terlaky, Tamás *see* **Klafszky, Emil, 93a:15030** *and* **Fukuda, Komei, 93j:90115**
Thulasiraman, K. (*with* Swamy, M. N. S.) ★ Graphs: theory and algorithms. **93f:05002**
Tijssen, Gert A. *see* **Sierksma, Gerard, 93i:90071**
Tind, Jørgen *see* **Larsen, Christian, 93h:90087**
Topkis, Donald M. Paths on polymatroids. **93e:90040**
Toth, Paolo *see* **Fischetti, Matteo, 93b:90100**
Vachani, Rita Performance of heuristics for the uncapacitated lot-size problem. (English summary)
van Vliet, André An improved lower bound for on-line bin packing algorithms. (English summary) **93j:68077**
Walukiewicz, Stanisław *see* **Dudziński, Krzysztof, (93e:90003)**
Warren, Richard H. Optimal arcs for the traveling salesman problem. **93c:90047**
Williamson, David P. *see* **Goemans, Michel X., (93b:68005)**
Woeginger, Gerhard J. (*with* Yu, Zhong Liang) A heuristic for preemptive scheduling with set-up times. (English and German summaries)
Wu, Sun (*with* Manber, Udi) An algorithm for min-cost edge-disjoint cycles and its applications. (English summary) **93g:90085**
Xu, Ji Chao (*with* Liu, Yu Min) All optimal solutions to the 0-1 bottleneck problem. (Chinese. English summary) **93m:05128**
Yakovlev, S. V. *see* **Grebennik, I. V.**
Yan, Di (*with* Mukai, H.) Stochastic discrete optimization. **93j:90072**
Yu, Zhong Liang *see* **Woeginger, Gerhard J.**
Zambitskii, D. K. Study of an objective function in a Weber problem on a tree. (Russian. Russian summary)
Zaporozhets, A. A. (*with* Kovalëv, M. M.) The polytope of alternating successions. (Russian. English and Russian summaries) **93k:90057**
Zemel, Eitan *see* **Hartvigsen, David, 93j:90066**
Zhang, Xiaodong *see* **Fujishige, Satoru, 93m:90032**

Items listed otherwise than by author

Colloquia Mathematica Societatis János Bolyai ★ Combinatorics. **93m:05002**
Colloquium:
Combinatorics ★ Combinatorics. **93m:05002**
Combinatorics ★ Combinatorics. **93m:05002**
Eger ★ Combinatorics. **93m:05002**
Methods for solving problems of nonlinear and discrete programming ★ Методы решения задач нелинейного и дискретного программирования. (Russian) [Methods for solving problems of nonlinear and discrete programming] **93b:90010**
Traveling salesman problem ★ The traveling salesman problem. **93g:90035**

90C28 Geometric programming

McNamara, J. R. On geometric programming and complementary slackness. **93g:90064**
Rajgopal, Jayant An alternative approach to the refined duality theory of geometric programming. **93m:90067**
Zhang, Jian Zhong (*with* Zhu, De Tong) On the duality of generalized geometric programming. (English summary)
Zhu, De Tong *see* **Zhang, Jian Zhong**

Items with secondary classifications in 90C28

Fang, S. C. *see* **Rajasekera, J. R., 93k:90049**
González, Lourdes Analysis of the duality between linear and loglinear families of distributions by geometric programming. (Hungarian. English and Hungarian summaries) **93k:62011**
Rajasekera, J. R. (*with* Fang, S. C.) Deriving an unconstrained convex program for linear programming. (English summary) **93k:90049**

90C29 Multi-objective and goal programming; vector optimization

Achuthan, N. R. (*with* Lotulelei, T.) Project crashing with earliness and tardiness penalties: a goal programming model. (English summary) (*see* **93d:90005**)
Aggarwal, Shashi *see* **Bector, C. R.; et al., 93c:90068**
Angell, Thomas S. (*with* Kirsch, Andreas) Multicriteria optimization in antenna design. (English summary) **93h:90078**
Antunes, Carlos Henggeler (*with* Clímaco, João C. Namorado) Sensitivity analysis in MCDM using the weight space. (English summary) **93f:90140**
Bakunda, Athanase Connexions entre les points efficaces et les points relativement faiblement efficaces en programmation multiobjective par rapport à un cône. (English summary) [Connections between efficient points and relatively weakly efficient points in multiobjective programming with respect to a cone] **93j:90084**
Bector, C. R. (*with* Bhatia, Davinder; Aggarwal, Shashi) Multiobjective fractional programming duality: a nondifferentiable case. **93c:90068**
— (*with* Husain, I.) Duality for multiobjective variational problems. **93f:90141**
Benson, Harold P. (*with* Sayin, Serpil) A face search heuristic algorithm for optimizing over the efficient set. (English summary) **93h:90079**
Bhatia, Davinder *see* **Bector, C. R.; et al., 93c:90068**
Borwein, Jonathan (*with* Zhuang, Deming Micheal) Super efficiency in vector optimization. **93j:90085**
Cen, Cheng De An interactive conservative optimal method for multi-objective decision making. (Chinese. English and Chinese summaries)
Chen, Ting *see* **Meng, Bo**
Chumakov, V. V. Multistage decision making problems with noncoincident player interests under conditions of subjective uncertainty. (Russian) **93b:90077**
Clímaco, João C. Namorado *see* **Antunes, Carlos Henggeler, 93f:90140**
Craven, B. D. (*with* Yang, Xiao Qi) A nonsmooth version of alternative theorem and nonsmooth multiobjective programming. **93a:90055**
— Matrix shadow costs for multilinear programs. (English summary) (*see* **93d:90005**)
— *see also* **Sach, P. H., 93d:90058**
Dauer, J. P. (*with* Saleh, Ossama A.) A representation of the set of feasible objectives in multiple objective linear programs. **93a:90056**
Ding, Baoyan (*with* Wang, Chung-Lie) A note on proper efficiency of a vector optimization problem. **93d:90055**
Dinh Thé Lục (*with* Malivert, C.) Invex optimisation problems. **93e:90053**
— (*with* Jahn, Johannes) Axiomatic approach to duality in optimization. (English summary) **93h:90080**
— *see also* **Phan Quốc Khánh, 93i:90084**
Duca, Dorel I. *see* **Duca, Eugenia, (93i:00015)**
Duca, Eugenia (*with* Duca, Dorel I.) Vectorial fractional optimization in complex space. (*see* **93i:00015**)
Erëmin, I. I. Symmetric duality for lexicographic problems of linear programming. (Russian. Russian and Ukrainian summaries) **93k:90077**
Franchuk, O. V. *see* **Zaslavskii, V. A.**
Gallagher, Richard J. (*with* Saleh, Ossama A.) Two generalizations of a theorem of Arrow, Barankin, and Blackwell. (English summary) **93k:90078**
Galperin, Efim A. Nonscalarized multiobjective global optimization. (English summary) **93m:90068**
Gergel', V. P. (*with* Grishagin, V. A.; Kukhtin, V. V.; Rogatneva, E. A.; Strongin, R. G.; Vysotskaya, I. N.) ★ Complicated problem solution techniques in optimal parameter searching. (English. English and Russian summaries)
Gnatienko, G. N. Assignment of preferences on a set of critical functions in problems of multicriterial optimization. (Russian. Russian summary)
Gong, Cai Hao *see* **Xia, Xiao Rong**
Grishagin, V. A. *see* **Gergel', V. P.; et al.**
Gulledge, Thomas R. *see* **Ringuest, Jeffrey L.**
Gupta, Renu (*with* Malhotra, Rita) Multi-criteria integer linear programming problem. (English summary) **93j:90086**
Gvozdik, A. A. On ordering of multicriterial objects based on rank criteria. (Russian. Russian summary)
Han, Guang Xue *see* **Liu, Guang Zhong, 93m:90070**
Han, Xiang Zhu (*with* Shou, Ji Lin) Optimality conditions for multi-objective nondifferentiable programming. (Chinese. English summary) **93b:90078**
Hu, Yu Da Major optimality and major efficiency in multicriteria optimization. (English summary) **93f:90142**
— (*with* Xu, Yong Ming) Uniform approximation of a multiobjective optimization sequence. (English summary) **93j:90087**
Hughes, J. B. Interior efficient solutions in bicriterion linear fractional programming—a geometric approach. (English summary) **93k:90079**
Husain, I. *see* **Bector, C. R., 93f:90141**
Inuiguchi, Masahiro (*with* Kume, Yasufumi) Efficient solutions versus nondominated solutions in linear programming with multiple interval objective functions. (English summary) **93i:90083**
— (*with* Kume, Yasufumi) Dominance relations as bases for constructing solution concepts in linear programming with multiple interval objective functions. (English summary) **93j:90088**
Jahn, Johannes (*with* Merkel, A.) Reference point approximation method for the solution of bicriterial nonlinear optimization problems. **93f:90143**
— *see also* **Dinh Thé Lục, 93h:90080**
Jeyakumar, V. (*with* Mond, B.) On generalised convex mathematical programming. **93d:90056**
Kabanov, S. A. (*with* Men'kov, L. Yu.; Shalygin, A. S.) Multicriterional optimization of dynamic systems. (Russian)
Kirsch, Andreas *see* **Angell, Thomas S., 93h:90078**
Kostreva, Michael M. (*with* Więcek, Malgorzata M.) Time dependency in multiple objective dynamic programming. **93m:90069**
Kryachok, N. N. An algorithm for the sequential analysis of variants for a linear multicriterial problem of large dimension. (Russian. Russian summary)
Kukhtin, V. V. *see* **Gergel', V. P.; et al.**
Kume, Yasufumi *see* **Inuiguchi, Masahiro, 93i:90083** *and* **93j:90088**
Kuznetsov, K. V. *see* **Vyazgin, V. A., 93h:90082**
Lai, Han Ch'ing Optimization theory for infinite-dimensional set functions. (*see* **93a:41001**)
Lee, Gue Myung Optimality conditions in multiobjective optimization problems. **93c:90069**
— Generalizations of Isermann's results in vector optimization.
Lei, Yun Xue *see* **Pi, Ming Zhi; et al.**
Li, Shi Zheng Characterizations of proper efficient solutions in terms of saddle points and duality. (English summary) **93j:90089**
Li, Zhong Fei (*with* Rong, Wei Dong) Properly efficient solutions to nonconvex nonsmooth

vector extremal problems in ordered linear topological spaces. (Chinese. English summary) **93b:90079**

Lin, Lai Chü On the optimality of differentiable nonconvex n-set functions. (English summary) **93f:90144**

Lin, Li (*with* Zhang, Shi Ying; Yang, Bao Chen) Extensions of De Novo programming. (Chinese. English and Chinese summaries)

(Liu, Chêng Ch'uan) *see* **Loridan, P.**

Liu, Guang Zhong (*with* Han, Guang Xue) Optimality conditions in multiobjective quasidifferentiable programming. (English summary) **93m:90070**

— (*with* Han, Guang Xue) Optimality conditions for multi-objective subdifferentiable programming. (Chinese. English summary)

Liu, Pu *see* **Wang, Cai Hua**, (**93a:41001**)

Loridan, P. Technical comment: "ε-duality theorem of nondifferentiable nonconvex multiobjective programming" [J. Optim. Theory Appl. **69** (1991), no. 1, 153–167; MR 92d:90072] by C. C. Liu. (English summary)

Lotulelei, T. *see* **Achuthan, N. R.**, (**93d:90005**)

Lupşa, Liana On the relationship between efficient points and d-bases. (*see* **93m:26001**)

Malhotra, Rita *see* **Gupta, Renu**, **93j:90086**

Malivert, C. *see* **Dinh Thé Lục**, **93e:90053**

Markin, D. L. (*with* Strongin, R. G.) Uniform estimation of a set of weakly effective points in multi-extremal multicriterial optimization problems. (Russian. Russian summary) **93m:90071**

Meng, Bo (*with* Chen, Ting) The FSWT method for multi-objective decision-making on the basis of fuzzy reasoning. (Chinese. English and Chinese summaries)

Men'kov, L. Yu. *see* **Kabanov, S. A.; et al.**

Merkel, A. *see* **Jahn, Johannes**, **93f:90143**

Mirchandani, Pitu B. (*with* Więcek, Malgorzata M.) Routing with nonlinear multiattribute cost functions. (English summary) **93j:90090**

Mond, B. *see* **Jeyakumar, V.**, **93d:90056**

Nefedov, E. V. *see* **Volkovich, V. L.**

Olson, David L. Tchebycheff norms in multi-objective linear programming. (English summary)

Petrosyan, L. A. Multicriterial dynamic optimization. (*see* **93f:34004**)

Phan Quốc Khánh (*with* Đinh Thế Lục) Problems of vector optimization. (English summary) **93i:90084**

— Proper solutions of vector optimization problems. **93d:90057**

Pi, Ming Zhi (*with* Lei, Yun Xue; Wei, Xiu Ting) The geometry model method (GMM) for multi-objective linear programming problems. (Chinese. English summary)

Pintér, János Adaptive partition strategies for solving multiextremal optimization problems. (Hungarian. English and Hungarian summaries)

Poh, K. L. *see* **Quaddus, M. A.**, (**93d:90005**)

Popoviciu, Nicolae On a special class of Pareto bicriterial optimization problems.

Postolică, V. Supernormal cones and existence results for efficient points. **93e:90054**

Preda, Vasile On efficiency and duality for multiobjective programs. **93g:90065**

— On some sufficient optimality conditions in multiobjective differentiable programming. (English summary) **93h:90081**

Pusz, Grzegorz Two-criteria analysis of a flexible manufacturing system. (English and Polish summaries)

Quaddus, M. A. (*with* Poh, K. L.) A comparative evaluation of multiple objective linear programming methods. (English summary) (*see* **93d:90005**)

— An interactive approach to multiple objective transportation problems. (English summary) (*see* **93d:90005**)

Radievskii, A. E. A problem of multicriterial optimization of a certain class. (Russian. Russian summary) **93k:90080**

Ravindran, A. *see* **Saber, Hussein M.**, **93i:90086**

Riahi, Hassan Application du principe variationnel d'Ekeland à l'existence d'optima de Pareto. [Application of Ekeland's variational principle to the existence of Pareto optima] **93m:90072**

Ringuest, Jeffrey L. (*with* Gulledge, Thomas R.) An interactive multi-objective gradient search. (English summary)

Rogatneva, E. A. *see* **Gergel', V. P.; et al.**

Rong, Wei Dong ε-approximate solutions to vector optimization problems and vector variational inequalities. (Chinese. English and Chinese summaries) **93i:90085**

— Properties and scalarization of ε-efficient solutions to vector extremum problems in linear topological spaces. (Chinese. English and Chinese summaries) **93j:90091**

— *see also* **Li, Zhong Fei**, **93b:90079**

Roy, Asim (*with* Wallenius, Jyrki) Nonlinear multiple objective optimization: an algorithm and some theory. **93e:90055**

Rueda, Norma G. *see* **Singh, Chanchal; et al.**, **93j:90092**

Saber, Hussein M. (*with* Ravindran, A.) Nonlinear goal programming theory and practice: a survey. (English summary) **93i:90086**

Sach, P. H. (*with* Craven, B. D.) Invex multifunctions and duality. **93d:90058**

Sakawa, Masatoshi (*with* Yano, Hitoshi; Takahashi, Junya) Pareto optimality for multiobjective linear fractional programming problems with fuzzy parameters. **93c:90070**

Saleh, Ossama A. *see* **Dauer, J. P.**, **93a:90056** *and* **Gallagher, Richard J.**, **93k:90078**

Salukvadze, M. E. (*with* Topchishvili, A. L.) Weakly efficient solutions of a sequence of multicriterial problems. (Russian. English and Georgian summaries)

— (*with* Topchishvili, A. L.) On a property of Slater saddle points of multicriterial problems under uncertainty. (Russian. English and Georgian summaries)

Sayin, Serpil *see* **Benson, Harold P.**, **93h:90079**

Shalygin, A. S. *see* **Kabanov, S. A.; et al.**

Shou, Ji Lin *see* **Han, Xiang Zhu**, **93b:90078**

Singh, Chanchal (*with* Suneja, S. K.; Rueda, Norma G.) Preinvexity in multiobjective fractional programming. (English summary) **93j:90092**

Staib, Tilo Necessary optimality conditions for nonsmooth multicriterial optimization problems. **93a:90057**

Stancu-Minasian, I. M. *see* **Ţigan, Ştefan**, **93f:90145**

Strongin, R. G. *see* **Markin, D. L.**, **93m:90071** *and* **Gergel', V. P.; et al.**

Sun, Jing Xian On the Pareto extremum problem. (Chinese. English and Chinese summaries) **93k:90081**

Suneja, S. K. *see* **Singh, Chanchal; et al.**, **93j:90092**

Takahashi, Junya *see* **Sakawa, Masatoshi; et al.**, **93c:90070**

Tammer, Chr. (*with* Tammer, K.) Duality results for convex vector optimization problems with linear restrictions. (*see* **93e:90003**)

Tammer, K. *see* **Tammer, Chr.**, (**93e:90003**)

Tanino, Tetsuzo Conjugate duality in vector optimization. **93c:90071**

Ţigan, Ştefan (*with* Stancu-Minasian, I. M.) On a bicriterion max-min fractional problem. **93f:90145**

Topchishvili, A. L. *see* **Salukvadze, M. E.**

Unguryanu, M. M. Construction of a set of effective solutions for problems of multicriterial discrete optimization. (Russian. Russian summary)

Vogel, Silvia On stability in multiobjective programming—a stochastic approach. (English summary) **93j:90093**

Volkovich, V. L. (*with* Nefedov, E. V.) Multicriterial optimization as a method for solving quality estimation problems. (Russian. English, Russian and Ukrainian summaries)

Vyazgin, V. A. Some schemes for multicriterial optimization. (Russian) **93a:90058**

— (*with* Kuznetsov, K. V.) Control in multicriterial choice algorithms. (Russian. Russian summary) **93h:90082**

Vysotskaya, I. N. *see* **Gergel', V. P.; et al.**

Wallenius, Jyrki *see* **Roy, Asim**, **93e:90055**

Wang, Cai Hua (*with* Liu, Pu) Fuzzy stochastic multi-objective programming. (*see* **93a:41001**)

Wang, Chung-Lie *see* **Ding, Baoyan**, **93d:90055**

Wang, Pei Zhuang *see* **Zhang, Dazhi; et al.**, **93k:90082**

Wang, Shou Yang An interactive method for multicriteria decision making. (English summary) (*see* **93d:90005**)

Wei, Xiu Ting *see* **Pi, Ming Zhi; et al.**

Więcek, Małgorzata M. *see* **Mirchandani, Pitu B.**, **93j:90090** *and* **Kostreva, Michael M.**, **93m:90069**

Wille, Jörg Zur Lösung linearer Vektoroptimierungsprobleme mittels spezieller Skalarisierung. [On the solution of linear vector optimization problems using special scalarization]

Xia, Xiao Rong (*with* Gong, Cai Hao) An interactive multiobjective optimization method. (Chinese. English summary)

Xu, Yong Ming *see* **Hu, Yu Da**, **93j:90087**

Yang, Bao Chen *see* **Lin, Li; et al.**

Yang, Xiao Qi *see* **Craven, B. D.**, **93a:90055**

Yano, Hitoshi *see* **Sakawa, Masatoshi; et al.**, **93c:90070**

Yordanova, Irena T. The multicriterial linear programming problem and a method for its investigation. (Bulgarian. English summary)

Youness, Ebrahim A. Duality for $\mathcal{F}$-convex vector optimization. (English and Arabic summaries) **93m:90073**

Yu, Jian Essential weak efficient solution in multiobjective optimization problems. **93e:90056**

Yu, P. L. *see* **Zhang, Dazhi; et al.**, **93k:90082**

Zaslavskii, V. A. (*with* Franchuk, O. V.) Optimal backup of a multifunctional system taking into account several criteria. (Russian. Russian summary)

Zhang, Dazhi (*with* Yu, P. L.; Wang, Pei Zhuang) State-dependent weights in multicriteria value functions. **93k:90082**

Zhang, Shi Ying *see* **Lin, Li; et al.**

Zhuang, Deming Micheal *see* **Borwein, Jonathan**, **93j:90085**

Items with secondary classifications in 90C29

Alutina, E. F. *see* **Gorelik, V. A.**, (**93c:49002**)

Baba, Norio (*with* Morimoto, Akira) Stochastic approximation method for solving the stochastic multiobjective programming problem. (English summary) **93k:90058**

Bar-Kana, Izhak *see* **Guez, Allon; et al.**

Bector, C. R. *see* **Rueda, Norma G.; et al.**, **93k:90073**

Benson, Harold P. A finite, nonadjacent extreme-point search algorithm for optimization over the efficient set. **93a:90052**

Carlson, Robert C. *see* **Kouvelis, Panagiotis**, **93b:90051**

Chen, Guang Ya Existence of solutions for a vector variational inequality: an extension of the Hartmann-Stampacchia theorem. (English summary) **93h:49018**

Danao, R. A. Some properties of explicitly quasiconcave functions. (English summary) **93h:90073**

Deumlich, H. Interval enclosure of the solution set in vector optimization. (English summary) **93k:65058**

Gergel', V. P. (*with* Grishagin, V. A.; Kukhtin, V. V.; Rogatneva, E. A.; Strongin, R. G.; Vysotskaya, I. N.) ★ A software system for multiextremal optimization. (English. English and Russian summaries) **93i:90005**

Gorelik, V. A. (*with* Alutina, E. F.) The discrete maximum principle in dynamic multicriterial problems. (Russian. Russian summary) (*see* **93c:49002**)

Greco, Salvatore Binary preference relations: a difference-distance and entropy-uncertainty approach. **93c:90007**

Grishagin, V. A. *see* **Gergel', V. P.; et al.**, **93i:90005**

Guez, Allon (*with* Rusnak, Ilan; Bar-Kana, Izhak) Multiple objective optimization approach to adaptive and learning control. (English summary)

Hotz, Anthony F. Direct variance design—a multiobjective control theory. (English summary) **93k:93105**

Hu, Ying Ping General possibilistic multi-objective linear programming and its application. (Chinese. English summary) **93e:90039**

Huang, Zheng Shu Multi-objective and multiparameter fuzzy linear programming. (Chinese. English summary) **93b:90110**

Hussein, Mohammad L. On convex vector optimization problems with possibilistic weights. (English summary) **93k:90103**

Iri, Masao Integrability of vector and multivector fields associated with interior point methods for linear programming. **93a:90037**

Jendo, Stefan (*with* Paczkowski, Witold M.) Multicriterion discrete optimization of large scale frame structures. (English summary) (*see* **93d:90005**)

Jia, Li Min (*with* Zhang, Xi Di) Intelligent multiobjective optimal control. (English summary) (*see* **93i:93007**)
Klose, Jürgen Sensitivity analysis using the tangent derivative. **93d:49018**
Kouvelis, Panagiotis (*with* Carlson, Robert C.) Total unimodularity applications in bi-objective discrete optimization. **93b:90051**
Kukhtin, V. V. *see* **Gergel', V. P.; et al., 93i:90005**
Łędzewicz-Kowalewska, U. Euler-Lagrange equation in the case of nonregular equality constraints. **93a:49015**
Lee, E. Stanley (*with* Li, R.-J.) Fuzzy multiple objective programming and compromise programming with Pareto optimum. (English summary) **93k:90104**
Li, R.-J. *see* **Lee, E. Stanley, 93k:90104**
Malakooti, Behnam B. A decision support system for discrete multiple-criteria problems: certainty, uncertainty, and hierarchical. (English summary)
Mazurov, Vl. D. Decomposition in committee pattern recognition constructions. (Russian. Russian summary) **93f:68080**
Morimoto, Akira *see* **Baba, Norio, 93k:90058**
Nanda, Sudarsan Generalized convexity in mathematical programming. (English summary) **93f:90128**
Paczkowski, Witold M. *see* **Jendo, Stefan, (93d:90005)**
Paeck, S. Convexlike and concavelike conditions in alternative, minimax, and minimization theorems. **93g:90068**
Patrone, Fioravante (*with* Revalski, Julian Petrov) Characterization of Tikhonov well-posedness for preorders. **93g:49019a**
— (*with* Revalski, Julian Petrov) Errata: "Characterization of Tikhonov well-posedness for preorders". **93g:49019b**
Pavlov, Yu. P. (*with* Vassilev, K.) Recurrent construction of utility functions.
Perevozchikov, A. G. A variant of the maximum principle for optimal processes with vector criteria. (Russian) **93b:49027**
Revalski, Julian Petrov *see* **Patrone, Fioravante, 93g:49019a** *and* **93g:49019b**
Rogatneva, E. A. *see* **Gergel', V. P.; et al., 93i:90005**
Rueda, Norma G. (*with* Singh, Chanchal; Bector, C. R.) Further properties of b-vex functions. (English summary) **93k:90073**
Rusnak, Ilan *see* **Guez, Allon; et al.**
Sakawa, Masatoshi (*with* Yano, Hitoshi) Multiobjective fuzzy linear analysis for fuzzy input/output data. (English summary) **93h:90106**
— (*with* Yano, Hitoshi) New solution concepts for multiobjective nonlinear programming problems with fuzzy coefficients taking account of fuzzy goals. **93d:90071**
— (*with* Yano, Hitoshi) Interactive decision making for multiobjective linear fractional programming problems with fuzzy parameters based on solution concepts incorporating fuzzy goals. **93g:90089**
Šaltenis, Vydūnas ★ Анализ структуры задач оптимизации. (Russian) [Analysis of the structure of optimization problems] **93b:90006**
Salukvadze, M. E. *see* **Zhukovskii, V. I., 93b:90008**
Sarkisyan, R. E. Adaptive procedures and the concept of reconciliation of preferences. (Russian. Armenian summary)
Sastri, K. S. *see* **Sastry, V. Narsimha; et al., 93k:93064**
Sastry, V. Narsimha (*with* Sastri, K. S.; Tiwari, R. N.) Spline membership function and its application in multiple objective fuzzy control problem. (English summary) **93k:93064**
Singh, Chanchal *see* **Rueda, Norma G.; et al., 93k:90073**
Strongin, R. G. *see* **Gergel', V. P.; et al., 93i:90005**
Tian, Guo Qiang *see* **Zhou, Jian-Xin, 93c:90023**
Tiwari, R. N. *see* **Sastry, V. Narsimha; et al., 93k:93064**
Todorov, Maxim Iv. Existence of solutions of linear vector semi-infinite optimization problems. **93f:90171**
Tran Quoc Chien Support separation theorems and their applications to vector surrogate reverse duality. **93j:49038**
Ushakov, I. A. *see* **Volkovich, V. L.; et al., 93j:90004**
Vassilev, K. *see* **Pavlov, Yu. P.**
Vincke, Philippe L'aide multicritère à la décision. Historique et développements récents. [Multicriterion decision-making. History and recent developments]
Volkovich, V. L. (*with* Voloshin, A. F.; Zaslavskii, V. A.; Ushakov, I. A.) ★ Модели и методы оптимизации надежности сложных систем. (Russian. Russian summary) [Models and methods for optimizing the reliability of complex systems] **93j:90004**
Voloshin, A. F. *see* **Volkovich, V. L.; et al., 93j:90004**
Voronin, A. N. ★ Многокритериальный синтез динамических систем. (Russian. Russian summary) [Multicriterial synthesis of dynamical systems] **93j:90005**
Vysotskaya, I. N. *see* **Gergel', V. P.; et al., 93i:90005**
Wakuta, Kazuyoshi Optimal stationary policies in the vector-valued Markov decision process. **93f:90099**
Wu, Xiao Lin The generalized saddle point theory for a class of multiobjective optimal control problems. (Chinese. English summary)
Xu, Jiu Ping The optimal order method of double basic points of multiple attribute evaluation. (English summary) (*see* **93d:90005**)
Yano, Hitoshi *see* **Sakawa, Masatoshi, 93d:90071; 93g:90089** *and* **93h:90106**
Zaslavskii, V. A. *see* **Volkovich, V. L.; et al., 93j:90004**
Zhang, Xi Di *see* **Jia, Li Min, (93i:93007)**
Zhou, Jian-Xin (*with* Tian, Guo Qiang) Transfer method for characterizing the existence of maximal elements of binary relations on compact or noncompact sets. **93c:90023**
Zhukovskii, V. I. (*with* Salukvadze, M. E.) ★ Многокритериальные задачи управления в условиях неопределенности. (Russian) [Multi-objective control problems under conditions of uncertainty] **93b:90008**

Items listed otherwise than by author

Optimization theory in mathematical programming models ★ Sūri keikaku moderu ni okeru saitekika riron. (Japanese) [Optimization theory in mathematical programming models] **93k:90006**
Symposium:
Optimization Theory in Mathematical Programming Models ★ Sūri keikaku moderu ni okeru saitekika riron. (Japanese) [Optimization theory in mathematical programming models] **93k:90006**

90C30 Nonlinear programming

Abdul Jalil, Ithnin *see* **Shariffudin, Rio Hirowati, (93d:90005)**
Al-Hassan, Qassem M. On the solution of nonlinear programming problems with equality constraints via continuation using special LU factorization. (English summary) **93m:90074**
Al-Khayyal, Faiz A. (*with* Horst, Reiner; Pardalos, Panos M.) Global optimization of concave functions subject to quadratic constraints: an application in nonlinear bilevel programming. **93c:90072**
— *see also* **Hoàng Tuy, 93b:90084**
Andramonov, M. Yu. (*with* Zabotin, Ya. I.) On the reduction of a quasiconvex programming problem to an unconditional minimization problem by the conic projection method. (Russian) **93j:90094**
Arai, Kaori *see* **Yamamura, Kiyotaka; et al., 93h:90094**
Bacopoulos, A. (*with* Botsaris, C. A.) A new conic method for unconstrained minimization. **93c:90073**
Barabás, György Implementing no-derivative optimizing procedures for optimization of econometric models. (English summary) (*see* **93b:90009**)
Bartholomew-Biggs, M. C. (*with* Nguyen, T. T.) Orthogonal and conjugate basis methods for solving equality constrained minimization problems. (Spanish summary) **93b:90080**
Beattie, Christopher (*with* Smith, S. W.) Optimal matrix approximants in structural identification. **93c:90074**
Begalov, B. K. (*with* Piskorskii, L. F.) On an investigation of global optimization algorithms by means of a numerical experiment. (Russian. Russian summary)
Berezněv, V. A. (*with* Karmanov, V. G.; Tret'yakov, A. A.) Stable methods for solving extremal problems with approximate information. (Russian) **93f:90146**
Berger, M. F. *see* **Navon, I. M.; et al., 93i:90090** *and* **(93d:90005)**
Bertocchi, Maria (*with* Di Odoardo, Claudio) A stochastic algorithm for global optimization based on threshold accepting technique. (English summary) (*see* **93d:90005**)
Bian, Fu Ping A bundle method for point-by-point maxima of convex nonsmooth functions. (Chinese. English and Chinese summaries) **93m:90075**
Boichuk, L. M. An iterative optimization method in the presence of constraints using nonorthogonal projection operators. (Russian. Russian summary)
— A method of optimization with constraints that uses projection operators in a non-Euclidean metric. (Russian. Russian summary)
Bonnans, Joseph Frédéric (*with* Ioffe, Alexandre D.; Shapiro, Alexander) Développement de solutions exactes et approchées en programmation non linéaire. (English and French summaries) [Expansion of exact and approximate solutions in nonlinear programming]
— (*with* Panier, Eliane R.; Tits, André L.; Zhou, Jian L.) Avoiding the Maratos effect by means of a nonmonotone line search. II. Inequality constrained problems—feasible iterates. **93i:90087**
Botsaris, C. A. *see* **Bacopoulos, A., 93c:90073**
Brdyś, M. A. (*with* Lok, K.) Fast integrated system optimization and parameter estimation algorithms. (*see* **93h:93007**)
Bulatov, V. P. (*with* Khamisov, O. V.) The branch and bound method with cuts in E^{n+1} for solving concave programming problem. (*see* **93e:90003**)
Burke, James V. (*with* Poliquin, René A.) Optimality conditions for non-finite valued convex composite functions. **93g:90066**
— A robust trust region method for constrained nonlinear programming problems. **93c:90075**
Butnariu, Dan (*with* Mehrez, Abraham) On a class of generalized gradient methods for solving locally Lipschitz feasibility problems. (English summary) (*see* **93e:90003**)
Byrd, Richard H. (*with* Tapia, Richard A.; Zhang, Yin[1]) An SQP augmented Lagrangian BFGS algorithm for constrained optimization. **93d:90059**
— (*with* Liu, Dong C.; Nocedal, Jorge) On the behavior of Broyden's class of quasi-Newton methods. (English summary) **93m:90076**
Calamai, Paul H. *see* **Vicente, Luis N.; et al., 93k:90088**
Calvin, James A. (*with* Dykstra, Richard L.) A note on maximizing a special concave function subject to simultaneous Loewner order constraints. (English summary) **93e:90057**
Carter, Richard G. Numerical experience with a class of algorithms for nonlinear optimization using inexact function and gradient information. (English summary) **93j:90095**
Censor, Yair (*with* Zenios, Stavros A.) On the use of D-functions in primal-dual methods and in the proximal minimization algorithm. (*see* **93d:49004**)
Chadha, S. S. Optimization of a quadratic fractional function. (English summary)
Chang, Sheldon S. L. A global view of analytical optimization methods. (English summary) (*see* **93f:00014**)
Chen, Jia Yuan *see* **Hu, Xiao Dong**
Cheng, Jun Mo Optimal transitive matrices of antisymmetric matrices in the sense of well-distributed optimization. (Chinese. English and Chinese summaries)
Chew, Steven Boon-Wei *see* **Phua, Paul Kang Hoh, (93d:90005)**
Chistyakova, E. V. *see* **Perevozchikov, A. G.**
Coleman, Thomas F. (*with* Fenyes, Peter A.) Partitioned quasi-Newton methods for nonlinear equality constrained optimization. **93a:90059**
Conn, Andrew R. (*with* Gould, N. I. M.; Toint, Ph. L.) Large-scale nonlinear constrained optimization. (*see* **93b:00026**)
— (*with* Gould, N. I. M.; Toint, Ph. L.) On the number of inner iterations per outer iteration of a globally convergent algorithm for optimization with general nonlinear constraints and simple bounds. (*see* **93b:65005**)
— (*with* Li, Yuying) A structure-exploiting algorithm for nonlinear minimax problems. **93d:90060**
Craven, B. D. An algorithm for minimax. **93c:90076**
Crummey, T. P. (*with* Farshadnia, R.; Fleming, Philip Joseph; Grace, A. C. W.; Hancock, S. D.) An optimization toolbox for MATLAB. (*see* **93h:93007**)
Csendes, Tibor Numerical testing of interval methods of global optimization. (Russian) (*see* **93k:90002**)
Dai, Yang (*with* Sekitani, K.; Yamamoto, Yoshitsugu) A variable dimension algorithm with the Dantzig-Wolfe decomposition for structured stationary point problems. **93a:90060**
Danilin, Yu. M. (*with* Nurnazarov, D.) Modification of a gradient-type method for minimizing nonsmooth penalty functions. (Russian) **93c:90077**

Davydov, È. G. (*with* Khersonskaya, L. V.) Reduction of some multiple minimax problems with related constraints. (Russian. Russian summary)
Dempe, S. Optimality conditions for bilevel programming problems. **93h:90083**
Desplas, M. Matrice pseudo-inverse de Moore-Penrose et variables duales généralisées en programmation mathématique. (English and French summaries) [The Moore-Penrose pseudo-inverse matrix and generalized dual variables in mathematical programming] **93j:90096**
Ding, Guan Dong (*with* Lin, Ying Ju) A feasible descent algorithm for nonsmooth optimization with linear inequality constraints. (Chinese. English summary) **93f:90147**
Di Odoardo, Claudio *see* **Bertocchi, Maria**, (**93d:90005**)
Di Pillo, Gianni (*with* Facchinei, Francisco; Grippo, Luigi) An RQP algorithm using a differentiable exact penalty function for inequality constrained problems. **93c:90078**
Dixon, L. C. W. On the impact of automatic differentiation on the relative performance of parallel truncated Newton and variable metric algorithms. **93c:90079**
Djuranović-Miličić, Nada I. A projection method for linearly constrained problems which only uses function values. **93f:90148**
Dykstra, Richard L. *see* **Calvin, James A.**, **93e:90057**
El Ghali, A. Méthode du sous-gradient réduit généralisé comme extension du GRG d'Abadie au cas non différentiable. (English and French summaries) [The generalized reduced subgradient method as an extension of Abadie's GRG method to the nondifferentiable case] **93i:90088**
Erëmin, I. I. Improper optimization problems. (Russian) (*see* **93k:90002**)
Evtushenko, Yu. G. (*with* Zhadan, V. G.) Exact auxiliary functions. (Russian and Lithuanian summaries) **93a:90061**
— (*with* Zhadan, V. G.) The space transformation technique in mathematical programming. (English summary) (*see* **93e:90003**)
Facchinei, Francisco Refinements of necessary conditions for optimality in nonlinear programming. **93b:90081**
— *see also* **Di Pillo, Gianni; et al.**, **93c:90078**
Farshadnia, R. *see* **Crummey, T. P.; et al.**, (**93h:93007**)
(Feng, Guo Sheng) *see* **Gao, Tang An**, **93g:90067**
Fenyes, Peter A. *see* **Coleman, Thomas F.**, **93a:90059**
Fernández Rodríguez, C. A. (*with* Schönefeld, K.; Kleinmichel, H.) Algorithm for the solution of nonlinear constrained optimization problems. (Spanish. English and Spanish summaries) **93k:90083**
Ferrari, André (*with* Galperin, Efim A.) Numerical experiments with one-dimensional adaptive cubic algorithm. (English summary)
Fink, A. M. (*with* Gatica, Juan A.) For every answer there are two questions. **93d:90061**
Fleming, Philip Joseph *see* **Crummey, T. P.; et al.**, (**93h:93007**)
Friedlander, A. (*with* Martínez, José Mario) New algorithmns for maximization of concave functions with box constraints. (English and French summaries) **93i:90089**
Fukushima, Masao (*with* Takazawa, Keiichi; Ohsaki, Shuichi; Ibaraki, Toshihide) Successive linearization methods for large-scale nonlinear programming problems. **93a:90062**
Galiev, Sh. I. Directions of descent for minimax problems. (Russian. Russian summary) **93j:90097**
Galperin, Efim A. *see* **Ferrari, André**
Gao, Tang An A counterexample to a convergence theorem. Comment on: "A method for solving systems of nonlinear equations by a fixed-point algorithm" [Numer. Math. J. Chinese Univ. **6** (1984), no. 1, 8–16; MR 86d:90124] by G. S. Feng. (Chinese. English and Chinese summaries) **93g:90067**
Gatica, Juan A. *see* **Fink, A. M.**, **93d:90061**
Goh, Bean San Algorithms for unconstrained optimization: a new approach using control theory. (English summary) (*see* **93d:90005**)
Gooi, Kee Mein *see* **Tan, Choon Peng**, **93e:90059**
Gould, N. I. M. *see* **Conn, Andrew R.; et al.**, (**93b:00026**) *and* (**93b:65005**)
Grace, A. C. W. *see* **Crummey, T. P.; et al.**, (**93h:93007**)
Greiner, H. An algorithm for linearly constrained programs with a partly linear objective function. **93b:90082**
Grippo, Luigi *see* **Di Pillo, Gianni; et al.**, **93c:90078**
Guo, Jian[1] *see* **Tang, Huan Wen; et al.**, (**93a:41001**)
Han, Li Xing (*with* Xi, Shao Lin; Lin, You Lian) A trust region algorithm for equality constrained optimization. (Chinese. English and Chinese summaries) **93h:90084**
Han, Zhen Xiang *see* **Wen, Fu Shuan**
Hancock, S. D. *see* **Crummey, T. P.; et al.**, (**93h:93007**)
Hansen, Eldon *see* **Moore, R. E.; et al.**, **93c:90080**
Hansen, Pierre (*with* Jaumard, Brigitte; Lu, Shi Hui) Global optimization of univariate Lipschitz functions. (Russian) (*see* **93k:90002**)
— (*with* Jaumard, Brigitte; Lu, Shi Hui) Global optimization of univariate Lipschitz functions. II. New algorithms and computational comparison. (Russian) (*see* **93k:90002**)
— (*with* Jaumard, Brigitte; Lu, Shi Hui) On using estimates of Lipschitz constants in global optimization. (English summary) **93j:90098**
— (*with* Jaumard, Brigitte; Lu, Shi Hui) Global optimization of univariate Lipschitz functions. I. Survey and properties. **93f:90149**
— (*with* Jaumard, Brigitte; Lu, Shi Hui) Global optimization of univariate Lipschitz functions. II. New algorithms and computational comparison. **93f:90150**
— (*with* Jaumard, Brigitte; Savard, Gilles) New branch-and-bound rules for linear bilevel programming. (English summary) **93f:90151**
Henrion, R. On constraint qualifications. **93b:90083**
Hoàng Tuy Computing fixed points by global optimization methods. (French summary) **93a:90063**
— (*with* Al-Khayyal, Faiz A.) A class of global optimization problems solvable by sequential unconstrained convex minimization. **93b:90084**
Horst, Reiner (*with* Nguyen Van Thoai) Conical algorithm for the global minimization of linearly constrained decomposable concave minimization problems. (English summary) **93h:90085**
— *see also* **Al-Khayyal, Faiz A.; et al.**, **93c:90072**
Hu, Xiao Dong (*with* Chen, Jia Yuan) A direct method for higher-dimensional constrained nonlinear optimum problems and its application. (Chinese. English and Chinese summaries)
Hu, Yun Jiao *see* **Tang, Huan Wen; et al.**, (**93a:41001**)
Huen, Y. K. *see* **Wawan, S.; et al.**, (**93d:90005**)
Ibaraki, Toshihide *see* **Fukushima, Masao; et al.**, **93a:90062**
Ioffe, Alexandre D. *see* **Bonnans, Joseph Frédéric; et al.**
Jaumard, Brigitte *see* **Hansen, Pierre; et al.**, **93f:90149**; **93f:90150**; **93f:90151**; **93j:90098**; (**93k:90002**) *and* (**93k:90002**)
Jharnadan *see* **Sen, Rabindranath**, (**93d:90005**)
Jian, Jin Bao A globally convergent subfeasible direction method for nonlinear programming programs. (Chinese. English and Chinese summaries) **93m:90077**
Jiang, Ye *see* **Tang, Huan Wen; et al.**, (**93a:41001**)
Júdice, Joaquím J. *see* **Vicente, Luis N.; et al.**, **93k:90088**
Karmanov, V. G. *see* **Berezněv, V. A.; et al.**, **93f:90146**
Khamisov, O. V. *see* **Bulatov, V. P.**, (**93e:90003**)
Khapaev, Mikhail Mikhailovich Singular differential equations in problems on the investigation of functions for a conditional extremum. (Russian)
Khersonskaya, L. V. *see* **Davydov, È. G.**
Khurodze, T. A. Application of the harmonic balance method to the calculation of self-oscillating regimes in systems with delay. (Russian) **93b:90085**
Kiwiel, Krzysztof A method of feasible directions for certain quasi-differentiable inequality constrained minimization problems. (Russian and Polish summaries) **93h:90086**
Kiyoi, Masahiro *see* **Yamamura, Kiyotaka; et al.**, **93h:90094**
Kleinmichel, H. (*with* Richter, Claus; Schönefeld, K.) On a class of hybrid methods for smooth constrained optimization. **93e:90058**
— *see also* **Fernández Rodríguez, C. A.; et al.**, **93k:90083**
Krivonozhko, V. E. Decomposition methods using compound proposals for large-scale optimization. (*see* **93e:90003**)
Kummer, Bernd Lipschitz functions in a finite-dimensional space: inverse and implicit functions, critical points in optimization problems, and Newton-type methods for solving Lipschitz equations (a survey). (Russian) (*see* **93k:90002**)
Lai, Lan An algorithm of unconstrained minimization without derivative and its convergence. (English summary)
Lai, Yan Lian (*with* Wei, Zeng Xin) A unified approach to the method of gradient projection with arbitrary initial point. **93b:90086**
— *see also* **Wei, Zeng Xin**, **93d:90062**
Larsen, Christian (*with* Tind, Jørgen) Lagrangean duality for facial programs with applications to integer and complementarity problems. (English summary) **93h:90087**
Lasdon, Leon *see* **Smith, Stuart**
Leclerc, Anthony *see* **Moore, R. E.; et al.**, **93c:90080**
Le Dimet, François-Xavier *see* **Navon, I. M.; et al.**, **93i:90090** *and* (**93d:90005**)
Lei, Guang Yao The preconditioning technique and preconditioned conjugate gradient methods. (Chinese. English summary)
Leonov, A. S. Variational algorithms with a posteriori choice of the regularization parameter for solving ill-posed extremal problems. (English summary) (*see* **93m:00041**)
Levin, A. M. Regularization algorithms for solving ill-posed criterion problems. (English summary) (*see* **93m:00041**)
Li, Bao Xiu (*with* Shen, Yu; Yu, Zai Hua) Highly parallel algorithms for unconstrained optimization. (Chinese. English summary)
Li, Dong Hui On the global convergence of the DFP method. (Chinese. English and Chinese summaries) **93m:90078**
Li, Xing Si A smoothing technique for nonsmooth optimization problems. (English summary) (*see* **93d:90005**)
Li, Yuying *see* **Conn, Andrew R.**, **93d:90060**
Lin, Jie (*with* Roberts, P. D.; Wynn, P.) Modified two-step approach to the solution of constrained nonlinear optimisation problems. (English summary) (*see* **93h:93007**)
Lin, Meng Xiong Parallel algorithms for constrained nonlinear optimization—a review. (Chinese. English summary)
Lin, Ying Ju *see* **Ding, Guan Dong**, **93f:90147**
Lin, You Lian *see* **Han, Li Xing; et al.**, **93h:90084**
Liu, Dong C. *see* **Byrd, Richard H.; et al.**, **93m:90076**
Liu, Xiao Hua The L_1-exact penalty function in Lipschitz programming. (Chinese. English and Chinese summaries) **93f:90152**
Lok, K. *see* **Brdyś, M. A.**, (**93h:93007**)
Lootsma, Freerk A. Parallel nonlinear optimization. (Russian) (*see* **93k:90002**)
Lu, Shi Hui *see* **Hansen, Pierre; et al.**, **93f:90149**; **93f:90150**; **93j:90098**; (**93k:90002**) *and* (**93k:90002**)
Lucidi, Stefano New results on a continuously differentiable exact penalty function. (English summary) **93j:90099**
Lukšan, Ladislav Variationally derived scaling and variable metric updates from the preconvex part of the Broyden family. **93f:90153**
— Computational experience with improved conjugate gradient methods for unconstrained minimization. (English summary) **93h:90088**
Luo, Zhi-Quan (*with* Tseng, Paul) On the linear convergence of descent methods for convex essentially smooth minimization. **93a:90064**
Martínez, José Mario *see* **Friedlander, A.**, **93i:90089**
Mehrez, Abraham *see* **Butnariu, Dan**, (**93e:90003**)
Meng, Zhi Qing A descent algorithm for goal programming. (Chinese. English and Chinese summaries)
Mladineo, Regina Hunter Convergence rates of a global optimization algorithm. **93f:90154**
Moore, R. E. (*with* Hansen, Eldon; Leclerc, Anthony) Rigorous methods for global optimization. **93c:90080**
— The resolution of close minima. (English summary)
Morgan, Alexander P. *see* **Watson, Layne T.**, **93h:90093**
Munack, H. On global optimization using interval arithmetic. (English and German summaries) **93j:90100**
Muselli, Marco (*with* Ridella, Sandro) Global optimization of functions with the interval genetic algorithm. **93f:90155**
Nash, Stephen G. (*with* Sofer, Ariela) A barrier method for large-scale constrained optimization. (English summary)
Nashempa, K. V. *see* **Pshenichnyĭ, B. N.**, **93k:90084**
Navon, I. M. (*with* Zou, X.; Berger, M. F.; Phua, Paul Kang Hoh; Schlick, Tamar; Le

Dimet, François-Xavier) Numerical experience with limited-memory quasi-Newton and truncated Newton methods. (English summary) **93i:90090**

— (*with* Zou, X.; Berger, M. F.; Phua, Paul Kang Hoh; Schlick, Tamar; Le Dimet, François-Xavier) Testing the reliability and robustness of optimization codes for large-scale optimization problems. (English summary) (*see* **93d:90005**)

Nefëdov, V. N. Some problems for solving Lipschitz problems of global optimization using the branch and bound method. (Russian) **93h:90089**

Nenakhov, È. I. *see* **Nenakhova, S. G., (93b:90010)**

Nenakhova, S. G. (*with* Nenakhov, È. I.) Convergence of an algorithm for solving a problem of nonsmooth optimization. (Russian. Russian summary) (*see* **93b:90010**)

Nguyen, T. T. *see* **Bartholomew-Biggs, M. C., 93b:90080**

Nguyen Van Thoai *see* **Horst, Reiner, 93h:90085**

Nielsen, Soren S. (*with* Zenios, Stavros A.) Massively parallel algorithms for singly constrained convex programs. (English summary) **93h:90090**

Nocedal, Jorge Theory of algorithms for unconstrained optimization. **93b:90087**

— *see also* **Byrd, Richard H.; et al., 93m:90076**

Norkin, V. I. On Piyavskii's method for solving a general problem of global optimization. (Russian. Russian summary) **93m:90079**

Nurnazarov, D. *see* **Danilin, Yu. M., 93c:90077**

Ohsaki, Shuichi *see* **Fukushima, Masao; et al., 93a:90062**

Oliveira, P. R. *see* **Scheimberg, S., 93f:90156**

Paeck, S. Convexlike and concavelike conditions in alternative, minimax, and minimization theorems. **93g:90068**

Pan, Ping Qi New ODE methods for equality constrained optimization. I. Equations. **93c:90081**

— New ODE methods for equality constrained optimization. II. Algorithms. **93c:90082**

Panier, Eliane R. *see* **Bonnans, Joseph Frédéric; et al., 93i:90087**

Pardalos, Panos M. *see* **Al-Khayyal, Faiz A.; et al., 93c:90072**

Perevozchikov, A. G. Convergence of Clarke's generalized gradient method in problems of minimization of Lipschitz functions. (Russian) **93j:90101**

— (*with* Chistyakova, E. V.) Study of the practical convergence of a global optimization algorithm. (Russian. Russian summary)

— *see also* **Zavriev, S. K., 93j:90104**

Phua, Paul Kang Hoh (*with* Chew, Steven Boon-Wei) Symmetric rank-one update and quasi-Newton methods. (English summary) (*see* **93d:90005**)

— (*with* Setiono, Rudy) Multi-step, multi-directional parallel algorithms for unconstrained optimization. (English summary) (*see* **93d:90005**)

— *see also* **Navon, I. M.; et al., 93i:90090** *and* **(93d:90005)**

Pintér, János Convergence qualification of adaptive partition algorithms in global optimization. (English summary) **93h:90091**

Piskorskii, L. F. *see* **Begalov, B. K.**

Podobedov, V. E. Finding the maximum of approximately computable Lipschitz functions with scarce resources. (Russian. Russian summary) **93m:90080**

Polak, Elijah *see* **Wiest, E. J., 93i:90092**

Poliquin, René A. *see* **Burke, James V., 93g:90066**

Polyak, R. Modified barrier functions (theory and methods). **93c:90083**

Pshenichnyĭ, B. N. (*with* Nashempa, K. V.) A finite-step method for solving limit extremal problems. (Russian. English and Ukrainian summaries) **93k:90084**

— Necessary conditions for an extremum, penalty functions and regularity. (Russian. Russian and Ukrainian summaries) **93i:90091**

Pu, Ding Guo A class of DFP algorithms without exact linear search. (English summary) **93k:90085**

Qin, Xin Chuan *see* **Sui, Yun Kang; et al., (93d:90005)**

Rangaiah, G. P. *see* **Wawan, S.; et al., (93d:90005)**

Resina, Cosimo The solution of nonlinear constrained optimization problems: theory and algorithms. (English summary) **93j:90102**

Richter, Claus *see* **Kleinmichel, H.; et al., 93e:90058**

Ridella, Sandro *see* **Museili, Marco, 93f:90155**

Roberts, P. D. *see* **Lin, Jie; et al., (93h:93007)**

Rogatneva, E. A. Combined global search schemes for solving problems with singularities. (Russian) **93b:90088**

Rohn, Jiří A step size rule for unconstrained optimization. (English and German summaries) **93k:90086**

Rol'shchikov, V. E. Convergence of a sequence of points of a conditional approximation minimum. (Russian)

Savard, Gilles *see* **Hansen, Pierre; et al., 93f:90151**

Scheimberg, S. (*with* Oliveira, P. R.) Descent algorithm for a class of convex nondifferentiable functions. **93f:90156**

Schlick, Tamar *see* **Navon, I. M.; et al., 93i:90090** *and* **(93d:90005)**

Schmidt, Jochen W. Dual algorithms for solving convex partially separable optimization problems. **93c:90084**

Schönefeld, K. *see* **Kleinmichel, H.; et al., 93e:90058** *and* **Fernández Rodríguez, C. A.; et al., 93k:90083**

Schramm, Helga (*with* Zowe, Jochem) A version of the bundle idea for minimizing a nonsmooth function: conceptual idea, convergence analysis, numerical results. **93b:90089**

Schwefel, Hans-Paul Search for an optimum by means of a simulation of artificial intelligence. (Russian) (*see* **93k:90002**)

Seider, Warren D. *see* **Sun, Amy C., 93f:90159**

Sekitani, K. *see* **Dai, Yang; et al., 93a:90060**

Sen, Rabindranath (*with* Jharnadan) On a class of complex nonlinear programming problems. (English summary) (*see* **93d:90005**)

Şerban, R. On unidimensional optimization algorithms. (French and Russian summaries)

Setiono, Rudy *see* **Phua, Paul Kang Hoh, (93d:90005)**

Shapiro, Alexander *see* **Bonnans, Joseph Frédéric; et al.**

Shariffudin, Rio Hirowati (*with* Abdul Jalil, Ithnin) Formulae-variable for conjugate gradient strategies. (English summary) (*see* **93d:90005**)

Shen, Yu *see* **Li, Bao Xiu; et al.**

Sheng, Song Bai *see* **Xu, Hui Fu, 93a:90065**

Shi, Bao Chang (*with* Zhou, Xiao Yang) Two classes of supermemory feasible direction methods for solving nonlinear constrained problems. (Chinese. English summary) **93b:90090**

— (*with* Zhou, Xiao Yang) Nonderivative analytic methods for nonlinear programming—a unified approach. (Chinese. English and Chinese summaries) **93f:90157**

Sim, S. L. *see* **Wawan, S.; et al., (93d:90005)**

Sima, V. An efficient algorithm for solving non-linearly constrained optimization problems. (English summary) (*see* **93e:00021**)

Smith, Robert L. *see* **Zabinsky, Zelda B., 93b:90092**

Smith, S. W. *see* **Beattie, Christopher, 93c:90074**

Smith, Stuart (*with* Lasdon, Leon) Solving large sparse nonlinear programs using GRG. (English summary)

Sofer, Ariela *see* **Nash, Stephen G.**

Spedicato, Emilio Deriving quasi-Newton updates via the ABS approach. (English summary) (*see* **93d:90005**)

Stancu-Minasian, I. M. (*with* Ţigan, Ştefan) On a procedure for some separable programming problems. **93f:90158**

Strekalovskiĭ, A. S. Search for the global maximum of a convex functional on an admissible set. (Russian. Russian summary) **93m:90081**

Sui, Yun Kang (*with* Qin, Xin Chuan; Wang, Xi Cheng) Curved-line search using ordinary differential equations. (English summary) (*see* **93d:90005**)

Sun, Amy C. (*with* Seider, Warren D.) Homotopy-continuation algorithm for global optimization. **93f:90159**

Takahashi, Satoru *see* **Yabe, Hiroshi; et al., 93j:90103**

Takazawa, Keiichi *see* **Fukushima, Masao; et al., 93a:90062**

Tan, Choon Peng (*with* Gooi, Kee Mein) Minimization of the scaled tau-infinity coefficient over a convex cone in the positive orthant. (English summary) **93e:90059**

Tang, Huan Wen (*with* Jiang, Ye; Guo, Jian[1]; Hu, Yun Jiao) Fixed point algorithms and its applications to nondifferentiable programming. (*see* **93a:41001**)

Tapia, Richard A. *see* **Byrd, Richard H.; et al., 93d:90059**

Tian, Yong A gradient projection variable metric method for solving the nonlinear programming. (English summary) (*see* **93d:90005**)

Ţigan, Ştefan On duality for generalized pseudomonotonic programming. **93f:90160**

— *see also* **Stancu-Minasian, I. M., 93f:90158**

Tind, Jørgen *see* **Larsen, Christian, 93h:90087**

Tits, André L. *see* **Bonnans, Joseph Frédéric; et al., 93i:90087**

Toint, Ph. L. *see* **Conn, Andrew R.; et al., (93b:00026)** *and* **(93b:65005)**

Tokareva, O. N. The decomposition method for solving a general problem of nonlinear programming with complex block structures of Jacobi matrices of large dimension. (Russian. Russian summary) (*see* **93b:90010**)

Tret'yakov, A. A. *see* **Berezněv, V. A.; et al., 93f:90146**

Tseng, Paul On the convergence of the products of firmly nonexpansive mappings. **93f:90161**

— *see also* **Luo, Zhi-Quan, 93a:90064**

Uryas'ev, S. P. New algorithms of variable metric for problems of nonsmooth optimization. (Russian) (*see* **93k:90002**)

Vardi, A. New minimax algorithm. (English summary) **93k:90087**

Vasil'ev, F. P. An estimate for the rate of convergence of regularization methods for unstable minimization problems. (Russian. Russian summary) **93m:90082**

Vicente, Luis N. (*with* Calamai, Paul H.; Júdice, Joaquím J.) Generation of disjointly constrained bilinear programming test problems. (English summary) **93k:90088**

Wan, Chung Ping A class of algorithm of feasible direction by using curvilinear fitting for nonlinear constrained optimization. (English summary) (*see* **93d:90005**)

Wang, Xi Cheng A parallel method of structural optimization. (*see* **93a:41001**)

— *see also* **Sui, Yun Kang; et al., (93d:90005)**

Ward, D. E. A constraint qualification in quasidifferentiable programming. **93b:90091**

Warga, J. A necessary and sufficient condition for a constrained minimum. (English summary) **93h:90092**

Watson, Layne T. (*with* Morgan, Alexander P.) Polynomial programming using multihomogeneous polynomial continuation. (English summary) **93h:90093**

Wawan, S. (*with* Huen, Y. K.; Rangaiah, G. P.; Sim, S. L.) Graphical optimization using HGRAM graphical format. (English summary) (*see* **93d:90005**)

Wei, Bin *see* **Xu, Cheng Xian, 93i:90093**

Wei, Zeng Xin A new successive quadratic programming algorithm. (English summary) **93k:90089**

— A new global convergence algorithm for nonlinear constrained optimization problems. (Chinese. English summary) **93e:90060**

— (*with* Lai, Yan Lian) An optimization algorithm using linear approximation and a penalty function and its convergence. (Chinese. English summary) **93d:90062**

— *see also* **Lai, Yan Lian, 93b:90086**

Wen, Fu Shuan (*with* Han, Zhen Xiang) An artificial neural network model for a class of nonlinear programming problems. (Chinese. English and Chinese summaries)

Wen, Xin Hui A new dual algorithm for discrete min-max problems. (Chinese. English and Chinese summaries)

White, Douglas John A linear programming approach to solving bilinear programmes. (English summary) **93f:90162**

Wiest, E. J. (*with* Polak, Elijah) A generalized quadratic programming-based phase I–phase II method for inequality-constrained optimization. (English summary) **93i:90092**

Wood, G. R. The bisection method in higher dimensions. **93g:90069**

Wright, Alden H. Genetic algorithms for real parameter optimization. **93g:90070**

Wright, Stephen Joseph An interior-point algorithm for linearly constrained optimization. **93f:90163**

Wu, Fang *see* **Wu, Shi Quan[1], 93c:90085**

Wu, Shi Quan[1] (*with* Wu, Fang) Computation of a trust region step. **93c:90085**

Wynn, P. *see* **Lin, Jie; et al., (93h:93007)**

Xi, Shao Lin *see* **Han, Li Xing; et al., 93h:90084**

Xia, De Lin (*with* Zhou, Jing Fang) A continuous/discrete nonlinear optimization design method. (*see* **93a:41001**)

Xiao, Y. (*with* Zhou, Fang Jun) Nonmonotone trust region methods with curvilinear path in unconstrained optimization. (English and German summaries) **93f:90164**

Xiu, Nai Hua An optimal variable metric equation model and its solution. (Chinese)

Xu, Cheng Xian (*with* Wei, Bin) A class of reduced gradient methods for handling optimization problems with linear inequality constraints. (English summary) **93i:90093**
Xu, Hui Fu (*with* Sheng, Song Bai) Broyden family of collinear scaling algorithm for unconstrained optimization. (Chinese summary) **93a:90065**
Xu, Xue Rong A subgradient algorithm for nondifferentiable programming with degenerate constraints. (Chinese. English summary) **93d:90063**
Yabe, Hiroshi (*with* Yamaki, Naokazu; Takahashi, Satoru) Global convergence of sequential inexact QP method for constrained optimization. (English summary) **93j:90103**
Yamaki, Naokazu *see* **Yabe, Hiroshi; et al., 93j:90103**
Yamamoto, Yoshitsugu *see* **Dai, Yang; et al., 93a:90060**
Yamamura, Kiyotaka (*with* Arai, Kaori; Kiyoi, Masahiro) A piecewise-linear homotopy method for nonlinear programming. **93h:90094**
Yang, Bo Ting *see* **Zhang, Ke Cun, 93j:90105**
Yang, Ming Sheng A hill function method for solving global extremum problems. (Chinese. English and Chinese summaries) **93k:90090**
Ye, Xian Jian Subgradient projection algorithms for constrained nonsmooth optimization. III. Another algorithm for nonlinear constraints. (Chinese. English summary)
Ye, Yinyu On affine scaling algorithms for nonconvex quadratic programming. (English summary) **93i:90094**
Yu, Zai Hua *see* **Li, Bao Xiu; et al.**
Zabinsky, Zelda B. (*with* Smith, Robert L.) Pure adaptive search in global optimization. **93b:90092**
Zabotin, Ya. I. *see* **Andramonov, M. Yu., 93j:90094**
Zavriev, S. K. (*with* Perevozchikov, A. G.) The combined method of stochastic quasigradients and penalty functions for solving minimax problems with connected variables. (Russian. English and Ukrainian summaries) **93j:90104**
Zeng, Qing Guang An improved algorithm for Goldfarb's method with linear constraints. (Chinese. English and Chinese summaries) **93m:90083**
Zenios, Stavros A. *see* **Nielsen, Soren S., 93h:90090** *and* **Censor, Yair, (93d:49004)**
Zhadan, V. G. *see* **Evtushenko, Yu. G., 93a:90061** *and* **(93e:90003)**
Zhang, Ke Cun (*with* Yang, Bo Ting) An algorithm for constrained nonlinear programming and its convergence. (Chinese. English and Chinese summaries) **93j:90105**
Zhang, Yin[1] Computing a Celis-Dennis-Tapia trust-region step for equality constrained optimization. **93c:90086**
— *see also* **Byrd, Richard H.; et al., 93d:90059**
Zhao, Fu An On sufficiency of the Kuhn-Tucker conditions in nondifferentiable programming. (English summary) **93j:90106**
Zheng, Quan[1] Discontinuity and measurability of robust functions in the integral global minimization. (English summary) **93m:90084**
Zhou, Fang Jun *see* **Xiao, Y., 93f:90164**
Zhou, Hou Chun The theory of generalized conjugate duality in nonlinear programming. (Chinese. English and Chinese summaries)
Zhou, Jian L. *see* **Bonnans, Joseph Frédéric; et al., 93i:90087**
Zhou, Jing Fang *see* **Xia, De Lin, (93a:41001)**
Zhou, Xiao Yang *see* **Shi, Bao Chang, 93b:90090** *and* **93f:90157**
Zhu, De Tong Convergence of a class of improved secant methods for nonlinear constrained optimization. (Chinese. English and Chinese summaries) **93j:90107**
Zhu, Ji Shan A path following algorithm for a class of convex programming problems. (English summary) **93h:90095**
Zhu, Min Optimal conditions for Lipschitz programming with smooth equation constraints at stable points. (Chinese. English and Chinese summaries) **93i:90095**
Zhuzhunashvili, A. Sh. A cyclic iterative Chebyshev method for unconstrained minimization of functions. **93c:90087**
Zou, X. *see* **Navon, I. M.; et al., 93i:90090** *and* **(93d:90005)**
Zowe, Jochem *see* **Schramm, Helga, 93b:90089**

Items with secondary classifications in 90C30

Abaffy, J. Superlinear convergence theorems for Newton-type methods for nonlinear systems of equations. **93g:65072**
Abramova, M. V. A gradient algorithm for the approximate solution of problems in parametric programming. (Russian. Russian summary) **93k:90091**
(Amman, Hans M.) *see* **Computational economics and econometrics, 93b:90009**
An, Li Bang *see* **Qian, Ming Hai; et al.**
Ariyawansa, K. A. (*with* Lau, D. T. M.) On the updating scheme in a class of collinear scaling algorithms for sparse minimization. (English summary) **93j:65095**
Balakrishnan, V. *see* **Balemi, S., (93f:93005)**
Balemi, S. (*with* Balakrishnan, V.) Branch and bound algorithm for global optimization in control theory. (English summary) (*see* **93f:93005**)
Bayoumi, M. *see* **Hu, Chen-Yi; et al., (93g:65178)**
(Belsley, David A.) *see* **Computational economics and econometrics, 93b:90009**
Bisschop, J. J. (*with* Kuip, C. A. C.) Hierarchical sets in mathematical programming modeling languages. (English summary)
Blaga, Lucia On symmetric and asymmetric duality. II. **93h:49055**
Boland, N. L. A dual-active-set algorithm for positive semi-definite quadratic programming. (English summary) **93g:90056**
(Bulatov, V. P.) *see* **Optimization: models, methods, solutions, 93k:90002**
Byrd, Richard H. *see* **Khalfan, H. Fayez; et al., 93h:65087**
Castagnoli, Erio (*with* Mazzoleni, Piera) Order preserving functions and generalized convexity. (English and Italian summaries) **93m:26027**
Chen, Wen Pu *see* **Ding, Hui Liang; et al., (93a:41001)**
Chen, Zhong Wen (*with* Wang, Jia Song) An algorithm for solving large l_1 norm minimization. (Chinese. English summary) **93b:65070**
Cho, Seong-Cheol (*with* Kim, Sehun) Average shadow prices in mathematical programming. **93b:49039**
Coleman, Thomas F. (*with* Plassmann, Paul E.) A parallel nonlinear least-squares solver: theoretical analysis and numerical results. **93a:65068**
Combs, L. L. *see* **Waggoner, C. A.**
Conn, Andrew R. (*with* Gould, N. I. M.; Sartenaer, A.; Toint, Ph. L.) Global convergence of a class of trust region algorithms for optimization using inexact projections on convex constraints. (English summary) **93k:90069**
Danninger, G. Role of copositivity in optimality criteria for nonconvex optimization problems. (English summary) **93j:90079**
Ding, Hui Liang (*with* Sun, Xian Xue; Long, Qi Hao; Chen, Wen Pu; Pan, Bing Chen) YIDOYU—an optimization program system for wing structures. (*see* **93a:41001**)
(Dongarra, Jack J.) *see* **Parallel processing for scientific computing, 93g:65178**
Duca, Dorel I. The dual of the dual in mathematical programming in complex space. **93d:49041**
Dyubko, A. G. *see* **Yakovlev, S. V., 93c:90043**
(Ermakov, S. M.) *see* **Zhiglyavskii, A. A., 93i:90004**
Falk, James E. (*with* Palocsay, Susan W.) Optimizing the sum of linear fractional functions. **93a:90067**
Fang, S. C. *see* **Sheu, R.-L., 93f:90109**
Flåm, Sjur D. Solving convex programs by means of ordinary differential equations. **93j:90075**
Fox, Geoffrey C. Approaches to physical optimization. (English summary) (*see* **93g:65178**)
Gergel', V. P. (*with* Grishagin, V. A.; Kukhtin, V. V.; Rogatneva, E. A.; Strongin, R. G.; Vysotskaya, I. N.) ★ A software system for multiextremal optimization. (English. English and Russian summaries) **93i:90005**
González, Roberto L. V. (*with* Tidball, Mabel M.) Fast solution of general nonlinear fixed point problems. (English summary) **93e:65092**
Gould, N. I. M. *see* **Conn, Andrew R.; et al., 93k:90069**
Gowda, M. Seetharama (*with* Pang, Jong-Shi) Some existence results for multivalued complementarity problems. (English summary) **93f:90167**
— On the continuity of the solution map in linear complementarity problems. (English summary) **93k:90095**
Grishagin, V. A. *see* **Gergel', V. P.; et al., 93i:90005**
Grzegórski, S. M. Rescaled multilevel least-change almost secant methods. **93c:65071**
Güler, Osman New proximal point algorithms for convex minimization. (English summary) **93j:90076**
Han, Shih-Ping (*with* Pang, Jong-Shi; Rangaraj, Narayan) Globally convergent Newton methods for nonsmooth equations. (English summary) **93m:65070**
Hansen, Eldon ★ Global optimization using interval analysis. **93i:90002**
Higgins, J. E. *see* **Polak, Elijah; et al., 93g:90080**
Hu, Chen-Yi (*with* Bayoumi, M.; Kearfott, Ralph Baker; Yang, Qing) A parallelized algorithm for the all-row preconditioned interval Newton/generalized bisection method. (English summary) (*see* **93g:65178**)
Ip, Chi Ming (*with* Kyparisis, Jerzy) Local convergence of quasi-Newton methods for B-differentiable equations. (English summary) **93c:65072**
Jansson, C. A global optimization method using interval arithmetic. (English summary) (*see* **93i:65006**)
Jennings, L. S. *see* **Rehbock, V.; et al., 93d:49040**
Jiang, N. *see* **Robinson, Alan G.; et al., 93e:90048**
de Jong, J. L. *see* **Xu, Cheng Xian, 93g:49025**
Jongen, Hubertus Th. (*with* Rückmann, Jan) Nonlinear optimization: on connected components of level sets. (English summary) **93j:90111**
Karmarkar, Narendra Interior-point methods in optimization. (*see* **93b:00026**)
Kaul, R. N. *see* **Suneja, S. K.; et al., 93i:90096**
Kearfott, Ralph Baker *see* **Hu, Chen-Yi; et al., (93g:65178)**
(Kennedy, Ken) *see* **Parallel processing for scientific computing, 93g:65178**
Khaladi, Mohamed *see* **Penot, Jean-Paul, 93m:49016**
Khalfan, H. Fayez (*with* Byrd, Richard H.; Schnabel, Robert B.) A theoretical and experimental study of the symmetric rank-one update. (English summary) **93h:65087**
Kim, Sehun *see* **Cho, Seong-Cheol, 93b:49039**
Komlósi, Sándor Quasiconvex first order approximation. (Hungarian. English and Hungarian summaries) **93k:49013**
Konno, Hiroshi (*with* Yajima, Yasutoshi) Minimizing and maximizing the product of linear fractional functions. **93a:90068**
(Korolev, L. N.) *see* **Computer systems and problems in decision making, 93g:90002**
Kotkin, G. G. *see* **Voloshinov, V. V., 93f:90166**
(Krasnoshchekov, P. S.) *see* **Computer systems and problems in decision making, 93g:90002**
Krishnan, Hariharan (*with* McClamroch, N. Harris) Computation of state realizations for control systems described by a class of linear differential-algebraic equations. **93k:93025**
Kuip, C. A. C. *see* **Bisschop, J. J.**
Kukhtin, V. V. *see* **Gergel', V. P.; et al., 93i:90005**
Kupfer, F.-S. (*with* Sachs, Ekkehard) A prospective look at SQP methods for semilinear parabolic control problems. (*see* **93b:49002**)
Kyparisis, Jerzy *see* **Ip, Chi Ming, 93c:65072**
Lau, D. T. M. *see* **Ariyawansa, K. A., 93j:65095**
Lee, Cho Seng *see* **Rehbock, V.; et al., 93d:49040**
Lerme, C. S. *see* **Robinson, Alan G.; et al., 93e:90048**
Li, Shi Zheng Characterizations of proper efficient solutions in terms of saddle points and duality. (English summary) **93j:90089**
Li, Xing Si (*with* Templeman, A. B.) An informational entropy approach to optimization. **93c:90052**
Liu, Jian *see* **Qian, Ming Hai; et al.**
Long, Qi Hao *see* **Ding, Hui Liang; et al., (93a:41001)**
Lozovanu, D. D. *see* **Stancu-Minasian, I. M.; et al.**
Luenberger, David G. A double look at duality. (English summary) **93k:49033**
Luo, Xiao Ming (*with* Sun, You Xian; Zhou, Chun Hui) Reducing generalized predictive control dynamic iterations by using a time delay precompensator. (Chinese. English and Chinese summaries)
Luo, Zong Jun A piecewise linear programming problem and its algorithm. (Chinese. English summary) **93f:90116**
Mäkelä, Marko M. (*with* Neittaanmäki, Pekka) ★ Nonsmooth optimization. **93i:49002**
Makowski, Armand M. (*with* Shwartz, Adam) On constrained optimization of the Klimov network and related Markov decision processes. (English summary)
Maksimova, G. A. (*with* Tret'yakov, A. A.) Properties of regular problems of mathematical programming. (Russian) **93b:90065**
Martínez, José Mario Fixed-point quasi-Newton methods. (English summary) **93j:65081**

Mayne, David Q. *see* **Polak, Elijah; et al., 93g:90080**
Mazzoleni, Piera *see* **Castagnoli, Erio, 93m:26027**
McClamroch, N. Harris *see* **Krishnan, Hariharan, 93k:93025**
McNamara, J. R. On geometric programming and complementary slackness. **93g:90064**
Meilijson, Isaac Sharp bounds on the largest of some linear combinations of random variables with given marginal distributions. (English summary) **93i:60026**
(Messina, Paul) *see* **Parallel processing for scientific computing, 93g:65178**
(Mikhalevich, V. S.) *see* **Methods for solving problems of nonlinear and discrete programming, 93b:90010**
Mizuno, Shinji (*with* Nagasawa, Atsushi) Strict monotonicity in Todd's low-complexity algorithm for linear programming. (English summary) **93h:90060**
Moliboga, S. M. Some decision-making problems under conditions of uncertainty based on the minimax risk criterion. (Russian) (*see* **93m:00036**)
Morgan, Alexander P. (*with* Sommese, Andrew J.) Errata: "Computing all solutions to polynomial systems using homotopy continuation" [Appl. Math. Comput. **24** (1987), no. 2, 115–138; MR 89b:65126]. **93g:65077**
— (*with* Sommese, Andrew J.) Errata: "Coefficient-parameter polynomial continuation" [Appl. Math. Comput. **29** (1989), no. 2, part II, 123–160; MR 90f:58018].
Moullif, Khalil (*with* Nguyen, Van Hien; Strodiot, Jean-Jacques) A perturbed parallel decomposition method for a class of nonsmooth convex minimization problems. **93b:90066**
Muskat, Joseph B. Generalized Fibonacci and Lucas sequences and rootfinding methods. (English summary) **93k:65004**
Nagasawa, Atsushi *see* **Mizuno, Shinji, 93h:90060**
Nagurney, Anna (*with* Robinson, Alan G.) Algorithms for quadratic constrained matrix problems. **93b:65088**
— *see also* **Thore, Sten; et al., 93g:90078**
Nanda, Sudarsan Generalized convexity in mathematical programming. (English summary) **93f:90128**
Neittaanmäki, Pekka *see* **Mäkelä, Marko M., 93i:49002**
Nenakhov, È. I. On an investigation of equilibrium states. (Russian) **93c:90020**
Nguyen, Van Hien *see* **Moullif, Khalil; et al., 93b:90066**
Nooriafshar, Mehryar Towards nonalgorithmic optimization: a practical and general purpose method of formulating and solving dynamic programming problems. (English summary) (*see* **93d:90005**)
Palocsay, Susan W. *see* **Falk, James E., 93a:90067**
Pan, Bing Chen *see* **Ding, Hui Liang; et al., (93a:41001)**
Pan, Jie *see* **Thore, Sten; et al., 93g:90078**
Pang, Jong-Shi *see* **Gowda, M. Seetharama, 93f:90167** *and* **Han, Shih-Ping; et al., 93m:65070**
(Pau, Louis-F.) *see* **Computational economics and econometrics, 93b:90009**
Pavlovskiĭ, Yu. N. Decomposition and optimization. (Russian) (*see* **93k:90002**)
Penot, Jean-Paul (*with* Khaladi, Mohamed) Estimates of the exact penalty coefficient threshhold. (English summary) **93m:49016**
Pesamosca, Giancarlo On the optimality conditions for the problem of minimizing a sum of Euclidean norms. (English summary) **93h:90070**
Phan Thiên Thạch A generalized nonconvex duality with zero gap and applications. (*see* **93e:90003**)
Pinar, Mustafa Ç. *see* **Zenios, Stavros A., 93f:90177**
Plassmann, Paul E. *see* **Coleman, Thomas F., 93a:65068**
Polak, Elijah (*with* Higgins, J. E.; Mayne, David Q.) A barrier function method for minimax problems. **93g:90080**
— *see also* **Wiest, E. J., 93e:49014**
Preda, Vasile On generalized convexity and duality with a square root term. (English summary) **93j:90077**
Qian, Ming Hai (*with* Wu, Hong Ji; An, Li Bang; Liu, Jian) A study on saddle point programming and geometric error evaluation theory. (Chinese. English and Chinese summaries)
Rahman, Ali bin Abdul On the numerical solution of generalised polynomial equations using an optimisation-based algorithm. (English summary) **93g:65064**
Ramani, K. V. Graphics software for teaching optimization algorithms. (English summary) (*see* **93d:90005**)
Rangaraj, Narayan *see* **Han, Shih-Ping; et al., 93m:65070**
Reemtsen, Rembert A cutting plane method for solving minimax problems in the complex plane. (English summary) **93j:65097**
Rehbock, V. (*with* Teo, Kok Lay; Jennings, L. S.; Lee, Cho Seng) An exact penalty function approach to all-time-step constrained discrete-time optimal control problems. **93d:49040**
Rendl, Franz (*with* Wolkowicz, Henry) Applications of parametric programming and eigenvalue maximization to the quadratic assignment problem. **93c:90098**
Richter, Claus Numerical methods for solving parametric optimization problems. (Russian) (*see* **93k:90002**)
Robinson, Alan G. (*with* Jiang, N.; Lerme, C. S.) On the continuous quadratic knapsack problem. **93e:90048**
— *see also* **Nagurney, Anna, 93b:65088**
Robinson, Stephen M. Bundle-based decomposition: conditions for convergence. (English summary) (*see* **93h:49003**)
Rockafellar, R. Tyrrell (*with* Wets, Roger J.-B.) Cosmic convergence. **93j:49015**
Rogatneva, E. A. *see* **Gergel', V. P.; et al., 93i:90005**
Rosen, J. B. (*with* Xue, Guo Liang) A globally convergent algorithm for the Euclidean multiplicity location problem. (English summary) **93k:90067**
Roy, Asim (*with* Wallenius, Jyrki) Nonlinear multiple objective optimization: an algorithm and some theory. **93e:90055**
Rückmann, Jan *see* **Jongen, Hubertus Th., 93j:90111**
Sachs, Ekkehard *see* **Kupfer, F.-S., (93b:49002)**
Šaltenis, Vydūnas ★ Анализ структуры задач оптимизации. (Russian) [Analysis of the structure of optimization problems] **93b:90006**
Sartenaer, A. *see* **Conn, Andrew R.; et al., 93k:90069**
Scheiber, E. On the convergence of the Y. Sakawa and Y. Shindo algorithm for optimal control. (Romanian summary) **93e:49046**
Schittkowski, Klaus Heuristic reasoning in mathematical programming. (Russian and Lithuanian summaries) **93a:90004**
Schmidt, Jochen W. Constrained smoothing of histograms by quadratic splines. (German summary) **93f:65018**
Schnabel, Robert B. *see* **Khalfan, H. Fayez; et al., 93h:65087**
Senkienė, Elvyra On certain global optimization algorithms. (Russian. English summary) **93i:90070**
Sheng, Song Bai (*with* Zhu, Yi Ran) A collinear scaling symmetric rank-one updating algorithm. (Chinese. English summary) **93a:65089**
Sheu, R.-L. (*with* Fang, S. C.) Insights into the interior-point methods. **93f:90109**
Shmelëv, V. V. Exact penalty functions in linear and integer linear programming. (Russian. Russian summary) **93g:90055**
Shwartz, Adam *see* **Makowski, Armand M.**
Singh, Chanchal *see* **Suneja, S. K.; et al., 93i:90096**
Solomon, D. I. *see* **Stancu-Minasian, I. M.; et al.**
Sommese, Andrew J. *see* **Morgan, Alexander P., 93g:65077**
(Sorensen, Danny C.) *see* **Parallel processing for scientific computing, 93g:65178**
Stancu-Minasian, I. M. (*with* Ţigan, Ştefan; Lozovanu, D. D.; Solomon, D. I.) On a parametrical method for solving bicriterion max-min fractional problems. (English, Russian and Moldavian summaries)
Stoer, Josef A dual algorithm for solving degenerate linearly constrained linear least squares problems. (English summary) **93i:65066**
Strodiot, Jean-Jacques *see* **Moullif, Khalil; et al., 93b:90066**
Strongin, R. G. *see* **Gergel', V. P.; et al., 93i:90005**
Sun, Qing Ying *see* **Zhao, Fu An; et al., 93k:90075**
Sun, Xian Xue *see* **Ding, Hui Liang; et al., (93a:41001)**
Sun, You Xian *see* **Luo, Xiao Ming; et al.**
Suneja, S. K. (*with* Singh, Chanchal; Kaul, R. N.) Optimality and duality in continuous-time nonlinear fractional programming. (English summary) **93i:90096**
Sutti, C. Optimality conditions in quasidifferentiable mathematical programming. (English summary)
Takahashi, Toshihiko *see* **Yabe, Hiroshi, 93a:90051**
Teboulle, Marc Entropic proximal mappings with applications to nonlinear programming. (English summary) **93h:90074**
Templeman, A. B. *see* **Li, Xing Si, 93c:90052**
Teo, Kok Lay *see* **Rehbock, V.; et al., 93d:49040**
Thore, Sten (*with* Nagurney, Anna; Pan, Jie) Generalized goal programming and variational inequalities. (English summary) **93g:90078**
Tidball, Mabel M. *see* **González, Roberto L. V., 93e:65092**
Ţigan, Ştefan *see* **Stancu-Minasian, I. M.; et al.**
Toint, Ph. L. *see* **Conn, Andrew R.; et al., 93k:90069**
Tret'yakov, A. A. *see* **Maksimova, G. A., 93b:90065**
Tszi, Syaofu A simplicial method for solving a discrete minimax problem. (Russian. English summary) **93j:90062**
Tyatyushkin, A. I. ★ Численные методы и программные средства оптимизации управляемых систем. (Russian. Russian summary) [Numerical methods and program means for optimization of control systems] **93i:49003**
Vavasis, Stephen A. Local minima for indefinite quadratic knapsack problems. **93f:90125**
— Black-box complexity of local minimization. (English summary) **93m:90103**
Veverka, Vladimír A method of reconciliation of measured data with nonlinear constraints. **93a:65075**
(Voigt, Robert G.) *see* **Parallel processing for scientific computing, 93g:65178**
Voloshinov, V. V. (*with* Kotkin, G. G.) ★ Параметрические свойства обратных задач оптимизации. (Russian. Russian summary) [Parametric properties of inverse problems of optimization] **93f:90166**
Vysotskaya, I. N. *see* **Gergel', V. P.; et al., 93i:90005**
Waggoner, C. A. (*with* Combs, L. L.) Optimization techniques in energy calculations involving the Hartree-Fock density matrix. (English summary)
Wallenius, Jyrki *see* **Roy, Asim, 93e:90055**
Wang, Jia Song *see* **Chen, Zhong Wen, 93b:65070**
Weir, T. Programming with semilocally convex functions. **93d:49043**
Wets, Roger J.-B. *see* **Rockafellar, R. Tyrrell, 93j:49015**
White, Douglas John A parametric-based heuristic program for the quadratic assignment problem. (English summary) **93m:90066**
Wiest, E. J. (*with* Polak, Elijah) On the rate of convergence of two minimax algorithms. **93e:49014**
Wolkowicz, Henry *see* **Rendl, Franz, 93c:90098**
Wright, Margaret H. Interior methods for constrained optimization. **93d:90037**
Wu, Hong Ji *see* **Qian, Ming Hai; et al.**
Wu, Lian Yuan *see* **Ye, Hua; et al.**
Xia, Zun Quan Generalized Fritz John necessary conditions for quasidifferentiable minimization. (*see* **93a:41001**)
Xu, Cheng Xian (*with* de Jong, J. L.) Sequential quadratic programming methods for optimal control problems with state constraints. **93g:49025**
Xue, Guo Liang *see* **Rosen, J. B., 93k:90067**
Yabe, Hiroshi (*with* Takahashi, Toshihiko) Numerical comparison among structured quasi-Newton methods for nonlinear least squares problems. **93a:90051**
Yajima, Yasutoshi *see* **Konno, Hiroshi, 93a:90068**
Yakovlev, S. V. (*with* Dyubko, A. G.) Approximate approach to the solution of minimax problems on vertices of a permutation polyhedron. (Russian) **93c:90043**
Yakowitz, Diana An exact penalty algorithm for recourse-constrained stochastic linear programs. **93k:90065**
Yang, Qing *see* **Hu, Chen-Yi; et al., (93g:65178)**
Yang, Yao Wen *see* **Ye, Hua; et al.**
Ye, Hua (*with* Yang, Yao Wen; Wu, Lian Yuan) New augmented multipliers and their application in optimal design. (Chinese. Chinese summary)
Zeng, Jin Ping Convergence and convergence rate of projection relaxation iterations. (English and Chinese summaries) **93i:90099**
Zenios, Stavros A. (*with* Pinar, Mustafa Ç.) Parallel block-partitioning of truncated Newton for nonlinear network optimization. (English summary) **93f:90177**
Zhao, Fu An (*with* Zhou, Hou Chun; Zhou, Guang Lu; Sun, Qing Ying) The Kuhn-Tucker

sufficient conditions for a class of nonsmooth programming problems. (Chinese. English and Chinese summaries) **93k:90075**

Zhiglyavskiĭ, A. A. (*with* Žilinskas, Antanas) ★ Методы поиска глобального экстремума. (Russian) [Methods for searching for the global extremum] **93f:90004**

— ★ Theory of global random search. **93i:90004**

Zhou, Chun Hui *see* **Luo, Xiao Ming; et al.**

Zhou, Guang Lu *see* **Zhao, Fu An; et al., 93k:90075**

Zhou, Hou Chun *see* **Zhao, Fu An; et al., 93k:90075**

Zhu, Yi Ran *see* **Sheng, Song Bai, 93a:65089**

Žilinskas, Antanas Statistical models of multi-extremal functions and the construction of global optimization algorithms. (Russian) (*see* **93k:90002**)

— *see also* **Zhiglyavskiĭ, A. A., 93f:90004**

Zlobec, Sanjo Characterizing optimality in nonconvex optimization. **93k:90092**

— Addendum: "Characterizing optimality in nonconvex optimization" [Yugosl. J. Oper. Res. **1** (1991), no. 1, 3–14; MR 93k:90092]. (English summary) **93k:90093**

Items listed otherwise than by author

Computational economics and econometrics ★ Computational economics and econometrics. **93b:90009**

Computer systems and problems in decision making ★ Вычислительные системы и вопросы принятия решений. (Russian) [Computer systems and problems in decision making] **93g:90002**

Conference:

Parallel Processing for Scientific Computing ★ Parallel processing for scientific computing. **93g:65178**

Houston, TX ★ Parallel processing for scientific computing. **93g:65178**

Irkutsk ★ Оптимизация: модели, методы, решения. (Russian) [Optimization: models, methods, solutions] **93k:90002**

Meeting:

Society of Economic Dynamics and Control ★ Computational economics and econometrics. **93b:90009**

Methods for solving problems of nonlinear and discrete programming ★ Методы решения задач нелинейного и дискретного программирования. (Russian) [Methods for solving problems of nonlinear and discrete programming] **93b:90010**

Minneapolis, MN ★ Computational economics and econometrics. **93b:90009**

Optimization: models, methods, solutions ★ Оптимизация: модели, методы, решения. (Russian) [Optimization: models, methods, solutions] **93k:90002**

Parallel processing for scientific computing ★ Parallel processing for scientific computing. **93g:65178**

School:

Optimization Methods and their Applications ★ Оптимизация: модели, методы, решения. (Russian) [Optimization: models, methods, solutions] **93k:90002**

90C31 Sensitivity, stability, parametric optimization

Abramova, M. V. A gradient algorithm for the approximate solution of problems in parametric programming. (Russian. Russian summary) **93k:90091**

Adler, Ilan (*with* Monteiro, Renato D. C.) A geometric view of parametric linear programming. **93e:90061**

Artstein, Zvi Sensitivity to σ-fields of information in stochastic allocation. **93f:90165**

Bednarczuk, Ewa (*with* Penot, Jean-Paul) On the positions of the notions of well-posed minimization problems. (Italian summary) **93j:90108**

Bonnans, Joseph Frédéric A review of some recent results in the perturbation theory of nonlinear programs. (English summary) **93j:90109**

— Directional derivatives of optimal solutions in smooth nonlinear programming. **93c:90088**

— *see also* **Shapiro, Alexander, 93m:90086**

Charnes, Abraham (*with* Haag, S.; Jaska, P.; Semple, John Hartley) Sensitivity of efficiency classifications in the additive model of data envelopment analysis. **93a:90066**

Cuesta Saínz de la Torre, Lylia E. A note on the quantitative stability of infinite-dimensional parametric optimization problems. (English and Spanish summaries) **93j:90110**

Cui, Jin Chuan (*with* Liu, De Gang; Zhang, Xiang Sun) Improvements on the sensitivity analysis of parametric linear programming. (Chinese) **93g:90071**

Gauvin, J. (*with* Janin, R.) Directional Lipschitzian optimal solutions and directional derivative for the optimal value function in nonlinear mathematical programming. (English summary) (*see* **93h:49003**)

Haag, S. *see* **Charnes, Abraham; et al., 93a:90066**

Janin, R. *see* **Gauvin, J., (93h:49003)**

Jaska, P. *see* **Charnes, Abraham; et al., 93a:90066**

Jongen, Hubertus Th. (*with* Rückmann, Jan) Nonlinear optimization: on connected components of level sets. (English summary) **93j:90111**

King, Alan J. (*with* Rockafellar, R. Tyrrell) Sensitivity analysis for nonsmooth generalized equations. **93d:90064**

Kotkin, G. G. *see* **Voloshinov, V. V., 93f:90166**

Krysov, Yu. A. Making and coordinating decisions in certain procedures of parametric analysis in optimization problems. (Russian) **93b:90093**

Kummer, Bernd On stability and Newton-type methods for Lipschitzian equations with applications to optimization problems. **93h:90096**

Liu, De Gang *see* **Cui, Jin Chuan; et al., 93g:90071**

Lundberg, Bruce N. (*with* Poore, Aubrey B.) Numerical continuation and singularity detection methods for parametric nonlinear programming. (English summary) **93m:90085**

Monteiro, Renato D. C. *see* **Adler, Ilan, 93e:90061**

Pappalardo, M. Error bounds for generalized Lagrange multipliers in locally Lipschitz programming. **93b:90094**

Pateva, Darinka D. Most of the one-parametric linear optimization problems are regular. **93e:90062**

Penot, Jean-Paul *see* **Bednarczuk, Ewa, 93j:90108**

Poore, Aubrey B. *see* **Lundberg, Bruce N., 93m:90085**

Richter, Claus Numerical methods for solving parametric optimization problems. (Russian) (*see* **93k:90002**)

Robinson, Stephen M. Bundle-based decomposition: conditions for convergence. (English summary) (*see* **93h:49003**)

— Homeomorphism conditions for normal maps of polyhedra. **93j:90112**

— Normal maps induced by linear transformations. **93h:90097**

Rockafellar, R. Tyrrell *see* **King, Alan J., 93d:90064**

Rückmann, Jan *see* **Jongen, Hubertus Th., 93j:90111**

Semple, John Hartley *see* **Charnes, Abraham; et al., 93a:90066**

Shapiro, Alexander (*with* Bonnans, Joseph Frédéric) Sensitivity analysis of parametrized programs under cone constraints. (English summary) **93m:90086**

Voloshinov, V. V. (*with* Kotkin, G. G.) ★ Параметрические свойства обратных задач оптимизации. (Russian. Russian summary) [Parametric properties of inverse problems of optimization] **93f:90166**

Ye, Dong Yi Sensitivity analysis of the greatest eigenvalue of a symmetric matrix via the ε-subdifferential of the associated convex quadratic form. (English summary) **93j:90113**

Zălinescu, Constantin A note on d-stability of convex programs and limiting Lagrangians. **93b:90095**

Zhang, Xiang Sun *see* **Cui, Jin Chuan; et al., 93g:90071**

Zlobec, Sanjo Characterizing optimality in nonconvex optimization. **93k:90092**

— Addendum: "Characterizing optimality in nonconvex optimization" [Yugosl. J. Oper. Res. **1** (1991), no. 1, 3–14; MR 93k:90092]. (English summary) **93k:90093**

Items with secondary classifications in 90C31

Abdèl'-Gilel', Mukhamed Akhmed A stable method for solving a two-stage problem of linear programming. (Russian. Tajiki summary) **93b:90041**

Al-Khayyal, Faiz A. (*with* Horst, Reiner; Pardalos, Panos M.) Global optimization of concave functions subject to quadratic constraints: an application in nonlinear bilevel programming. **93c:90072**

Antunes, Carlos Henggeler (*with* Clímaco, João C. Namorado) Sensitivity analysis in MCDM using the weight space. (English summary) **93f:90140**

Arai, Kaori *see* **Yamamura, Kiyotaka; et al., 93h:90094**

Auslender, A. A. (*with* Crouzeix, Jean-Pierre) Well behaved asymptotical convex functions. (English summary) (*see* **93h:49003**)

Bednarczuk, Ewa (*with* Penot, Jean-Paul) Metrically well-set minimization problems. (English summary) **93f:49027**

Beer, Gerald (*with* Lucchetti, Roberto) The epi-distance topology: continuity and stability results with applications to convex optimization problems. (English summary) **93k:49011**

Ben Larbi, Miloud Régularité des solutions d'un problème de submersion dépendant d'un paramètre pour une classe de fonctions multivoques. (English summary) [Regularity of the solutions of a parametrized submersion problem for a class of multivalued functions] **93b:47116**

Borisenko, O. F. (*with* Minchenko, L. I.) Directional derivatives of the maximum function. (Russian. Ukrainian summary) **93k:49015**

— *see also* **Minchenko, L. I., 93h:49002**

Clímaco, João C. Namorado *see* **Antunes, Carlos Henggeler, 93f:90140**

Coyle, A. J. (*with* Taylor, P. G.) Bounds on the sensitivity of generalised semi-Markov processes with a single generally distributed lifetime. **93d:60147**

Crouzeix, Jean-Pierre *see* **Auslender, A. A., (93h:49003)**

Dauer, J. P. (*with* Saleh, Ossama A.) A representation of the set of feasible objectives in multiple objective linear programs. **93a:90056**

Desplas, M. Matrice pseudo-inverse de Moore-Penrose et variables duales généralisées en programmation mathématique. (English and French summaries) [The Moore-Penrose pseudo-inverse matrix and generalized dual variables in mathematical programming] **93j:90096**

Dugošija, Djordje P. On stability in quasiconvex semi-infinite optimization. **93b:90098**

Dutta, Prajit K. Finite horizon optimization: sensitivity and continuity in multi-sectoral models. (English summary) **93j:90034**

Erëmin, I. I. Improper optimization problems. (Russian) (*see* **93k:90002**)

Galperin, Efim A. Nonscalarized multiobjective global optimization. (English summary) **93m:90068**

Gao, Shi Bao *see* **Zhang, Ke Feng; et al., (93a:41001)**

Gautier, Antoine (*with* Granot, Frieda) A parametric analysis of a nonlinear asset allocation management model. (English summary) **93f:90059**

Gondzio, J. (*with* Ruszczyński, Andrzej) Sensitivity method for basis inverse representation in multistage stochastic linear programming problems. **93e:90046**

Gorokhovik, V. V. (*with* Zor'ko, O. I.) Polyhedral quasidifferentiability of real-valued functions. (Russian. English and Russian summaries) **93i:49022**

Gowda, M. Seetharama On the continuity of the solution map in linear complementarity problems. (English summary) **93k:90095**

Granot, Frieda *see* **Gautier, Antoine, 93f:90059**

Horst, Reiner *see* **Al-Khayyal, Faiz A.; et al., 93c:90072**

Hu, Yu Da (*with* Xu, Yong Ming) Uniform approximation of a multiobjective optimization sequence. (English summary) **93j:90087**

Huang, Zhen Sheng *see* **Wang, Hsiao Fan, 93k:90051**

Ip, Chi Ming *see* **Kyparisis, Jerzy, 93g:90076**

Ito, Kazufumi (*with* Kunisch, K.) Sensitivity analysis of solutions to optimization problems in Hilbert spaces with applications to optimal control and estimation. (English summary) **93e:49039**

Jongen, Hubertus Th. (*with* Twilt, F.; Weber, G.-W.) Semi-infinite optimization: structure and stability of the feasible set. **93a:90073**

Jourani, A. Regularity and strong sufficient optimality conditions in differentiable optimization problems. (English summary) **93k:49023**

Kawasaki, Hidefumi Second-order necessary and sufficient optimality conditions for minimizing a sup-type function. **93d:49032**

Kiyoi, Masahiro *see* **Yamamura, Kiyotaka; et al., 93h:90094**

Klose, Jürgen Sensitivity analysis using the tangent derivative. **93d:49018**

Konno, Hiroshi (*with* Kuno, Takahito) Linear multiplicative programming. (English summary) **93e:90051**

— *see also* **Kuno, Takahito; et al., 93k:90072**

Kunisch, K. *see* **Ito, Kazufumi, 93e:49039**

Kuno, Takahito (*with* Konno, Hiroshi; Yamamoto, Yoshitsugu) A parametric successive

underestimation method for convex programming problems with an additional convex multiplicative constraint. (English summary) **93k:90072**

— *see also* **Konno, Hiroshi, 93e:90051**

Kushner, Harold J. (*with* Yang, Jichuan) A Monte Carlo method for sensitivity analysis and parametric optimization of nonlinear stochastic systems: the ergodic case. **93a:90049**

Kyparisis, Jerzy (*with* Ip, Chi Ming) Solution behavior for parametric implicit complementarity problems. (English summary) **93g:90076**

Levin, Vitalii Il'ich Discrete optimization under conditions of interval uncertainty. (Russian. Russian summary) **93i:90069**

Li, Shi Zheng Characterizations of proper efficient solutions in terms of saddle points and duality. (English summary) **93j:90089**

Lucchetti, Roberto *see* **Beer, Gerald, 93k:49011**

Luo, Zhi-Quan (*with* Tseng, Paul) On a global error bound for a class of monotone affine variational inequality problems. (English summary) **93i:90097**

Minchenko, L. I. Directional differentiation of marginal functions in mathematical programming problems. (Russian. English and Ukrainian summaries) **93k:49014**

— (*with* Borisenko, O. F.) ★ Дифференциальные свойства маргинальных функций и их приложения к задачам оптимизации. (Russian) [Differential properties of marginal functions and their applications to optimization problems] **93h:49002**

— *see also* **Borisenko, O. F., 93k:49015**

Norkin, V. I. Conditions for and convergence rate of the method of empirical averages in mathematical statistics and stochastic programming. (Russian. English and Ukrainian summaries) **93k:90063**

Pai, D. V. *see* **Shunmugaraj, P., 93e:49042**

Pardalos, Panos M. *see* **Al-Khayyal, Faiz A.; et al., 93c:90072**

Patrone, Fioravante (*with* Revalski, Julian Petrov) Characterization of Tikhonov well-posedness for preorders. **93g:49019a**

— (*with* Revalski, Julian Petrov) Errata: "Characterization of Tikhonov well-posedness for preorders". **93g:49019b**

Penot, Jean-Paul *see* **Bednarczuk, Ewa, 93f:49027**

Postolică, V. Supernormal cones and existence results for efficient points. **93e:90054**

Rao, Murali (*with* Sokołowski, Jan) Differential stability of perturbed optimization with applications to parameter estimation. (English summary) (*see* **93c:93006**)

Rapoport, È. Ya. Chebyshev approximations in problems of parametric optimization of control processes. I. Necessary conditions for optimality and computational algorithms. (Russian. Russian summary) **93f:49024**

— Chebyshev approximations in problems of parametric optimization of control processes. II. Alternance properties of optimal solutions. (Russian. Russian summary) **93f:49025**

— Chebyshev approximations in problems of parametric optimization of control processes. III. Optimal control problems. (Russian. Russian summary) **93f:49026**

Revalski, Julian Petrov *see* **Patrone, Fioravante, 93g:49019a** *and* **93g:49019b**

Ruszczyński, Andrzej *see* **Gondzio, J., 93e:90046**

Saleh, Ossama A. *see* **Dauer, J. P., 93a:90056**

Santos, Manuel S. Differentiability and comparative analysis in discrete-time infinite-horizon optimization. **93e:49041**

Seider, Warren D. *see* **Sun, Amy C., 93f:90159**

Shapiro, Alexander Perturbation analysis of optimization problems in Banach spaces. **93c:49019**

Shunmugaraj, P. (*with* Pai, D. V.) On stability of approximate solutions of minimization problems. **93e:49042**

Shvartin, S. M. ★ Об общей устойчивости канонических задач линейного программирования. (Russian) [On the general stability of canonical problems of linear programming] **93c:90041**

Silcock, J. P. Phase-based optimisation of isolated signal-controlled junctions: sensitivity analysis and a treatment of double green phases. (English summary) **93h:90039**

Sokołowski, Jan *see* **Rao, Murali, (93c:93006)**

Sun, Amy C. (*with* Seider, Warren D.) Homotopy-continuation algorithm for global optimization. **93f:90159**

Taylor, P. G. *see* **Coyle, A. J., 93d:60147**

Tian, Guo Qiang (*with* Zhou, Jian-Xin) The maximum theorem and the existence of Nash equilibrium of (generalized) games without lower semicontinuities. **93j:49010**

Tobin, Roger L. Uniqueness results and algorithm for Stackelberg-Cournot-Nash equilibria. **93a:90085**

Tseng, Paul *see* **Luo, Zhi-Quan, 93i:90097**

Twilt, F. *see* **Jongen, Hubertus Th.; et al., 93a:90073**

Vogel, Silvia On stability in multiobjective programming—a stochastic approach. (English summary) **93j:90093**

Wang, Hsiao Fan (*with* Huang, Zhen Sheng) The maximal tolerance analysis of the constraint matrix in linear programming. (English and Chinese summaries) **93k:90051**

Wang, Shu Yu *see* **Zhang, Ke Feng; et al., (93a:41001)**

Ward, D. E. Differential stability in non-Lipschitzian optimization. **93c:49011**

Weber, G.-W. *see* **Jongen, Hubertus Th.; et al., 93a:90073**

Xu, Yong Ming *see* **Hu, Yu Da, 93j:90087**

Yamamoto, Yoshitsugu *see* **Kuno, Takahito; et al., 93k:90072**

Yamamura, Kiyotaka (*with* Arai, Kaori; Kiyoi, Masahiro) A piecewise-linear homotopy method for nonlinear programming. **93h:90094**

Yang, Jichuan *see* **Kushner, Harold J., 93a:90049**

Yatsenko, L. V. On a problem of parametric optimization of a function series. (Russian) **93c:94002**

Zarubina, A. I. Linear recognition problems with exclusion. (Russian. Russian summary) **93f:90122**

Zhang, Ke Feng (*with* Gao, Shi Bao; Wang, Shu Yu) Explicit sensitivity analysis and its applications in 2-D structural optimization. (*see* **93a:41001**)

Zhang, Rou Lei *see* **Zhong, Wan Xie, (93a:41001)**

Zhang, Xiang Sun Research on stability of solutions to parametric linear programming problems. (Chinese. English and Chinese summaries)

Zhong, Wan Xie (*with* Zhang, Rou Lei) Nonlinear analysis by parametric quadratic programming method. (*see* **93a:41001**)

Zhou, Jian-Xin *see* **Tian, Guo Qiang, 93j:49010**

Zhu, Ji Shan A path following algorithm for a class of convex programming problems. (English summary) **93h:90095**

Zor'ko, O. I. *see* **Gorokhovik, V. V., 93i:49022**

90C32 Fractional programming

Bector, C. R. (*with* Chandra, Suresh; Husain, I.) Generalized continuous fractional programming duality: a parametric approach. (English summary) **93k:90094**

Chandra, Suresh *see* **Bector, C. R.; et al., 93k:90094**

Du, Dong Lei A graphical method for a class of linear fractional programs. (Chinese. English and Chinese summaries) **93m:90087**

Falk, James E. (*with* Palocsay, Susan W.) Optimizing the sum of linear fractional functions. **93a:90067**

Husain, I. *see* **Bector, C. R.; et al., 93k:90094**

Kaul, R. N. *see* **Suneja, S. K.; et al., 93i:90096**

Konno, Hiroshi (*with* Yajima, Yasutoshi) Minimizing and maximizing the product of linear fractional functions. **93a:90068**

Lozovanu, D. D. *see* **Stancu-Minasian, I. M.; et al.**

Palocsay, Susan W. *see* **Falk, James E., 93a:90067**

Saad, Omar Mohamed An algorithm for solving the integer linear fractional programs. (English summary)

Singh, Chanchal *see* **Suneja, S. K.; et al., 93i:90096**

Solomon, D. I. *see* **Stancu-Minasian, I. M.; et al.**

Stancu-Minasian, I. M. (*with* Ţigan, Ştefan; Lozovanu, D. D.; Solomon, D. I.) On a parametrical method for solving bicriterion max-min fractional problems. (English, Russian and Moldavian summaries)

Suneja, S. K. (*with* Singh, Chanchal; Kaul, R. N.) Optimality and duality in continuous-time nonlinear fractional programming. (English summary) **93i:90096**

Ţigan, Ştefan *see* **Stancu-Minasian, I. M.; et al.**

Xu, Zeng Kun Duality in generalized nonlinear fractional programming. (English summary) **93g:90072**

Yajima, Yasutoshi *see* **Konno, Hiroshi, 93a:90068**

Items with secondary classifications in 90C32

Aggarwal, Shashi *see* **Bector, C. R.; et al., 93c:90068**

Bector, C. R. (*with* Bhatia, Davinder; Aggarwal, Shashi) Multiobjective fractional programming duality: a nondifferentiable case. **93c:90068**

Bhatia, Davinder (*with* Pandey, Shashi) Subgradient duality and duality for multiobjective fractional programming involving invex functions. **93b:90058**

— *see also* **Bector, C. R.; et al., 93c:90068**

Chadha, S. S. Optimization of a quadratic fractional function. (English summary)

Hughes, J. B. Interior efficient solutions in bicriterion linear fractional programming—a geometric approach. (English summary) **93k:90079**

Jeyakumar, V. (*with* Mond, B.) On generalised convex mathematical programming. **93d:90056**

Mond, B. *see* **Jeyakumar, V., 93d:90056**

Pandey, Shashi *see* **Bhatia, Davinder, 93b:90058**

Rueda, Norma G. *see* **Singh, Chanchal; et al., 93j:90092**

Singh, Chanchal (*with* Suneja, S. K.; Rueda, Norma G.) Preinvexity in multiobjective fractional programming. (English summary) **93j:90092**

Stancu-Minasian, I. M. *see* **Ţigan, Ştefan, 93f:90145**

Suneja, S. K. *see* **Singh, Chanchal; et al., 93j:90092**

Ţigan, Ştefan (*with* Stancu-Minasian, I. M.) On a bicriterion max-min fractional problem. **93f:90145**

90C33 Complementarity problems

Al-Shemas, Eman H. *see* **Noor, Muhammad Aslam, 93g:90077**

Anstreicher, Kurt M. (*with* Lee, Jon[2]; Rutherford, Thomas F.) Crashing a maximum-weight complementary basis. **93a:90069**

Behera, A. (*with* Panda, G. K.) A generalized nonlinear complementarity problem of mathematical programming in Banach spaces. (English summary) **93g:90073**

Chang, Yow Yieh *see* **Cottle, Richard W., 93g:90075**

Cottle, Richard W. (*with* Guu, Sy-Ming) Two characterizations of sufficient matrices. **93g:90074**

— (*with* Chang, Yow Yieh) Least-index resolution of degeneracy in linear complementarity problems with sufficient matrices. (English summary) **93g:90075**

De Leone, R. Partially and totally asynchronous algorithms for linear complementarity problems. **93c:90089**

Ebiefung, Aniekan A. (*with* Kostreva, Michael M.) Global solvability of generalized linear complementarity problems and a related class of polynomial complementarity problems. **93a:90070**

Eggermont, P. P. B. On Volterra-Lotka differential equations and multiplicative algorithms for monotone complementarity problems. (English summary) **93j:90114**

Eschenauer, H. A. (*with* Vietor, T.) An augmented optimization procedure for stochastic optimization and its application to design with advanced materials. (English summary) (*see* **93e:90003**)

Faustino, Ana M. *see* **Júdice, Joaquím J., 93b:90096** *and* **(93e:90003)**

Fukuda, Komei (*with* Terlaky, Tamás) Linear complementarity and oriented matroids. **93j:90115**

Fülöp, J. A semi-infinite programming method for approximating load duration curves by polynomials. (English and German summaries) **93j:90116**

Gabriel, Steven A. (*with* Pang, Jong-Shi) An inexact NE/SQP method for solving the nonlinear complementarity problem. (English summary) **93j:90117**

Gowda, M. Seetharama (*with* Pang, Jong-Shi) Some existence results for multivalued complementarity problems. (English summary) **93f:90167**

— On the continuity of the solution map in linear complementarity problems. (English summary) **93k:90095**

Guu, Sy-Ming *see* **Cottle, Richard W., 93g:90074**

He, Bing Sheng A projection and contraction method for a class of linear complementarity problems and its application in convex quadratic programming. **93c:90090**

Hu, Xin Sheng (*with* Tang, Huan Wen) The theory of the complementarity problem for set-valued mappings and its application. (Chinese. English and Chinese summaries) **93f:90168**

Huang, Nan Jing *see* **Zhang, Shi Sheng, 93c:90093**

Ip, Chi Ming *see* **Kyparisis, Jerzy, 93g:90076**

Isac, George Iterative methods for the general order complementarity problem. **93f:90169**

Júdice, Joaquím J. (*with* Machado, J.; Faustino, Ana M.) An extension of Lemke's method for the solution of a generalized linear complementarity problem. (English summary) (*see* **93e:90003**)

— (*with* Faustino, Ana M.) A sequential LCP method for bilevel linear programming. **93b:90096**

— (*with* Pires, F. M.) Basic-set algorithm for a generalized linear complementarity problem. (English summary) **93h:90098**

Kalashnikov, V. V. (*with* Kalashnikova, N. I.) Convergence of the Newton method for the nonlinear complementarity problem. (Russian) **93c:90091**

Kalashnikova, N. I. *see* **Kalashnikov, V. V., 93c:90091**

Kojima, Masakazu (*with* Megiddo, Nimrod; Noma, Toshihito) Homotopy continuation methods for nonlinear complementarity problems. **93b:90097**

— (*with* Megiddo, Nimrod; Ye, Yinyu) An interior point potential reduction algorithm for the linear complementarity problem. **93d:90065**

Kostreva, Michael M. *see* **Ebiefung, Aniekan A., 93a:90070**

Kou, Shu Shun Some remarks on the linear complementarity problem and convex quadratic programming. (Chinese. English and Chinese summaries)

Kyparisis, Jerzy (*with* Ip, Chi Ming) Solution behavior for parametric implicit complementarity problems. (English summary) **93g:90076**

Lee, Jon² *see* **Anstreicher, Kurt M.; et al., 93a:90069**

Li, Wu Remarks on convergence of the matrix splitting algorithm for the symmetric linear complementarity problem. (English summary) **93j:90118**

Li, Yao Tang *see* **Zhang, Shi Sheng, 93d:90066**

Luo, Zhi-Quan (*with* Tseng, Paul) On a global error bound for a class of monotone affine variational inequality problems. (English summary) **93i:90097**

Ma, Xiao Xian *see* **Shi, Guang Yan, 93c:90092**

Machado, J. *see* **Júdice, Joaquím J.; et al., (93e:90003)**

Megiddo, Nimrod *see* **Kojima, Masakazu; et al., 93b:90097** *and* **93d:90065**

Mizuno, Shinji A new polynomial time method for a linear complementarity problem. (English summary) **93f:90170**

Nagurney, Anna *see* **Thore, Sten; et al., 93g:90078**

Noma, Toshihito *see* **Kojima, Masakazu; et al., 93b:90097**

Noor, Muhammad Aslam (*with* Al-Shemas, Eman H.) Iterative algorithms for general quasi complementarity problems. **93g:90077**

Pan, Jie *see* **Thore, Sten; et al., 93g:90078**

Panda, G. K. *see* **Behera, A., 93g:90073**

Pang, Jong-Shi Iterative descent algorithms for a row sufficient linear complementarity problem. **93a:90071**

— *see also* **Gowda, M. Seetharama, 93f:90167** *and* **Gabriel, Steven A., 93j:90117**

Pires, F. M. *see* **Júdice, Joaquím J., 93h:90098**

Powell, M. J. D. Interior point methods for semi-infinite programming calculations. (*see* **93d:90005**)

Pye, Wallace C. Almost P_0-matrices and the class Q. (English summary) **93k:90096**

Ramachandran, V. (*with* Sankaranarayanan, V.) Probability measures of fuzzy events in power systems. (*see* **93e:90003**)

Rohn, Jiří Erratum: "A short proof of finiteness of Murty's principal pivoting algorithm" [Math. Programming **46** (1990), no. 2, (Ser. A), 255–256; MR 91k:90208]. **93k:90097**

Rutherford, Thomas F. *see* **Anstreicher, Kurt M.; et al., 93a:90069**

Sankaranarayanan, V. *see* **Ramachandran, V., (93e:90003)**

Shi, Guang Yan (*with* Ma, Xiao Xian) An outer approximation algorithm for semi-infinite nondifferentiable programmings. **93c:90092**

Stewart, David E. A note on high degree linear complementarity problems. **93a:90072**

Tang, Huan Wen *see* **Hu, Xin Sheng, 93f:90168**

Terlaky, Tamás *see* **Fukuda, Komei, 93j:90115**

Thore, Sten (*with* Nagurney, Anna; Pan, Jie) Generalized goal programming and variational inequalities. (English summary) **93g:90078**

Tseng, Paul Global linear convergence of a path-following algorithm for some monotone variational inequality problems. (English summary) **93i:90098**

— *see also* **Luo, Zhi-Quan, 93i:90097**

Vietor, T. *see* **Eschenauer, H. A., (93e:90003)**

Ye, Yinyu *see* **Kojima, Masakazu; et al., 93d:90065**

Zeng, Jin Ping Convergence and convergence rate of projection relaxation iterations. (English and Chinese summaries) **93i:90099**

Zeng, Pan A direct algorithm for linear complementary problem of quadratic programming—application to the parametric variational principle, PVFEM. (*see* **93a:41001**)

Zhang, Shi Sheng (*with* Li, Yao Tang) Nonlinear complementary problems and set-valued nonlinear complementary problems in Hilbert spaces. (Chinese. English summary) **93d:90066**

— (*with* Huang, Nan Jing) Generalized multivalued complementarity and quasicomplementarity problems. (Chinese. English summary) **93c:90093**

Items with secondary classifications in 90C33

Bel'skii, V. G. A multigrid method for solving variational inequalities. (Russian) **93b:65187**

Camacho, E. F. Constrained generalized predictive control. (English summary)

Cottle, Richard W. (*with* Pang, Jong-Shi; Stone, Richard E.) ★ The linear complementarity problem. **93f:90001**

— (*with* Yao, Jen Chih) Pseudo-monotone complementarity problems in Hilbert space. (English summary) **93i:47098**

Dauer, J. P. (*with* Saleh, Ossama A.) A representation of the set of feasible objectives in multiple objective linear programs. **93a:90056**

Han, Shih-Ping (*with* Pang, Jong-Shi; Rangaraj, Narayan) Globally convergent Newton methods for nonsmooth equations. (English summary) **93m:65070**

Jovanov, D. S. Variational inequalities with cone constraints. (English summary) **93h:49019**

Mangasarian, O. L. Global error bounds for monotone affine variational inequality problems. (English summary) **93f:49013**

McNamara, J. R. On geometric programming and complementary slackness. **93g:90064**

Morris, Walter D., Jr. The connected components of the set of R_0-matrices. **93e:15013**

Nguyen Huu Dien Some remarks on variational-like and quasivariational-like inequalities. (English summary) **93h:49021**

Niethammer, Wilhelm A note on the implementation of the successive overrelaxation method for linear complementarity problems. (English summary) **93k:65056**

Noor, Muhammad Aslam Wiener-Hopf equations and complementarity problems. (English summary) **93k:49009**

Pang, Jong-Shi *see* **Cottle, Richard W.; et al., 93f:90001** *and* **Han, Shih-Ping; et al., 93m:65070**

Rangaraj, Narayan *see* **Han, Shih-Ping; et al., 93m:65070**

Saleh, Ossama A. *see* **Dauer, J. P., 93a:90056**

Stone, Richard E. *see* **Cottle, Richard W.; et al., 93f:90001**

Tobin, Roger L. Uniqueness results and algorithm for Stackelberg-Cournot-Nash equilibria. **93a:90085**

Tovey, Craig A. A polynomial-time algorithm for computing the yolk in fixed dimension. (English summary) **93j:90147**

Wilson, Robert B. Computing simply stable equilibria. (English summary) **93i:90025**

Yao, Jen Chih *see* **Cottle, Richard W., 93i:47098**

Ye, Yinyu On the finite convergence of interior-point algorithms for linear programming. (English summary) **93j:90056**

90C34 Semi-infinite programming

Astaf'ev, N. N. A connection between the properties of quasifiniteness and regularity in problems of semi-infinite linear programming. (Russian. Russian and Ukrainian summaries) **93g:90079**

Dugošija, Djordje P. On stability in quasiconvex semi-infinite optimization. **93b:90098**

Gramlich, Günter M. Semi-infinite optimization in engineering design. (English summary) (*see* **93e:00021**)

Higgins, J. E. *see* **Polak, Elijah; et al., 93g:90080**

Jongen, Hubertus Th. (*with* Twilt, F.; Weber, G.-W.) Semi-infinite optimization: structure and stability of the feasible set. **93a:90073**

Kaplan, A. A. (*with* Tichatschke, Rainer) Adaptive methods for solving ill-posed semi-infinite problems of convex optimization. (Russian) **93c:90094**

Mayne, David Q. *see* **Polak, Elijah; et al., 93g:90080**

Meng, Zhi Qing Exact penalty functions for a class of semi-infinite programming problems and their calmness and stability. (Chinese. English summary)

Polak, Elijah (*with* Higgins, J. E.; Mayne, David Q.) A barrier function method for minimax problems. **93g:90080**

Reemtsen, Rembert Discretization methods for the solution of semi-infinite programming problems. **93a:90074**

Tichatschke, Rainer *see* **Kaplan, A. A., 93c:90094**

Todorov, Maxim Iv. Existence of solutions of linear vector semi-infinite optimization problems. **93f:90171**

Twilt, F. *see* **Jongen, Hubertus Th.; et al., 93a:90073**

Weber, G.-W. *see* **Jongen, Hubertus Th.; et al., 93a:90073**

Items with secondary classifications in 90C34

Bean, James C. *see* **Romeijn, H. Edwin; et al., 93a:90079**

Goberna, M. A. (*with* López, Marco Antonio) Conditions for the uniqueness of the optimal solution in linear semi-infinite programming. **93a:49019**

He, Li Min *see* **Polak, Elijah, 93d:49036**

Henrion, R. On constraint qualifications. **93b:90083**

Ichihashi, Hidetomo *see* **Luhandjula, M. K.; et al., 93f:90183**

Inuiguchi, Masahiro *see* **Luhandjula, M. K.; et al., 93f:90183**

Kaplan, A. A. (*with* Tichatschke, Rainer) Stable approximation schemes for ill-posed convex variational problems. **93e:49050**

López, Marco Antonio *see* **Goberna, M. A., 93a:49019**

Luhandjula, M. K. (*with* Ichihashi, Hidetomo; Inuiguchi, Masahiro) Fuzzy and semi-infinite mathematical programming. **93f:90183**

Polak, Elijah (*with* He, Li Min) Rate-preserving discretization strategies for semi-infinite programming and optimal control. **93d:49036**

Romeijn, H. Edwin (*with* Smith, Robert L.; Bean, James C.) Duality in infinite-dimensional linear programming. **93a:90079**

Smith, Robert L. *see* **Romeijn, H. Edwin; et al., 93a:90079**

Staffans, Olof J. MIMO l^1-optimization with a scalar control. (English summary) **93h:93022**

Tichatschke, Rainer *see* **Kaplan, A. A., 93e:49050**

90C35 Programming involving graphs or networks

Achuthan, N. R. (*with* Caccetta, L.; Caccetta, P.; Geelen, J. F.) Algorithms for the minimum weight spanning tree with bounded diameter problem. (English summary) (*see* **93d:90005**)

Ageev, A. A. A polynomial algorithm for solving the location problem on a series-parallel network. (Russian) **93g:90081**

Akulinin, O. B. A priori estimation of the boundaries of a domain for the search for the minimum of a functional. (Russian) (*see* **93m:00033**)

Anandalingam, G. *see* **Fetterolf, Peter C.**

Arbib, Claudio (*with* Mocci, Ugo; Scoglio, Caterina) Methodological aspects of ring network design. (English summary) (*see* **93e:90003**)

Balas, Egon (*with* Fischetti, Matteo) The fixed-outdegree 1-arborescence polytope. (English summary) **93m:90088**

Barahona, Francisco Separating from the dominant of the spanning tree polytope. (English summary) **93i:90100**

Bein, Wolfgang W. (*with* Brucker, P.; Stallmann, Matthias F. M.) A characterization of network representable polymatroids. (German summary) **93g:90082**

Beresnev, V. L. (*with* Zholdoshev, A. Zh.) An algorithm for a problem on maximal flow with gains. (Russian) **93c:90095**

Boland, N. L. *see* **Goh, C. J.; et al.,** (**93d:90005**)

Boyd, E. Andrew A pseudopolynomial network flow formulation for exact knapsack separation. **93h:90099**

Brucker, P. *see* **Bein, Wolfgang W.; et al., 93g:90082**

Bryson, Noel A parametric programming methodology to solve the Lagrangian dual for network problems with multiple side-constraints. (English summary)

Burton, D. (*with* Toint, Ph. L.) On an instance of the inverse shortest paths problem. **93e:90063**

Caccetta, L. *see* **Achuthan, N. R.; et al.,** (**93d:90005**)

Caccetta, P. *see* **Achuthan, N. R.; et al.,** (**93d:90005**)

Campbell, James F. Selecting routes to minimize urban travel time. (English summary)

Chandrasekaran, R. *see* **Sridhar, S., 93j:90122**

Chen, Arbee L. P. *see* **Tseng, Frank S. C.; et al., 93j:90123**

Cheng, Chung-Kuan The optimal partitioning of networks. **93b:90099**

Chepoi, V. D. *see* **Dragan, F. F., 93c:90096**

Chopra, Sunil The equivalent subgraph and directed cut polyhedra on series-parallel graphs. (English summary) **93j:90119**

Church, Richard (*with* Current, John) Maximal covering tree problems. (English summary)

Current, John *see* **Church, Richard**

Davydov, È. G. (*with* Kokhova, S. V.) Some dynamic time-optimality problems for the distribution of several types of resources on network graphs. (Russian. Russian summary) **93m:90089**

Deryugin, V. N. An algorithm for constructing the shortest path in a graph. (Russian. Russian summary) (*see* **93b:90010**)

Donets, G. A. (*with* Nezhentsev, Yu. I.) An estimate for the complexity of algorithms in arithmetic graphs. (Russian. Russian summary) (*see* **93b:90010**)

Dragan, F. F. (*with* Chepoi, V. D.) The median problem on pseudomedian graphs. (Russian) **93c:90096**

Du, Ding Zhu (*with* Hwang, F. K.) An approach for proving lower bounds: solution of Gilbert-Pollak's conjecture on Steiner ratio. **93a:90075**

— (*with* Zhang, Yanjun) On better heuristics for Steiner minimum trees. (English summary) **93i:90101**

El Baz, Didier *see* **Ribeiro, Cassilda,** (**93e:90003**)

Federgruen, Awi (*with* Tzur, Michal) The dynamic lot-sizing model with backlogging: a simple $O(n \log n)$ algorithm and minimal forecast horizon procedure. (English summary) **93k:90098**

Fetterolf, Peter C. (*with* Anandalingam, G.) A Lagrangian relaxation technique for optimizing interconnection of local area networks. (English summary)

Fischetti, Matteo (*with* Toth, Paolo) An additive bounding procedure for the asymmetric travelling salesman problem. **93b:90100**

— *see also* **Balas, Egon, 93m:90088**

Fonlupt, Jean (*with* Naddef, Denis) The traveling salesman problem in graphs with some excluded minors. **93b:90101**

Fukushima, Masao *see* **Ibaraki, Satoru; et al., 93f:90172**

Gallo, Giorgio (*with* Scutellà, Maria Grazia) Toward a programming environment for combinatorial optimization: a case study oriented to max-flow computations. (English summary)

Geelen, J. F. *see* **Achuthan, N. R.; et al.,** (**93d:90005**)

Goh, C. J. (*with* Boland, N. L.; Mees, Alistair) An algorithm for solving quadratic cost network flow optimization problems. (English summary) (*see* **93d:90005**)

Gorbuntsov, V. V. Classification of solutions of problems of optimization of discrete stationary processes based on diodes. (Russian) (*see* **93b:00018**)

Grötschel, Martin (*with* Win, Zaw) A cutting plane algorithm for the windy postman problem. **93g:90083**

Gu, Shou Huai *see* **Zhang, Zhong Fu; et al.,** (**93d:90005**)

Hakimi, S. Louis (*with* Labbé, Martine; Schmeichel, Edward) The Voronoi partition of a network and its implications in location theory. (English summary)

Hall, Leslie A. (*with* Magnanti, Thomas L.) A polyhedral intersection theorem for capacitated spanning trees. **93e:90064**

Hansen, Pierre (*with* Mladenović, Nenad) A comparison of algorithms for the maximum clique problem. (English summary)

Hassin, Refael Approximation schemes for the restricted shortest path problem. **93b:90102**

— Algorithms for the minimim cost circulation problem based on maximizing the mean improvement. (English summary) **93g:90084**

Hearn, Donald W. *see* **Ventura, Jose A., 93k:90100**

Her, Shenq-Shyong *see* **Murthy, Ishwar**

Heredia, F. Javier (*with* Nabona, Narcís) Numerical implementation and computational results of nonlinear network optimization with linear side constraints. (*see* **93e:90003**)

Hinsberger, Uwe (*with* Kolla, Reiner) Performance optimization of combinational circuits. (English summary) (*see* **93d:68002**)

Hirabayashi, Ryuichi (*with* Saruwatari, Yasufumi; Nishida, Naonori) Tour construction algorithm for the capacitated arc routing problems. (English summary) **93j:90120**

Hochbaum, Dorit S. Why should biconnected components be identified first? (English summary) **93m:90090**

Huang, Hai Jun (*with* Lam, William H. K.) Modified Evans' algorithms for solving the combined trip distribution and assignment problem. (English summary)

Hudec, Oto On alternative p-center problems. (English summary) **93j:90121**

Hwang, F. K. *see* **Du, Ding Zhu, 93a:90075**

Ibaraki, Satoru (*with* Fukushima, Masao; Ibaraki, Toshihide) Dual-based Newton methods for nonlinear minimum cost network flow problems. **93f:90172**

Ibaraki, Toshihide *see* **Ibaraki, Satoru; et al., 93f:90172**

Janiga, Ladislav (*with* Koubek, Václav) Minimum cut in directed planar networks. **93b:90103**

Jeroslow, Robert G. (*with* Martin, Kipp; Rardin, Ronald L.; Wang, Jinchang) Gainfree Leontief substitution flow problems. (English summary) **93m:90091**

Klein, Rachelle S. (*with* Luss, Hanan; Smith, Donald Robert) A lexicographic minimax algorithm for multiperiod resource allocation. **93c:90097**

Kokhova, S. V. *see* **Davydov, È. G., 93m:90089**

Kolla, Reiner *see* **Hinsberger, Uwe,** (**93d:68002**)

Koubek, Václav *see* **Janiga, Ladislav, 93b:90103**

Krause, W. An algorithm for the general resource constrained scheduling problem by using of cutting planes. (English summary) (*see* **93e:90003**)

Kravtsov, M. K. A proof of the Hirsch conjecture for a class of transportation polytopes. (Russian. Russian summary) **93f:90173**

Labbé, Martine *see* **Hakimi, S. Louis; et al.**

Lam, William H. K. *see* **Huang, Hai Jun**

Lim, Chong John (*with* McMahon, Graham B.) A decomposition process for the recognition of series-parallel subgraphs. (English summary) (*see* **93d:90005**)

Liu, Lin Zhong *see* **Zhang, Zhong Fu; et al.,** (**93d:90005**)

Lozovanu, D. D. (*with* Prodan, N. V.) On the search for minimax paths in networks. (Russian. English, Russian and Moldavian summaries)

Luss, Hanan *see* **Klein, Rachelle S.; et al., 93c:90097**

Lysenko, I. V. (*with* Ptushkin, A. I.) The equivalent transformation method for network models. (Russian. Russian summary) **93k:90099**

Magnanti, Thomas L. *see* **Hall, Leslie A., 93e:90064**

Manber, Udi *see* **Wu, Sun, 93g:90085**

Martin, Kipp *see* **Jeroslow, Robert G.; et al., 93m:90091**

Mazza, Christian Parallel simulated annealing. **93d:90067**

McMahon, Graham B. *see* **Lim, Chong John,** (**93d:90005**)

Mees, Alistair *see* **Goh, C. J.; et al.,** (**93d:90005**)

Mladenović, Nenad *see* **Hansen, Pierre**

Mocci, Ugo *see* **Arbib, Claudio; et al.,** (**93e:90003**)

Murphy, Frederic H. (*with* Wang, Zhong Xian) A network reformulation of an electric utility expansion planning model. (English summary)

Murthy, Ishwar (*with* Her, Shenq-Shyong) Solving min-max shortest-path problems on a network.

Nabona, Narcís (*with* Verdejo, Josep M.) Numerical implementation of nonlinear multicommodity network flows with linear side constraints through price-directive decomposition. (*see* **93e:90003**)

— *see also* **Heredia, F. Javier,** (**93e:90003**)

Naddef, Denis *see* **Fonlupt, Jean, 93b:90101**

Nezhentsev, Yu. I. *see* **Donets, G. A.,** (**93b:90010**)

Nishida, Naonori *see* **Hirabayashi, Ryuichi; et al., 93j:90120**

Osthof, Hans Georg Eine $O(e \log e)$-Heuristik für ein Flußproblem. (German summary) [An $O(e \log e)$-heuristics for a flow problem] (*see* **93d:68002**)

Pesamosca, Giancarlo On the optimality conditions for the Euclidean multifacility location problem. (English summary)

Pinar, Mustafa Ç. *see* **Zenios, Stavros A., 93f:90177**

Plávka, J. The $O(n^3)$ algorithm for a special case of the maximum cost-to-time ratio cycle problem and its coherence with an eigenproblem of a matrix. (English summary) **93i:90102**

Polak, George G. On a parametric shortest path problem from primal-dual multicommodity network optimization. **93a:90076**

Prodan, N. V. *see* **Lozovanu, D. D.**

Ptushkin, A. I. *see* **Lysenko, I. V., 93k:90099**

Punnen, Abraham P. *see* **Richey, Michael B., 93f:90174**

Rardin, Ronald L. *see* **Jeroslow, Robert G.; et al., 93m:90091**

Rendl, Franz (*with* Wolkowicz, Henry) Applications of parametric programming and eigenvalue maximization to the quadratic assignment problem. **93c:90098**

Ribeiro, Cassilda (*with* El Baz, Didier) A dual method for optimal routing in packet-switched networks. (*see* **93e:90003**)

Richey, Michael B. (*with* Punnen, Abraham P.) Minimum perfect bipartite matchings and spanning trees under categorization. (English summary) **93f:90174**

Rothblum, Uriel G. (*with* Schneider, Hans; Schneider, Michael H.) Characterizations of max-balanced flows. (English summary) **93i:90103**

Rozin, B. M. On the search for the minimal guaranteed reliability of vertices of a random bipolar communications network under conditions of uncertainty. (Russian. English and Russian summaries)

Salowe, Jeffrey S. A simple proof of the planar rectilinear Steiner ratio. (English summary) **93f:90175**

Saruwatari, Yasufumi *see* **Hirabayashi, Ryuichi; et al., 93j:90120**

Schmeichel, Edward *see* **Hakimi, S. Louis; et al.**

Schneider, Hans *see* **Rothblum, Uriel G.; et al., 93i:90103**

Schneider, Michael H. *see* **Rothblum, Uriel G.; et al., 93i:90103**

Scoglio, Caterina *see* **Arbib, Claudio; et al.,** (**93e:90003**)

Scutellà, Maria Grazia *see* **Gallo, Giorgio**

Smith, Donald Robert *see* **Klein, Rachelle S.; et al., 93c:90097**

Snyder, Timothy Law On the exact location of Steiner points in general dimension. **93f:90176**

— (*with* Steele, J. Michael) Equidistribution of point sets for the traveling salesman and related problems. (English summary) **93m:90092**

Sridhar, S. (*with* Chandrasekaran, R.) Integer solution to synthesis of communication networks. (English summary) **93j:90122**

Stallmann, Matthias F. M. *see* **Bein, Wolfgang W.; et al., 93g:90082**

Steele, J. Michael *see* **Snyder, Timothy Law, 93m:90092**

Toint, Ph. L. *see* **Burton, D., 93e:90063**

Toth, Paolo *see* **Fischetti, Matteo, 93b:90100**

Tseng, Frank S. C. (*with* Yang, Wei Pang; Chen, Arbee L. P.) Finding a complete matching with the maximum product on weighted bipartite graphs. (English summary) **93j:90123**

Tzur, Michal *see* **Federgruen, Awi, 93k:90098**

Ventura, Jose A. (*with* Hearn, Donald W.) Restricted simplicial decomposition for symmetric convex flow problems. (English summary) **93k:90100**

Verdejo, Josep M. *see* **Nabona, Narcís,** (**93e:90003**)

Vinarskii, V. Ya. Optimization of the orthogonal hull of polyhedral sets, and LN graphs. (Russian. English summary) **93b:90104**

Waissi, Gary R. A new polynomial algorithm for maximum value flow with an efficient parallel implementation. (English summary) **93i:90104**

Wang, Jinchang *see* **Jeroslow, Robert G.; et al., 93m:90091**

Wang, Zhong Xian *see* **Murphy, Frederic H.**
Win, Zaw *see* **Grötschel, Martin, 93g:90083**
Wolkowicz, Henry *see* **Rendl, Franz, 93c:90098**
Wu, Sun (*with* Manber, Udi) An algorithm for min-cost edge-disjoint cycles and its applications. (English summary) **93g:90085**
Yang, Wei Pang *see* **Tseng, Frank S. C.; et al., 93j:90123**
Yu, Wei Sheng A minimal fitting algorithm for a given family tree. (Chinese. English summary)
Zambitskiĭ, D. K. Study of an objective function in a Weber problem on a tree. (Russian. Russian summary)
Zenios, Stavros A. (*with* Pinar, Mustafa Ç.) Parallel block-partitioning of truncated Newton for nonlinear network optimization. (English summary) **93f:90177**
Zhang, Lan *see* **Zhang, Zhong Fu; et al., (93d:90005)**
Zhang, Si Hai *see* **Zhang, Zhong Fu; et al., (93d:90005)**
Zhang, Yanjun *see* **Du, Ding Zhu, 93i:90101**
Zhang, Zhong Fu (*with* Gu, Shou Huai; Liu, Lin Zhong; Zhang, Si Hai; Zhang, Lan) An algorithm of the shortest path for the network with negative arcs. (English summary) (*see* **93d:90005**)
Zholdoshev, A. Zh. *see* **Beresnev, V. L., 93c:90095**
Zimmermann, Uwe Negative circuits for flows and submodular flows. **93f:90178**

Items with secondary classifications in 90C35

Aeschlimann, A. (*with* Schmid, Jürg) Drawing orders using less ink. (English summary) **93k:06001**
Ahuja, Ravindra K. *see* **Orlin, James B., 93b:90040**
Anderson, Edward J. (*with* Aramendia, Miguel) A linear programming approach to the search game on a network with mobile hider. **93b:90123**
Apostolico, Alberto (*with* Atallah, Mikhail J.; Hambrusch, Susanne E.) New clique and independent set algorithms for circle graphs. **93b:05151**
Aramendia, Miguel *see* **Anderson, Edward J., 93b:90123**
Arian, Yair (*with* Levy, Yonatan) Algorithms for generalized round robin routing. (English summary)
Atallah, Mikhail J. *see* **Apostolico, Alberto; et al., 93b:05151**
Bein, Wolfgang W. (*with* Kamburowski, Jerzy; Stallmann, Matthias F. M.) Optimal reduction of two-terminal directed acyclic graphs. (English summary) **93j:68152**
Benavent López, Enrique (*with* Campos, V.; Corberán, Á.; Mota, E.) The capacitated arc routing problem: lower bounds. (English summary) **93h:90032**
Bermond, Jean-Claude (*with* Hell, Pavol; Liestman, Arthur L.; Peters, Joseph G.) Sparse broadcast graphs. **93a:68011**
Bertsekas, Dimitri P. Auction algorithms for network flow problems: a tutorial introduction. (English summary) **93h:90033**
Bitan, Sara (*with* Zaks, Shmuel) Optimal linear broadcast. (English summary) **93m:90035**
Boros, Endre (*with* Crama, Y.; Hammer, Peter L.) Chvátal cuts and odd cycle inequalities in quadratic 0-1 optimization. **93a:90043**
Brandeau, Margaret L. (*with* Chiu, Samuel S.) A center location problem with congestion. (English summary) **93m:90043**
Cameron, Kathie (*with* Edmonds, Jack) Coflow polyhedra. **93d:90040**
Campos, V. *see* **Benavent López, Enrique; et al., 93h:90032**
Cassandras, Christos G. *see* **Mohanty, Bibhu P.**
Černý, Ján (*with* Kluvánek, Pavol) ★ Základy matematickej teórie dopravy. (Slovak) [Foundations of the mathematical theory of transportation] **93a:90002**
Chen, Kai Zhou *see* **Xu, Ya Ping, 93f:90121**
Cheng, Chung-Kuan (*with* Hu, Te Chiang) Maximum concurrent flows and minimum cuts. (English summary) **93h:90034**
Cheng, Siu Wing *see* **Janardan, Ravi, 93a:68118**
Chiu, Samuel S. *see* **Brandeau, Margaret L., 93m:90043**
Chu, Chengbin A branch-and-bound algorithm to minimize total flow time with unequal release dates. (English summary) **93e:90031**
Cochand, M. (*with* Gaillard, A.; Gröflin, H.) Lattice matrices, intersection of ring families and dicuts. (English summary) **93j:90060**
Conforti, Michele (*with* Rao, M. R.) Properties of balanced and perfect matrices. **93g:90063**
Corberán, Á. *see* **Benavent López, Enrique; et al., 93h:90032**
Crama, Y. *see* **Boros, Endre; et al., 93a:90043**
Davidson, M. R. A subgradient method for solving the problem of the development of multicommodity networks with a viability guarantee. (Russian. Russian summary) **93m:90029**
Diané, Mamadi (*with* Plesník, Ján) An integer programming formulation of the Steiner problem in graphs. (English summary)
Dubois, N. (*with* de Werra, D.) EPCOT: an efficient procedure for coloring optimally with Tabu search. (English summary)
Edmonds, Jack *see* **Cameron, Kathie, 93d:90040**
Erdős, Péter L. (*with* Székely, László A.) Evolutionary trees: an integer multicommodity max-flow–min-cut theorem. (English summary) **93j:05038**
Evans, James R. (*with* Minieka, Edward) ★ Optimization algorithms for networks and graphs. **93j:90002**
Fejes Tóth, László Flight in a packing of disks. (English summary) **93j:52030**
Gaillard, A. *see* **Cochand, M.; et al., 93j:90060**
Gal, Tomas (*with* Geue, Ferdinand) A new pivoting rule for solving various degeneracy problems. **93b:90046**
Geue, Ferdinand *see* **Gal, Tomas, 93b:90046**
Goldberg, Andrew V. (*with* Plotkin, Serge A.; Shmoys, David B.; Tardos, Éva) Using interior-point methods for fast parallel algorithms for bipartite matching and related problems. **93d:90036**
Gröflin, H. *see* **Cochand, M.; et al., 93j:90060**
de Groot, C. *see* **Peikert, R.; et al., (93e:90003)**
Grover, Lov K. Local search and the local structure of NP-complete problems. (English summary) **93g:90087**
Guignard, Monique Solving makespan minimization problems with Lagrangean decomposition. (English summary) **93k:90054**
Hambrusch, Susanne E. *see* **Apostolico, Alberto; et al., 93b:05151**
Hammer, Peter L. *see* **Boros, Endre; et al., 93a:90043**
Han, Zhen Xiang *see* **Wen, Fu Shuan**
Harper, L. H. On a problem of Kleitman and West. **93b:05079**
Hartvigsen, David Recognizing Voronoĭ diagrams with linear programming. (English summary) **93h:90056**
Heintz, Joos *see* **Krick, Teresa; et al., 93b:68088**
Hell, Pavol *see* **Bermond, Jean-Claude; et al., 93a:68011**
Hellstrand, Johan (*with* Larsson, Torbjörn; Migdalas, Athanasios) A characterization of the uncapacitated network design polytope. (English summary) **93f:90061**
Hsü, Li Hsing *see* **Jan, Rong Hong; et al., 93i:05123**
Hu, Te Chiang *see* **Cheng, Chung-Kuan, 93h:90034**
Hum, Sin Hoon (*with* Leong, Thin Yin) A weighted graph partitioning problem with side constraints. (English summary) (*see* **93d:90005**)
Ivanov, A. O. (*with* Tuzhilin, Alekseĭ Avgustinovich) The Steiner problem on a plane or planar minimal networks. (Russian) **93d:05148**
Jan, Rong Hong (*with* Hsü, Li Hsing; Lee, Yueh-Ying) The most vital edges with respect to the number of spanning trees in two-terminal series-parallel graphs. (English summary) **93i:05123**
Janardan, Ravi (*with* Cheng, Siu Wing) Efficient distributed algorithms for single-source shortest paths and related problems on plane networks. **93a:68118**
Kamburowski, Jerzy *see* **Bein, Wolfgang W.; et al., 93j:68152**
Kluvánek, Pavol *see* **Černý, Ján, 93a:90002**
Kogan, Ya. A. Another approach to asymptotic expansions for large closed queueing networks. (English summary) **93f:90073**
Kostreva, Michael M. (*with* Więcek, Malgorzata M.) Time dependency in multiple objective dynamic programming. **93m:90069**
Kranakis, Evangelos (*with* Vitányi, Paul M. B.) A note on weighted distributed matchmaking. **93f:68010**
Krick, Teresa (*with* Slisenko, A. O.; Solernó, P.; Heintz, Joos) A search for the shortest path around semi-algebraic obstacles in the plane. (Russian. English summary) **93b:68088**
Larsson, Torbjörn *see* **Hellstrand, Johan; et al., 93f:90061**
Laurent, Monique (*with* Sassano, Antonio) A characterization of knapsacks with the max-flow–min-cut property. **93d:90044**
Lee, Yueh-Ying *see* **Jan, Rong Hong; et al., 93i:05123**
Leong, Thin Yin *see* **Hum, Sin Hoon, (93d:90005)**
Levy, Yonatan *see* **Arian, Yair**
Li, Chung-Lun (*with* McCormick, S. Thomas; Simchi-Levi, David) On the minimum-cardinality-bounded-diameter and the bounded-cardinality-minimum-diameter edge addition problems. (English summary) **93i:68144**
Li, Han Lin (*with* Yang, Chao Chih) Using integer programming to find minimum deduction graphs for accomplishing inferences. (English summary) **93k:90056**
Li, Xue Liang A proof of Balinski and Russakoff's conjecture on connectivity of assignment polytopes. (Chinese) **93b:90073**
Liestman, Arthur L. *see* **Bermond, Jean-Claude; et al., 93a:68011**
Lin, Y. Joseph The Becker-Brock efficient matching theorem with a supermodular technology defined on an n-lattice. (English summary) **93f:90011**
Liu, Yu Min *see* **Xu, Ji Chao; et al., 93e:05067**
Loulou, Richard Minimal cut cover of a graph with an application to the testing of electronic boards. (English summary) **93h:05160**
Luenberger, David G. A double look at duality. (English summary) **93k:49033**
Magirou, Vangelis F. An improved partial solution to the task assignment and multiway cut problems. (English summary) **93f:90101**
McCormick, S. Thomas *see* **Li, Chung-Lun; et al., 93i:68144**
Migdalas, Athanasios *see* **Hellstrand, Johan; et al., 93f:90061**
Miller, Zevi (*with* Perkel, Manley) The Steiner problem in the hypercube. **93d:05095**
Minieka, Edward *see* **Evans, James R., 93j:90002**
Mohanty, Bibhu P. (*with* Cassandras, Christos G.) Effect of model uncertainty on some optimal routing problems. (English summary)
Monagan, M. *see* **Peikert, R.; et al., (93e:90003)**
Mota, E. *see* **Benavent López, Enrique; et al., 93h:90032**
Mulmuley, Ketan (*with* Sen, Sandeep) Dynamic point location in arrangements of hyperplanes. **93m:68035**
Murty, Katta G. ★ Network programming. **93k:90001**
Naddef, Denis (*with* Rinaldi, Giovanni) The crown inequalities for the symmetric traveling salesman polytope. **93e:90043**
Nan, Bin *see* **Xu, Ji Chao; et al., 93e:05067**
Nielsen, Soren S. (*with* Zenios, Stavros A.) Massively parallel algorithms for singly constrained convex programs. (English summary) **93h:90090**
Nir, Danny *see* **Shapiro, Jacob; et al., 93h:05157**
Norton, Carolyn Haibt (*with* Plotkin, Serge A.; Tardos, Éva) Using separation algorithms in fixed dimension. **93b:90109**
Orlin, James B. (*with* Ahuja, Ravindra K.) New scaling algorithms for the assignment and minimum mean cycle problems. **93b:90040**
Ou, Jihong (*with* Wein, Lawrence M.) On the improvement from scheduling a two-station queueing network in heavy traffic. (English summary) **93f:90076**
Pak, N. V. An approximate method for computing rhythmic production flows taking into account delays in the system. (Russian) **93c:65083**
Papadimitriou, Christos H. (*with* Yannakakis, Mihalis) Shortest paths without a map. **93c:68079**
Peck, G. W. (*with* Shastri, Aditya) Bandwidth of theta graphs with short paths. **93g:05120**
Peikert, R. (*with* Würtz, D.; Monagan, M.; de Groot, C.) Packing circles in a square: a review and new results. (*see* **93e:90003**)
Perkel, Manley *see* **Miller, Zevi, 93d:05095**
Peters, Joseph G. *see* **Bermond, Jean-Claude; et al., 93a:68011**
Petrov, Nikolai Nikolaevich (*with* Ture, I.) Determination of the minimal number in a search group on a graph. (Russian. English summary) **93m:05194**
Phan Thiên Thạch A decomposition method using a pricing mechanism for min concave cost flow problems with a hierarchical structure. **93b:90026**
Plesník, Ján *see* **Diané, Mamadi**

Plotkin, Serge A. *see* **Norton, Carolyn Haibt; et al., 93b:90109** *and* **Goldberg, Andrew V.; et al., 93d:90036**
Rao, M. R. *see* **Conforti, Michele, 93g:90063**
Rhee, WanSoo T. (*with* Talagrand, Michel) Packing random items of three colors. (English summary) **93i:60020**
Richter, P. Present approximative algorithms for Steiner's problem in graphs. Classification and two new fast approaches. (Polish summary)
Rinaldi, Giovanni *see* **Naddef, Denis, 93e:90043**
Robinson, Derek R. The optimality of fixed channel assignment policies for cellular radio systems. **93f:90065**
Rubinstein, J. H. (*with* Thomas, D. A.) A variational approach to the Steiner network problem. **93g:90033**
— (*with* Thomas, D. A.; Weng, Jia Feng) Degree-five Steiner points cannot reduce network costs for planar sets. (English summary) **93g:05041**
Ruhe, Günther ★ Algorithmic aspects of flows in networks. **93a:90003**
Sassano, Antonio *see* **Laurent, Monique, 93d:90044**
Schmid, Jürg *see* **Aeschlimann, A., 93k:06001**
Sen, Sandeep *see* **Mulmuley, Ketan, 93m:68035**
Serdyukov, A. I. Extremal problems on permutations for special classes of matrices. (Russian) **93c:90066**
Shamir, Eli Remarks on the stochastic travelling salesman. **93e:90047**
Shapiro, Jacob (*with* Waxman, Jerry; Nir, Danny) Level graphs and approximate shortest path algorithms. (English summary) **93h:05157**
Shastri, Aditya *see* **Peck, G. W., 93g:05120**
Shmoys, David B. *see* **Goldberg, Andrew V.; et al., 93d:90036**
Simchi-Levi, David *see* **Li, Chung-Lun; et al., 93i:68144**
Slisenko, A. O. *see* **Krick, Teresa; et al., 93b:68088**
Solernó, P. *see* **Krick, Teresa; et al., 93b:68088**
Stallmann, Matthias F. M. *see* **Bein, Wolfgang W.; et al., 93j:68152**
Steele, J. Michael Euclidean semi-matchings of random samples. **93b:05157**
Swamy, M. N. S. *see* **Thulasiraman, K., 93f:05002**
Székely, László A. *see* **Erdős, Péter L., 93j:05038**
Talagrand, Michel *see* **Rhee, WanSoo T., 93i:60020**
Tardos, Éva *see* **Norton, Carolyn Haibt; et al., 93b:90109** *and* **Goldberg, Andrew V.; et al., 93d:90036**
Thomas, D. A. *see* **Rubinstein, J. H.; et al., 93g:05041** *and* **93g:90033**
Thulasiraman, K. (*with* Swamy, M. N. S.) ★ Graphs: theory and algorithms. **93f:05002**
Torosyan, B. E. The number and cardinalities of components of solutions of a discrete isoperimetric problem in the Hamming space. (Russian) **93a:05125**
Ture, I. *see* **Petrov, Nikolai Nikolaevich, 93m:05194**
Tuzhilin, Aleksei Avgustinovich *see* **Ivanov, A. O., 93d:05148**
Vitányi, Paul M. B. *see* **Kranakis, Evangelos, 93f:68010**
Watts, A. M. Variational principles, duality, Legendre transformations and mine shaft ventilation. (English summary) **93j:49040**
Waxman, Jerry *see* **Shapiro, Jacob; et al., 93h:05157**
Wein, Lawrence M. *see* **Ou, Jihong, 93f:90076**
Wen, Fu Shuan (*with* Han, Zhen Xiang) An artificial neural network model for a class of nonlinear programming problems. (Chinese. English and Chinese summaries)
Weng, Jia Feng *see* **Rubinstein, J. H.; et al., 93g:05041**
de Werra, D. *see* **Dubois, N.**
Więcek, Małgorzata M. *see* **Kostreva, Michael M., 93m:90069**
Wirth, Andrew Order picking from a two-dimensional system. (English summary) **93f:90103**
Würtz, D. *see* **Peikert, R.; et al., (93e:90003)**
Xu, Ji Chao (*with* Nan, Bin; Liu, Yu Min) All solutions of clustering for attributes. (English summary) **93e:05067**
Xu, Ya Ping (*with* Chen, Kai Zhou) The necessary and sufficient condition of H-graph and the optimizing models of minimum H-circuit. (English summary) **93f:90121**
Yang, Chao Chih *see* **Li, Han Lin, 93k:90056**
Yannakakis, Mihalis *see* **Papadimitriou, Christos H., 93c:68079**
Zaks, Shmuel *see* **Bitan, Sara, 93m:90035**
Zenios, Stavros A. *see* **Nielsen, Soren S., 93h:90090**

90C39 Dynamic programming [see also 49L20]

Amir, R. (*with* Hadim, A.) Some structured dynamic programs arising in economics. (English summary) **93i:90105**
Bayard, David S. Reduced complexity dynamic programming based on policy iteration. (English summary) **93i:90106**
Dutta, Prajit K. What do discounted optima converge to? A theory of discount rate asymptotics in economic models. **93a:90077**
Eppstein, David (*with* Galil, Zvi; Giancarlo, Raffaele; Italiano, Giuseppe F.) Sparse dynamic programming. I. Linear cost functions. (English summary) **93i:90107a**
— (*with* Galil, Zvi; Giancarlo, Raffaele; Italiano, Giuseppe F.) Sparse dynamic programming. II. Convex and concave cost functions. (English summary) **93i:90107b**
Flynn, James Computing efficient steady state policies for deterministic dynamic programs. I. **93a:90078**
Galil, Zvi *see* **Eppstein, David; et al., 93i:90107a** *and* **93i:90107b**
Gendler, M. B. (*with* Zaretskiĭ, L. S.) An exact algorithm for solving a multidimensional problem of resource allocation. (Russian. Russian summary)
Giancarlo, Raffaele *see* **Eppstein, David; et al., 93i:90107a** *and* **93i:90107b**
Hadim, A. *see* **Amir, R., 93i:90105**
Huang, Shou-Hsuan Stephen (*with* Liu, Hong Fei; Viswanathan, Venkatraman) A sublinear parallel algorithm for some dynamic programming problems. (English summary) **93j:90124**
Italiano, Giuseppe F. *see* **Eppstein, David; et al., 93i:90107a** *and* **93i:90107b**
Lehrer, Ehud (*with* Sorin, Sylvain) A uniform Tauberian theorem in dynamic programming. **93c:90099**
Liu, Hong Fei *see* **Huang, Shou-Hsuan Stephen; et al., 93j:90124**
Nooriafshar, Mehryar Towards nonalgorithmic optimization: a practical and general purpose method of formulating and solving dynamic programming problems. (English summary) (*see* **93d:90005**)
Sorin, Sylvain *see* **Lehrer, Ehud, 93c:90099**
Sun, Min Two adaptively stepped monotone algorithms for solving discounted dynamic programming equations. (English summary) **93m:90093**
Viswanathan, Venkatraman *see* **Huang, Shou-Hsuan Stephen; et al., 93j:90124**
Wang, Chung-Lie Dynamic programming and basic inequalities. (*see* **93a:41001**)
— Lo-Keng Hua inequality and dynamic programming. **93e:90065**
Zaretskiĭ, L. S. *see* **Gendler, M. B.**
Zhan, Yuan Rui An influence diagram with super value nodes. (Chinese. English and Chinese summaries)

Items with secondary classifications in 90C39

Atkeson, Andrew (*with* Lucas, Robert E., Jr.) On efficient distribution with private information. **93e:90015**
Baba, Norio (*with* Morimoto, Akira) Stochastic approximation method for solving the stochastic multiobjective programming problem. (English summary) **93k:90058**
Balder, Erik J. Existence without explicit compactness in stochastic dynamic programming. (English summary) **93i:90073**
Burgess, John (*with* Maitra, Ashok) Nonexistence of measurable optimal selections. **93b:28030**
Chung, S. L. (*with* Hanson, F. B.; Xu, H. H.) Parallel stochastic dynamic programming: finite element methods. **93c:90049**
Cvetković, Dragoš (*with* Milosavljević, Milan; Dimitrijević, Vladimir) An algorithm for M asymmetric travelling salesman problem on a bandwidth-limited graph. **93b:90071**
Dimitrijević, Vladimir *see* **Cvetković, Dragoš; et al., 93b:90071**
Dokuchaev, N. G. Integral estimates for ordinary differential equations and their application to nonsmooth problems of optimal control. (Russian) **93b:34078**
Federgruen, Awi (*with* Queyranne, Maurice; Zheng, Yu-Sheng) Simple power-of-two policies are close to optimal in a general class of production/distribution networks with general joint setup costs. (English summary) **93j:90045**
Feinberg, Eugene A. On stationary strategies in Borel dynamic programming. **93c:90102**
Gerchak, Yigal (*with* Kilgour, D. Marc) Sequential competitions with nondecreasing levels of difficulty. (English summary) **93k:90106**
Govindarajulu, Z. (*with* Katehakis, Michael N.) Dynamic allocation in survey sampling. (English summary) **93j:62021**
Hamada, Toshio A discounted uniform one-armed bandit problem. **93h:62151**
Hanson, F. B. *see* **Chung, S. L.; et al., 93c:90049**
Katehakis, Michael N. *see* **Govindarajulu, Z., 93j:62021**
Kilgour, D. Marc *see* **Gerchak, Yigal, 93k:90106**
Kolonko, Michael Optimal compactification of a floorplan and its relation to other optimization problems—a dynamic programming approach. (English summary) **93k:90108**
Lucas, Robert E., Jr. *see* **Atkeson, Andrew, 93e:90015**
Maitra, Ashok *see* **Burgess, John, 93b:28030**
Majumdar, A. A. K. (*with* Matin, M. A.) The OLA policy for optimal stopping for a generalized secretary problem with three stops and linear travel cost. (English summary) **93g:60091**
Matin, M. A. *see* **Majumdar, A. A. K., 93g:60091**
Milosavljević, Milan *see* **Cvetković, Dragoš; et al., 93b:90071**
Morimoto, Akira *see* **Baba, Norio, 93k:90058**
Ohnishi, Masamitsu Policy iteration and Newton-Raphson methods for Markov decision processes under average cost criterion. **93f:90182**
Quadrat, J.-P. Brownian and diffusion decision processes. **93f:49029**
Queyranne, Maurice *see* **Federgruen, Awi; et al., 93j:90045**
Rempała, Ryszarda Forecast horizon in a dynamic family of one-dimensional control problems. **93e:49003**
Rivin, Igor (*with* Zabih, Ramin) A dynamic programming solution to the n-queens problem. **93a:90053**
Sniedovich, Moshe ★ Dynamic programming. **93d:90002**
Stadje, Wolfgang An optimal choice problem for a set of checking procedures. (English summary)
Tsvirkun, A. D. (*with* Yakovenko, S. Yu.) Nonlinear semigroups and infinite horizon optimization. (Polish summary) **93d:49031**
White, Douglas John A conjecture of Ross for a search problem. **93a:90032**
Xu, H. H. *see* **Chung, S. L.; et al., 93c:90049**
Yakovenko, S. Yu. *see* **Tsvirkun, A. D., 93d:49031**
Yakovleva, A. P. An optimization problem and necessary extremum conditions for differential inclusions with aftereffect. (Russian. Russian summary) **93k:49020**
Zabih, Ramin *see* **Rivin, Igor, 93a:90053**
Zheng, Yu-Sheng *see* **Federgruen, Awi; et al., 93j:90045**

90C40 Markov and semi-Markov decision processes

Aicardi, Michele (*with* Di Febbraro, Angela; Minciardi, Riccardo) Perturbation analysis of discrete event dynamic systems via minimax algebra. (*see* **93e:90003**)
Alden, Jeffrey M. (*with* Smith, Robert L.) Rolling horizon procedures in nonhomogeneous Markov decision processes.
Bailey, Michael P. *see* **Glazebrook, Kevin D.; et al., 93f:90180**
Baranov, V. V. Numerical methods of successive eliminations and optimization in a model of stochastic optimal control. (Russian) **93f:90179**
Cavazos-Cadena, Rolando Average optimal stationary policies in Markov decision processes under weak stability conditions. **93e:90066**
— Existence of optimal stationary policies in average reward Markov decision processes with a recurrent state. **93e:90067**
— (*with* Hernández-Lerma, Onésimo) Equivalence of Lyapunov stability criteria in a class of Markov decision processes. **93i:90108**
— (*with* Sennott, Linn I.) Comparing recent assumptions for the existence of average optimal stationary policies. **93c:90100**

Dekker, Rommert (*with* Hordijk, Arie) Recurrence conditions for average and Blackwell optimality in denumerable state Markov decision chains. **93h:90100**
Di Febbraro, Angela *see* **Aicardi, Michele; et al.**, (93e:90003)
Drangazhov, S. T. *see* **Sgurev, Vasil S., 93m:90095**
Feinberg, Eugene A. A Markov decision model of a search process. **93c:90101**
— On stationary strategies in Borel dynamic programming. **93c:90102**
Ferguson, M. J. *see* **Jalali, Ahmad, 93b:90105**
Filar, Jerzy A. (*with* Vrieze, O. J.) Weighted reward criteria in competitive Markov decision processes. (English summary) **93h:90101**
— *see also* **Sznajder, R., 93i:90110**
Geetha, S. (*with* Nair, K. P. K.) Markovian assignment decision process. (English and French summaries)
Ghosh, Mrinal K. (*with* Marcus, Steven I.) On strong average optimality of Markov decision processes with unbounded costs. **93d:90068**
Glazebrook, Kevin D. (*with* Bailey, Michael P.; Whitaker, Lyn R.) Cost rate heuristics for semi-Markov decision processes. **93f:90180**
Guo, Xian Ping Nonstationary Markovian decision processes average models—the denumerable state space case. (Chinese. English summary) **93d:90069**
Haviv, Moshe (*with* Puterman, Martin L.) Estimating the value of a discounted reward process. (English summary)
Hernández-Lerma, Onésimo *see* **Cavazos-Cadena, Rolando, 93i:90108**
Hordijk, Arie *see* **Dekker, Rommert, 93h:90100**
Hu, Qi Ying Discounted and average Markov decision processes with unbounded rewards: new conditions. (English summary) **93m:90094**
Jalali, Ahmad (*with* Ferguson, M. J.) Computationally efficient algorithms for on-line optimization of Markov decision processes. **93b:90105**
Jayawardena, Thusitha *see* **Yakowitz, Sid; et al., 93j:90127**
Kallenberg, Lodewijk C. M. Separable Markovian decision problems. The linear programming method in the multichain case. (German summary) **93b:90106**
Lazarova, Tatiana B. *see* **Sgurev, Vasil S., 93m:90096** *and* **93m:90097**
Li, Shu *see* **Yakowitz, Sid; et al., 93j:90127**
Lin, Jian Xing *see* **Lin, Yuan Lie, 93i:90109**
Lin, Yuan Lie A continuous-time discounted optimal Markov-decision model and its relation with discrete-time quasidiscounted optimal models—the case of the family of Q-matrices not being necessarily conservative. (Chinese) **93f:90181**
— (*with* Lin, Jian Xing) Moment optimal models for discrete-time Markov decision processes with discount depending on histories. (Chinese. English and Chinese summaries) **93i:90109**
Liu, Jian Yong (*with* Liu, Ke) Bellman's optimal principle in average cost problem. **93c:90103**
— (*with* Liu, Ke) Markov decision programming—the first passage model with denumerable state space. (English summary) **93j:90125**
Liu, Ke *see* **Liu, Jian Yong, 93c:90103** *and* **93j:90125**
Lovejoy, William S. Suboptimal policies, with bounds, for parameter adaptive decision processes. (English summary)
Makowski, Armand M. (*with* Shwartz, Adam) On constrained optimization of the Klimov network and related Markov decision processes. (English summary)
Marcus, Steven I. *see* **Ghosh, Mrinal K., 93d:90068**
Minciardi, Riccardo *see* **Aicardi, Michele; et al.**, (93e:90003)
Nair, K. P. K. *see* **Geetha, S.**
Ohnishi, Masamitsu Policy iteration and Newton-Raphson methods for Markov decision processes under average cost criterion. **93f:90182**
Puterman, Martin L. Markov decision processes. (*see* **93a:60001**)
— *see also* **Haviv, Moshe**
Ritt, Robert K. (*with* Sennott, Linn I.) Optimal stationary policies in general state space Markov decision chains with finite action sets. (English summary) **93j:90126**
Schäl, Manfred On the second optimality equation for semi-Markov decision models. **93h:90102**
Schneeberger, Stefan Markov-Entscheidungs-Prozesse mit abhängigen Aktionen für optimale Reparaturmaßnahmen bei unvollständiger Information. (English and German summaries) [Markov decision processes with dependent actions for optimal maintenance policies at incomplete information]
Sennott, Linn I. Constrained discounted Markov decision chains. (English summary) **93c:90068**
— *see also* **Cavazos-Cadena, Rolando, 93c:90100** *and* **Ritt, Robert K., 93j:90126**
Sgurev, Vasil S. (*with* Drangazhov, S. T.) Markov decision flows. (Russian summary) **93m:90095**
— (*with* Lazarova, Tatiana B.) Stationary randomized strategies of a set of dependent semi-Markov decision-making processes with common linear constraints and without reward rate reevaluation. (Russian summary) **93m:90096**
— (*with* Lazarova, Tatiana B.) Randomized policies and strategies at semi-Markov decision processes with additional linear constraints. (Russian summary) **93m:90097**
Shwartz, Adam *see* **Makowski, Armand M.**
Smith, Robert L. *see* **Alden, Jeffrey M.**
Sznajder, R. (*with* Filar, Jerzy A.) Some comments on a theorem of Hardy and Littlewood. (English summary) **93i:90110**
Tkiouat, M. Nonhomogeneous Markov decision chains with polynomial data in some parameter: optimal policy regions and applications. (English summary) (*see* **93g:62001**)
Vrieze, O. J. *see* **Filar, Jerzy A., 93h:90101**
Whitaker, Lyn R. *see* **Glazebrook, Kevin D.; et al., 93f:90180**
White, Chelsea C., III A survey of solution techniques for the partially observed Markov decision process. **93b:90107**
White, Douglas John Computational approaches to variance-penalised Markov decision processes. (English and German summaries)
— An heuristic for multi-dimensional Markov decision processes. (English summary)
— Markov decision processes: discounted expected reward or average expected reward? (English summary) **93m:90098**
— Minimising a threshold probability in discounted Markov decision processes. **93m:90099**
Yakowitz, Sid (*with* Jayawardena, Thusitha; Li, Shu) Theory for automatic learning under partially observed Markov-dependent noise. (English summary) **93j:90127**
Yin, Gang George Asymptotic optimal rate of convergence for an adaptive estimation procedure. (English summary) (*see* **93g:93007**)

Items with secondary classifications in 90C40

Abbad, Mohammed (*with* Filar, Jerzy A.) Perturbation and stability theory for Markov control problems. (English summary) **93f:93132**
— (*with* Filar, Jerzy A.; Bielecki, Tomasz R.) Algorithms for singularly perturbed limiting average Markov control problems. (English summary) **93i:93128**
Assaf, David (*with* Levikson, Benny) Optimal advertising policy for selling a single asset. **93f:90049**
Banks, Jeffrey S. (*with* Sundaram, Rangarajan K.) Denumerable-armed bandits. (English summary) **93g:90107**
Bielecki, Tomasz R. *see* **Abbad, Mohammed; et al., 93i:93128**
Bierth, Karl-Josef ★ Durchschnittsgewinnkriterien in semi-Markoffschen Entscheidungsmodellen. (German) [Average reward criteria in semi-Markovian decision models] **93b:90003**
Borkar, Vivek S. Controlled Markov chains with constraints. (English summary) **93f:93137**
Coyle, A. J. (*with* Taylor, P. G.) Bounds on the sensitivity of generalised semi-Markov processes with a single generally distributed lifetime. **93d:60147**
Csenki, Attila The joint distribution of sojourn times in finite Markov processes. **93a:60091**
Filar, Jerzy A. *see* **Abbad, Mohammed, 93f:93132** *and* **93i:93128**
Gittins, John (*with* Wang, You-Gan) The learning component of dynamic allocation indices. (English summary) **93k:62013**
Glasserman, Paul (*with* Yao, David D.) Generalized semi-Markov processes: antimatroid structure and second-order properties. **93b:60204**
— (*with* Yao, David D.) Monotonicity in generalized semi-Markov processes. **93e:60178**
(Heyman, D. P.) *see* **Stochastic models, 93a:60001**
Lal, Arbind K. (*with* Sinha, Sagnik) Zero-sum two-person semi-Markov games. **93c:90115**
Levikson, Benny *see* **Assaf, David, 93f:90049**
Robbins, Herbert Remarks on the secretary problem. **93b:60091**
Sinha, Sagnik *see* **Lal, Arbind K., 93c:90115**
(Sobel, Matthew J.) *see* **Stochastic models, 93a:60001**
Sundaram, Rangarajan K. *see* **Banks, Jeffrey S., 93g:90107**
Taudes, Alfred Markov teams—an analytical approach to process migration in distributed computing systems. (English summary) **93c:68007**
Taylor, P. G. *see* **Coyle, A. J., 93d:60147**
Wakuta, Kazuyoshi Optimal stationary policies in the vector-valued Markov decision process. **93f:90099**
— Optimal control of an imperfectly observed queueing system. (English summary) **93m:90038**
Wang, You-Gan *see* **Gittins, John, 93k:62013**
Yao, David D. *see* **Glasserman, Paul, 93b:60204** *and* **93e:60178**
Zheng, Yao Hui The new better than used in convex ordering properties of increasing Markov processes. (Chinese. English and Chinese summaries)

Items listed otherwise than by author

Stochastic models ★ Stochastic models. **93a:60001**

90C42 Markov programming and Markov renewal programming

Buckley, James J. Sugeno type controllers are universal controllers. (English summary) **93m:90100**
Wei, Wen Yuan *see* **Zhu, Cheng Xi**
Zhu, Cheng Xi (*with* Wei, Wen Yuan) Strong optimality criteria for Markov decision programming. (Chinese. Chinese summary)

Items with secondary classifications in 90C42

Bailey, Michael P. *see* **Glazebrook, Kevin D.; et al., 93f:90180**
Glazebrook, Kevin D. (*with* Bailey, Michael P.; Whitaker, Lyn R.) Cost rate heuristics for semi-Markov decision processes. **93f:90180**
Hu, Qi Ying Discounted and average Markov decision processes with unbounded rewards: new conditions. (English summary) **93m:90094**
Lazarova, Tatiana B. *see* **Sgurev, Vasil S., 93m:90096** *and* **93m:90097**
Sgurev, Vasil S. (*with* Lazarova, Tatiana B.) Stationary randomized strategies of a set of dependent semi-Markov decision-making processes with common linear constraints and without reward rate reevaluation. (Russian summary) **93m:90096**
— (*with* Lazarova, Tatiana B.) Randomized policies and strategies at semi-Markov decision processes with additional linear constraints. (Russian summary) **93m:90097**
Whitaker, Lyn R. *see* **Glazebrook, Kevin D.; et al., 93f:90180**

90C45 Continuous programming

Asami, Yasushi A note on the derivation of the first and second derivatives of objective functions in geographical optimization problems. (English summary) **93j:90128**
Bector, C. R. (*with* Singh, Manohar; Husain, I.) Second order symmetric dual continuous-time programming problem. **93c:90104**
Cole, R. E. (*with* Goodrich, R. K.) L_p-spectral estimation with an L_∞-upper bound. (English summary) **93m:90101**
Goodrich, R. K. *see* **Cole, R. E., 93m:90101**
Husain, I. *see* **Bector, C. R.; et al., 93c:90104**
Jennings, L. S. *see* **Teo, Kok Lay; et al.**
Lai, Han Ch'ing (*with* Wu, Shun I) Extremal points and optimal solutions for general capacity problems. **93g:90086**
Lepp, Riho Discrete approximation of a problem of the continuous programming. (Russian summary) **93m:90102**
Panyukov, A. V. (*with* Shtraus, V. A.) Nonatomic problems of the location of extended objects with a finite number of K-equivalence classes. (Russian. English and Ukrainian summaries)
Rehbock, V. *see* **Teo, Kok Lay; et al.**
Shtraus, V. A. *see* **Panyukov, A. V.**

Singh, Manohar *see* **Bector, C. R.; et al., 93c:90104**
Teo, Kok Lay (*with* Rehbock, V.; Jennings, L. S.) A new computational algorithm for functional inequality constrained optimization problems. (English summary)
Wu, Shun I Extremal points and an algorithm for a class of continuous transportation problems. **93b:90108**
— *see also* **Lai, Han Ch'ing, 93g:90086**

Items with secondary classifications in 90C45

Bector, C. R. (*with* Chandra, Suresh; Husain, I.) Sufficient optimality conditions and duality for a continuous-time minmax programming problem. (English summary) **93j:49028**
— (*with* Chandra, Suresh; Husain, I.) Generalized continuous fractional programming duality: a parametric approach. (English summary) **93k:90094**
Chandra, Suresh *see* **Bector, C. R.; et al., 93j:49028** *and* **93k:90094**
Husain, I. *see* **Bector, C. R.; et al., 93j:49028** *and* **93k:90094**
Jennings, L. S. *see* **Rehbock, V.; et al., 93d:49040**
Kaul, R. N. *see* **Suneja, S. K.; et al., 93i:90096**
Kiselëva, E. M. Solution of the generalized Neyman-Pearson problem using optimal set-partitioning methods. (Russian) **93b:62026**
Lee, Cho Seng *see* **Rehbock, V.; et al., 93d:49040**
Rehbock, V. (*with* Teo, Kok Lay; Jennings, L. S.; Lee, Cho Seng) An exact penalty function approach to all-time-step constrained discrete-time optimal control problems. **93d:49040**
Singh, Chanchal *see* **Suneja, S. K.; et al., 93i:90096**
Suneja, S. K. (*with* Singh, Chanchal; Kaul, R. N.) Optimality and duality in continuous-time nonlinear fractional programming. (English summary) **93i:90096**
Teo, Kok Lay *see* **Rehbock, V.; et al., 93d:49040**

90C48 Programming in abstract spaces

Abramov, A. P. First-order alternative extremum conditions. (Russian) (*see* **93c:90004**)
Bean, James C. *see* **Romeijn, H. Edwin; et al., 93a:90079**
Bergthaller, C. (*with* Singer, Ivan) The distance to a polyhedron. **93d:90070**
Borwein, Jonathan (*with* Lewis, Adrian S.) Partially finite convex programming. I. Quasi relative interiors and duality theory. **93e:90069a**
— (*with* Lewis, Adrian S.) Partially finite convex programming. II. Explicit lattice models. **93e:90069b**
He, Lun Zhi *see* **Zhang, Hua Xiao; et al., 93i:90112**
Jeyakumar, V. (*with* Wolkowicz, Henry) Generalizations of Slater's constraint qualification for infinite convex programs. **93e:90070**
Jin, Yue Feng *see* **Zhang, Hua Xiao; et al., 93i:90112**
Lewis, Adrian S. *see* **Borwein, Jonathan, 93e:90069a** *and* **93e:90069b**
Mazure, Marie-Laurence (*with* Volle, Michel) Équations inf-convolutives et conjugaison de Moreau-Fenchel. (English and French summaries) [Inf-convolution equations and Moreau-Fenchel conjugation] **93i:90111**
Romeijn, H. Edwin (*with* Smith, Robert L.; Bean, James C.) Duality in infinite-dimensional linear programming. **93a:90079**
Singer, Ivan *see* **Bergthaller, C., 93d:90070**
Skalyga, V. I. The deformation method for studying infinite-dimensional optimization problems. (Russian)
Smith, Robert L. *see* **Romeijn, H. Edwin; et al., 93a:90079**
Volle, Michel *see* **Mazure, Marie-Laurence, 93i:90111**
Wolkowicz, Henry *see* **Jeyakumar, V., 93e:90070**
Zhang, Hua Xiao (*with* Jin, Yue Feng; He, Lun Zhi) The optimality conditions of D-pseudoconvex programming with operator constraints. (English summary) **93i:90112**
Zheng, Quan[1] (*with* Zhuang, Deming Micheal) Equi-robust set-valued mappings and the approximation of fixed points. (English summary) **93i:90113**
— (*with* Zhuang, Deming Micheal) Integral global optimization of constrained problems in functional spaces with discontinuous penalty functions. **93a:90080**
Zhuang, Deming Micheal *see* **Zheng, Quan[1], 93a:90080** *and* **93i:90113**
Zubiri, J. Conditions for optimality of $C(S)$-valued functions. **93a:90081**

Items with secondary classifications in 90C48

Arutyunov, A. V. Higher-order extremum conditions in abnormal minimization problems. (Russian. Russian summary) **93h:49039**
Astaf'ev, N. N. ★ Бесконечные системы линейных неравенств в математическом программировании. (Russian) [Infinite systems of linear inequalities in mathematical programming] **93b:90002**
Atteia, Marc (*with* Elqortobi, Abdelkader) Polaire de la somme de deux ensembles. (English summary) [The polar of the sum of two sets] **93a:46008**
Bector, C. R. (*with* Husain, I.; Durga Prasad, Modekurti Venkata) Constrained continuous-time games and symmetric duality. **93c:90105**
Behera, A. (*with* Panda, G. K.) A generalized nonlinear complementarity problem of mathematical programming in Banach spaces. (English summary) **93g:90073**
Borisenko, O. F. (*with* Minchenko, L. I.) Directional derivatives of the maximum function. (Russian. Ukrainian summary) **93k:49015**
Bronshtein, M. D. Functionals defined by the maximum of a Lagrangian and their applications to ordinary differential equations. (English summary) **93j:49018**
Cuesta Saínz de la Torre, Lylia E. A note on the quantitative stability of infinite-dimensional parametric optimization problems. (English and Spanish summaries) **93j:90110**
Dinh Thé Lục *see* **Phan Quốc Khánh, 93i:90084**
Đỗ Văn Lưu On necessary optimality conditions for discrete minimax problems. **93e:49036**
Dunn, J. C. (*with* Tian, T.) Variants of the Kuhn-Tucker sufficient conditions in cones of nonnegative functions. (English summary) **93j:49021**
Durga Prasad, Modekurti Venkata *see* **Bector, C. R.; et al., 93c:90105**
Dymkov, M. P. Necessary conditions for optimality in a linear 2-D control system with constraints. (Russian. English and Russian summaries) **93i:49032**
Eicke, Bertolt Iteration methods for convexly constrained ill-posed problems in Hilbert space. (English summary) **93i:49038**
Elqortobi, Abdelkader *see* **Atteia, Marc, 93a:46008**
Fattorini, H. O. Optimal control problems for distributed parameter systems governed by semilinear parabolic equations in L^1 and L^∞ spaces. (English summary) **93k:49019**
Ferro, Giuseppe *see* **Romano, Giovanni; et al., 93h:73029**
Hassouni, A. Quasimonotone multifunctions; applications to optimality conditions in quasiconvex programming. (English summary) **93j:49016**
Husain, I. *see* **Bector, C. R.; et al., 93c:90105**
Hwang, D. M. (*with* Kelley, C. T.) Convergence of Broyden's method in Banach spaces. **93g:65086**
(Ivanilov, Yu. P.) *see* **Operations research (models, systems, solutions), 93c:90004**
Ivanov, A. G. An almost periodic Lyapunov problem. (Russian) **93b:49031**
Izmailov, A. F. Higher-order necessary conditions in extremum problems. (Russian. Russian summary) **93g:49016**
— Degenerate extremal problems with inequality-type constraints. (Russian. Russian summary) **93j:49022**
Jaćimović, M. (*with* Krnić, I.; Potapov, M. M.) Lagrange multipliers method and quadratic programming in Hilbert space. (Serbo-Croatian summary) **93b:90060**
Jourani, A. Regularity and strong sufficient optimality conditions in differentiable optimization problems. (English summary) **93k:49023**
Jovanov, D. S. Variational inequalities with cone constraints. (English summary) **93h:49019**
Kaplan, A. A. (*with* Tichatschke, Rainer) Stable approximation schemes for ill-posed convex variational problems. **93e:49050**
Kelley, C. T. *see* **Hwang, D. M., 93g:65086**
Kenderov, P. S. (*with* Revalski, Julian Petrov) The Banach-Mazur game and generic existence of solutions to optimization problems. **93i:49012**
Kotkin, G. G. *see* **Voloshinov, V. V., 93f:90166**
Krnić, I. *see* **Jaćimović, M.; et al., 93b:90060**
Lai, Han Ch'ing (*with* Wu, Shun I) Extremal points and optimal solutions for general capacity problems. **93g:90086**
Leonov, A. S. Variational algorithms with a posteriori choice of the regularization parameter for solving ill-posed extremal problems. (English summary) (*see* **93m:00041**)
Li, Yao Tang *see* **Zhang, Shi Sheng, 93d:90066**
Mayne, David Q. *see* **Polak, Elijah; et al., 93i:49040**
Mel'nik, V. S. Noncoercive extremal problems in Banach spaces. (Russian) **93d:49009**
Minchenko, L. I. *see* **Borisenko, O. F., 93k:49015**
Mizgailov, V. N. *see* **Mukhin, V. V., 93k:65048**
Mukhin, V. V. (*with* Mizgailov, V. N.) An iterative algorithm for minimization of the functional $\||Ax| - F\|$. (Russian. English and Russian summaries) **93k:65048**
Panda, G. K. *see* **Behera, A., 93g:90073**
Phan Quốc Khánh (*with* Dinh Thé Lục) Problems of vector optimization. (English summary) **93i:90084**
— Proper solutions of vector optimization problems. **93d:90057**
Polak, Elijah (*with* Yang, T. H.; Mayne, David Q.) A method of centers based on barrier functions for solving optimal control problems with continuum state and control constraints. (English summary) **93i:49040**
Postolică, V. Supernormal cones and existence results for efficient points. **93e:90054**
Potapov, M. M. *see* **Jaćimović, M.; et al., 93b:90060**
Reiland, Thomas W. Nonsmooth analysis and optimization on partially ordered vector spaces. **93c:49018**
Revalski, Julian Petrov *see* **Kenderov, P. S., 93i:49012**
Riahi, Hassan Application du principe variationnel d'Ekeland à l'existence d'optima de Pareto. [Application of Ekeland's variational principle to the existence of Pareto optima] **93m:90072**
Romano, Giovanni (*with* Rosati, Luciano; Ferro, Giuseppe) Theorems of the alternative in unilateral structural mechanics. **93h:73029**
Rosati, Luciano *see* **Romano, Giovanni; et al., 93h:73029**
Singer, Ivan Some further duality theorems for optimization problems with reverse convex constraint sets. (English summary) **93i:49044**
Šverák, Vladimír Rank-one convexity does not imply quasiconvexity. **93b:49026**
Tasković, Milan R. General convex functions. **93b:26021**
Thibault, Lionel Lagrange-Kuhn-Tucker multipliers for general mathematical programming problems. (*see* **93d:49004**)
Tian, T. *see* **Dunn, J. C., 93j:49021**
Tichatschke, Rainer *see* **Kaplan, A. A., 93e:49050**
Tseng, Paul On the convergence of the products of firmly nonexpansive mappings. **93f:90161**
Voloshinov, V. V. (*with* Kotkin, G. G.) ★ Параметрические свойства обратных задач оптимизации. (Russian. Russian summary) [Parametric properties of inverse problems of optimization] **93f:90166**
Ward, D. E. Chain rules for nonsmooth functions. **93d:46132**
Wu, Shun I *see* **Lai, Han Ch'ing, 93g:90086**
Yakubovich, V. A. Nonconvex optimization problem: the infinite-horizon linear-quadratic control problem with quadratic constraints. **93g:49026**
Yang, T. H. *see* **Polak, Elijah; et al., 93i:49040**
Zhang, Shi Sheng (*with* Li, Yao Tang) Nonlinear complementary problems and set-valued nonlinear complementary problems in Hilbert spaces. (Chinese. English summary) **93d:90066**
Zheng, Quan[1] Discontinuity and measurability of robust functions in the integral global minimization. (English summary) **93m:90084**

Items listed otherwise than by author

Operations research (models, systems, solutions) ★ Исследование операций (модели, системы, решения). (Russian) [Operations research (models, systems, solutions)] **93c:90004**

90C60 Abstract computational complexity for mathematical programming problems [see also 68Q25]

Grover, Lov K. Local search and the local structure of NP-complete problems. (English summary) **93g:90087**

Norton, Carolyn Haibt (*with* Plotkin, Serge A.; Tardos, Éva) Using separation algorithms in fixed dimension. **93b:90109**
Pardalos, Panos M. (*with* Vavasis, Stephen A.) Open questions in complexity theory for numerical optimization.
Plotkin, Serge A. *see* **Norton, Carolyn Haibt; et al., 93b:90109**
Tardos, Éva *see* **Norton, Carolyn Haibt; et al., 93b:90109**
Vavasis, Stephen A. Black-box complexity of local minimization. (English summary) **93m:90103**
— *see also* **Pardalos, Panos M.**

Items with secondary classifications in 90C60

Adler, Ilan (*with* Beling, Peter A.) Polynomial algorithms for LP over a subring of the algebraic integers with applications to LP with circulant matrices. (English summary) **93i:90065**
Anstreicher, Kurt M. On interior algorithms for linear programming with no regularity assumptions. (English summary) **93f:90105**
Baccelli, François (*with* Bambos, Nicholas; Walrand, Jean) On flows in stochastic marked graphs. (English summary) **93f:68070**
Bambos, Nicholas *see* **Baccelli, François; et al., 93f:68070**
Bayard, David S. Reduced complexity dynamic programming based on policy iteration. (English summary) **93i:90106**
Beling, Peter A. *see* **Adler, Ilan, 93i:90065**
Chern, Maw Sheng On the computational complexity of reliability redundancy allocation in a series system. (English summary) **93f:90079**
Eaves, B. Curtis (*with* Rothblum, Uriel G.) Dines-Fourier-Motzkin quantifier elimination and an application of corresponding transfer principles over ordered fields. **93h:03037**
Ebiefung, Aniekan A. (*with* Kostreva, Michael M.) Global solvability of generalized linear complementarity problems and a related class of polynomial complementarity problems. **93a:90070**
Graw, Bernd Coxeter groups and nonuniform complexity. **93d:20079**
Jha, Somesh *see* **Pardalos, Panos M., 93e:90042**
Kannan, Ravindran Lattice translates of a polytope and the Frobenius problem. (English summary) **93k:52015**
Kostreva, Michael M. *see* **Ebiefung, Aniekan A., 93a:90070**
Li, Chung-Lun (*with* McCormick, S. Thomas; Simchi-Levi, David) On the minimum-cardinality-bounded-diameter and the bounded-cardinality-minimum-diameter edge addition problems. (English summary) **93i:68144**
Lin-Kriz, Yu (*with* Pan, Victor) On parallel complexity of integer linear programming, GCD and the iterated mod function. **93f:90119**
McCormick, S. Thomas *see* **Li, Chung-Lun; et al., 93i:68144**
Mizuno, Shinji (*with* Nagasawa, Atsushi) Strict monotonicity in Todd's low-complexity algorithm for linear programming. (English summary) **93h:90060**
Nagasawa, Atsushi *see* **Mizuno, Shinji, 93h:90060**
Pan, Victor *see* **Lin-Kriz, Yu, 93f:90119**
Pardalos, Panos M. (*with* Jha, Somesh) Complexity of uniqueness and local search in quadratic 0-1 programming. **93e:90042**
Punnen, Abraham P. Traveling salesman problem under categorization. (English summary) **93f:90135**
Renegar, James Computational complexity of solving real algebraic formulae. **93a:65189**
— (*with* Shub, Michael) Unified complexity analysis for Newton LP methods. **93a:90038**
Rothblum, Uriel G. *see* **Eaves, B. Curtis, 93h:03037**
Shub, Michael *see* **Renegar, James, 93a:90038**
Simchi-Levi, David *see* **Li, Chung-Lun; et al., 93i:68144**
Todd, Michael J. (*with* Vial, Jean-Philippe) Todd's low-complexity algorithm is a predictor-corrector path-following method. (English summary) **93g:90049**
Vial, Jean-Philippe *see* **Todd, Michael J., 93g:90049**
Walrand, Jean *see* **Baccelli, François; et al., 93f:68070**

90C70 Fuzzy programming

Alam, S. S. *see* **Bit, A. K.; et al.**
Biswal, M. P. Fuzzy programming technique to solve multi-objective geometric programming problems. (English summary)
— *see also* **Bit, A. K.; et al.**
Bit, A. K. (*with* Biswal, M. P.; Alam, S. S.) Fuzzy programming approach to multicriteria decision making transportation problem. (English summary)
Bochkareva, D. M. *see* **Vyazgin, V. A.**
Campos, Lourdes (*with* González Muñoz, Antonio; Vila, Maria Amparo) On the use of the ranking function approach to solve fuzzy matrix games in a direct way. (English summary)
Canestrelli, Elio (*with* Giove, Silvio) Optimizing a quadratic function with fuzzy linear coefficients. (English, Russian and Polish summaries) **93h:90103**
Černý, Martin The possibilities of fuzzy dialogue in interactive vector optimization. (English summary) **93m:90104**
Chang, Da Yong (*with* Zhang, Li Li) Extent analysis and synthetic decision. (English summary) (*see* **93d:90005**)
Cong, Wen Xiang The fuzzy solution of multiobjective optimization control.
Czogała, Ernest (*with* Disney, Peter L.) Decision making in a probabilistic fuzzy environment. (*see* **93c:90002**)
Delgado, Miguel (*with* Herrera, F.; Verdegay, J. L.; Vila, Maria Amparo) Post-optimality analysis on the membership functions of a fuzzy linear programming problem. (English summary) **93k:90101**
Disney, Peter L. *see* **Czogała, Ernest, (93c:90002)**
Dutta, D. (*with* Rao, J. R.; Tiwari, R. N.) Sensitivity analysis in fuzzy linear fractional programming problem. (English summary)
— (*with* Rao, J. R.; Tiwari, R. N.) Effect of tolerance in fuzzy linear fractional programming. (English summary) **93k:90102**
Esogbue, Augustine O. (*with* Fedrizzi, Mario; Kacprzyk, Janusz) Fuzzy dynamic programming with stochastic systems. (*see* **93c:90002**)
Fan, Guangwei *see* **Zhao, Renhong; et al., 93j:90129**
Fedrizzi, Mario (*with* Fullér, Róbert) Stability in possibilistic linear programming with continuous fuzzy number parameters. **93g:90088**
— *see also* **Esogbue, Augustine O.; et al., (93c:90002)**
Fullér, Róbert *see* **Fedrizzi, Mario, 93g:90088**
Garcia-Aguado, C. (*with* Verdegay, J. L.) On the sensitivity of membership functions for fuzzy linear programming problems. (English summary)
Giove, Silvio *see* **Canestrelli, Elio, 93h:90103**
González Muñoz, Antonio *see* **Campos, Lourdes; et al.**
Govind, Rakesh *see* **Zhao, Renhong; et al., 93j:90129**
Herrera, F. (*with* Kovács, Margit; Verdegay, J. L.) Optimality for fuzzified mathematical programming problems: a parametric approach. (English summary)
— *see also* **Delgado, Miguel; et al., 93k:90101**
Huang, Nan Jing *see* **Zhang, Shi Sheng**
Huang, Zheng Shu Multi-objective and multiparameter fuzzy linear programming. (Chinese. English summary) **93b:90110**
Hussein, Mohammad L. On convex vector optimization problems with possibilistic weights. (English summary) **93k:90103**
— Qualitative analysis of basic notions in an iterative approach to possibilistic goal programming. (English summary)
Hwang, Ching Lai *see* **Lai, Young-Jou, 93h:90104; 93h:90105**
Ichihashi, Hidetomo *see* **Luhandjula, M. K.; et al., 93f:90183**
Inuiguchi, Masahiro *see* **Luhandjula, M. K.; et al., 93f:90183**
Kacprzyk, Janusz *see* **Esogbue, Augustine O.; et al., (93c:90002)**
Kamel, M. S. *see* **Selim, Shokri Z.**
Kanagawa, A. *see* **Tamaki, F.; et al.**
Kovács, Margit Linear programming with centered fuzzy numbers. **93b:90111**
— A concept of optimality for fuzzified linear programming based on penalty function. (English summary) **93m:90105**
— *see also* **Herrera, F.; et al.**
Lai, Young-Jou (*with* Hwang, Ching Lai) Interactive fuzzy linear programming. **93h:90104**
— (*with* Hwang, Ching Lai) A new approach to some possibilistic linear programming problems. (English summary) **93h:90105**
— (*with* Hwang, Ching Lai) IFLP-II: a decision support system. (English summary)
Lee, E. Stanley (*with* Li, R.-J.) Fuzzy multiple objective programming and compromise programming with Pareto optimum. (English summary) **93k:90104**
— *see also* **Li, R.-J., 93k:90105** *and* **Negi, Devendra S.**
Li, R.-J. (*with* Lee, E. Stanley) De novo programming with fuzzy coefficients and multiple fuzzy goals. (English summary) **93k:90105**
— *see also* **Lee, E. Stanley, 93k:90104**
Luhandjula, M. K. (*with* Ichihashi, Hidetomo; Inuiguchi, Masahiro) Fuzzy and semi-infinite mathematical programming. **93f:90183**
Mohamed, Ramadan Hamed A chance-constrained fuzzy goal program. **93f:90184**
Negi, Devendra S. (*with* Lee, E. Stanley) Possibility programming by the comparison of fuzzy numbers. (English summary)
Nishiwaki, Yasushi Fuzzy optimization of radiation protection and nuclear safety. (*see* **93c:90002**)
Ohta, Hiroshi[1] *see* **Tamaki, F.; et al.**
Rao, J. R. *see* **Dutta, D.; et al., 93k:90102**
Rommelfanger, Heinrich Fuzzy mathematical programming—modelling of vague data by fuzzy sets and solution procedures. (*see* **93i:00021**)
Sakawa, Masatoshi (*with* Yano, Hitoshi) Multiobjective fuzzy linear analysis for fuzzy input/output data. (English summary) **93h:90106**
— (*with* Yano, Hitoshi) New solution concepts for multiobjective nonlinear programming problems with fuzzy coefficients taking account of fuzzy goals. **93d:90071**
— (*with* Yano, Hitoshi) Interactive decision making for multiobjective linear fractional programming problems with fuzzy parameters based on solution concepts incorporating fuzzy goals. **93g:90089**
Selim, Shokri Z. (*with* Kamel, M. S.) On the mathematical and numerical properties of the fuzzy c-means algorithm. (English summary)
Sengupta, Jati K. A fuzzy systems approach in data envelopment analysis. (English summary)
Tamaki, F. (*with* Kanagawa, A.; Ohta, Hiroshi[1]) A fuzzy design of sampling inspection plans by attributes. (English summary)
Tiwari, R. N. *see* **Dutta, D.; et al., 93k:90102**
Verdegay, J. L. *see* **Delgado, Miguel; et al., 93k:90101; Herrera, F.; et al.** *and* **Garcia-Aguado, C.**
Vila, Maria Amparo *see* **Delgado, Miguel; et al., 93k:90101** *and* **Campos, Lourdes; et al.**
Vyazgin, V. A. (*with* Bochkareva, D. M.) Fuzzy information in design systems. (Russian. Russian summary)
Xu, Nan Rong *see* **Yang, Jian Qing**
Yang, Jian Qing (*with* Xu, Nan Rong) Solving fuzzy linear programming problems with nonlinear membership functions. (Chinese. English and Chinese summaries)
Yano, Hitoshi *see* **Sakawa, Masatoshi, 93d:90071; 93g:90089** *and* **93h:90106**
Yazenin, A. V. Linear programming with random fuzzy data. (Russian) **93h:90107**
Zhang, Li Li *see* **Chang, Da Yong, (93d:90005)**
Zhang, Shi Sheng (*with* Huang, Nan Jing) Generalized complementarity problems for fuzzy mappings. (Chinese. English and Chinese summaries)
Zhao, Renhong (*with* Govind, Rakesh; Fan, Guangwei) The complete decision set of the generalized symmetrical fuzzy linear programming problem. (English summary) **93j:90129**

Items with secondary classifications in 90C70

Angelov, Plamen *see* **Filev, Dimiter, 93d:93050**
Bhattacharya, U. (*with* Rao, J. R.; Tiwari, R. N.) Fuzzy multi-criteria facility location problem. (English summary) **93g:90043**
Borisov, A. N. *see* **Slyadz', N. N., (93c:90002)**
Castagnoli, Erio (*with* Mazzoleni, Piera) From an oriental market to the European monetary systems: some fuzzy-sets-related ideas. (*see* **93c:90002**)
Chen, Rong Hua *see* **Feng, De Yi; et al., (93c:90002)**
Chen, Ting *see* **Meng, Bo**

Fedrizzi, Mario (*with* Fedrizzi, Michele; Ostasiewicz, Walenty) Towards fuzzy modelling in economics. (English summary)
Fedrizzi, Michele *see* **Fedrizzi, Mario; et al.**
Feng, De Yi (*with* Lin, Ming Zhou; Chen, Rong Hua; Jiang, Chun) Application of fuzzy statistical decision making in countermeasures against great earthquakes. (*see* **93c:90002**)
Filev, Dimiter (*with* Angelov, Plamen) Fuzzy optimal control. **93d:93050**
Fukuoka, N. *see* **Ishibuchi, Hisao; et al.**
Furukawa, Nagata An order relation and fundamental operations on fuzzy numbers and their applications to fuzzy linear programming. (English summary) **93m:04012**
Huang, Guohe (*with* Moore, R. Dan) Grey linear programming, its solving approach, and its application. (English summary)
Ishibuchi, Hisao (*with* Tanaka, Hideo; Fukuoka, N.) Discriminant analysis of fuzzy data and its application to a gas sensor system. (English summary)
Jiang, Chun *see* **Feng, De Yi; et al.**, (**93c:90002**)
Lin, Ming Zhou *see* **Feng, De Yi; et al.**, (**93c:90002**)
Liu, Pu *see* **Wang, Cai Hua**, (**93a:41001**)
Matloka, Marian Subjective valuations in a production model. (English summary) **93m:90014**
Mazzoleni, Piera *see* **Castagnoli, Erio**, (**93c:90002**)
Meng, Bo (*with* Chen, Ting) The FSWT method for multi-objective decision-making on the basis of fuzzy reasoning. (Chinese. English and Chinese summaries)
Moore, R. Dan *see* **Huang, Guohe**
Nishizaki, I. (*with* Sakawa, Masatoshi) A solution concept based on fuzzy decisions in n-person cooperative games. (English summary) **93j:90133**
Ostasiewicz, Walenty *see* **Fedrizzi, Mario; et al.**
Ramachandran, V. (*with* Sankaranarayanan, V.) Probability measures of fuzzy events in power systems. (*see* **93c:90003**)
Ramakrishnan, R. (*with* Rao, C. J. M.) The fuzzy weighted additive rule. **93b:90038**
Ramík, Jaroslav Inequality relations between fuzzy data. (*see* **93i:00021**)
Rao, C. J. M. *see* **Ramakrishnan, R., 93b:90038**
Rao, J. R. *see* **Bhattacharya, U.; et al., 93g:90043**
Roubens, Marc (*with* Teghem, Jacques, Jr.) Comparison of methodologies for multicriteria feasibility—constrained fuzzy and multiple-objective stochastic linear programming. (*see* **93c:90002**)
Sakawa, Masatoshi (*with* Yano, Hitoshi; Takahashi, Junya) Pareto optimality for multiobjective linear fractional programming problems with fuzzy parameters. **93c:90070**
— *see also* **Nishizaki, I., 93j:90133**
Sankaranarayanan, V. *see* **Ramachandran, V.**, (**93e:90003**)
Slyadz', N. N. (*with* Borisov, A. N.) Decision making based on fuzzy stochastic and statistical dominance. (*see* **93c:90002**)
Takahashi, Junya *see* **Sakawa, Masatoshi; et al., 93c:90070**
Tanaka, Hideo *see* **Ishibuchi, Hisao; et al.**
Teghem, Jacques, Jr. *see* **Roubens, Marc**, (**93c:90002**)
Tiwari, R. N. *see* **Bhattacharya, U.; et al., 93g:90043**
Wang, Cai Hua (*with* Liu, Pu) Fuzzy stochastic multi-objective programming. (*see* **93a:41001**)
Wierzchoń, S. T. Randomness and fuzziness in a linear programming problem. (*see* **93c:90002**)
Yano, Hitoshi *see* **Sakawa, Masatoshi; et al., 93c:90070**

90C90 Applications of mathematical programming

Agrawal, Ram Das *see* **Nag, Debabrata; et al.**
Banerji, D. K. *see* **Wilson, T. C.; et al.**
Basu, Anupam *see* **Wilson, T. C.; et al.**
Benkherouf, L. (*with* Watson-Gandy, C. D. T.) A note on the depot location problem with rectilinear distances and rotated axes. (English summary)
Chen, Guo Qing (*with* Feng, En Min; Teng, Hong Fei) A study on optimal models of geometric layouts with behavioral constraints. (Chinese. English and Chinese summaries)
Chen, Mian Yun A grey system method of overall urban planning. (Chinese. English summary)
Dai, Jian She (*with* Fei, Qi) An information selection model for the design of optimal distributed decision support systems. (Chinese. Chinese summary)
Dave, Dinesh S. (*with* Fitzpatrick, Kathy E.; Korukonda, A. Rao) Implementing optimization methods in network crashing: an illustration. (English summary) (*see* **93d:90005**)
Diem Ho Quadratic programming for portfolio optimization. (English summary)
Dinno, K. S. Utilization of the multi-level approach in optimal design of R.C. structures. (*see* **93a:41001**)
Eccher, Lorenzo *see* **Opricović, Serafim; et al.**
Fei, Qi *see* **Dai, Jian She**
Feng, En Min (*with* Xu, Guang Jian; Teng, Hong Fei) Optimization layout models for rectangular elements with behavior constraints and an algorithm for judging noninterference. (Chinese. English and Chinese summaries)
— *see also* **Chen, Guo Qing; et al.**
Fitzpatrick, Kathy E. *see* **Dave, Dinesh S.; et al.**, (**93d:90005**)
Fukumoto, Satoshi (*with* Kaio, Naoto; Osaki, Shunji) Optimal checkpointing policies using the checkpointing density. (English summary)
Fukuoka, N. *see* **Ishibuchi, Hisao; et al.**
Garkusha, N. I. Investigation of the adaptive properties of production-transportation systems by means of stochastic models. (Russian)
Gerchak, Yigal (*with* Kilgour, D. Marc) Sequential competitions with nondecreasing levels of difficulty. (English summary) **93k:90106**
Gewali, Laxmi P. (*with* Venkatasubramanian, R.) The external grazing problem. (English summary) **93k:90107**
Goh, C. J. *see* **Wang, C. M., (93d:90005)**
Guddat, J. (*with* Römisch, Werner; Schultz, Rüdiger) Some applications of mathematical programming techniques in optimal power dispatch. (English and German summaries)
Ho, James K. (*with* Lee, Tak C.) Dynamics of information in distributed decision systems. (English summary)
Hu, Xian You (*with* Wei, Quan Ling) Using the simplex method to determine the real efficient front plane for production. (Chinese. Chinese summary)
Isailovski, Miodrag *see* **Opricović, Serafim; et al.**
Ishibuchi, Hisao (*with* Tanaka, Hideo; Fukuoka, N.) Discriminant analysis of fuzzy data and its application to a gas sensor system. (English summary)
Jain, R. C. *see* **Nag, Debabrata; et al.**
Janssen, A. J. E. M. (*with* Maes, M. J. J. J. B.) An optimization problem in reflector design. **93b:90112**
Johannes, Frank *see* **Kredler, Christian; et al.**
Kaio, Naoto *see* **Fukumoto, Satoshi; et al.**
Kilgour, D. Marc *see* **Gerchak, Yigal, 93k:90106**
Kim, Seong In *see* **Sherali, Hanif D., 93i:90114**
Kolonko, Michael Optimal compactification of a floorplan and its relation to other optimization problems—a dynamic programming approach. (English summary) **93k:90108**
Korukonda, A. Rao *see* **Dave, Dinesh S.; et al.**, (**93d:90005**)
Kredler, Christian (*with* Zillober, Christian; Johannes, Frank; Sigl, Georg) An application of preconditioned conjugate gradients to relative placement in chip design. (English summary)
Le Dimet, François-Xavier Optimization and optimal control in atmospheric sciences. (English summary) (*see* **93d:90005**)
Lee, Tak C. *see* **Ho, James K.**
Löder, E. (*with* Schaepperle, J.) Optimization of systems with deterministic and statistical search procedures. (English summary) (*see* **93j:00007**)
Maes, M. J. J. J. B. *see* **Janssen, A. J. E. M., 93b:90112**
Majithia, Jay C. *see* **Wilson, T. C.; et al.**
Nag, Debabrata (*with* Jain, R. C.; Agrawal, Ram Das) A thought on deviational variables of goal programming in social problems.
Niczyj, Janusz (*with* Paczkowski, Witold M.) An expert system of controlling a program for discrete structural optimization. (English summary) (*see* **93d:90005**)
Opricović, Serafim (*with* Eccher, Lorenzo; Isailovski, Miodrag) An optimization procedure for water reservoirs in cascade. (English summary)
Osaki, Shunji *see* **Fukumoto, Satoshi; et al.**
Paczkowski, Witold M. *see* **Niczyj, Janusz**, (**93d:90005**)
Qin, Shi Jia (*with* Yuan, Jian Guo) A study on sampling precision of bulk materials of type *A*. (Chinese)
Römisch, Werner *see* **Guddat, J.; et al.**
Schaepperle, J. *see* **Löder, E.**, (**93j:00007**)
Schmid, L. J. (*with* Sved, G.; Simpson, A. R.) Genetic algorithms applied to structural engineering problems. (*see* **93d:90005**)
Schultz, Rüdiger *see* **Guddat, J.; et al.**
Sherali, Hanif D. (*with* Kim, Seong In) Variational problems for determining optimal paths of a moving facility. (English summary) **93i:90114**
Sigl, Georg *see* **Kredler, Christian; et al.**
Simpson, A. R. *see* **Schmid, L. J.; et al.**, (**93d:90005**)
Sobieszczanski-Sobieski, Jaroslaw Approximate simulation model for analysis and optimization in engineering system design. (*see* **93a:41001**)
Steiner, George (*with* Wang, Dan; Yuan, Yufei) Primal dual algorithms for the vehicle refueling problem. (English summary)
Sved, G. *see* **Schmid, L. J.; et al.**, (**93d:90005**)
Tanaka, Hideo *see* **Ishibuchi, Hisao; et al.**
Teng, Hong Fei *see* **Chen, Guo Qing; et al.** *and* **Feng, En Min; et al.**
Uzdemir, A. P. Methods for solving dynamic problems of scheduling a complex of jobs in continuous time. (Russian) (*see* **93k:90002**)
Venkatasubramanian, R. *see* **Gewali, Laxmi P., 93k:90107**
Voitishin, Yu. V. ★ Приближенная оптимизация вариантных моделей развития производственных систем. (Russian. Russian summary) [Approximate optimization of variant models for the development of production systems]
Wang, C. M. (*with* Goh, C. J.) A unified approach to optimization of structural elements. (English summary) (*see* **93d:90005**)
Wang, Dan *see* **Steiner, George; et al.**
Wang, Shu Yu (*with* Zhou, Xiao Bao) Multiobjective optimization in spillway profile. (*see* **93a:41001**)
Watson-Gandy, C. D. T. *see* **Benkherouf, L.**
Wei, Quan Ling *see* **Hu, Xian You**
Wilson, T. C. (*with* Basu, Anupam; Banerji, D. K.; Majithia, Jay C.) Commutative operand alignment for interconnect optimization in behavioural synthesis. (English summary)
Xu, Guang Jian *see* **Feng, En Min; et al.**
Yuan, Jian Guo *see* **Qin, Shi Jia**
Yuan, Yufei *see* **Steiner, George; et al.**
Zeng, Guang Wu The pattern transformation method—a new method in engineering optimum design. (English summary) (*see* **93d:90005**)
Zheng, Mei Te A decomposition-coordination algorithm for the optimal planning of electrical power systems. (Russian) (*see* **93k:90002**)
Zhornitskii, A. B. A new complex of models of the objective function in health care management. (Russian)
Zhou, Xiao Bao *see* **Wang, Shu Yu**, (**93a:41001**)
Zillober, Christian *see* **Kredler, Christian; et al.**

Items with secondary classifications in 90C90

Abramov, A. P. Problems on the choice of plan-proportions. (Russian) **93h:90054**
Alabert i Romero, Aureli On the optimization of hydroelectric power generation with random water inflows. (Catalan. Catalan summary)
Angell, Thomas S. (*with* Kirsch, Andreas) Multicriteria optimization in antenna design. (English summary) **93h:90078**
Berger, M. F. *see* **Navon, I. M.; et al., (93d:90005)**
Binding, P. A. *see* **Herzog, Walter**
Bock, Igor Thickness optimization in viscoelastic plate bending. **93a:49024**
Chalifour, Alain (*with* Delfour, Michel C.) Optimal distribution of larvicide in running waters. **93b:92009**

Chen, Jia Yuan *see* **Hu, Xiao Dong**
Chen, Mu Fa Stochastic models of economic optimization. I. (Chinese. English and Chinese summaries)
— Stochastic models of economic optimization. II. (Chinese. English and Chinese summaries)
Delfour, Michel C. *see* **Chalifour, Alain**, **93b:92009**
Düsing, R. *see* **Meier, G.**, **93k:90048**
Eddy, Roland H. (*with* Foster, E. A. D.) An optimization approach to a certain class of geometric inequalities. **93i:51044**
Foster, E. A. D. *see* **Eddy, Roland H.**, **93i:51044**
Fülöp, J. A semi-infinite programming method for approximating load duration curves by polynomials. (English and German summaries) **93j:90116**
Hearn, Donald W. *see* **Ventura, Jose A.**, **93k:90100**
Herzog, Walter (*with* Binding, P. A.) Predictions of antagonistic muscular activity using nonlinear optimization. (English summary)
Hu, Xiao Dong (*with* Chen, Jia Yuan) A direct method for higher-dimensional constrained nonlinear optimum problems and its application. (Chinese. English and Chinese summaries)
Hu, Ying Ping General possibilistic multi-objective linear programming and its application. (Chinese. English summary) **93e:90039**
Ismailov, I. G. An algorithm for the problem of the optimization of communications systems. (Russian. Russian summary) (*see* **93m:93004**)
Ivaneshkin, A. I. On complex optimization of the use of information-technological resources in information processing systems with regulated message sizes. (Russian. English and Ukrainian summaries)
Jensen, David L. *see* **King, Alan J.**
Jensen, Finn M. (*with* Thoft-Christensen, P.) Application of linear decomposition technique in reliability-based structural optimization. (English summary) (*see* **93e:90003**)
Kabanov, S. A. (*with* Men'kov, L. Yu.; Shalygin, A. S.) Multicriterional optimization of dynamic systems. (Russian)
Kappen, Bert *see* **Maes, M. J. J. J. B.**, **93k:52011**
Kerber, Dirk On the determination of the worst sampling error in a communication system for pulse-amplitude-modulated signals. I. The general model. (English summary) **93h:94001**
Kiehl, M. (*with* von Stryk, O.) Real-time optimization of a hydroelectric power plant. (English and German summaries)
King, Alan J. (*with* Jensen, David L.) Linear-quadratic efficient frontiers for portfolio optimization. (English summary)
Kirsch, Andreas *see* **Angell, Thomas S.**, **93h:90078**
Kovanic, Pavel Smart matrices. (English summary) (*see* **93f:93005**)
Kravtsova, L. V. (*with* Plotkin, Ya. D.; Smyshlyaeva, L. G.) On the theory of optimization with respect to a probability criterion and its use in calculating the output percentage of nondefective semiconductor devices. (Russian) (*see* **93m:00035**)
Le Dimet, François-Xavier *see* **Navon, I. M.; et al.**, (**93d:90005**)
Li, Han Lin (*with* Yang, Chao Chih) Using integer programming to find minimum deduction graphs for accomplishing inferences. (English summary) **93k:90056**
Li, Shou Fan *see* **Niu, Tie Jun; et al.**, (**93a:41001**)
Liang, Yan Chun *see* **Niu, Tie Jun; et al.**, (**93a:41001**)
Maes, M. J. J. J. B. (*with* Kappen, Bert) On the permutahedron and the quadratic placement problem. (English summary) **93k:52011**
Meier, G. (*with* Düsing, R.) Zur Modellierung logischer Aussagen ergänzend zu linearen Programmen. Grundlagen und Entwurfsüberlegungen für einen Modellgenerator. (English and German summaries) [On the modelling of logical predicates supplementary to linear programs. Foundations and design ideas for a model generator] **93k:90048**
Melikov, A. Z. (*with* Ponomarenko, L. A.) Optimization of a digital integral maintenance network with a finite number of users and with lockouts. (Russian. Russian summary)
Men'kov, L. Yu. *see* **Kabanov, S. A.; et al.**
(Mikhalevich, V. S.) *see* **Methods for solving problems of nonlinear and discrete programming**, **93b:90010**
Mirzoakhmedov, F. (*with* Mosheev, L. I.) Deterministic and stochastic approximating problems with applications to the control of production. (Russian. English, Russian and Ukrainian summaries) **93g:90053**
Moliboga, S. M. Some decision-making problems under conditions of uncertainty based on the minimax risk criterion. (Russian) (*see* **93m:00036**)
Morgan, Alexander P. *see* **Watson, Layne T.**, **93h:90093**
Mosheev, L. I. *see* **Mirzoakhmedov, F.**, **93g:90053**
Murphy, Frederic H. (*with* Wang, Zhong Xian) A network reformulation of an electric utility expansion planning model. (English summary)
Navon, I. M. (*with* Zou, X.; Berger, M. F.; Phua, Paul Kang Hoh; Schlick, Tamar; Le Dimet, François-Xavier) Testing the reliability and robustness of optimization codes for large-scale optimization problems. (English summary) (*see* **93d:90005**)
Niu, Tie Jun (*with* Li, Shou Fan; Wang, Zai Shen; Liang, Yan Chun) Half flexible simplex method and applications in engineering. (*see* **93a:41001**)
Papola, Natale Bandwidth maximization: split and unsplit solutions. (English summary)
Phua, Paul Kang Hoh *see* **Navon, I. M.; et al.**, (**93d:90005**)
Plotkin, Ya. D. *see* **Kravtsova, L. V.; et al.**, (**93m:00035**)
Ponomarenko, L. A. *see* **Melikov, A. Z.**
Ramachandran, V. (*with* Sankaranarayanan, V.) Probability measures of fuzzy events in power systems. (*see* **93e:90003**)
Ravindran, A. *see* **Saber, Hussein M.**, **93i:90086**
Saber, Hussein M. (*with* Ravindran, A.) Nonlinear goal programming theory and practice: a survey. (English summary) **93i:90086**
Sankaranarayanan, V. *see* **Ramachandran, V.**, (**93e:90003**)
Schlick, Tamar *see* **Navon, I. M.; et al.**, (**93d:90005**)
Schwartz, Jacob T. (*with* Sharir, Micha) Finding effective "force targets" for two-dimensional, multifinger frictional grips. **93d:70006**
Shalygin, A. S. *see* **Kabanov, S. A.; et al.**
Sharir, Micha *see* **Schwartz, Jacob T.**, **93d:70006**
Shcheglov, A. Yu. Multicriterial optimization of complex systems with distribution of parameters in the order of decreasing importance. (Russian. English and Ukrainian summaries)
Sheng, Zhao Han *see* **Wu, Guang Mou**
Shi, Yong (*with* Zhang, Dazhi) Flexible contingency plans in optimal linear designs. (English summary)
Smyshlyaeva, L. G. *see* **Kravtsova, L. V.; et al.**, (**93m:00035**)
von Stryk, O. *see* **Kiehl, M.**
Styblinski, M. A. A generalized approach to circuit performance variability reduction: methods and algorithms. (English summary) **93j:94040**
Sushil Application of physical system theory and goal programming to modelling and analysis of waste management in national planning. (English summary)
Thoft-Christensen, P. *see* **Jensen, Finn M.**, (**93e:90003**)
Ushakov, I. A. *see* **Volkovich, V. L.; et al.**, **93j:90004**
Ventura, Jose A. (*with* Hearn, Donald W.) Restricted simplicial decomposition for symmetric convex flow problems. (English summary) **93k:90100**
Volkovich, V. L. (*with* Voloshin, A. F.; Zaslavskii, V. A.; Ushakov, I. A.) ★ Модели и методы оптимизации надежности сложных систем. (Russian. Russian summary) [Models and methods for optimizing the reliability of complex systems] **93j:90004**
Voloshin, A. F. *see* **Volkovich, V. L.; et al.**, **93j:90004**
Voronin, A. N. ★ Многокритериальный синтез динамических систем. (Russian. Russian summary) [Multicriterial synthesis of dynamical systems] **93j:90005**
Wang, Zai Shen *see* **Niu, Tie Jun; et al.**, (**93a:41001**)
Wang, Zhong Xian *see* **Murphy, Frederic H.**
Watson, Layne T. (*with* Morgan, Alexander P.) Polynomial programming using multihomogeneous polynomial continuation. (English summary) **93h:90093**
Wu, Guang Mou (*with* Sheng, Zhao Han) The relation between effectiveness of data envelopment analysis and index speciality. (Chinese. English summary)
Wu, Xiaolin Image coding by adaptive tree-structured segmentation. (English summary)
Xue, Pei Lei (*with* Zhou, Yu Ying^2) Some recent achievements in optimization. (Chinese. English and Chinese summaries)
Yang, Chao Chih *see* **Li, Han Lin**, **93k:90056**
Zaslavskii, V. A. *see* **Volkovich, V. L.; et al.**, **93j:90004**
Zhang, Dazhi *see* **Shi, Yong**
Zhou, Yu Ying^2 *see* **Xue, Pei Lei**
Zou, X. *see* **Navon, I. M.; et al.**, (**93d:90005**)

Items listed otherwise than by author

Methods for solving problems of nonlinear and discrete programming ★ Методы решения задач нелинейного и дискретного программирования. (Russian) [Methods for solving problems of nonlinear and discrete programming] **93b:90010**

90C99 None of the above, but in this section

Lupşa, Liana Linear integer and linear rational inequalities. **93f:90185**

90Dxx Game theory

Items with secondary classifications in 90Dxx

Border, Kim C. ★ Fixed point theorems with applications to economics and game theory. **93b:90004**
Karlin, Samuel ★ Mathematical methods and theory in games, programming, and economics. **93a:90001**

90D05 2-person games

Baston, V. J. (*with* Bostock, F. A.) A basic searchlight game. **93g:90090**
Battalio, Raymond C. *see* **Van Huyck, John B.; et al.**, **93f:90186**
Bector, C. R. (*with* Husain, I.; Durga Prasad, Modekurti Venkata) Constrained continuous-time games and symmetric duality. **93c:90105**
Bostock, F. A. *see* **Baston, V. J.**, **93g:90090**
Byrne, C. C. (*with* Vaserstein, L. N.) An improved algorithm for finding saddlepoints of two-person zero-sum games. **93b:90113**
Cai, Jin-Yi (*with* Condon, Anne; Lipton, Richard J.) On games of incomplete information. **93h:90108**
Caravani, Paolo Regulation of linear quadratic games. (English summary) (*see* **93d:90003**)
Condon, Anne *see* **Cai, Jin-Yi; et al.**, **93h:90108**
Criado, F. On the theorem of the two alternatives. (Spanish. English summary) **93c:90106**
Durga Prasad, Modekurti Venkata *see* **Bector, C. R.; et al.**, **93c:90105**
Evans, Ronald J. (*with* Heuer, Gerald A.) Silverman's game on discrete sets. **93a:90082**
Fudenberg, Drew (*with* Levine, David K.) Maintaining a reputation when strategies are imperfectly observed. **93i:90115**
Gillette, Ann B. *see* **Van Huyck, John B.; et al.**, **93f:90186**
Hamilton, Jonathan H. (*with* Slutsky, Steven M.) Endogenizing the order of moves in matrix games. (English summary) **93m:90106**
Heuer, Gerald A. *see* **Evans, Ronald J.**, **93a:90082**
Husain, I. *see* **Bector, C. R.; et al.**, **93c:90105**
Jansen, M. J. M. *see* **Jurg, A. P.; et al.**, **93c:90107**
Jurg, A. P. (*with* Jansen, M. J. M.; Potters, Jos A. M.; Tijs, Stef H.) A symmetrization for finite two-person games. **93c:90107**
Levine, David K. *see* **Fudenberg, Drew**, **93i:90115**
Lipton, Richard J. *see* **Cai, Jin-Yi; et al.**, **93h:90108**
Magni, C. A. (*with* Ricci, Gianni) Reputation and credibility of a threat in a bargaining game. (Italian. English and Italian summaries) **93i:90116**
Nishizaki, I. (*with* Sakawa, Masatoshi) Two-person zero-sum games with multiple fuzzy goals. (English summary) **93j:90130**
Plambeck, Thane E. Daisies, Kayles, and the Sibert-Conway decomposition in misère octal games. **93c:90108**
Potters, Jos A. M. (*with* Tijs, Stef H.) The nucleolus of a matrix game and other nucleoli. **93g:90091**
— *see also* **Jurg, A. P.; et al.**, **93c:90107**

Rabin, Matthew Corrigendum: "Communication between rational agents" [J. Econom. Theory **51** (1990), no. 1, 144–170; MR 91g:90184]. **93j:90131**
Rauscher, Michael Keeping up with the Joneses: chaotic patterns in a status game. (English summary)
Ricci, Gianni *see* **Magni, C. A., 93i:90116**
Sakawa, Masatoshi *see* **Nishizaki, I., 93j:90130**
Slutsky, Steven M. *see* **Hamilton, Jonathan H., 93m:90106**
Tijs, Stef H. *see* **Jurg, A. P.; et al., 93c:90107** *and* **Potters, Jos A. M., 93g:90091**
Trybuła, Stanisław A noisy versus n-noisy duel with retreat after the shots. (Polish summary) **93h:90109a**
— An m-noisy versus noisy duel with retreat after the shots. (Polish summary) **93h:90109b**
— A mixed duel under arbitrary moving. (English summary) **93g:90092**
Van Huyck, John B. (*with* Gillette, Ann B.; Battalio, Raymond C.) Credible assignments in coordination games. (English summary) **93f:90186**
Vaserstein, L. N. *see* **Byrne, C. C., 93b:90113**
Weidner, F. The generalized Nash bargaining solution and incentive compatible mechanisms. (English summary) **93m:90107**

Items with secondary classifications in 90D05

Abou-Kandil, Hisham *see* **Jódar, Lucas; et al., 93a:93101**
Avenhaus, Rudolf (*with* Okada, Akira) Statistical criteria for sequential inspector-leadership games. (English summary) **93g:90095**
Bar-Yehuda, Reuven (*with* Etzion, Tuvi; Moran, Shlomo) Rotating-table games and derivatives of words. (English summary) **93m:68138**
Bassetti, A. (*with* Torricelli, C.) Optimal portfolio selection as a bargaining game. (*see* **93d:90003**)
Bergin, James Player type distributions as state variables and information revelation in zero sum repeated games with discounting. (English summary) **93f:90200**
Bodlaender, Hans L. (*with* Kratsch, Dieter) The complexity of coloring games on perfect graphs. (English summary) **93h:90126**
Börgers, Tilman (*with* Samuelson, Larry) "Cautious" utility maximization and iterated weak dominance. (English summary) **93e:90073**
Cressman, Ross Evolutionarily stable sets in symmetric extensive two-person games. **93c:90121**
Dempe, S. Optimality conditions for bilevel programming problems. **93h:90083**
Dziechcińska-Halamoda, Z. (*with* Michael, J.; Szwiec, W.) Games without repetitions on digraphs. **93m:05078**
Etzion, Tuvi *see* **Bar-Yehuda, Reuven; et al., 93m:68138**
Hansen, Pierre (*with* Jaumard, Brigitte; Savard, Gilles) New branch-and-bound rules for linear bilevel programming. (English summary) **93f:90151**
Haurie, Alain (*with* Loulou, Richard; Savard, Gilles) A two-player game model of power cogeneration in New England. (English summary)
Heuer, M. Asymptotically optimal strategies in repeated games with incomplete information. **93e:90076**
Hill, Raymond (*with* Karim, Jehangir P.) Searching with lies: the Ulam problem. (English summary) **93h:05004**
Ichiishi, T. (*with* Idzik, Adam) Closed covers of compact convex polyhedra. **93c:52011**
Idzik, Adam *see* **Ichiishi, T., 93c:52011**
Ionescu, Vlad (*with* Weiss, Martin) Two-Riccati formulae for the discrete-time H^∞-control problem. (English summary) **93k:93040**
Jaumard, Brigitte *see* **Hansen, Pierre; et al., 93f:90151**
Jódar, Lucas (*with* Navarro, Enrique; Abou-Kandil, Hisham) Explicit solutions of coupled Riccati equations occurring in Nash games—the open-loop case. (Russian and Polish summaries) **93a:93101**
Joó, István A general minimax theorem. **93g:49009**
Karim, Jehangir P. *see* **Hill, Raymond, 93h:05004**
Kats, Amoz (*with* Thisse, Jacques-François) Unilaterally competitive games. **93k:90109**
Kerber, Dirk On the determination of the worst sampling error in a communication system for pulse-amplitude-modulated signals. I. The general model. (English summary) **93h:94001**
Kleĭmenov, A. F. Solutions of a nonantagonistic two-person differential game in the presence of noise. (Russian. Russian summary) **93k:90118**
Komáromi, É. Probabilistic constraints in primal and dual linear programs: duality results. (English summary) **93i:90075**
Kratsch, Dieter *see* **Bodlaender, Hans L., 93h:90126**
Lehrer, Ehud Correlated equilibria in two-player repeated games with nonobservable actions. **93a:90093**
Li, Bai Bing (*with* Wu, Jian Zhong) A study on decentralized feedback Stackelberg strategies for LQG systems with one-step delay information sharing pattern. (Chinese. English summary) **93e:93058**
Loulou, Richard *see* **Haurie, Alain; et al.**
Maitra, Ashok (*with* Sudderth, William D.) An operator solution of stochastic games. (English summary) **93k:90114**
McClennen, Edward F. Rational choice in the context of ideal games. (*see* **93i:90006**)
Michael, J. *see* **Dziechcińska-Halamoda, Z.; et al., 93m:05078**
Moran, Shlomo *see* **Bar-Yehuda, Reuven; et al., 93m:68138**
Nakagami, Junichi Game-theoretic analysis for an optimal stopping problem by means of moments of a distribution function. **93e:60086**
Navarro, Enrique *see* **Jódar, Lucas; et al., 93a:93101**
Neme, Alejandro (*with* Quintas, Luis) Nash equilibrium strategies in repeated games with and without cost of implementation. (English summary) **93g:90098**
Neral, John (*with* Ochs, Jack) The sequential equilibrium theory of reputation building: a further test. (English summary)
Ochs, Jack *see* **Neral, John**
Okada, Akira *see* **Avenhaus, Rudolf, 93g:90095**
Passy, U. (*with* Prisman, E. Z.) A duality approach to minimax results for quasi-saddle functions in finite dimensions. **93d:49033**
Petersen, Ivar Equilibria in noncooperative competition of political parties having a common rate of morality. (English summary) **93m:92030**
Prisman, E. Z. *see* **Passy, U., 93d:49033**
Propp, James Gary (*with* Ullman, Daniel) On the cookie game. **93b:90131**
Pták, Vlastimil Thickness of families of sets and a minimax lemma. (English summary) **93j:46012**
Quintas, Luis *see* **Neme, Alejandro, 93g:90098**
Ravindran, G. (*with* Szajowski, Krzysztof) Nonzero sum game with priority as Dynkin's game. **93f:90197**
Ravindran, K. (*with* Shah, K. R.) One and two player best-choice problems with holding. **93b:90120**
Samuelson, Larry *see* **Börgers, Tilman, 93e:90073**
Savard, Gilles *see* **Hansen, Pierre; et al., 93f:90151** *and* **Haurie, Alain; et al.**
Sertel, Murat R. The Nash bargaining solution manipulated by pre-donations is Talmudic. (English summary) **93i:90037**
Shah, K. R. *see* **Ravindran, K., 93b:90120**
Sudderth, William D. *see* **Maitra, Ashok, 93k:90114**
Swinkels, Jeroen M. Evolutionary stability with equilibrium entrants. (English summary) **93k:90125**
Szajowski, Krzysztof On nonzero sum game with priority in the secretary problem. **93f:90198**
— *see also* **Ravindran, G., 93f:90197**
Szwiec, W. *see* **Dziechcińska-Halamoda, Z.; et al., 93m:05078**
Thisse, Jacques-François *see* **Kats, Amoz, 93k:90109**
Tian, Guo Qiang (*with* Zhou, Jian-Xin) The maximum theorem and the existence of Nash equilibrium of (generalized) games without lower semicontinuities. **93j:49010**
Torricelli, C. *see* **Bassetti, A., (93d:90003)**
Ullman, Daniel *see* **Propp, James Gary, 93b:90131**
Weiss, Martin *see* **Ionescu, Vlad, 93k:93040**
Wu, Jian Zhong *see* **Li, Bai Bing, 93e:93058**
Ye, Yinyu Extensions of the potential reduction algorithm for linear programming. **93b:90045**
Żakowski, Wojciech On some asymmetrical conflicts. **93g:90111**
Zhou, Jian-Xin *see* **Tian, Guo Qiang, 93j:49010**

90D06 n-person games, $n > 2$

Asheim, Geir B. A unique solution to n-person sequential bargaining. **93d:90072**
Başar, Tamer (*with* Srikant, R.) Iterative computation of Nash equilibria in M-player games with partial weak coupling. (*see* **93c:90003**)
Bonanno, Giacomo Players' information in extensive games. (English summary) **93h:90110**
Borm, P. E. M. On perfectness concepts for bimatrix games. (German summary) **93c:90109**
Carreras Escobar, Francesc Filtrations, values and voting discipline. **93b:90114**
Cegielski, Andrzej A subgradient projection method in matrix games. (English summary)
Chang, Ch'i (*with* Hsiaq, Fu Chao) An example on quasi-zero-monotonic games. (English summary) **93m:90108**
Chistyakov, Yu. E. *see* **Kononenko, A. F.; et al., (93d:90003)**
Criado, F. On one structure theorem. (Russian and Georgian summaries)
Fiestras-Janeiro, G. (*with* García-Jurado, I.) A new geometric approach to bimatrix games. (English summary) **93e:90071**
García-Jurado, I. *see* **Fiestras-Janeiro, G., 93e:90071**
Gichev, Todor Approximation of an n-person semi-infinite game. (Russian. Russian summary) **93m:90109**
Hsiaq, Fu Chao *see* **Chang, Ch'i, 93m:90108**
Kim, Won Kyu Existence of maximal element and equilibrium for a nonparacompact N-person game. **93a:90083**
Kononenko, A. F. (*with* Krutov, B. P.; Chistyakov, Yu. E.) Dynamic hierarchical N-person games theory with coalitions. (*see* **93d:90003**)
Krutov, B. P. *see* **Kononenko, A. F.; et al., (93d:90003)**
Li, Rong Sheng[2] The effect of changing the elements in the payoff matrix on the saddle-points in a matrix game. (Chinese. English and Chinese summaries)
Moldovanu, Benny Coalition-proof Nash equilibria and the core in three-player games. (English summary) **93f:90187**
Moulin, Hervé (*with* Shenker, Scott) Serial cost sharing. (English summary) **93e:90072**
Okada, Akira Noncooperative bargaining and the core of an n-person characteristic function game. (English summary) **93m:90110**
Peck, James (*with* Shell, Karl; Spear, Stephen E.) The market game: existence and structure of equilibrium. **93a:90084**
Shell, Karl *see* **Peck, James; et al., 93a:90084**
Shenker, Scott *see* **Moulin, Hervé, 93e:90072**
Spear, Stephen E. *see* **Peck, James; et al., 93a:90084**
Srikant, R. *see* **Başar, Tamer, (93c:90003)**
Tanaka, Kensuke An ε-equilibrium point in an n-person game with constraints. (English summary) **93m:90111**
Tobin, Roger L. Uniqueness results and algorithm for Stackelberg-Cournot-Nash equilibria. **93a:90085**

Items with secondary classifications in 90D06

Albin, Peter Approximations of cooperative equilibria in multi-person prisoners' dilemma played by cellular automata. (English summary) **93g:90093**
Basu, Kaushik A characterization of the class of rationalizable equilibria of oligopoly games. (English summary)
Borm, P. E. M. *see* **van den Nouweland, A.; et al., 93a:90089**
Chumakov, V. V. Multistage decision making problems with noncoincident player interests under conditions of subjective uncertainty. (Russian) **93b:90077**
Dzhafarov, A. N. A class of three-person noncooperative differential games. (Russian. Russian summary) **93g:90102**
Kajii, Atsushi A generalization of Scarf's theorem: an α-core extension theorem without transitivity or completeness. **93b:90115**
Kandori, Michihiro Repeated games played by overlapping generations of players. **93a:90092**
Kats, Amoz (*with* Thisse, Jacques-François) Unilaterally competitive games. **93k:90109**

Nishizaki, I. (*with* Sakawa, Masatoshi) A solution concept based on fuzzy decisions in *n*-person cooperative games. (English summary) **93j:90133**
van den Nouweland, A. (*with* Borm, P. E. M.; Tijs, Stef H.) Allocation rules for hypergraph communication situations. **93a:90089**
Potters, Jos A. M. (*with* Tijs, Stef H.) The nucleolus of a matrix game and other nucleoli. **93g:90091**
Ravindran, A. *see* **Saber, Hussein M., 93i:90086**
Saber, Hussein M. (*with* Ravindran, A.) Nonlinear goal programming theory and practice: a survey. (English summary) **93i:90086**
Sakawa, Masatoshi *see* **Nishizaki, I., 93j:90133**
Sasaki, Hiroo (*with* Toda, Manabu) Consistency and characterization of the core of two-sided matching problems. **93b:90127**
Shiryaev, V. D. *see* **Zenkevich, N. A., 93i:90001**
Thisse, Jacques-François *see* **Kats, Amoz, 93k:90109**
Tijs, Stef H. *see* **van den Nouweland, A.; et al., 93a:90089** *and* **Potters, Jos A. M., 93g:90091**
Toda, Manabu *see* **Sasaki, Hiroo, 93b:90127**
Zenkevich, N. A. (*with* Shiryaev, V. D.) ★ Игры со многими участниками. (Russian. Russian summary) [*n*-person games] **93i:90001**

90D10 Noncooperative games

Beltadze, G. N. Analysis of an infinite-dimensional lexicographic game. (Russian. English and Georgian summaries)
Benoit, Jean-Pierre (*with* Krishna, Vijay) Renegotiation in finitely repeated games. (English summary) **93m:90112**
Ben-Porath, Elchanan (*with* Dekel, Eddie) Signaling future actions and the potential for sacrifice. **93h:90111**
Bergin, James (*with* MacLeod, W. Bentley) Continuous time repeated games. (English summary) **93m:90113**
Börgers, Tilman (*with* Samuelson, Larry) "Cautious" utility maximization and iterated weak dominance. (English summary) **93e:90073**
Borm, P. E. M. (*with* Tijs, Stef H.) Strategic claim games corresponding to an NTU-game. **93a:90086**
Canning, David Rationality, computability, and Nash equilibrium. **93c:90110**
Dekel, Eddie *see* **Ben-Porath, Elchanan, 93h:90111**
Fudenberg, Drew (*with* Levine, David K.) Self-confirming equilibrium. (English summary) **93m:90114**
— (*with* Levine, David K.) Steady state learning and Nash equilibrium. (English summary) **93m:90115**
Kajii, Atsushi A generalization of Scarf's theorem: an α-core extension theorem without transitivity or completeness. **93b:90115**
Kalai, E. (*with* Neme, Alejandro) The strength of a little perfection. **93b:90116**
Kats, Amoz (*with* Thisse, Jacques-François) Unilaterally competitive games. **93k:90109**
Krajewski, Wiesław A note on the dynamic risk sensitive Nash games. (*see* **93d:90003**)
Krishna, Vijay *see* **Benoit, Jean-Pierre, 93m:90112**
Levine, David K. *see* **Fudenberg, Drew, 93m:90114** *and* **93m:90115**
MacLeod, W. Bentley *see* **Bergin, James, 93m:90113**
Maisuradze, V. G. *see* **Salukvadze, M. E.**
Neme, Alejandro *see* **Kalai, E., 93b:90116**
Permyakov, G. P. Non-zero-sum dynamic quality games with phase constraints. (Russian) (*see* **93b:34004**)
Rabinowicz, Włodzimierz Tortuous labyrinth: noncooperative normal-form games between hyperrational players. (*see* **93i:90006**)
Reiko, Aoki (*with* Reitman, David) Simultaneous signaling through investment in an R & D game with private information. **93b:90117**
Reitman, David *see* **Reiko, Aoki, 93b:90117**
Reny, Philip J. Backward induction, normal form perfection and explicable equilibria. **93c:90111**
Rustichini, Aldo Second best equilibria for games of joint exploitation of a productive asset. **93h:90112**
Salukvadze, M. E. (*with* Maisuradze, V. G.) *K*-saddle points in an antagonistic game. (Russian. English and Georgian summaries)
Samuelson, Larry (*with* Zhang, Jianbo) Evolutionary stability in asymmetric games. (English summary) **93f:90188**
— *see also* **Börgers, Tilman, 93e:90073**
Tarafdar, E. On the existence of Nash equilibrium point for a game between infinitely many players with noncompact strategy sets. **93f:90189**
Thisse, Jacques-François *see* **Kats, Amoz, 93k:90109**
Tijs, Stef H. *see* **Borm, P. E. M., 93a:90086**
Weibull, Jörgen W. On self-enforcement in extensive-form games. **93e:90074**
Zhang, Jianbo *see* **Samuelson, Larry, 93f:90188**

Items with secondary classifications in 90D10

Asheim, Geir B. A unique solution to *n*-person sequential bargaining. **93d:90072**
Binmore, Kenneth G. (*with* Samuelson, Larry) Evolutionary stability in repeated games played by finite automata. (English summary) **93g:90097**
Bonanno, Giacomo Set-theoretic equivalence of extensive-form games. **93d:90081**
— Players' information in extensive games. (English summary) **93h:90110**
Caravani, Paolo Regulation of linear quadratic games. (English summary) (*see* **93d:90003**)
Coughlin, Peter J. Pure strategy equilibria in a class of systems defense games. **93g:90108**
Gichev, Todor Approximation of an *n*-person semi-infinite game. (Russian. Russian summary) **93m:90109**
Kim, Won Kyu *see* **Rim, Dong Il, 93g:47074**
McLennan, Andrew (*with* Sonnenschein, Hugo) Sequential bargaining as a noncooperative foundation for Walrasian equilibrium. **93a:90012**
Mertens, Jean-François Stable equilibria—a reformulation. II. Discussion of the definition, and further results. **93b:90019**
Moldovanu, Benny Coalition-proof Nash equilibria and the core in three-player games. (English summary) **93f:90187**
Okada, Akira Noncooperative bargaining and the core of an *n*-person characteristic function game. (English summary) **93m:90110**
Potters, Jos A. M. (*with* Tijs, Stef H.) The nucleolus of a matrix game and other nucleoli. **93g:90091**
Rabin, Matthew Corrigendum: "Communication between rational agents" [J. Econom. Theory **51** (1990), no. 1, 144–170; MR 91g:90184]. **93j:90131**
Rim, Dong Il (*with* Kim, Won Kyu) A fixed point theorem and existence of equilibrium for abstract economies. **93g:47074**
Samuelson, Larry *see* **Binmore, Kenneth G., 93g:90097**
Shiryaev, V. D. *see* **Zenkevich, N. A., 93i:90001**
Smith, Lones Folk theorems in overlapping generations games. **93f:90202**
Sonnenschein, Hugo *see* **McLennan, Andrew, 93a:90012**
Tijs, Stef H. *see* **Potters, Jos A. M., 93g:90091**
Weber, Richard R. On the Gittins index for multiarmed bandits. (English summary) **93h:60069**
Weber, Shlomo On hierarchical spatial competition. **93e:90018**
Zenkevich, N. A. (*with* Shiryaev, V. D.) ★ Игры со многими участниками. (Russian. Russian summary) [*n*-person games] **93i:90001**

90D12 Cooperative games

Albin, Peter Approximations of cooperative equilibria in multi-person prisoners' dilemma played by cellular automata. (English summary) **93g:90093**
Barsegyan, V. R. (*with* Malafeev, O. A.) Game-theoretic problems in central Newtonian gravitational field. (Russian) (*see* **93b:34004**)
(Becker, Neal C.) *see* **Carroll, John W.**
Borm, P. E. M. *see* **van den Nouweland, A.; et al., 93a:90089**
Carroll, John W. The indefinitely iterated prisoner's dilemma. Reply to N. C. Becker and A. E. Cudd: "Indefinitely repeated games: a response to Carroll: 'Indefinite terminating points and the iterated prisoner's dilemma' " [Theory and Decision **28** (1990), no. 2, 189–195; MR 91h:90128]. (English summary)
Chang, Ch'i (*with* Kan, Ching Yü) A note on the nucleolus. (English summary) **93m:90116**
— (*with* Kan, Ching Yü) The kernel, the bargaining set and the reduced game. (English summary) **93f:90190**
— (*with* Kan, Ching Yü) The bound of the kernel. (English summary) **93k:90110**
— (*with* Lee, Yuh Jye) A non-weakly balanced game with nonempty bargaining set. (English summary) **93m:90117**
Chun, Youngsub (*with* Thomson, William L.) Bargaining problems with claims. (English summary) **93d:90073**
(Cudd, Ann E.) *see* **Carroll, John W.**
Dani, Ernest The classical cooperative game—a relational system. II. **93d:90074**
— The classical cooperative game—a relational system. III. **93f:90191**
Danilov, N. N. (*with* Tomskii, G. V.) Cooperative dynamic games with side payments. (Russian) **93d:90075**
Danzig, Peter B. A cooperative game with applications to computer networks. **93d:90076**
DeMarzo, Peter M. Coalitions, leadership, and social norms: the power of suggestion in games. **93b:90118**
Derks, J. J. M. A short proof of the inclusion of the core in the Weber set. (English summary) **93i:90117**
Drăgan, Irinel An average per capita formula for the Shapley value. (English summary) **93j:90132**
Dutta, Bhaskar (*with* Ray, Debraj) Constrained egalitarian allocations. **93a:90087**
Faigle, Ulrich (*with* Kern, Walter) The Shapley value for cooperative games under precedence constraints. (English summary) **93m:90118**
Flåm, Sjur D. Approaching core solutions by means of continuous bargaining. (English summary) **93e:90075**
Granot, Daniel (*with* Granot, Frieda) On some network flow games. (English summary) **93k:90111**
Granot, Frieda *see* **Granot, Daniel, 93k:90111**
Greenberg, Joseph On the sensitivity of von Neumann and Morgenstern abstract stable sets: the stable and the individual stable bargaining set. (English summary) **93f:90192**
Gurvich, V. A. Informational extensions of game forms. (Russian) **93a:90088**
Harrington, Joseph E., Jr. Uncertainty over product differentiation in a price-setting duopoly: a nonrobustness result. (English summary) **93i:90118**
Hsiao, Chih Ru (*with* Raghavan, T. E. S.) Monotonicity and dummy free property for multi-choice cooperative games. (English summary) **93k:90112**
Kan, Ching Yü *see* **Chang, Ch'i, 93f:90190**; **93k:90110** *and* **93m:90116**
Kern, Walter *see* **Faigle, Ulrich, 93m:90118**
Kindler, Jürgen Ideals of null sets of set functions. **93b:90119**
Kramarz, Francis (*with* Ponssard, Jean-Pierre) Standards of behavior and time generate tacit cooperation in a hierarchical relationship. (English and French summaries) **93f:90193**
Le Breton, Michel (*with* Owen, Guillermo; Weber, Shlomo) Strongly balanced cooperative games. **93d:90077**
Lee, Yuh Jye *see* **Chang, Ch'i, 93m:90117**
Lessard, E. *see* **Loulou, Richard; et al., (93c:90003)**
Loulou, Richard (*with* Savard, Gilles; Lessard, E.) Computation of cooperative and Stackelberg solutions when players are described by linear programs. (*see* **93c:90003**)
Malafeev, O. A. *see* **Barsegyan, V. R., (93b:34004)**
Maschler, M. (*with* Potters, Jos A. M.; Tijs, Stef H.) The general nucleolus and the reduced game property. (English summary) **93h:90113**
Matthews, Steven A. (*with* Okuno-Fujiwara, Masahiro; Postlewaite, Andrew) Refining cheap-talk equilibria. **93c:90112**
Monderer, Dov (*with* Samet, D.; Shapley, L. S.) Weighted values and the core. **93h:90114**
Moulin, Hervé An application of the Shapley value to fair division with money. (English summary) **93m:90119**
Nishizaki, I. (*with* Sakawa, Masatoshi) A solution concept based on fuzzy decisions in *n*-person cooperative games. (English summary) **93j:90133**
van den Nouweland, A. (*with* Borm, P. E. M.; Tijs, Stef H.) Allocation rules for hypergraph communication situations. **93a:90089**

Okuno-Fujiwara, Masahiro *see* **Matthews, Steven A.; et al., 93c:90112**
Orshan, G. The consistent Shapley value in hyperplane games from a global standpoint. (English summary) **93i:90119**
Owen, Guillermo The assignment game: the reduced game. (English and French summaries) **93f:90194**
— (*with* Winter, Eyal) The multilinear extension and the coalition structure value. (English summary) **93j:90134**
— *see also* **Le Breton, Michel; et al., 93d:90077**
Ponssard, Jean-Pierre *see* **Kramarz, Francis, 93f:90193**
Postlewaite, Andrew *see* **Matthews, Steven A.; et al., 93c:90112**
Potters, Jos A. M. *see* **Maschler, M.; et al., 93h:90113**
Raghavan, T. E. S. *see* **Hsiao, Chih Ru, 93k:90112**
Rath, Kali P. A direct proof of the existence of pure strategy equilibria in games with a continuum of players. **93f:90195**
Ray, Debraj *see* **Dutta, Bhaskar, 93a:90087**
Rosenthal, Edward C. Coalition formation under limited communication. **93i:90120**
Rotar', V. I. (*with* Smirnov, Eugene N.) The maximum incentive solutions in bargaining problems. (English summary) **93g:90094**
Sakawa, Masatoshi *see* **Nishizaki, I., 93j:90133**
Salonen, Hannu An axiomatic analysis of the Nash equilibrium concept. (English summary) **93f:90196**
Samet, D. *see* **Monderer, Dov; et al., 93h:90114**
Savard, Gilles *see* **Loulou, Richard; et al., (93c:90003)**
Shapley, L. S. *see* **Monderer, Dov; et al., 93h:90114**
Smirnov, Eugene N. *see* **Rotar', V. I., 93g:90094**
Sobel, Jordan Howard Hyperrational games: concept and resolutions. **93k:90113**
Stefański, Jacek Bargaining in changing environments. (English summary) **93m:90120**
Tadenuma, Koichi Reduced games, consistency, and the core. **93c:90113**
Thomson, William L. *see* **Chun, Youngsub, 93d:90073**
Tijs, Stef H. *see* **van den Nouweland, A.; et al., 93a:90089** *and* **Maschler, M.; et al., 93h:90113**
Tomskii, G. V. *see* **Danilov, N. N., 93d:90075**
Weber, Shlomo *see* **Le Breton, Michel; et al., 93d:90077**
Winter, Eyal *see* **Owen, Guillermo, 93j:90134**

Items with secondary classifications in 90D12

Abdou, J. (*with* Keiding, H.) ★ Effectivity functions in social choice. **93m:90001**
Ausubel, Lawrence M. (*with* Deneckere, Raymond J.) Bargaining and the right to remain silent. **93c:90030**
Battalio, Raymond C. *see* **Van Huyck, John B.; et al., 93f:90186**
Borm, P. E. M. (*with* Tijs, Stef H.) Strategic claim games corresponding to an NTU-game. **93a:90086**
Brams, Steven J. (*with* Fishburn, Peter C.) Coalition voting. (English summary) **93f:90043**
Cai, Jin-Yi (*with* Condon, Anne; Lipton, Richard J.) On games of incomplete information. **93h:90108**
Carreras Escobar, Francesc Filtrations, values and voting discipline. **93b:90114**
Chikrii, A. A. (*with* Rappoport, İ. S.) Group pursuit for controlled objects with different time lags. (Russian) **93h:90127**
Condon, Anne *see* **Cai, Jin-Yi; et al., 93h:90108**
Deneckere, Raymond J. *see* **Ausubel, Lawrence M., 93c:90030**
Fishburn, Peter C. *see* **Brams, Steven J., 93f:90043**
Gillette, Ann B. *see* **Van Huyck, John B.; et al., 93f:90186**
Gurvich, V. A. Influence functions and information extensions of game forms and game relations. (Russian) **93j:90146**
Kandori, Michihiro Repeated games played by overlapping generations of players. **93a:90092**
— The use of information in repeated games with imperfect monitoring. **93f:90201**
Kasugai, Hiroshi *see* **Kubo, Mikio, 93h:90125**
Keiding, H. *see* **Abdou, J., 93m:90001**
Kubo, Mikio (*with* Kasugai, Hiroshi) On the core of the network design game. (English summary) **93h:90125**
Lipton, Richard J. *see* **Cai, Jin-Yi; et al., 93h:90108**
Magni, C. A. (*with* Ricci, Gianni) Reputation and credibility of a threat in a bargaining game. (Italian. English and Italian summaries) **93i:90116**
Maisuradze, V. G. A cooperative variant of the observation problem. (Russian. English and Georgian summaries)
Moulin, Hervé Welfare bounds in the cooperative production problem. **93c:90028**
Petrosyan, L. A. The time consistency of the optimality principles in nonzero sum differential games. (English summary) **93j:90138**
Potters, Jos A. M. (*with* Tijs, Stef H.) The nucleolus of a matrix game and other nucleoli. **93g:90091**
Radjef, M. S. A cooperative game governed by a differential inclusion. **93g:90103**
Rappoport, İ. S. *see* **Chikrii, A. A., 93h:90127**
Ricci, Gianni *see* **Magni, C. A., 93i:90116**
Shiryaev, V. D. *see* **Zenkevich, N. A., 93i:90001**
Tijs, Stef H. *see* **Borm, P. E. M., 93a:90086** *and* **Potters, Jos A. M., 93g:90091**
Van Huyck, John B. (*with* Gillette, Ann B.; Battalio, Raymond C.) Credible assignments in coordination games. (English summary) **93f:90186**
Young, H. Peyton An evolutionary model of bargaining. (English summary) **93m:90025**
Zenkevich, N. A. (*with* Shiryaev, V. D.) ★ Игры со многими участниками. (Russian. Russian summary) [*n*-person games] **93i:90001**

90D13 Games with infinitely many players

Bergin, James (*with* Bernhardt, Dan) Anonymous sequential games with aggregate uncertainty. (English summary) **93j:90135**
Bernhardt, Dan *see* **Bergin, James, 93j:90135**

Items with secondary classifications in 90D13

Bergin, James (*with* MacLeod, W. Bentley) Continuous time repeated games. (English summary) **93m:90113**
MacLeod, W. Bentley *see* **Bergin, James, 93m:90113**
Narens, Louis Cores of dense exchange economies. (English summary) **93h:90019**

90D15 Stochastic games [see also 93E05]

Avenhaus, Rudolf (*with* Okada, Akira) Statistical criteria for sequential inspector-leadership games. (English summary) **93g:90095**
Bernhard, Pierre Information and strategies in dynamic games. **93a:90090**
Chakrabarti, Subir K. Equilibrium in behavior strategies in infinite extensive form games with imperfect information. (English summary) **93g:90096**
Enns, E. G. *see* **Ravindran, K., 93h:90116**
Humble, S. *see* **Wand, K.; et al., 93k:90115**
Ibaraki, Toshihide *see* **Katoh, Naoki; et al., 93c:90114**
Katoh, Naoki (*with* Koyanagi, Junji; Ohnishi, Masamitsu; Ibaraki, Toshihide) Optimal strategies for some team games. **93c:90114**
Khan, M. Ali (*with* Rustichini, Aldo) Cournot-Nash equilibrium distributions of games with uncertainty and imperfect information. (English summary) **93j:90136**
Koyanagi, Junji *see* **Katoh, Naoki; et al., 93c:90114**
Lal, Arbind K. (*with* Sinha, Sagnik) Zero-sum two-person semi-Markov games. **93c:90115**
Maitra, Ashok (*with* Sudderth, William D.) An operator solution of stochastic games. (English summary) **93k:90114**
Nowak, Andrzej S. (*with* Raghavan, T. E. S.) Existence of stationary correlated equilibria with symmetric information for discounted stochastic games. (English summary) **93h:90115**
Ohnishi, Masamitsu *see* **Katoh, Naoki; et al., 93c:90114**
Okada, Akira *see* **Avenhaus, Rudolf, 93g:90095**
Presman, È. L. Properties of optimal strategies in the Poisson version of the two-armed bandit problem with two hypotheses. **93a:90091**
Raghavan, T. E. S. *see* **Nowak, Andrzej S., 93h:90115**
Ravindran, G. (*with* Szajowski, Krzysztof) Nonzero sum game with priority as Dynkin's game. **93f:90197**
Ravindran, K. (*with* Shah, K. R.) One and two player best-choice problems with holding. **93b:90120**
— (*with* Enns, E. G.) A two Poisson stream competitive decision problem. (English summary) **93h:90116**
Rustichini, Aldo *see* **Khan, M. Ali, 93j:90136**
Sakaguchi, Minoru Sequential deception games. (English summary) **93i:90121**
Shah, K. R. *see* **Ravindran, K., 93b:90120**
Sinha, Sagnik *see* **Lal, Arbind K., 93c:90115**
Sudderth, William D. *see* **Maitra, Ashok, 93k:90114**
Szajowski, Krzysztof On nonzero sum game with priority in the secretary problem. **93f:90198**
— *see also* **Ravindran, G., 93f:90197**
Thuijsman, F. ★ Optimality and equilibria in stochastic games. **93h:90117**
Wand, K. (*with* Humble, S.; Wilson, R. J. T.) Explicit modeling of detection within a stochastic duel. (English summary) **93k:90115**
Wilson, R. J. T. *see* **Wand, K.; et al., 93k:90115**
Yasuda, Masami On a separation of a stopping game problem for standard Brownian motion. **93f:90199**

Items with secondary classifications in 90D15

Alcalá, A. *see* **Ardanuy Albájar, Ramón**
Ardanuy Albájar, Ramón (*with* Alcalá, A.) Minimax principle for stochastic differential games.
Bergin, James (*with* Bernhardt, Dan) Anonymous sequential games with aggregate uncertainty. (English summary) **93j:90135**
— (*with* MacLeod, W. Bentley) Continuous time repeated games. (English summary) **93m:90113**
Bernhardt, Dan *see* **Bergin, James, 93j:90135**
Bezyaev, V. I. Linear optimal stochastic games. (Russian) (*see* **93g:00022**)
Borkar, Vivek S. (*with* Ghosh, Mrinal K.) Stochastic differential games: occupation measure based approach. **93g:93082**
Boylan, Richard T. Laws of large numbers for dynamical systems with randomly matched individuals. (English summary) **93g:92015**
Dutta, Prajit K. (*with* Sundaram, Rangarajan K.) Markovian equilibrium in a class of stochastic games: existence theorems for discounted and undiscounted models. **93h:90020**
Filar, Jerzy A. (*with* Vrieze, O. J.) Weighted reward criteria in competitive Markov decision processes. (English summary) **93h:90101**
— *see also* **Sznajder, R., 93i:90110**
Ghosh, Mrinal K. *see* **Borkar, Vivek S., 93g:93082**
James, Matthew R. Asymptotic analysis of nonlinear stochastic risk-sensitive control and differential games. (English summary) **93e:93067**
MacLeod, W. Bentley *see* **Bergin, James, 93m:90113**
Samaranayake, K. Stay-with-a-winner rule for dependent Bernoulli bandits. (English summary) **93j:62201**
Sundaram, Rangarajan K. *see* **Dutta, Prajit K., 93h:90020**
Sznajder, R. (*with* Filar, Jerzy A.) Some comments on a theorem of Hardy and Littlewood. (English summary) **93i:90110**
Vrieze, O. J. *see* **Filar, Jerzy A., 93h:90101**

90D20 Multistage and repeated games

Ben-Porath, Elchanan Repeated games with finite automata. (English summary) **93k:90116**
Bergin, James A model of strategic behaviour in repeated games. **93b:90121**
— Player type distributions as state variables and information revelation in zero sum repeated games with discounting. (English summary) **93f:90200**
Binmore, Kenneth G. (*with* Samuelson, Larry) Evolutionary stability in repeated games played by finite automata. (English summary) **93g:90097**

Heuer, M. Asymptotically optimal strategies in repeated games with incomplete information. **93e:90076**
Kandori, Michihiro Repeated games played by overlapping generations of players. **93a:90092**
— The use of information in repeated games with imperfect monitoring. **93f:90201**
Lehrer, Ehud Correlated equilibria in two-player repeated games with nonobservable actions. **93a:90093**
Neme, Alejandro (*with* Quintas, Luis) Equilibrium of repeated games with cost of implementation. (English summary) **93i:90122**
— (*with* Quintas, Luis) Nash equilibrium strategies in repeated games with and without cost of implementation. (English summary) **93g:90098**
Piccione, Michele Finite automata equilibria with discounting. **93a:90094**
Quintas, Luis *see* **Neme, Alejandro, 93g:90098** *and* **93i:90122**
Samuelson, Larry *see* **Binmore, Kenneth G., 93g:90097**
Smith, Lones Folk theorems in overlapping generations games. **93f:90202**

Items with secondary classifications in 90D20

Benoit, Jean-Pierre (*with* Krishna, Vijay) Renegotiation in finitely repeated games. (English summary) **93m:90112**
Bergin, James (*with* MacLeod, W. Bentley) Continuous time repeated games. (English summary) **93m:90113**
Bernhard, Pierre Information and strategies in dynamic games. **93a:90090**
DeMarzo, Peter M. Coalitions, leadership, and social norms: the power of suggestion in games. **93b:90118**
Kalai, E. (*with* Neme, Alejandro) The strength of a little perfection. **93b:90116**
Krishna, Vijay *see* **Benoit, Jean-Pierre, 93m:90112**
MacLeod, W. Bentley *see* **Bergin, James, 93m:90113**
Neme, Alejandro *see* **Kalai, E., 93b:90116**

90D25 Differential games [see also 49N55]

Baĭdosov, V. A. (*with* Ushakov, V. N.) On the approach problem in a differential game with a particular form of a fuzzy objective set. (Russian. Russian summary) **93g:90099**
— Semigroup properties of multivalued and conjugate mappings in differential games. (Russian. Russian summary) **93g:90100**
Baranov, V. L. Modeling differential games on computational structures. (Russian. Russian summary) **93m:90121**
Bardi, Martino (*with* Sartori, Caterina) Differential games and totally risk-averse optimal control of systems with small disturbances. (English summary) (*see* **93c:90003**)
Başar, Tamer Game theory and H^∞-optimal control: the continuous-time case. (English summary) (*see* **93c:90003**)
Botkin, N. D. (*with* Zarkh, M. A.; Patsko, V. S.) Numerical solution of linear differential games. (*see* **93c:90003**)
— Asymptotic behavior of solutions of differential games. Viability domains of differential inclusions. (Russian) **93m:90122**
Bozhulich, S. S. On the boundedness of the time of first absorption. (Russian. Russian summary) (*see* **93b:90010**)
Chikrii, A. A. (*with* Chikrii, G. Ts.) Conflict-controllability of quasilinear processes. (Russian summary) **93g:90101**
— *see also* **Gritsevskiĭ, A. È.; et al., 93c:90116**
Chikrii, G. Ts. *see* **Chikrii, A. A., 93g:90101**
Chistyakov, S. V. Programmed iterations and universal ε-optimal strategies in a positional differential game. (Russian) **93b:90122**
Dockner, Engelbert J. (*with* Jørgensen, Steffen) New product advertising in dynamic oligopolies. (English summary)
Dzhafarov, A. N. A class of three-person noncooperative differential games. (Russian. Russian summary) **93g:90102**
Ehtamo, Harri (*with* Hämäläinen, Raimo P.) A cooperative incentive equilibrium for a resource management problem. (English summary) **93m:90123**
Grigorenko, N. L. The problem of pursuit by several objects. (English summary) (*see* **93c:90003**)
— Game-theoretic problems of control with variable structure. (Russian)
Gritsevskiĭ, A. È. (*with* Klimenko, E. V.; Chikrii, A. A.) Stochastic models for conflict-control systems with discrete time. (Russian. Russian summary) **93c:90116**
Guelman, M. Control strategies in a planar pursuit evasion game with energy contraints. (English summary) (*see* **93c:90003**)
Guseinov, Kh. G. On the determination of the cost function of a differential game by means of inequalities. (Russian. Russian summary) **93k:90117**
Hämäläinen, Raimo P. *see* **Ehtamo, Harri, 93m:90123**
Huang, Yong Nian[1] *see* **Wang, De Quan**
Ichikawa, Akira Quadratic differential games with overtaking optimality. (*see* **93c:90003**)
Jódar, Lucas (*with* Navarro, Enrique; Morera, J. L.) Closed form solution for coupled Riccati equation occurring in open loop Nash discrete time linear-quadratic games. (English, Russian and Polish summaries) **93h:90118**
Jørgensen, Steffen *see* **Dockner, Engelbert J.**
Khripunov, A. P. On the solution of game-theoretic problems in the plane by means of a computer. (Russian. Russian summary) (*see* **93f:93004**)
Kleimenov, A. F. A nonantagonistic differential game with a nominal solution and payoffs. (Russian. Russian summary) **93h:90119**
— Solutions of a nonantagonistic two-person differential game in the presence of noise. (Russian. Russian summary) **93k:90118**
Klimenko, E. V. *see* **Gritsevskiĭ, A. È.; et al., 93c:90116**
Klompstra, Margriet B. A nonzero-sum game with variable final time. (English summary) **93e:90077**
Knysh, B. A. A packet criterion for optimality in a problem of the control of a discrete system by two opponents. (Russian. Russian summary) **93m:90124**
— Synthesis of an optimal controller under conditions of active noise. (Russian. English and Russian summaries) **93j:90137**
Krasovskiĭ, A. N. A differential game for a positional functional depending on phase coordinates and control actions. (Russian) **93d:90078**
— Mixed-strategy control for the minimax of an integral functional. (Russian. Russian summary) **93h:90120**
Linder, N. V. An elementary differential search game under mixed strategies. (Russian) **93i:90123**
Liu, Xiao Ping[2] (*with* Zhang, Si Ying) Three-level Stackelberg strategies in linear-quadratic descriptor system. (English, Russian and Polish summaries)
— (*with* Zhang, Si Ying) Stackelberg strategies for singular dynamic games. (Russian and Lithuanian summaries) **93a:90095**
Malafeev, O. A. Dynamical conflict-control systems. (Russian) (*see* **93m:00035**)
Melikyan, A. A. The method of characteristics for constructing singular paths and manifolds in optimal control and differential games. (*see* **93c:90003**)
Mgavish, A. *see* **Valeev, K. G., (93d:00034)**
Mignanego, Fausto (*with* Pieri, Graziano) Equilibrium points in constrained minimization and games. (English summary) (*see* **93d:90003**)
Morera, J. L. *see* **Jódar, Lucas; et al., 93h:90118**
Navarro, Enrique *see* **Jódar, Lucas; et al., 93h:90118**
Nikol'skiĭ, M. S. The direct Pontrjagin methods in the theory of differential games. (*see* **93c:90003**)
— A linear problem of tracking. (Russian) **93h:90121**
Nowak, Andrzej S. Correlated relaxed equilibria in non-zero-sum linear differential games. **93h:90122**
— Correlated equilibria in nonzero-sum differential games. (English summary) **93m:90125**
Okhten', O. I. (*with* Pittsyk, M. V.) A method for calculating moving aiming points for control in a game with a simple matrix. (Russian. Russian summary) **93i:90124**
Ostapenko, V. V. (*with* Shelepalo, O. A.) Application of operator constructions in a differential-difference game. (Russian. English and Ukrainian summaries) **93m:90126**
Panferov, V. N. (*with* Tsurkan, Yu. V.) On the resolution of conflict situations in differential-game-theoretic models of market relations in economics. (Russian. Russian summary)
Pashkov, A. G. (*with* Terekhov, S. D.) A differential game of two objects approaching one object. (Russian) (*see* **93g:00022**)
Patsko, V. S. *see* **Botkin, N. D.; et al., (93c:90003)**
Pavlov, V. V. (*with* Pavlova, V. V.) Estimating the alternatives for resolving a dueling evasion and interception game which occurs in an environment of a group of transport means. (Russian. English, Russian and Ukrainian summaries)
Pavlova, V. V. *see* **Pavlov, V. V.**
Petrosyan, L. A. The time consistency of the optimality principles in nonzero sum differential games. (English summary) **93j:90138**
Pieri, Graziano *see* **Mignanego, Fausto, (93d:90003)**
Pittsyk, M. V. *see* **Okhten', O. I., 93i:90124**
Quincampoix, Marc Playable differential games. **93a:90096**
Radjef, M. S. A cooperative game governed by a differential inclusion. **93g:90103**
Sartori, Caterina *see* **Bardi, Martino, (93c:90003)**
Serkov, D. A. Strongly optimal strategies. (Russian) **93h:90123**
Shelepalo, O. A. *see* **Ostapenko, V. V., 93m:90126**
Skowronski, J. M. Winning controllers and regions in competitive nonlinear dynamic games with two qualitative objectives and uncertain information. (English summary) **93f:90203**
Soravia, Pierpaolo The concept of value in differential games of survival and viscosity solutions of Hamilton-Jacobi equations. **93j:90139**
Taras'ev, A. M. (*with* Uspenskiĭ, A. A.; Ushakov, V. N.) An algorithm for constructing resolution positional control procedures in a three-dimensional linear differential game of approach with a convex goal. (Russian. Russian summary) **93k:90119**
Terekhov, S. D. *see* **Pashkov, A. G., (93g:00022)**
Tołwiński, Bolesław Solving dynamic games via Markov game approximations. (*see* **93c:90003**)
Tsurkan, Yu. V. *see* **Panferov, V. N.**
Ukhobotov, V. I. A differential game with simple motion. (Russian) **93f:90204**
Ushakov, V. N. *see* **Baĭdosov, V. A., 93g:90099** *and* **Taras'ev, A. M.; et al., 93k:90119**
Uspenskiĭ, A. A. *see* **Taras'ev, A. M.; et al., 93k:90119**
Valeev, K. G. (*with* Mgavish, A.) Synthesis of optimal control for a system of linear differential equations with random coefficients. (Russian) (*see* **93d:00034**)
Wang, De Quan (*with* Huang, Yong Nian[1]) A growth model for ocean species with delayed nutrient recycling and its asymptotic behavior. (Chinese. English and Chinese summaries)
Wu, Han Sheng A class of differential game problems for descriptor systems. (English summary) **93f:90205**
Yong, Jiong Min Existence of the value for a differential game with switching strategies in a Banach space. **93f:90206**
Zarkh, M. A. A program package for the solution of three-dimensional differential games. (Russian) (*see* **93g:00022**)
— *see also* **Botkin, N. D.; et al., (93c:90003)**
Zhang, Si Ying *see* **Liu, Xiao Ping[2], 93a:90095**
Zhitomirskiĭ, G. Iosifovich The structure of solutions of an antagonistic differential game in the space l_p. (Russian. Russian summary) (*see* **93m:00032**)
Zhukovskiĭ, V. I. A paradox in differential games. (*see* **93f:34004**)

Items with secondary classifications in 90D25

Alonso, Laurent (*with* Goldstein, Arthur S.; Reingold, Edward M.) "Lion and man": upper and lower bounds. (English summary)
Anderson, Brian D. O. *see* **Limebeer, David J. N.; et al., 93c:93022**
Ardema, M. D. (*with* Skowronski, J. M.) Dynamic game applied to coordination control of two arm robotic system. (English summary) **93f:93088**
Ball, Joseph A. (*with* Helton, J. William) Nonlinear H^∞ control theory for stable plants. **93c:93021**
Barsegyan, V. R. (*with* Malafeev, O. A.) Game-theoretic problems in central Newtonian gravitational field. (Russian) (*see* **93h:34004**)
Başar, Tamer (*with* Bernhard, Pierre) ★ H^∞-optimal control and related minimax design problems. **93c:93001**
Berdyshev, Yu. I. Construction of time-optimal control of a nonlinear system in the problem of going around a group of points. (Russian) **93h:49056**

Bernhard, Pierre *see* **Başar, Tamer, 93c:93001**
Bocharov, V. Yu. (*with* Melikyan, A. A.) Guaranteed speed problem with target point search in a polygonal uncertainty domain. (Russian) **93b:49006**
Borkar, Vivek S. (*with* Ghosh, Mrinal K.) Stochastic differential games: occupation measure based approach. **93g:93082**
Botkin, N. D. A differential pursuit game with mixed constraints on the controls. (Russian. Russian summary) **93j:90140**
(Brykalov, S. A.) *see* **Control problems with guaranteed result, 93h:93008**
Chen, Shu Ping (*with* Li, Xun Jing; Peng, Shi Ge; Yong, Jiong Min) H^∞ type optimal control problems, algebraic Riccati equations and differential games. **93e:93023**
Chikrii, A. A. (*with* Pilipenko, Yu. V.) Conflict-controlled processes with periodic Pontryagin condition. (Russian. English, Russian and Ukrainian summaries) **93i:90125**
— (*with* Rappoport, Î. S.) The first Pontryagin method in a group pursuit problem for objects with different time lag. (Russian. English and Russian summaries) **93j:90141**
Chintagunta, Pradeep (*with* Jain, Dipak) A study of manufacturer-retailer marketing strategies: a differential game approach. (English summary) (*see* **93d:90003**)
Danilov, N. N. (*with* Tomskii, G. V.) Cooperative dynamic games with side payments. (Russian) **93d:90075**
Ehtamo, Harri (*with* Ruusunen, Jukka; Hämäläinen, Raimo P.) On intertemporal cooperation—a dynamic stochastic problem with nonadditive group utility function. (*see* **93d:90003**)
— *see also* **Differential games—developments in modelling and computation, 93c:90003** *and* **Dynamic games in economic analysis, 93d:90003**
Fujita, Masayuki *see* **Uchida, Kenko, 93j:93047**
Ghosh, Mrinal K. *see* **Borkar, Vivek S., 93g:93082**
Goldstein, Arthur S. *see* **Alonso, Laurent; et al.**
Gorelik, V. A. (*with* Gorelov, M. A.; Kononenko, A. F.) ★ Анализ конфликтных ситуаций в системах управления. (Russian) [Analysis of conflict situations in control systems] **93c:93002**
Gorelov, M. A. *see* **Gorelik, V. A.; et al., 93c:93002**
Gradus, Raymond H. J. M. (*with* de Zeeuw, Aart J.) An employment game between government and firms. (English summary)
Green, Michael *see* **Limebeer, David J. N.; et al., 93c:93022**
Hämäläinen, Raimo P. *see* **Ehtamo, Harri; et al., (93d:90003); Differential games—developments in modelling and computation, 93c:90003** *and* **Dynamic games in economic analysis, 93d:90003**
Helton, J. William *see* **Ball, Joseph A., 93c:93021**
Houba, Harold (*with* de Zeeuw, Aart J.) Strategic bargaining and difference games. (English summary) (*see* **93d:90003**)
Ichikawa, Akira Differential games and H_∞-problems in Hilbert space. (English summary) (*see* **93g:93005**)
Jain, Dipak *see* **Chintagunta, Pradeep, (93d:90003)**
Khargonekar, Pramod P. *see* **Limebeer, David J. N.; et al., 93c:93022**
Kojima, Akira (*with* Uchida, Kenko; Shimemura, Etsujiro) Robust stabilization of time delay systems based on Riccati type operator equation arising in differential games. (English summary) **93j:93133**
Kolosov, G. E. (*with* Sharov, M. M.) Optimal damping of fluctuations in population size in an isolated ecological system of "predator-prey" type. (Russian. Russian summary)
Kononenko, A. F. *see* **Gorelik, V. A.; et al., 93c:93002**
Krajewski, Wiesław A note on the dynamic risk sensitive Nash games. (*see* **93d:90003**)
Kryazhimskiĭ, A. V. The problem of optimization of the ensured result: unimprovability of full-memory strategies. **93a:93076**
Li, Bai Bing (*with* Wu, Jian Zhong) A study on decentralized feedback Stackelberg strategies for LQG systems with one-step delay information sharing pattern. (Chinese. English summary) **93e:93058**
Li, Xun Jing *see* **Chen, Shu Ping; et al., 93e:93023**
Limebeer, David J. N. (*with* Anderson, Brian D. O.; Khargonekar, Pramod P.; Green, Michael) A game-theoretic approach to $\mathscr{H}^\infty$ control for time-varying systems. **93c:93022**
Long, Ngo Van Pollution control: a differential game approach. (English summary) **93j:90028**
Maĭsuradze, V. G. A cooperative variant of the observation problem. (Russian. English and Georgian summaries)
Malafeev, O. A. *see* **Barsegyan, V. R., (93b:34004)**
(Malyshev, V. V.) *see* **Analysis and design of dynamical systems under conditions of uncertainty, 93g:00022**
McMillan, Christine Alicia (*with* Triggiani, Roberto) Min-max game theory for a class of boundary control problems. (*see* **93i:93005**)
Melikyan, A. A. *see* **Bocharov, V. Yu., 93b:49006**
Mizukami, Koichi (*with* Xu, Hua) Closed-loop Stackelberg strategies for linear-quadratic descriptor systems.
Peng, Shi Ge *see* **Chen, Shu Ping; et al., 93e:93023**
Permyakov, G. P. Non-zero-sum dynamic quality games with phase constraints. (Russian) (*see* **93b:34004**)
Pilipenko, Yu. V. *see* **Chikrii, A. A., 93i:90125**
Plum, Michael Characterization and computation of Nash-equilibria for auctions with incomplete information. **93b:90126**
Rappoport, Î. S. *see* **Chikrii, A. A., 93j:90141**
Reingold, Edward M. *see* **Alonso, Laurent; et al.**
Rhee, Ihnseok (*with* Speyer, Jason L.) Application of a game-theoretic controller to a benchmark problem. (English summary)
Ruusunen, Jukka *see* **Ehtamo, Harri; et al., (93d:90003)**
Schäfer, Martin Pollution vs. nature—differential game models. (*see* **93d:90003**)
— Resource extraction and production of a substitute. (English summary) **93d:90019**
Sharov, M. M. *see* **Kolosov, G. E.**
Shimemura, Etsujiro *see* **Kojima, Akira; et al., 93j:93133**
Shishkin, G. I. *see* **Tret'yakov, V. E.; et al., 93j:49033**
Skowronski, J. M. *see* **Ardema, M. D., 93f:93088**
Speyer, Jason L. *see* **Rhee, Ihnseok**
(Subbotin, A. I.) *see* **Control in dynamical systems, 93f:93004** *and* **Control problems with guaranteed result, 93h:93008**
Tomskii, G. V. *see* **Danilov, N. N., 93d:90075**
Tret'yakov, V. E. (*with* Tselishcheva, I. V.; Shishkin, G. I.) On an efficient algorithm in control problems with an information deficit. (Russian. Russian summary) **93j:49033**
Triggiani, Roberto *see* **McMillan, Christine Alicia, (93i:93005)**
Tselishcheva, I. V. *see* **Tret'yakov, V. E.; et al., 93j:49033**
Uchida, Kenko (*with* Fujita, Masayuki) Controllers attenuating disturbances and initial-uncertainties for time-varying systems. (English summary) **93j:93047**
— *see also* **Kojima, Akira; et al., 93j:93133**
(Ushakov, V. N.) *see* **Control in dynamical systems, 93f:93004**
Wu, Jian Zhong *see* **Li, Bai Bing, 93e:93058**
Xu, Hua *see* **Mizukami, Koichi**
Yeung, David A game theoretical approach to public investment versus private investment. (English summary) (*see* **93d:90003**)
— A differential game of industrial pollution management. (English summary) **93j:90029**
Yong, Jiong Min *see* **Chen, Shu Ping; et al., 93e:93023**
Zaremba, Leszek S. Step-guided strategies for control problems with uncertain dynamics. **93f:93079**
de Zeeuw, Aart J. *see* **Gradus, Raymond H. J. M.** *and* **Houba, Harold, (93d:90003)**

Items listed otherwise than by author

Analysis and design of dynamical systems under conditions of uncertainty ★ Анализ и синтез динамических систем в условиях неопределенности. (Russian) [Analysis and design of dynamical systems under conditions of uncertainty] **93g:00022**
Control in dynamical systems ★ Управление в динамических системах. (Russian) [Control in dynamical systems] **93f:93004**
Control problems with guaranteed result ★ Проблемы управления с гарантированным результатом. (Russian) [Control problems with guaranteed result] **93h:93008**
Differential games—developments in modelling and computation ★ Differential games—developments in modelling and computation. **93c:90003**
Dynamic games in economic analysis ★ Dynamic games in economic analysis. **93d:90003**
Espoo ★ Differential games—developments in modelling and computation. **93c:90003**
— ★ Dynamic games in economic analysis. **93d:90003**
Lecture Notes in Control and Information Sciences ★ Differential games—developments in modelling and computation. **93c:90003**
— ★ Dynamic games in economic analysis. **93d:90003**
Symposium:
Differential Games and Applications ★ Differential games—developments in modelling and computation. **93c:90003**
— ★ Dynamic games in economic analysis. **93d:90003**

90D26 Pursuit and evasion games

Anderson, Edward J. (*with* Aramendia, Miguel) A linear programming approach to the search game on a network with mobile hider. **93b:90123**
Aramendia, Miguel *see* **Anderson, Edward J., 93b:90123**
Bardi, Martino (*with* Soravia, Pierpaolo) Approximation of differential games of pursuit-evasion by discrete-time games. (English summary) **93h:90124**
Botkin, N. D. A differential pursuit game with mixed constraints on the controls. (Russian. Russian summary) **93j:90140**
Chentsov, A. G. (*with* Yafrakov, M. F.) Programmed approach and evasion problems in discrete systems with combined constraints. (Russian. English and Ukrainian summaries) **93c:90117**
Chikrii, A. A. (*with* Vetchinova, L. I.) A positional problem of group pursuit. (Russian) (*see* **93m:00036**)
— (*with* Pilipenko, Yu. V.) Conflict-controlled processes with periodic Pontryagin condition. (Russian. English, Russian and Ukrainian summaries) **93i:90125**
— (*with* Rappoport, Î. S.) The first Pontryagin method in a group pursuit problem for objects with different time lag. (Russian. English and Russian summaries) **93j:90141**
Chikrii, G. Ts. On the search for controlled objects. (Russian) (*see* **93m:00036**)
— On a search problem. (Russian. Russian summary) (*see* **93b:90010**)
Chkhartishvili, A. G. A geometric property of the tracking domain in a search problem. (Russian. Russian summary) **93m:90127**
Gubaidullin, S. M. (*with* Shikin, E. V.) Tracking domains on a cylinder and a torus. (Russian. Russian summary) **93f:90207**
Ivanov, M. N. (*with* Maslov, E. P.) Evasion from a rotating zone of detection. (Russian. Russian summary) **93f:90208**
— *see also* **Zheleznov, V. S.; et al., 93g:90106**
Kaigorodov, S. P. *see* **Sofronov, V. G., (93b:34004)**
Kirilyuk, O. L. (*with* Prokopovich, P. V.) The decision function method in differential-difference pursuit games. (Russian. Russian summary) (*see* **93b:90010**)
Kopeĭkin, V. F. Optimal control of a moving object evading an encounter with searchers. (Russian. Russian summary) **93g:90104**
Krikovlyuk, A. P. *see* **Krivoi, S. F.; et al., 93i:90126**
Krivoi, S. F. (*with* Krikovlyuk, A. P.; Moroz-Podvorchan, I. G.; Mushka, F. I.; Pik, E. M.) On a pursuit-evasion problem. (Russian. English and Ukrainian summaries) **93i:90126**
Kurskiĭ, È. A. *see* **Zheleznov, V. S.; et al., 93g:90106**
Lagunova, N. V. The problem of evading four pursuers. (Russian. Russian summary) **93m:90128**
Lee, King Tak (*with* Lee, L. Y.) On a discrete evasion game of Isaacs. **93f:90209**
Lee, L. Y. *see* **Lee, King Tak, 93f:90209**
Levchenkov, A. Yu. A problem of the simple pursuit of one object by two objects under various constraints on the control. (Russian) (*see* **93g:00022**)
— (*with* Pashkov, A. G.; Terekhov, S. D.) A construction of the value function in some differential games of approach with two pursuers and one evader. (English summary) **93g:90105**
Liu, Xiao Ping² (*with* Zhang, Si Ying) Optimal incentive strategy for leader-follower games. (English summary) **93j:90142**
Macki, Jack W. (*with* Nistri, Paolo; Zecca, Pietro) Corrigendum: "A tracking problem for uncertain vector systems" [Nonlinear Anal. **14** (1990), no. 4, 319–328; MR 90k:49037]. **93k:90120**

Maslov, E. P. *see* **Ivanov, M. N., 93f:90208** *and* **Zheleznov, V. S.; et al., 93g:90106**
Melikyan, A. A. (*with* Ovakimyan, N. V.) A game-theoretic problem of simple pursuit on a two-dimensional cone. (Russian) **93b:90124**
Moroz-Podvorchan, I. G. *see* **Krivoi, S. F.; et al., 93i:90126**
Mushka, F. I. *see* **Krivoi, S. F.; et al., 93i:90126**
Nikol'skii, M. S. Linear differential pursuit games with integral constraints. (Russian. Russian summary) **93i:90127**
Nistri, Paolo *see* **Macki, Jack W.; et al., 93k:90120**
Ovakimyan, N. V. *see* **Melikyan, A. A., 93b:90124**
Pashkov, A. G. *see* **Levchenkov, A. Yu.; et al., 93g:90105**
Petrov, N. N. A problem of group pursuit with phase constraints. (Russian. Russian summary) (*see* **93m:00031**)
Pik, E. M. *see* **Krivoi, S. F.; et al., 93i:90126**
Pilipenko, Yu. V. On a pursuit problem. I. (Russian. Russian summary) (*see* **93b:90010**)
— *see also* **Chikrii, A. A., 93i:90125**
Popescu, Mihai-Emilian Optimal control in pursuit problem.
Prokopovich, P. V. *see* **Kirilyuk, O. L., (93b:90010)**
Rappoport, I. S. *see* **Chikrii, A. A., 93j:90141**
Rikhsiev, B. B. A differential game with simple motion in a convex cone. (Russian. Russian summary) **93j:90143**
Shikin, E. V. *see* **Gubaidullin, S. M., 93f:90207**
Sofronov, V. G. (*with* Kaigorodov, S. P.) On a problem of simple pursuit. (Russian) (*see* **93b:34004**)
Soravia, Pierpaolo *see* **Bardi, Martino, 93h:90124**
Terekhov, S. D. *see* **Levchenkov, A. Yu.; et al., 93g:90105**
Vetchinova, L. I. *see* **Chikrii, A. A., (93m:00036)**
Yafrakov, M. F. *see* **Chentsov, A. G., 93c:90117**
Yong, Jiong Min Erratum: "Evasion with weak superiority" [J. Math. Anal. Appl. **134** (1988), no. 1, 116–124; MR 89i:90103].
Yugai, L. P. Linear differential evasion game without superiority. (English summary)
Zecca, Pietro *see* **Macki, Jack W.; et al., 93k:90120**
Zhang, Si Ying *see* **Liu, Xiao Ping^2, 93j:90142**
Zheleznov, V. S. (*with* Ivanov, M. N.; Maslov, E. P.; Kurskiĭ, È. A.) On an evasion problem in a space. (Russian. Russian summary) **93g:90106**

Items with secondary classifications in 90D26

Auger, John M. On discrete games of infiltration. (*see* **93c:90003**)
Beck, Anatole (*with* Beck, Micah) The revenge of the linear search problem. **93f:90098**
Beck, Micah *see* **Beck, Anatole, 93f:90098**
Linder, N. V. An elementary differential search game under mixed strategies. (Russian) **93i:90123**
Quilliot, Alain Une extension du problème du point fixe pour des graphes simples. (English and French summaries) [An extension of the fixed-point problem for some simple graphs] **93j:05047**
Trybuła, Stanisław A noisy versus n-noisy duel with retreat after the shots. (Polish summary) **93h:90109a**
— An m-noisy versus noisy duel with retreat after the shots. (Polish summary) **93h:90109b**

90D35 Decision theory for games [see also 62Cxx, 90A05, 90B50]

Kasugai, Hiroshi *see* **Kubo, Mikio, 93h:90125**
Kubo, Mikio (*with* Kasugai, Hiroshi) On the core of the network design game. (English summary) **93h:90125**
Kukushkin, N. S. On existence of stable and efficient outcomes in games with public and private objectives. **93f:90210**
Shin, Hyun Song Counterfactuals and a theory of equilibrium in games. (*see* **93i:90006**)

Items with secondary classifications in 90D35

Beltadze, G. N. Lexicographic game-theoretic problems of dynamic resource allocation. (Russian. English and Georgian summaries)
(Bicchieri, Cristina) *see* **Knowledge, belief, and strategic interaction, 93i:90006**
Binmore, Kenneth G. (*with* Shin, Hyun Song) Algorithmic knowledge and game theory. (*see* **93i:90006**)
(Dalla Chiara, Maria Luisa) *see* **Knowledge, belief, and strategic interaction, 93i:90006**
Granot, Daniel (*with* Granot, Frieda) On some network flow games. (English summary) **93k:90111**
Granot, Frieda *see* **Granot, Daniel, 93k:90111**
Gurvich, V. A. Informational extensions of game forms. (Russian) **93a:90088**
Kalai, E. (*with* Neme, Alejandro) The strength of a little perfection. **93b:90116**
Luce, R. Duncan Singular points in generalized concatenation structures that otherwise are homogeneous. (English summary) **93i:90011**
Neme, Alejandro *see* **Kalai, E., 93b:90116**
Peters, Hans (*with* van der Stel, H.; Storcken, Ton) Pareto optimality, anonymity, and strategy-proofness in location problems. (English summary) **93i:90058**
Reny, Philip J. Backward induction, normal form perfection and explicable equilibria. **93c:90111**
Ríos Insua, David On the foundations of decision making under partial information. **93d:90007**
Segerberg, Krister Representing facts. (*see* **93i:90006**)
Shin, Hyun Song *see* **Binmore, Kenneth G., (93i:90006)**
van der Stel, H. *see* **Peters, Hans; et al., 93i:90058**
Storcken, Ton *see* **Peters, Hans; et al., 93i:90058**

Items listed otherwise than by author

Castiglioncello ★ Knowledge, belief, and strategic interaction. **93i:90006**
Knowledge, belief, and strategic interaction ★ Knowledge, belief, and strategic interaction. **93i:90006**
Workshop:
Knowledge, Belief, and Strategic Interaction ★ Knowledge, belief, and strategic interaction. **93i:90006**

90D40 Game-theoretic models [see also 65Cxx]

Alonso, Laurent (*with* Goldstein, Arthur S.; Reingold, Edward M.) "Lion and man": upper and lower bounds. (English summary)
Amershi, Amin H. (*with* Sadanand, Asha; Sadanand, Venkatraman) Player importance and forward induction. **93c:90118**
Austen-Smith, David Interested experts and policy advice: multiple referrals under open rule. (English summary) **93j:90144**
Bacharach, Michael Backward induction and beliefs about oneself. **93b:90125**
Banks, Jeffrey S. (*with* Sundaram, Rangarajan K.) Denumerable-armed bandits. (English summary) **93g:90107**
— (*with* Calvert, Randall L.) A battle-of-the-sexes game with incomplete information. **93c:90119**
Bapeswara Rao, V. V. (*with* Rao, M. Bhaskara) A three-door game show and some of its variants. (English summary) **93i:90128**
Basu, Kaushik A characterization of the class of rationalizable equilibria of oligopoly games. (English summary)
Beltadze, G. N. Lexicographic game-theoretic problems of dynamic resource allocation. (Russian. English and Georgian summaries)
Benhabib, Jess (*with* Radner, Roy) The joint exploitation of a productive asset: a game-theoretic approach. **93c:90120**
Bicchieri, Cristina Knowledge-dependent games: backward induction. **93k:90121**
Bienenstock, Elisa Jayne *see* **Bonacich, Phillip**
Bonacich, Phillip (*with* Bienenstock, Elisa Jayne) Assignment games, chromatic number, and exchange theory. (English summary)
Börgers, Tilman Pure strategy dominance.
Bracken, Jerome (*with* Shubik, Martin) Crisis stability games. (English summary)
Calvert, Randall L. *see* **Banks, Jeffrey S., 93c:90119**
Cameron, Charles M. (*with* Rosendorff, B. Peter) A signaling theory of congressional oversight. (English summary) **93j:90145**
Cibulis, Andris A theorem on the invariant of an abstract game and its application in the analysis of mathematical puzzles. (Russian. English, Russian and Latvian summaries) (*see* **93f:00009**)
Coughlin, Peter J. Pure strategy equilibria in a class of systems defense games. **93g:90108**
Cressman, Ross Evolutionarily stable sets in symmetric extensive two-person games. **93c:90121**
Danilov, V. I. Implementation via Nash equilibria. **93a:90097**
Dekel, Eddie (*with* Scotchmer, Suzanne) On the evolution of optimizing behavior. (English summary) **93f:90211**
Ferguson, Thomas S. Mate with bishop and knight in kriegspiel. **93a:90098**
Goldstein, Arthur S. *see* **Alonso, Laurent; et al.**
Gradus, Raymond H. J. M. (*with* de Zeeuw, Aart J.) An employment game between government and firms. (English summary)
Guo, Xian Ping Sufficient conditions for the existence of $\varepsilon(\geq 0)$-optimal policies of nonstationary MDP average models. (Chinese. English and Chinese summaries)
Gurvich, V. A. Algebraic properties of influence functions. (Russian)
— Influence functions and information extensions of game forms and game relations. (Russian) **93j:90146**
Haurie, Alain (*with* Loulou, Richard; Savard, Gilles) A two-player game model of power cogeneration in New England. (English summary)
Hsia, Kuo Hsien (*with* Hsieh, Chê Kuang) A first approach to fuzzy differential game problem: guarding a territory. (English summary) **93k:90122**
Hsieh, Chê Kuang *see* **Hsia, Kuo Hsien, 93k:90122**
Kadane, Joseph B. (*with* Levi, Isaac; Seidenfeld, Teddy) Elicitation for games. (*see* **93i:90006**)
Kamiyama, Shinichi (*with* Murata, Yasuo) The discrete-time model of Bagchi's regional investment allocation problem. (English summary) **93d:90079**
Kandori, Michihiro (*with* Mailath, George J.; Rob, Rafael) Learning, mutation, and long run equilibria in games. (English summary) **93m:90129**
Kaneko, Mamoru (*with* Kimura, Toshiyuki) Conventions, social prejudices and discrimination: a festival game with merrymakers. (English summary) **93g:90109**
Kimura, Toshiyuki *see* **Kaneko, Mamoru, 93g:90109**
Koh, Winston T. H. A note on modelling tournaments. (English summary) **93e:90078**
Legros, Patrick Information revelation in repeated delegation. (English summary) **93k:90123**
Levi, Isaac *see* **Kadane, Joseph B.; et al., (93i:90006)**
Loulou, Richard *see* **Haurie, Alain; et al.**
Mailath, George J. Endogenous sequencing of firm decisions. (English summary)
— *see also* **Kandori, Michihiro; et al., 93m:90129**
Matsui, Akihiko Best response dynamics and socially stable strategies. (English summary) **93g:90110**
Murata, Yasuo *see* **Kamiyama, Shinichi, 93d:90079**
Muto, Shigeo On licensing policies in Bertrand competition. (English summary) **93k:90124**
Negro, Alberto (*with* Sereno, Matteo) Ulam's searching game with three lies. (English summary) **93i:90129**
Plum, Michael Characterization and computation of Nash-equilibria for auctions with incomplete information. **93b:90126**
Polyakova, V. A. *see* **Vasin, A. A., (93g:90002)**
Radner, Roy *see* **Benhabib, Jess, 93c:90120**
Rao, M. Bhaskara *see* **Bapeswara Rao, V. V., 93i:90128**
Reingold, Edward M. *see* **Alonso, Laurent; et al.**
Reny, Philip J. Common knowledge and games with perfect information. (*see* **93i:90006**)
Rob, Rafael *see* **Kandori, Michihiro; et al., 93m:90129**
Rosendorff, B. Peter *see* **Cameron, Charles M., 93j:90145**
Rubinstein, Ariel The electronic mail game: strategic behavior under "almost common knowledge". (*see* **93i:90006**)

Sadanand, Asha *see* **Amershi, Amin H.; et al., 93c:90118**
Sadanand, Venkatraman *see* **Amershi, Amin H.; et al., 93c:90118**
Samet, D. Agreeing to disagree in infinite information structures. **93m:90130**
Sasaki, Hiroo (*with* Toda, Manabu) Consistency and characterization of the core of two-sided matching problems. **93b:90127**
Savard, Gilles *see* **Haurie, Alain; et al.**
Scotchmer, Suzanne *see* **Dekel, Eddie, 93f:90211**
Seidenfeld, Teddy *see* **Kadane, Joseph B.; et al., (93i:90006)**
Seidmann, Daniel J. Cheap talk games may have unique, informative equilibrium outcomes. **93a:90099**
Sereno, Matteo *see* **Negro, Alberto, 93i:90129**
Shimkin, Nahum (*with* Shwartz, Adam) Guaranteed performance regions for multi-user Markov models. (English summary) (*see* **93g:93007**)
Shubik, Martin *see* **Bracken, Jerome**
Shwartz, Adam *see* **Shimkin, Nahum, (93g:93007)**
Spencer, Joel H. (*with* Winkler, Peter M.) Three thresholds for a liar. **93c:90122**
Sundaram, Rangarajan K. *see* **Banks, Jeffrey S., 93g:90107**
Swinkels, Jeroen M. Evolution and strategic stability: from Maynard Smith to Kohlberg and Mertens. (English summary) **93i:90130**
— Evolutionary stability with equilibrium entrants. (English summary) **93k:90125**
Toda, Manabu *see* **Sasaki, Hiroo, 93b:90127**
Tovey, Craig A. A polynomial-time algorithm for computing the yolk in fixed dimension. (English summary) **93j:90147**
Vasin, A. A. (*with* Polyakova, V. A.) A concept of strategy domination in models of interaction. (Russian. Russian summary) (*see* **93g:90002**)
White, Douglas John Piecewise linear approximations for partially observable Markov decision processes with finite horizons. (English summary) **93e:90079**
Winkler, Peter M. *see* **Spencer, Joel H., 93c:90122**
Żakowski, Wojciech On some asymmetrical conflicts. **93g:90111**
de Zeeuw, Aart J. *see* **Gradus, Raymond H. J. M.**

Items with secondary classifications in 90D40

Abreu, Dilip (*with* Matsushima, Hitoshi) Virtual implementation in iteratively undominated strategies: complete information. (English summary) **93f:90012**
(Aumann, Robert) *see* **Roth, Alvin E., 93b:90001**
Bagwell, Kyle (*with* Staiger, Robert W.) The sensitivity of strategic and corrective R & D policy in battles for monopoly. (English summary)
Banks, Jeffrey S. (*with* Sundaram, Rangarajan K.) A class of bandit problems yielding myopic optimal strategies. **93f:90214**
Bárány, Imre Fair distribution protocols or how the players replace fortune. **93d:90083**
Baum, Eric B. On optimal game tree propagation for imperfect players. (English summary) (*see* **93j:68007**)
Baye, Michael R. (*with* Kovenock, Dan; de Vries, Casper G.) It takes two to tango: equilibria in a model of sales. (English summary) **93g:90014**
Bays, Carter A new candidate rule for the game of three-dimensional life. **93m:68126**
Benkherouf, L. (*with* Glazebrook, Kevin D.; Owen, R. W.) Gittins indices and oil exploration. **93i:90007**
Bergin, James A model of strategic behaviour in repeated games. **93b:90121**
Bomze, Immanuel M. Detecting all evolutionarily stable strategies. (English summary) **93h:92022**
Bonanno, Giacomo Set-theoretic equivalence of extensive-form games. **93d:90081**
— Players' information in extensive games. (English summary) **93h:90110**
Bordes, Georges (*with* Le Breton, Michel; Salles, Maurice) Gillies and Miller's subrelations of a relation over an infinite set of alternatives: general results and applications to voting games. (English summary) **93g:90011**
Bossert, Walter An alternative solution to bargaining problems with claims. (English summary) **93k:90031**
Cabrales, Antonio (*with* Sobel, Joel) On the limit points of discrete selection dynamics. (English summary) **93g:90018**
Canning, David Rationality, computability, and Nash equilibrium. **93c:90110**
— Average behavior in learning models. (English summary) **93i:90026**
Cressman, Ross ★ The stability concept of evolutionary game theory. **93j:92020**
Cui, Jing An (*with* Huang, Yong Nian[1]) Positive periodic solutions to a class of periodic cooperative systems. (Chinese. English and Chinese summaries) **93h:34060**
Ding, Xie Ping (*with* Kim, Won Kyu; Tan, Kok-Keong) Equilibria of noncompact generalized games with $\mathcal{L}^*$-majorized preference correspondences. **93d:90014**
Dubov, Yu. A. Stochastic stimuli and balance in a model of competing possibilities. (Russian. Russian summary)
Dutta, Bhaskar (*with* Ray, Debraj) Constrained egalitarian allocations. **93a:90087**
Dutta, Prajit K. (*with* Sundaram, Rangarajan K.) Markovian equilibrium in a class of stochastic games: existence theorems for discounted and undiscounted models. **93h:90020**
Fischer, Michael J. (*with* Paleologou, Sophia A.) Decision making in the presence of noise. **93g:90005**
Fisher, David C. (*with* Ryan, Jennifer) Optimal strategies for a generalized "scissors, paper, and stone" game. **93i:05067**
Fudenberg, Drew (*with* Levine, David K.) Maintaining a reputation when strategies are imperfectly observed. **93i:90115**
Furth, D. Equilibria in markets with product differentiation and free entry. **93j:90022**
Gilboa, Itzhak (*with* Monderer, Dov) A game-theoretic approach to the binary stochastic choice problem. (English summary) **93m:92032**
Glazebrook, Kevin D. *see* **Benkherouf, L.; et al., 93i:90007**
Harrington, Joseph E., Jr. Modelling the role of information in elections. (English summary) **93m:92034**
Herrero, María José (*with* Srivastava, Sanjay) Implementation via backward induction. **93c:90011**
Hsiao, Chih Ru (*with* Raghavan, T. E. S.) Monotonicity and dummy free property for multi-choice cooperative games. (English summary) **93k:90112**
Huang, Yong Nian[1] *see* **Cui, Jing An, 93h:34060**
Humble, S. *see* **Wand, K.; et al., 93k:90115**
Hutson, V. C. L. (*with* Vickers, G. T.) Travelling waves and dominance of ESSs. **93g:90112**
Ibaraki, Toshihide *see* **Katoh, Naoki; et al., 93c:90114**
Ingberman, Daniel E. Incumbent reputations and ideological campaign contributions in spatial competition. (English summary) **93g:92036**
Jordan, J. S. The exponential convergence of Bayesian learning in normal form games. **93f:90215**
Katoh, Naoki (*with* Koyanagi, Junji; Ohnishi, Masamitsu; Ibaraki, Toshihide) Optimal strategies for some team games. **93c:90114**
Kim, Won Kyu *see* **Ding, Xie Ping; et al., 93d:90014**
Kolpin, Van Shared facility games with variable utilization. (English summary)
(Korolev, L. N.) *see* **Computer systems and problems in decision making, 93g:90002**
Kovenock, Dan *see* **Baye, Michael R.; et al., 93g:90014**
Koyanagi, Junji *see* **Katoh, Naoki; et al., 93c:90114**
(Krasnoshchekov, P. S.) *see* **Computer systems and problems in decision making, 93g:90002**
Kukushkin, N. S. On existence of stable and efficient outcomes in games with public and private objectives. **93f:90210**
Lagunoff, Roger Fully endogenous mechanism selection on finite outcome sets. (English summary) **93g:90017**
Lainé, Jean On the Nash equilibrium property of an auction matching game. **93e:90022**
Le Breton, Michel *see* **Bordes, Georges; et al., 93g:90011**
Levine, David K. *see* **Fudenberg, Drew, 93i:90115**
Lewis, Alain A. Some aspects of effectively constructive mathematics that are relevant to the foundations of neoclassical mathematical economics and the theory of games. (English summary) **93i:90003**
Lismont, Luc Une classe universelle anti-fondée pour les croyances. (English and French summaries) [An anti-founded universal belief class] **93j:03026**
Liu, Xiao Ping[2] (*with* Zhang, Si Ying) Optimal incentive strategy for leader-follower games. (English summary) **93j:90142**
Luce, R. Duncan Singular points in generalized concatenation structures that otherwise are homogeneous. (English summary) **93i:90011**
Malafeev, O. A. Dynamical conflict-control systems. (Russian) (*see* **93m:00035**)
Malyukov, V. P. A quality game for two models of economic dynamics with incomplete information. (Russian. English and Ukrainian summaries) **93g:90024**
Mandy, David M. Nonuniform Bertrand competition. (English summary) **93m:90024**
Maschler, M. (*with* Potters, Jos A. M.; Tijs, Stef H.) The general nucleolus and the reduced game property. (English summary) **93h:90113**
Matsushima, Hitoshi *see* **Abreu, Dilip, 93f:90012**
Melikyan, A. A. (*with* Ovakimyan, N. V.) A game-theoretic problem of simple pursuit on a two-dimensional cone. (Russian) **93b:90124**
Mertens, Jean-François The small worlds axiom for stable equilibria. (English summary) **93i:90021**
Monderer, Dov The stochastic choice problem: a game-theoretic approach. (English summary) **93m:92033**
— *see also* **Gilboa, Itzhak, 93m:92032**
Myerson, Roger B. Effectiveness of electoral systems for reducing government corruption: a game-theoretic analysis. (English summary)
Nieto, Jorge The lexicographic egalitarian solution on economic environments. (English summary) **93e:90009**
Ohnishi, Masamitsu *see* **Katoh, Naoki; et al., 93c:90114**
Osborne, Martin J. Candidate positioning and entry in a political competition. (English summary) **93m:90018**
Ovakimyan, N. V. *see* **Melikyan, A. A., 93b:90124**
Owen, R. W. *see* **Benkherouf, L.; et al., 93i:90007**
Paleologou, Sophia A. *see* **Fischer, Michael J., 93g:90005**
Potters, Jos A. M. *see* **Maschler, M.; et al., 93h:90113**
Rabin, Matthew Corrigendum: "Communication between rational agents" [J. Econom. Theory **51** (1990), no. 1, 144–170; MR 91g:90184]. **93j:90131**
Rabinowicz, Włodzimierz Tortuous labyrinth: noncooperative normal-form games between hyperrational players. (*see* **93i:90006**)
Raghavan, T. E. S. *see* **Hsiao, Chih Ru, 93k:90112**
Rath, Kali P. A direct proof of the existence of pure strategy equilibria in games with a continuum of players. **93f:90195**
Ray, Debraj *see* **Dutta, Bhaskar, 93a:90087**
Reiko, Aoki (*with* Reitman, David) Simultaneous signaling through investment in an R & D game with private information. **93b:90117**
Reitman, David *see* **Reiko, Aoki, 93b:90117**
Reny, Philip J. Backward induction, normal form perfection and explicable equilibria. **93c:90111**
Rivin, Igor (*with* Zabih, Ramin) A dynamic programming solution to the n-queens problem. **93a:90053**
Roth, Alvin E. (*with* Sotomayor, Marilda de Oliveira) ★ Two-sided matching. **93b:90001**
Ryan, Jennifer *see* **Fisher, David C., 93i:05067**
Sakaguchi, Minoru Auction bidding and evolutionary stable strategies. **93d:92010**
Salles, Maurice *see* **Bordes, Georges; et al., 93g:90011**
Samuelson, Larry (*with* Zhang, Jianbo) Evolutionary stability in asymmetric games. (English summary) **93f:90188**
Shin, Hyun Song Counterfactuals and a theory of equilibrium in games. (*see* **93i:90006**)
Shubik, Martin (*with* Tsomocos, D. P.) A strategic market game with a mutual bank with fractional reserves and redemption in gold (a continuum of traders). (English summary) **93f:90051**
Sjöström, Tomas Implementation in perfect equilibria. (English summary) **93j:90016**
Sobel, Joel *see* **Cabrales, Antonio, 93g:90018**
Sobel, Jordan Howard Hyperrational games: concept and resolutions. **93k:90113**
Sotomayor, Marilda de Oliveira *see* **Roth, Alvin E., 93b:90001**
Srivastava, Sanjay *see* **Herrero, María José, 93c:90011**
Staiger, Robert W. *see* **Bagwell, Kyle**
(Stefański, Jacek) *see* **Bargaining and arbitration in conflicts, 93k:90003**
Sundaram, Rangarajan K. *see* **Banks, Jeffrey S., 93f:90214** *and* **Dutta, Prajit K., 93h:90020**
Tadenuma, Koichi Reduced games, consistency, and the core. **93c:90113**
Tan, Kok-Keong *see* **Ding, Xie Ping; et al., 93d:90014**

Taylor, Alan (*with* Zwicker, William S.) Weighted voting, multicameral representation, and power. (English summary) **93h:90027**
von Thadden, Ernst-Ludwig Optimal pricing against a simple learning rule. (English summary) **93f:90026**
Tijs, Stef H. *see* **Maschler, M.; et al., 93h:90113**
Trybuła, Stanisław A mixed duel under arbitrary moving. (English summary) **93g:90092**
Tsomocos, D. P. *see* **Shubik, Martin, 93f:90051**
Vassilakis, Spyros Some economic applications of Scott domains. (English summary) **93i:90027**
Venema, Yde Relational games. **93d:03069**
Vickers, G. T. *see* **Hutson, V. C. L., 93g:90112**
de Vries, Casper G. *see* **Baye, Michael R.; et al., 93g:90014**
Wand, K. (*with* Humble, S.; Wilson, R. J. T.) Explicit modeling of detection within a stochastic duel. (English summary) **93k:90115**
Weber, Shlomo On hierarchical spatial competition. **93e:90018**
Weibull, Jörgen W. On self-enforcement in extensive-form games. **93e:90074**
Wilson, R. J. T. *see* **Wand, K.; et al., 93k:90115**
Young, H. Peyton The evolution of conventions. (English summary) **93j:92038**
Zabih, Ramin *see* **Rivin, Igor, 93a:90053**
Zhang, Jianbo *see* **Samuelson, Larry, 93f:90188**
Zhang, Si Ying *see* **Liu, Xiao Ping[2], 93j:90142**
Zwicker, William S. *see* **Taylor, Alan, 93h:90027**

Items listed otherwise than by author

Bargaining and arbitration in conflicts ★ Bargaining and arbitration in conflicts. **93k:90003**
Computer systems and problems in decision making ★ Вычислительные системы и вопросы принятия решений. (Russian) [Computer systems and problems in decision making] **93g:90002**
Special Issue:
Bargaining and arbitration in conflicts ★ Bargaining and arbitration in conflicts. **93k:90003**

90D43 Games involving graphs

Baston, V. J. (*with* Bostock, F. A.) On Washburn's deterministic graphical games. (*see* **93c:90003**)
Bodlaender, Hans L. (*with* Kratsch, Dieter) The complexity of coloring games on perfect graphs. (English summary) **93h:90126**
Bonanno, Giacomo Rational beliefs in extensive games. (English summary) **93f:90212**
Borm, P. E. M. (*with* Owen, Guillermo; Tijs, Stef H.) On the position value for communication situations. **93c:90080**
Bostock, F. A. *see* **Baston, V. J., (93c:90003)**
Kratsch, Dieter *see* **Bodlaender, Hans L., 93h:90126**
Lu, Xiao Yun[1] Hamiltonian games. **93b:90128**
Owen, Guillermo *see* **Borm, P. E. M.; et al., 93c:90080**
Rozen, V. V. Equilibrium situations in games on graphs. (Russian) **93d:90080**
Tijs, Stef H. *see* **Borm, P. E. M.; et al., 93c:90080**

Items with secondary classifications in 90D43

Blidia, Mostafa (*with* Engel, Konrad) Perfectly orderable graphs and almost all perfect graphs are kernel M-solvable. **93h:05131**
Dziechcińska-Halamoda, Z. (*with* Michael, J.; Szwiec, W.) Games without repetitions on digraphs. **93m:05078**
Engel, Konrad *see* **Blidia, Mostafa, 93h:05131**
Hirschelmann, Arnulf Ein Evolutionsspiel im Partitionengraph. [A game of evolution in a partition graph] **93k:05014**
Kerber, Dirk On the determination of the worst sampling error in a communication system for pulse amplitude modulated signals. II. The finite-dimensional model. **93a:94009**
Le Breton, Michel (*with* Owen, Guillermo; Weber, Shlomo) Strongly balanced cooperative games. **93d:90077**
Lu, Xiao Yun[1] A characterization on n-critical economical generalized tic-tac-toe games. (English summary) **93m:90131**
Michael, J. *see* **Dziechcińska-Halamoda, Z.; et al., 93m:05078**
Moews, David Sums of games born on days 2 and 3. **93b:90130**
Owen, Guillermo *see* **Le Breton, Michel; et al., 93d:90077**
Szwiec, W. *see* **Dziechcińska-Halamoda, Z.; et al., 93m:05078**
Weber, Shlomo *see* **Le Breton, Michel; et al., 93d:90077**

90D44 Games involving topology or set theory

Bonanno, Giacomo Set-theoretic equivalence of extensive-form games. **93d:90081**
Kenderov, P. S. (*with* Revalski, Julian Petrov) Winning strategies in the Banach-Mazur game.
Kikuta, Kensaku A search game with traveling cost. **93a:90100**
Kim, Won Kyu A new equilibrium existence theorem. (English summary) **93i:90131**
Revalski, Julian Petrov *see* **Kenderov, P. S.**

Items with secondary classifications in 90D44

Cenzer, Douglas (*with* Remmel, Jeffrey B.) Recursively presented games and strategies. (English summary) **93m:03078**
Fiestras-Janeiro, G. (*with* García-Jurado, I.) A new geometric approach to bimatrix games. (English summary) **93e:90071**
García-Jurado, I. *see* **Fiestras-Janeiro, G., 93e:90071**
Granas, Andrzej (*with* Lee, Jin-Rong; Liu, Fèng Chè) Théorème de minimax sans topologie ni convexité. [A minimax theorem involving neither topology nor convexity] **93f:49010**
Kenderov, P. S. (*with* Revalski, Julian Petrov) The Banach-Mazur game and generic existence of solutions to optimization problems. **93i:49012**
Kõnig, Heinz A general minimax theorem based on connectedness. **93g:49010**
Koons, Robert C. ★ Paradoxes of belief and strategic rationality. **93d:03029**
Lee, Jin-Rong *see* **Granas, Andrzej; et al., 93f:49010**
Liu, Fèng Chè *see* **Granas, Andrzej; et al., 93f:49010**
Newelski, Ludomir (*with* Rosłanowski, A.) The ideal determined by the unsymmetric game. **93d:03053**
Remmel, Jeffrey B. *see* **Cenzer, Douglas, 93m:03078**
Revalski, Julian Petrov *see* **Kenderov, P. S., 93i:49012**
Rosłanowski, A. *see* **Newelski, Ludomir, 93d:03053**
Scheepers, Marion Meager-nowhere dense games. I. n-tactics. (English summary) **93m:04006**
Solecki, Sławomir Certain games, category, and measure. **93k:04003**

90D46 Combinatorial games

Cannings, C. (*with* Haigh, John) Montreal solitaire. **93d:90082**
Chikrii, A. A. (*with* Rappoport, İ. S.) Group pursuit for controlled objects with different time lags. (Russian) **93h:90127**
Fol'gardt, A. V. Solution of a game with resource allocation. (Russian. Russian summary) (*see* **93g:90002**)
Galvin, Fred (*with* Scheepers, Marion) A Ramseyan theorem and an infinite game. **93b:90129**
Haigh, John *see* **Cannings, C., 93d:90082**
Lee, S. F. *see* **Leong, H.-W., 93f:90213**
Leong, H.-W. (*with* Lee, S. F.) A new approach to game scheduling with preassignments. (English summary) **93f:90213**
Loebl, Martin *see* **Matoušek, Jiří, 93c:90123**
Lu, Xiao Yun[1] A characterization on n-critical economical generalized tic-tac-toe games. (English summary) **93m:90131**
Matoušek, Jiří (*with* Loebl, Martin) Hercules versus Hidden Hydra Helper. **93c:90123**
Moews, David Sums of games born on days 2 and 3. **93b:90130**
Propp, James Gary (*with* Ullman, Daniel) On the cookie game. **93b:90131**
Rappoport, İ. S. *see* **Chikrii, A. A., 93h:90127**
Scheepers, Marion *see* **Galvin, Fred, 93b:90129**
Stolarsky, Kenneth B. From Wythoff's Nim to Chebyshev's inequality. **93b:90132**
Ullman, Daniel *see* **Propp, James Gary, 93b:90131**
Yamasaki, Yōhei Shannon switching games without terminals. III. (English summary) **93j:90148**

Items with secondary classifications in 90D46

Benkherouf, L. (*with* Glazebrook, Kevin D.; Owen, R. W.) Gittins indices and oil exploration. **93i:90007**
Cai, Jin-Yi (*with* Condon, Anne; Lipton, Richard J.) On games of incomplete information. **93h:90108**
Condon, Anne *see* **Cai, Jin-Yi; et al., 93h:90108**
Evans, Ronald J. (*with* Heuer, Gerald A.) Silverman's game on discrete sets. **93a:90082**
Gabow, Harold N. (*with* Westermann, Herbert H.) Forests, frames, and games: algorithms for matroid sums and applications. **93f:90133**
Glazebrook, Kevin D. *see* **Benkherouf, L.; et al., 93i:90007**
Goles Ch., Eric Sand piles, combinatorial games and cellular automata. (English summary) **93j:58069**
Heuer, Gerald A. *see* **Evans, Ronald J., 93a:90082**
Ibaraki, Toshihide *see* **Katoh, Naoki; et al., 93c:90114**
Katoh, Naoki (*with* Koyanagi, Junji; Ohnishi, Masamitsu; Ibaraki, Toshihide) Optimal strategies for some team games. **93c:90114**
Koyanagi, Junji *see* **Katoh, Naoki; et al., 93c:90114**
Lipton, Richard J. *see* **Cai, Jin-Yi; et al., 93h:90108**
Ohnishi, Masamitsu *see* **Katoh, Naoki; et al., 93c:90114**
Owen, Guillermo The assignment game: the reduced game. (English and French summaries) **93f:90194**
Owen, R. W. *see* **Benkherouf, L.; et al., 93i:90007**
Rothblum, Uriel G. Characterization of stable matchings as extreme points of a polytope. **93c:90065**
Spencer, Joel H. (*with* Winkler, Peter M.) Three thresholds for a liar. **93c:90122**
Westermann, Herbert H. *see* **Gabow, Harold N., 93f:90133**
Winkler, Peter M. *see* **Spencer, Joel H., 93c:90122**

90D50 Discrete-time games

Auger, John M. On discrete games of infiltration. (*see* **93c:90003**)

Items with secondary classifications in 90D50

Gorelik, V. A. (*with* Gorelov, M. A.; Kononenko, A. F.) ★ Анализ конфликтных ситуаций в системах управления. (Russian) [Analysis of conflict situations in control systems] **93c:93002**
Gorelov, M. A. *see* **Gorelik, V. A.; et al., 93c:93002**
Kononenko, A. F. *see* **Gorelik, V. A.; et al., 93c:93002**

90D55 Games of timing

Items with secondary classifications in 90D55

Hamilton, Jonathan H. (*with* Slutsky, Steven M.) Endogenizing the order of moves in matrix games. (English summary) **93m:90106**
Slutsky, Steven M. *see* **Hamilton, Jonathan H., 93m:90106**

90D60 Probabilistic games; gambling

Banks, Jeffrey S. (*with* Sundaram, Rangarajan K.) A class of bandit problems yielding myopic optimal strategies. **93f:90214**
Bárány, Imre Fair distribution protocols or how the players replace fortune. **93d:90083**
Gao, Li Qun A kind model of smuggling. (English summary) (*see* **93c:93005**)
Gilboa, Itzhak (*with* Matsui, Akihiko) A model of random matching. **93a:90101**

Jordan, J. S. The exponential convergence of Bayesian learning in normal form games. **93f:90215**
Matsui, Akihiko *see* **Gilboa, Itzhak, 93a:90101**
Mazalov, V. V. (*with* Vinnichenko, S. V.) Optimal wind choice in races with finish. (*see* **93a:41001**)
Schmitz, Norbert J. Games against a prophet. **93b:90133**
Sundaram, Rangarajan K. *see* **Banks, Jeffrey S., 93f:90214**
Vinnichenko, S. V. *see* **Mazalov, V. V., (93a:41001)**

Items with secondary classifications in 90D60

Algoet, Paul H. Universal schemes for prediction, gambling and portfolio selection. **93d:60075**
Bapeswara Rao, V. V. (*with* Rao, M. Bhaskara) A three-door game show and some of its variants. (English summary) **93i:90128**
Ishak, S. Remarks on a theorem of Burkholder and Gundy. **93b:60090**
Koh, Winston T. H. A note on modelling tournaments. (English summary) **93e:90078**
Kulldorff, Martin Optimal control of favorable games with a time limit. (English summary) **93m:60149**
Maitra, Ashok (*with* Purves, R.; Sudderth, William D.) A capacitability theorem in finitely additive gambling. (Italian summary) **93d:60077**
Nakagami, Junichi Game-theoretic analysis for an optimal stopping problem by means of moments of a distribution function. **93e:60086**
Nowak, Andrzej S. (*with* Raghavan, T. E. S.) Existence of stationary correlated equilibria with symmetric information for discounted stochastic games. (English summary) **93h:90115**
Purves, R. *see* **Maitra, Ashok; et al., 93d:60077**
Raghavan, T. E. S. *see* **Nowak, Andrzej S., 93h:90115**
Rao, M. Bhaskara *see* **Bapeswara Rao, V. V., 93i:90128**
Rotando, Louis M. (*with* Thorp, Edward O.) The Kelly criterion and the stock market. **93h:90011**
Rubinstein, Ariel (*with* Safra, Zvi; Thomson, William L.) On the interpretation of the Nash bargaining solution and its extension to nonexpected utility preferences. (English summary) **93k:90013**
Saario, Vesa (*with* Sakaguchi, Minoru) Multistop best choice games related to the Poisson process. **93c:60062**
Safra, Zvi *see* **Rubinstein, Ariel; et al., 93k:90013**
Sakaguchi, Minoru *see* **Saario, Vesa, 93c:60062**
Spencer, Joel H. (*with* Winkler, Peter M.) Three thresholds for a liar. **93c:90122**
Sudderth, William D. *see* **Maitra, Ashok; et al., 93d:60077**
Thomson, William L. *see* **Rubinstein, Ariel; et al., 93k:90013**
Thorp, Edward O. *see* **Rotando, Louis M., 93h:90011**
Weibull, Jörgen W. On self-enforcement in extensive-form games. **93e:90074**
Winkler, Peter M. *see* **Spencer, Joel H., 93c:90122**

90D70 Spaces of games

Items with secondary classifications in 90D70

Amershi, Amin H. (*with* Sadanand, Asha; Sadanand, Venkatraman) Player importance and forward induction. **93c:90118**
Sadanand, Asha *see* **Amershi, Amin H.; et al., 93c:90118**
Sadanand, Venkatraman *see* **Amershi, Amin H.; et al., 93c:90118**

90D80 Applications of game theory

Hutson, V. C. L. (*with* Vickers, G. T.) Travelling waves and dominance of ESSs. **93g:90112**
Vickers, G. T. *see* **Hutson, V. C. L., 93g:90112**

Items with secondary classifications in 90D80

Chrobak, Marek (*with* Larmore, Lawrence L.) The server problem and on-line games. **93f:68040**
Cressman, Ross (*with* Dash, A. T.) Strong stability and evolutionarily stable strategies with two types of players. **93a:92007**
Dash, A. T. *see* **Cressman, Ross, 93a:92007**
(Ehtamo, Harri) *see* **Differential games—developments in modelling and computation, 93c:90003** *and* **Dynamic games in economic analysis, 93d:90003**
(Hämäläinen, Raimo P.) *see* **Differential games—developments in modelling and computation, 93c:90003** *and* **Dynamic games in economic analysis, 93d:90003**
Larmore, Lawrence L. *see* **Chrobak, Marek, 93f:68040**
McCardle, Kevin F. Strategic uncertain search. **93a:90027**
Sasaki, Hiroo (*with* Toda, Manabu) Consistency and characterization of the core of two-sided matching problems. **93b:90127**
Tamir, Arie On the core of cost allocation games defined on location problems. (English summary) **93m:90049**
Toda, Manabu *see* **Sasaki, Hiroo, 93b:90127**

Items listed otherwise than by author

Differential games—developments in modelling and computation ★ Differential games—developments in modelling and computation. **93c:90003**
Dynamic games in economic analysis ★ Dynamic games in economic analysis. **93d:90003**
Espoo ★ Differential games—developments in modelling and computation. **93c:90003**
— ★ Dynamic games in economic analysis. **93d:90003**
Lecture Notes in Control and Information Sciences ★ Differential games—developments in modelling and computation. **93c:90003**
— ★ Dynamic games in economic analysis. **93d:90003**
Symposium:
Differential Games and Applications ★ Differential games—developments in modelling and computation. **93c:90003**
— ★ Dynamic games in economic analysis. **93d:90003**

92–XX Biology and other natural sciences, behavioral sciences

Items with secondary classifications in 92–XX

Whittle, Peter A construction for processes with history-dependent transition intensities. (English summary) (*see* **93f:60003**)

92–01 Instructional exposition (textbooks, tutorial papers, etc.)

Hayek Calil, Nácere Mathematics and biology. (Spanish. English and Spanish summaries)

Items with secondary classifications in 92–01

Casti, John L. ★ Reality rules. I. **93i:00010a**
— ★ Reality rules. II. **93i:00010b**
Intriligator, M. D. *see* **Kim, Ki Hang; et al., 93j:90001**
(Janková, Katarína) *see* **Smítalová, Kristína, 93g:92031**
Kim, Ki Hang (*with* Roush, F. W.; Intriligator, M. D.) Overview of mathematical social sciences. **93j:90001**
Roush, F. W. *see* **Kim, Ki Hang; et al., 93j:90001**
Smítalová, Kristína (*with* Šujan, Štefan) ★ A mathematical treatment of dynamical models in biological science. **93g:92031**
Šujan, Štefan *see* **Smítalová, Kristína, 93g:92031**

92–02 Research exposition (monographs, survey articles)

Items with secondary classifications in 92–02

Cressman, Ross ★ The stability concept of evolutionary game theory. **93j:92020**
Ebeling, Werner (*with* Engel-Herbert, H.; Herzel, Hans-Peter) ★ Selbstorganisation in der Zeit. (German) [Self-organization in time] **93d:00019**
Engel-Herbert, H. *see* **Ebeling, Werner; et al., 93d:00019**
Herzel, Hans-Peter *see* **Ebeling, Werner; et al., 93d:00019**
Marchuk, G. I. ★ Математические модели в иммунологии. (Russian. English and Russian summaries) [Mathematical models in immunology] **93h:92020**
McCaskill, John How is genetic information generated? (English summary) (*see* **93d:92001**)
Peretto, Pierre ★ An introduction to the modeling of neural networks. **93m:92006**
(Petrov, P. V.) *see* **Marchuk, G. I., 93h:92020**
Renshaw, Eric ★ Modelling biological populations in space and time. **93a:92013**
Yakovlev, A. Yu. (*with* Yanev, Nikolai M.) ★ Transient processes in cell proliferation kinetics. **93m:92012**
Yanev, Nikolai M. *see* **Yakovlev, A. Yu., 93m:92012**

92–03 Historical (must also be assigned at least one classification number from Section 01)

Fishburn, Peter C. (*with* Monjardet, Bernard) Norbert Wiener on the theory of measurement (1914, 1915, 1921). **93e:92001**
Monjardet, Bernard *see* **Fishburn, Peter C., 93e:92001**
(Wiener, Norbert) *see* **Fishburn, Peter C., 93e:92001**

Items with secondary classifications in 92–03

(Fisher, Ronald Aylmer) *see* **Karlin, Samuel, 93k:01051**
Karlin, Samuel R. A. Fisher and evolutionary theory. **93k:01051**
von Neumann, John The cybernetical movement: von Neumann's letter to Norbert Wiener, 1946. **93k:01053**
Volterra, Vito ★ Leçons sur la théorie mathématique de la lutte pour la vie. (French) [Lessons on the mathematical theory of the struggle for survival] **93k:92011**
(Wiener, Norbert) *see* **von Neumann, John, 93k:01053**

Items listed otherwise than by author

Correspondence:
von Neumann, John–Wiener, Norbert *see* **von Neumann, John, 93k:01053**

92–04 Explicit machine computation and programs (not the theory of computation or programming)

Items with secondary classifications in 92–04

Balasubramanian, Krishnan *see* **Gusfield, Dan; et al., 93f:92018**
Busenberg, Stavros N. *see* **Castillo-Chavez, Carlos; et al., 93c:92005**
Castillo-Chavez, Carlos (*with* Busenberg, Stavros N.; Gerow, Ken) Pair formation in structured populations. **93c:92005**
Chalifour, Alain (*with* Delfour, Michel C.) Optimal distribution of larvicide in running waters. **93b:92009**
Chi, Rui Dong *see* **He, Yu Quan; et al.**
Delfour, Michel C. *see* **Chalifour, Alain, 93b:92009**
Gerow, Ken *see* **Castillo-Chavez, Carlos; et al., 93c:92005**
Gusfield, Dan (*with* Balasubramanian, Krishnan; Naor, Dalit) Parametric optimization of sequence alignment. **93f:92018**
He, Nai Wen *see* **He, Yu Quan; et al.**
He, Yu Quan (*with* Chi, Rui Dong; He, Nai Wen) Lyapunov exponents of the circle map in human hearts. (English summary)
Iannelli, Mimmo (*with* Milner, Fabio A.; Pugliese, Andrea) Analytical and numerical results for the age-structured S-I-S epidemic model with mixed inter-intracohort transmission. **93e:92017**
Milner, Fabio A. *see* **Iannelli, Mimmo; et al., 93e:92017**
Naor, Dalit *see* **Gusfield, Dan; et al., 93f:92018**
Pugliese, Andrea *see* **Iannelli, Mimmo; et al., 93e:92017**

92–06 Proceedings, conferences, collections, etc.

(Andersson, Åke E.) *see* **Theory & control of dynamical systems, 93d:92001**
(Andersson, Stig I.) *see* **Theory & control of dynamical systems, 93d:92001**
(Busenberg, Stavros N.) *see* **Differential equations models in biology, epidemiology and ecology, 93g:92001**
(Džonova-Jerman-Blažič, B.) *see* **Concepts in mathematical chemistry, 93e:92002**
(Harary, Frank) *see* **Applied graph theory and discrete mathematics in chemistry, 93m:92001**
(Holden, Arun V.) *see* **Neural networks—theory and architecture, 93h:92002; Neurocomputers and attention, 93j:92001a** *and* **93j:92001b**
(Kak, Subhash C.) *see* **Networks for neural processing, 93h:92001**
(Krinskii, V. I.) *see* **Waves and patterns in chemical and biological media, 93d:92002**
(Kryukov, V. I.) *see* **Neural networks—theory and architecture, 93h:92002; Neurocomputers and attention, 93j:92001a** *and* **93j:92001b**
(Martelli, Mario Umberto) *see* **Differential equations models in biology, epidemiology and ecology, 93g:92001**
(Mezey, Paul G.) *see* **Applied graph theory and discrete mathematics in chemistry, 93m:92001**
(Ottoson, Ulf) *see* **Theory & control of dynamical systems, 93d:92001**
(Porter, William A.) *see* **Networks for neural processing, 93h:92001**
(Swinney, Harry L.) *see* **Waves and patterns in chemical and biological media, 93d:92002**
(Trinajstić, Nenad) *see* **Applied graph theory and discrete mathematics in chemistry, 93m:92001**

Items listed otherwise than by author

All-Union Workshop:
  Theory of Neural Nets ★ Neural networks—theory and architecture. **93h:92002**
Applied graph theory and discrete mathematics in chemistry ★ Applied graph theory and discrete mathematics in chemistry. **93m:92001**
Birthday:
  Harary, Frank ★ Applied graph theory and discrete mathematics in chemistry. **93m:92001**
Bled ★ Concepts in mathematical chemistry. **93e:92002**
Claremont, CA ★ Differential equations models in biology, epidemiology and ecology. **93g:92001**
Concepts in mathematical chemistry ★ Concepts in mathematical chemistry. **93e:92002**
Conference:
  Differential Equations and Applications to Biology and Population Dynamics ★ Differential equations models in biology, epidemiology and ecology. **93g:92001**
  Mathematical Chemistry ★ Concepts in mathematical chemistry. **93e:92002**
Differential equations models in biology, epidemiology and ecology ★ Differential equations models in biology, epidemiology and ecology. **93g:92001**
Huddinge ★ Theory & control of dynamical systems. **93d:92001**
Lecture Notes in Biomathematics ★ Differential equations models in biology, epidemiology and ecology. **93g:92001**
Meeting:
  Theory & Control of Dynamical Systems ★ Theory & control of dynamical systems. **93d:92001**
Moscow ★ Neurocomputers and attention. Vol. I. **93j:92001a**
— ★ Neurocomputers and attention. Vol. II. **93j:92001b**
Networks for neural processing ★ Networks for neural processing. **93h:92001**
Neural networks—theory and architecture ★ Neural networks—theory and architecture. **93h:92002**
Neurocomputers and attention ★ Neurocomputers and attention. Vol. I. **93j:92001a**
— ★ Neurocomputers and attention. Vol. II. **93j:92001b**
Pushchino ★ Neural networks—theory and architecture. **93h:92002**
— ★ Waves and patterns in chemical and biological media. **93d:92002**
Saskatoon, SK ★ Applied graph theory and discrete mathematics in chemistry. **93m:92001**
Special Issue:
  Networks for neural processing ★ Networks for neural processing. **93h:92001**
Symposium:
  Applied Graph Theory and Discrete Mathematics in Chemistry ★ Applied graph theory and discrete mathematics in chemistry. **93m:92001**
Theory & control of dynamical systems ★ Theory & control of dynamical systems. **93d:92001**
Waves and patterns in chemical and biological media ★ Waves and patterns in chemical and biological media. **93d:92002**
Workshop:
  Neurocomputers and Attention ★ Neurocomputers and attention. Vol. I. **93j:92001a**
  — ★ Neurocomputers and attention. Vol. II. **93j:92001b**
  Waves and Patterns in Biological and Chemical Excitable Media ★ Waves and patterns in chemical and biological media. **93d:92002**

Items with secondary classifications in 92–06

(Cheer, A. Y.) *see* **Fluid dynamics in biology, 93j:76003**
(van Dam, C. P.) *see* **Fluid dynamics in biology, 93j:76003**
(Dress, Andreas W. M.) *see* **Trees and hierarchical structures, 93f:92004**
(Gelenbe, Erol) *see* **Neural networks: advances and applications, 93f:92011**
(Goldstein, Jerome A.) *see* **Differential equations with applications in biology, physics, and engineering, 93a:00021**
(von Haeseler, A.) *see* **Trees and hierarchical structures, 93f:92004**
(Herman, G. T.) *see* **Mathematical methods in tomography, 93d:44001**
(Johnson, Paul E.) *see* **Formal theories of politics, 93d:92018**
(Kappel, Franz) *see* **Differential equations with applications in biology, physics, and engineering, 93a:00021**
(Louis, Alfred K.) *see* **Mathematical methods in tomography, 93d:44001**
(Nadel, Lynn) *see* **Lectures in complex systems, 93h:68003**
(Natterer, F.) *see* **Mathematical methods in tomography, 93d:44001**
(Peyrard, Michel) *see* **Nonlinear coherent structures in physics and biology, 93e:00025**
(Remoissenet, M.) *see* **Nonlinear coherent structures in physics and biology, 93e:00025**
(Rozenberg, Grzegorz) *see* **Lindenmayer systems, 93m:68004**
(Salomaa, Arto) *see* **Lindenmayer systems, 93m:68004**
(Schappacher, Wilhelm) *see* **Differential equations with applications in biology, physics, and engineering, 93a:00021**
(Stein, Daniel L.) *see* **Lectures in complex systems, 93h:68003**

Items listed otherwise than by author

Bielefeld ★ Trees and hierarchical structures. **93f:92004**
Conference:
  Differential Equations and Applications ★ Differential equations with applications in biology, physics, and engineering. **93a:00021**
  Fluid Dynamics in Biology ★ Fluid dynamics in biology. **93j:76003**
  Mathematical Methods in Tomography ★ Mathematical methods in tomography. **93d:44001**
  Trees and Hierarchical Structures ★ Trees and hierarchical structures. **93f:92004**
Contemporary Mathematics ★ Fluid dynamics in biology. **93j:76003**
Differential equations with applications in biology, physics, and engineering ★ Differential equations with applications in biology, physics, and engineering. **93a:00021**
Dijon ★ Nonlinear coherent structures in physics and biology. **93e:00025**
Fluid dynamics in biology ★ Fluid dynamics in biology. **93j:76003**
Formal theories of politics ★ Formal theories of politics. II. **93d:92018**
Lecture Notes in Biomathematics ★ Trees and hierarchical structures. **93f:92004**
Lecture Notes in Mathematics ★ Mathematical methods in tomography. **93d:44001**
Lecture Notes in Physics ★ Nonlinear coherent structures in physics and biology. **93e:00025**
Lectures in complex systems ★ 1990 lectures in complex systems. **93h:68003**
Leibnitz ★ Differential equations with applications in biology, physics, and engineering. **93a:00021**
Lindenmayer systems ★ Lindenmayer systems. **93m:68004**
Mathematical methods in tomography ★ Mathematical methods in tomography. **93d:44001**
Neural networks: advances and applications ★ Neural networks: advances and applications. 2. **93f:92011**
Nonlinear coherent structures in physics and biology ★ Nonlinear coherent structures in physics and biology. **93e:00025**
Oberwolfach ★ Mathematical methods in tomography. **93d:44001**
Santa Fe, NM ★ 1990 lectures in complex systems. **93h:68003**
School:
  Complex Systems ★ 1990 lectures in complex systems. **93h:68003**
Seattle, WA ★ Fluid dynamics in biology. **93j:76003**
Special Issue:
  Formal theories of politics ★ Formal theories of politics. II. **93d:92018**
Trees and hierarchical structures ★ Trees and hierarchical structures. **93f:92004**
Workshop:
  Nonlinear Coherent Structures in Physics and Biology ★ Nonlinear coherent structures in physics and biology. **93e:00025**

92–08 Computational methods

Items with secondary classifications in 92–08

Bracken, Anthony J. (*with* Tuckwell, Henry C.) Simple mathematical models for urban growth.
Fairweather, Graeme (*with* López Marcos, J. C.) A box method for a nonlinear equation of population dynamics. **93c:92006**
Levin, D. A. *see* **Pykh, Yu. A., 93a:92003**
López Marcos, J. C. *see* **Fairweather, Graeme, 93c:92006**
Pykh, Yu. A. (*with* Levin, D. A.) Application of the method of "generated splines" for solving equations of turbulent heat and water exchange in plant cover. (Russian) **93a:92003**
Tuckwell, Henry C. *see* **Bracken, Anthony J.**

92Bxx Mathematical biology in general

92B05 General biology and biomathematics

Andersson, Stig I. *see* **Högfors, Christian, (93d:92001)**
Barr, Lloyd *see* **Lazalde, Carlos A., 93i:92002** *and* **93i:92003**
Brailove, Adam A. The dynamics of two pulse-coupled relaxation oscillators. (English summary) **93f:92001**
Ehresmann, A. C. (*with* Vanbremeersch, J.-P.) Outils mathématiques pour modéliser les systèmes complexes. (English summary) [Mathematical tools for modeling complex systems]
Gunji, Yukio *see* **Konno, Norio, 93f:92002**
Högfors, Christian (*with* Andersson, Stig I.) History dependence. (*see* **93d:92001**)
Hood, L. (*with* Hunkapillar, T.; Solomon, J. E.) Computational problems and the human genome project. (*see* **93g:65178**)
Hunkapillar, T. *see* **Hood, L.; et al., (93g:65178)**
Hutson, V. C. L. (*with* Schmitt, Klaus) Permanence and the dynamics of biological systems. (English summary) **93d:92003**
Jorgensen, David A. *see* **Mahaffy, Joseph M.; et al., 93h:92003**
Kapur, J. N. Some mathematical models in biosciences. (English summary) **93i:92001**
Kelemenová, Alica Minimal context in regenerative *IL*-systems. **93b:92001**
Konno, Norio (*with* Gunji, Yukio) Mathematical construction of an autonomous artificial life. **93f:92002**
Lazalde, Carlos A. (*with* Barr, Lloyd) Four-state models and regulation of contraction of smooth muscle. I. Physical considerations, stability, and solutions. (English summary) **93i:92002**
— (*with* Barr, Lloyd) Four-state models and regulation of contraction of smooth muscle. II. Properties of the solutions and identification. (English summary) **93i:92003**
Losson, Jérôme Bifurcations and chaos in a paradigm equation for delayed mixed feedback. (*see* **93h:68003**)

Lu, Zheng Yi (*with* Takeuchi, Yasuhiro) Permanence and global stability for cooperative Lotka-Volterra diffusion systems. **93j:92002**
Mahaffy, Joseph M. (*with* Jorgensen, David A.; Vanderheyden, Robert L.) Oscillations in a model of repression with external control. (English summary) **93h:92003**
Matthews, Paul C. *see* **Strogatz, Steven H.; et al., 93d:92004**
Mirollo, Renato E. *see* **Strogatz, Steven H.; et al., 93d:92004**
Rosen, Robert On models and modeling. (English summary)
Schmitt, Klaus *see* **Hutson, V. C. L., 93d:92003**
Solomon, J. E. *see* **Hood, L.; et al., (93g:65178)**
Strogatz, Steven H. (*with* Mirollo, Renato E.; Matthews, Paul C.) Coupled nonlinear oscillators below the synchronization threshold: relaxation by generalized Landau damping. **93d:92004**
Takeuchi, Yasuhiro *see* **Lu, Zheng Yi, 93j:92002**
Vanbremeersch, J.-P. *see* **Ehresmann, A. C.**
Vanderheyden, Robert L. *see* **Mahaffy, Joseph M.; et al., 93h:92003**

Items with secondary classifications in 92B05

Armentrout, Steven L. *see* **Reggia, James A.; et al.**
Berezovskii, A. A. *see* **Mitropol'skii, Yu. A.; et al., 93g:35149**
Chou, Hui-Hsien *see* **Reggia, James A.; et al.**
Christakos, George Certain results on spatiotemporal random fields and their applications in environmental research. (English summary) (*see* **93e:00029**)
Dancsó, András (*with* Farkas, Henrik; Farkas, Miklós; Szabó, György) Investigations into a class of generalized two-dimensional Lotka-Volterra schemes. **93a:92008**
Drobyshevich, V. I. (*with* Laevskiĭ, Yu. M.) An algorithm of solution of parabolic equations with different time-steps in subdomains. **93e:65113**
El-Sheikh, M. M. A. A note on the bifurcation of periodic solutions of activator-inhibitor system. **93f:34062**
Farkas, Henrik *see* **Dancsó, András; et al., 93a:92008**
Farkas, Miklós *see* **Dancsó, András; et al., 93a:92008**
Fontana, Walter Functional self-organization in complex systems. (English summary) (*see* **93h:68003**)
Franke, John E. (*with* Yakubu, Abdul-Aziz) Mutual exclusion versus coexistence for discrete competitive systems. **93a:92010**
Kauffman, Stuart A. Random grammars: a new class of models for functional integration and transformation in the biological, neural, and social sciences. (English summary) (*see* **93h:68003**)
Kuruklis, S. A. (*with* Ladas, G.) Oscillations and global attractivity in a discrete delay logistic model. **93b:92013**
Ladas, G. *see* **Kuruklis, S. A., 93b:92013**
Laevskiĭ, Yu. M. *see* **Drobyshevich, V. I., 93e:65113**
Lasota, Andrzej Asymptotic behaviour of randomly perturbed discrete time dynamical systems. **93b:58132**
Leguizamón, Carlos A. *see* **Zaretzky, Alba N., 93h:06020**
Li, Wentian Phenomenology of nonlocal cellular automata. (English summary) **93h:68103**
Matthews, Paul C. (*with* Mirollo, Renato E.; Strogatz, Steven H.) Dynamics of a large system of coupled nonlinear oscillators. **93c:34083**
Mirollo, Renato E. *see* **Matthews, Paul C.; et al., 93c:34083**
Mitropol'skii, Yu. A. (*with* Berezovskii, A. A.; Plotnitskii, T. A.) Problems with free boundaries for a nonlinear evolution equation in problems of metallurgy, medicine and ecology. (Russian. Russian and Ukrainian summaries) **93g:35149**
Othmer, Hans G. The dynamics of forced excitable systems. **93j:34067**
Peng, Yun *see* **Reggia, James A.; et al.**
Plotnitskii, T. A. *see* **Mitropol'skii, Yu. A.; et al., 93g:35149**
Reggia, James A. (*with* Armentrout, Steven L.; Chou, Hui-Hsien; Peng, Yun) Simple systems that exhibit self-directed replication. (English summary)
Strogatz, Steven H. *see* **Matthews, Paul C.; et al., 93c:34083**
Szabó, György *see* **Dancsó, András; et al., 93a:92008**
Winfree, A. T. Multiple stable solutions to the dynamical equations of an excitable medium. **93g:80012**
Wu, Jian Hong Global dynamics of strongly monotone retarded equations with infinite delay. **93g:34117**
Yakubu, Abdul-Aziz *see* **Franke, John E., 93a:92010**
Zaghrout, Afaf A. S. Stability and persistence of facultative mutualism with populations interacting in a food chain. **93b:92020**
Zaretzky, Alba N. (*with* Leguizamón, Carlos A.) The Heyting arrow lattice for qualitative relations in biological systems. **93h:06020**

92B10 Taxonomy, statistics

Althöfer, Ingo An incremental error correcting evaluation algorithm for recursion networks without circuits. (English summary) (*see* **93f:92004**)
Degens, Paul O. (*with* Lausen, Berthold; Vach, Werner) Reconstruction of phylogenies by distance data: mathematical framework and statistical analysis. (*see* **93f:92004**)
(Dress, Andreas W. M.) *see* **Trees and hierarchical structures, 93f:92004**
Fu, Yun-Xin (*with* Li, Wen Hsiung) Construction of linear invariants of phylogenetic inference. **93f:92003**
(von Haeseler, A.) *see* **Trees and hierarchical structures, 93f:92004**
Höhle, Ulrich The Poincaré paradox and the cluster problem. (*see* **93f:92004**)
Lausen, Berthold *see* **Degens, Paul O.; et al., (93f:92004)**
Li, Wen Hsiung *see* **Fu, Yun-Xin, 93f:92003**
Vach, Werner *see* **Degens, Paul O.; et al., (93f:92004)**

Items listed otherwise than by author

Bielefeld ★ Trees and hierarchical structures. **93f:92004**
Conference:
Trees and Hierarchical Structures ★ Trees and hierarchical structures. **93f:92004**
Lecture Notes in Biomathematics ★ Trees and hierarchical structures. **93f:92004**
Trees and hierarchical structures ★ Trees and hierarchical structures. **93f:92004**

Items with secondary classifications in 92B10

Voronin, Yu. A. ★ Начала теории сходства. (Russian) [Elements of similarity theory] **93c:00005**

92B15 General biostatistics [see also 62P10]

Items with secondary classifications in 92B15

Jain, J. P. *see* **Muralidharan, K.**
Muralidharan, K. (*with* Jain, J. P.) Response to selection under nonrandom mating. II. Prediction. (English summary)

92B20 Neural networks [see also 68T05, 82C32, 94Cxx]

Achasova, S. M. ★ Вычисления на нейронных сетях. (Russian. English summary) [Computations on neural networks] **93i:92004**
Aibara, Tsunehiro *see* **Izumida, Masanori; et al., 93i:92006**
Blum, Edward K. *see* **Wang, Xin, 93f:92010**
Borisyuk, G. N. (*with* Borisyuk, R. M.; Kazanovich, Ya. B.; Luzyanina, T. B.; Turova, T. S.; Tsymbalyuk, G. S.) Oscillatory neural networks. Mathematical results and applications. (Russian. English and Russian summaries) **93h:92004**
Borisyuk, R. M. *see* **Borisyuk, G. N.; et al., 93h:92004**
Bramley, R. *see* **Saarinen, S.; et al.**
Bressloff, Paul C. (*with* Stark, Jaroslav) Analysis of associative reinforcement learning in neural networks using iterated function systems. (English summary) **93m:92002**
— (*with* Taylor, John G.) Temporal sequence storage capacity of time-summating neural networks. **93f:92005**
— (*with* Taylor, John G.) Perceptron-like learning in time-summating neural networks. (English summary) **93h:92005**
Budelli, Ruben *see* **Catsigeras, Elenora, 93e:92003**
Bulsari, Abhay Training artificial neural networks for fuzzy logic. (English summary) **93m:92003**
Burton, T. A. Neural networks with memory. **93g:92002**
Caianiello, Eduardo R. A remark on neural nets. (English summary)
Caticha, Nestor *see* **Kinouchi, Osame**
Catsigeras, Elenora (*with* Budelli, Ruben) Limit cycles of a bineuronal network model. **93e:92003**
Chen, Zhen Xiang *see* **Guo, Dong Hui; et al., 93m:92004**
Chu, Yen Ping A neural-based Boolean function generator. (English summary) **93k:92001**
Chua, Leon O. (*with* Shi, Bertram E.) Multiple layer cellular networks—a tutorial. **93f:92006**
Ciliz, M. Kemal Equilibrium point basins of analog neural networks. (English summary) **93i:92005**
Cosnard, Michel (*with* Tchuente, Maurice; Tindo, Gilbert) Sequences generated by neuronal automata with memory. **93b:92002**
Cottrell, Marie Mathematical analysis of a neural network with inhibitory coupling. **93b:92003**
Cybenko, G. *see* **Saarinen, S.; et al.**
Deng, S.-W. (*with* Ersoy, Okan K.) Parallel, self-organizing, hierarchical neural networks with forward-backward training. (English summary) **93j:92003**
Dewilde, Patrick M. Conditions for active states in neural networks. (*see* **93j:92001b**)
Diamantaras, K. *see* **Kung, S. Y.; et al., 93d:92005**
Dong, Dawei W. (*with* Hopfield, John J.) Dynamic properties of neural networks with adapting synapses. (English summary) **93g:92003**
Ersoy, Okan K. *see* **Deng, S.-W., 93j:92003**
Faure, Robert[1] Neuronal networks and percussions. (*see* **93f:34004**)
Fourneau, Jean Michel (*with* Gelenbe, Erol) Random neural networks with multiple classes of signals. (English summary) **93k:92002**
Fukai, T. (*with* Shiino, M.) Study of self-inhibited analogue neural networks using the self-consistent signal-to-noise analysis. (English summary) **93g:92004**
Gan, Qiang (*with* Wei, Yu) A model for non-fully interconnected neural networks. (Chinese. English and Chinese summaries)
Gelenbe, Erol *see* **Fourneau, Jean Michel, 93k:92002** *and* **Neural networks: advances and applications, 93f:92011**
Golden, Richard M. Stability and optimization analyses of the generalized brain-state-in-a-box neural network model. (English summary)
Goles Ch., Eric (*with* Martínez, Servet A.) Automata networks and optimization. (English summary) **93f:92007**
Guo, Dong Hui (*with* Liu, Rui Tang; Chen, Zhen Xiang; Wu, Bo Xi) A modified Hopfield model of neural networks. (Chinese. English and Chinese summaries) **93m:92004**
Hirsch, Morris W. Dynamics and neural networks. **93j:92004**
Hopfield, John J. *see* **Dong, Dawei W., 93g:92003**
Huang, Ben Xiong (*with* Zhou, Xiao Mai; Xiong, Zhao Fei) Application of neural networks to soft-decision decoding for block error-correcting codes. (Chinese. English summary)
Ikai, T. *see* **Kawamura, Y., 93h:92006**
Ivanov, S. K. *see* **Zuev, Yu. A.**
Izhikevich, E. M. (*with* Malinetskii, G. G.) On the possible role of chaos in neural systems. (Russian)
Izumida, Masanori (*with* Murakami, Kenji; Aibara, Tsunehiro) Analysis of neural network energy functions using standard forms. (English summary) **93i:92006**
Karnaukhov, A. V. (*with* Karnaukhova, E. V.) The neural network as an object of dynamical description. **93i:92007**
Karnaukhova, E. V. *see* **Karnaukhov, A. V., 93i:92007**
Kawamura, Y. (*with* Ikai, T.) A relation between neural network learning and control theory. (English summary) **93h:92006**
Kazanovich, Ya. B. *see* **Borisyuk, G. N.; et al., 93h:92004**
Kinouchi, Osame (*with* Caticha, Nestor) Optimal generalization in perceptrons. (English summary)
Klingen, Norbert *see* **Kürten, Karl E., 93m:92005**
Kothari, S. C. *see* **Lee, Kesig; et al., 93h:92007**

Kumar, Satish (*with* Satsangi, Prem S.) System dynamics simulation of Hopfield neural networks. (English summary)
Kung, S. Y. (*with* Diamantaras, K.; Mao, W. D.; Taur, J. S.) Generalized perceptron networks with nonlinear discriminant functions. **93d:92005**
Kürten, Karl E. (*with* Klingen, Norbert) Hadamard design and artificial neural nets. (English summary) **93m:92005**
Kuznetsov, O. P. Holographic models of information processing in neural networks. (Russian)
Lee, Kesig (*with* Kothari, S. C.; Shin, Dongwan) Probabilistic information capacity of Hopfield associative memory. **93h:92007**
Liu, Rui Tang *see* **Guo, Dong Hui; et al., 93m:92004**
Luzyanina, T. B. *see* **Borisyuk, G. N.; et al., 93h:92004**
Malinetskii, G. G. *see* **Izhikevich, E. M.**
Mao, W. D. *see* **Kung, S. Y.; et al., 93d:92005**
Martínez, Servet A. *see* **Goles Ch., Eric, 93f:92007**
Matsuoka, Kiyotoshi Absolute stability of neural networks. **93a:92001**
Matthews, Michael B. Approximating nonlinear fading-memory operators using neural network models. (English summary) **93j:92005**
Monasson, Rémi Properties of neural networks sorting spatially correlated patterns. **93g:92005**
Morris, A. Julian *see* **Wang, Zhenni; et al., 93i:92008**
Murakami, Kenji *see* **Izumida, Masanori; et al., 93i:92006**
Nozawa, Hiroshi A neural network model as a globally coupled map and applications based on chaos. (English summary) **93h:92008**
O'Kane, Dominic (*with* Treves, Alessandro) Short- and long-range connections in autoassociative memory. (English summary)
Pasemann, Frank Foliated weight spaces and symmetries of feedforward networks. (English summary) **93k:92003**
Peretto, Pierre ★ An introduction to the modeling of neural networks. **93m:92006**
Pires Idiart, M. A. (*with* Theumann, Alba) Neural network with hierarchical clustering near saturation. **93f:92008**
Roque Da Silva Filho, Antônio C. Analysis of the equilibrium properties of a continuous neural network made of excitatory and inhibitory neurons. (English summary) **93j:92006**
Saarinen, S. (*with* Bramley, R.; Cybenko, G.) Ill-conditioning in neural network training problems. (English summary)
Saaty, Thomas L. (*with* Vargas, Luis G.) A model of neural impulse firing and synthesis. (English summary)
Sakaguchi, Hidetsugu Self-organization of tree structures. (English summary)
Satsangi, Prem S. *see* **Kumar, Satish**
Schempp, Walter Bohr's indeterminacy principle in quantum holography, self-adaptive neural networks, cortical self-organization, molecular computers, magnetic resonance imaging, and solitonic nanotechnology.
Seifert, Benedict G. Binary classifiers, perceptrons and connectedness in metric spaces and graphs. (English summary) **93k:92004**
Shi, Bertram E. *see* **Chua, Leon O., 93f:92006**
Shiino, M. *see* **Fukai, T., 93g:92004**
Shin, Dongwan *see* **Lee, Kesig; et al., 93h:92007**
Sira-Ramirez, Hebertt J. *see* **Żak, Stanisław H., 93a:92002**
Sontag, Eduardo D. Feedforward nets for interpolation and classification. **93f:92009**
Stark, Jaroslav *see* **Bressloff, Paul C., 93m:92002**
Taborda Duarte, J. *see* **Vilela Mendes, R., 93b:92006**
Tan, Shao Hua (*with* Vandewalle, Joos) Principles of dynamical neural network structure and adaptive learning. **93b:92004**
Taur, J. S. *see* **Kung, S. Y.; et al., 93d:92005**
Taylor, John G. *see* **Bressloff, Paul C., 93f:92005** *and* **93h:92005**
Tchuente, Maurice *see* **Cosnard, Michel; et al., 93b:92002**
Tham, Ming T. *see* **Wang, Zhenni; et al., 93i:92008**
Theumann, Alba *see* **Pires Idiart, M. A., 93f:92008**
Tindo, Gilbert *see* **Cosnard, Michel; et al., 93b:92002**
Treves, Alessandro *see* **O'Kane, Dominic**
Tsymbalyuk, G. S. *see* **Borisyuk, G. N.; et al., 93h:92004**
Turova, T. S. *see* **Borisyuk, G. N.; et al., 93h:92004**
Urahama, Kiichi Convergence properties of numerical simulation for neural networks. (English summary) **93h:92009**
Vandewalle, Joos *see* **Tan, Shao Hua, 93b:92004**
Vargas, Luis G. *see* **Saaty, Thomas L.**
Venkatesh, Santosh S. Robustness in neural computation: random graphs and sparsity. **93e:92004**
Vidyasagar, M. Improved neural networks for analog-to-digital conversion. **93b:92005**
Vilela Mendes, R. (*with* Taborda Duarte, J.) Vector fields and neural networks. **93b:92006**
Wang, Jun A recurrent neutral network for real-time matrix inversion. (English summary)
Wang, Xin (*with* Blum, Edward K.) Discrete-time versus continuous-time models of neural networks. **93f:92010**
Wang, Zhenni (*with* Tham, Ming T.; Morris, A. Julian) Multilayer feedforward neural networks: a canonical form approximation of nonlinearity. (English summary) **93i:92008**
Wei, Yu *see* **Gan, Qiang**
Wu, Bo Xi *see* **Guo, Dong Hui; et al., 93m:92004**
Xiong, Zhao Fei *see* **Huang, Ben Xiong; et al.**
You, Xiao Hu Explicit solutions of the optimum weights of layered neural networks. (English summary) **93j:92007**
Żak, Stanisław H. (*with* Sira-Ramirez, Hebertt J.) On the adaptation algorithms for feedforward neural networks. **93a:92002**
Zhou, Xiao Mai *see* **Huang, Ben Xiong; et al.**
Zuev, Yu. A. (*with* Ivanov, S. K.) "Accelerated" perceptron and self-learning procedures in weighted voting. (Russian)

Items listed otherwise than by author

Neural networks: advances and applications ★ Neural networks: advances and applications. 2. **93f:92011**

Items with secondary classifications in 92B20

de Almeida, R. M. C. *see* **Arenzon, J. J.; et al., 93g:82073**
Anthony, Martin (*with* Biggs, Norman) ★ Computational learning theory. **93f:68078**
Aoki, Kenichi (*with* Kanezashi, Masakazu; Itoh, Masaru; Matsuura, Haruki) Power generation scheduling by neural network. (English summary)
Apolloni, Bruno (*with* de Falco, Diego) Probabilistic aspects of machine learning. **93a:82045**
Arenzon, J. J. (*with* de Almeida, R. M. C.; Iglesias, J. R.) A multineuron interaction model for neural networks. (English summary) **93g:82073**
Aubin, Jean-Pierre (*with* Seube, Nicolas) Apprentissage adaptatif de lois de rétroaction de systèmes contrôlés par résaux de neurones. (English summary) [Adaptive learning of feedback control laws by neural networks] **93e:68108**
Balter, B. M. (*with* Popova, I. V.) Neural networks with feedback from the current pattern to neuron response and threshold: recognition of correlated and nonbinary patterns. (Russian. English and Russian summaries)
Baram, Yoram (*with* Sal'ee, Dror) Lower bounds on the capacities of binary and ternary networks storing sparse random vectors. (English summary) **93i:68147**
Benveniste, Albert *see* **Zhang, Qinghua, (93g:93006)**
Biggs, Norman *see* **Anthony, Martin, 93f:68078**
Billings, S. A. *see* **Chen, Sheng[2], 93f:93013**
Blanchard, Philippe (*with* Combe, Ph.; Nencka, H.; Rodriguez, Roger) Stochastic dynamical models for synaptic connections. (English summary) **93h:82041**
Bollé, D. (*with* Dupont, Patrick Jean; Vinck, B.) On the overlap dynamics of multi-state neural networks with a finite number of patterns. **93h:82042**
— (*with* Vinck, B.; Zagrebnov, V. A.) On the parallel dynamics of the Q-state Potts and Q-Ising neural networks. (English summary) **93j:82055**
Bös, S. *see* **Kühn, Reimer**
Botelho, Fernanda (*with* Garzon, Max) On dynamical properties of neural networks. **93h:68101**
Bovier, Anton (*with* Gayrard, Véronique) Rigorous bounds on the storage capacity of the dilute Hopfield model. (English summary) **93k:82049**
Bower, James M. *see* **Nelson, Mark E., 93h:92015**
Brunel, N. (*with* Nadal, J.-P.; Toulouse, G.) Information capacity of a perceptron. (English summary)
Buckley, James J. (*with* Hayashi, Yoichi; Czogała, Ernest) On the equivalence of neural nets and fuzzy expert systems. (English summary) **93m:68158**
Caianiello, Eduardo R. (*with* Ceccarelli, Michele; Marinaro, Maria) Can spurious states be useful? **93c:68086**
Campbell, Bruce W. *see* **Franceschetti, Donald R.; et al.**
Campbell, Ian Colin Grant *see* **Wong, K. Y. M., 93b:82058**
Ceccarelli, Michele *see* **Caianiello, Eduardo R.; et al., 93c:68086**
Chen, Han-lin (*with* Schempp, Walter) The uncertainty inequality in quantum holography, Bohr's indeterminacy principle, and synchronized neural networks. (English summary) (*see* **93k:26001**)
Chen, Sheng[2] (*with* Billings, S. A.) Neural networks for nonlinear dynamic system modelling and identification. (English summary) **93f:93013**
Chen, Wen Tsuen (*with* Hsieh, Kuen Rong) A neural sorting network with $O(1)$ time complexity.
Cheng, Shi Xin *see* **You, Xiao Hu**
Cheng, Yi Min *see* **Guo, Li[2]; et al.**
Christodoulou, Manolis A. Neural networks in control. (English summary) (*see* **93f:93005**)
Chu, Yen Ping (*with* Hsieh, C. M.) An artificial neural network model with modified perceptron algorithm. (English summary) **93h:68120**
Chui, Charles K. (*with* Li, Xin) Approximation by ridge functions and neural networks with one hidden layer. **93d:41018**
Churchland, Paul M. Representation and high-speed computation in neural networks. (*see* **93b:68073**)
Combe, Ph. *see* **Blanchard, Philippe; et al., 93h:82041**
Comon, P. Classification supervisée par réseaux multicouches. (English and French summaries) [Supervised classification by multilayer networks]
Coolen, A. C. C. (*with* Lenders, L. G. V. M.) Dual processes in neural network models. I. Neural dynamics versus dynamics of learning. **93f:82037a**
— (*with* Lenders, L. G. V. M.) Dual processes in neural network models. II. Analysis of zero-temperature fixed-point equations. **93f:82037b**
Cromme, Ludwig J. (*with* Diener, Immo) Fixed point theorems for discontinuous mapping. **93d:90013**
Cybenko, G. Correction: "Approximation by superpositions of a sigmoidal function" [Math. Control Signals Systems 2 (1989), no. 4, 303–314; MR 90m:41033]. **93g:41012**
Czogała, Ernest *see* **Buckley, James J.; et al., 93m:68158**
Dasgupta, Chandan Neural network modeling of associative memory: beyond the Hopfield model. (English summary) **93f:82038**
Dechter, Rina *see* **Pinkas, Gadi, 93k:68085**
Der, R. (*with* Dotsenko, Vladimir S.; Tirozzi, Brunello) Modified pseudo-inverse neural networks storing correlated patterns. **93h:82043**
Diamond, Phil (*with* Fomenko, I. V.) Robustness of representations in multilayer feedforward neural networks. (English summary) **93m:41020**
Diener, Immo *see* **Cromme, Ludwig J., 93d:90013**
Di Massimo, C. *see* **Willis, M. J.; et al., 93i:93084**
Dotsenko, Vladimir S. *see* **Der, R.; et al., 93h:82043**
Dupont, Patrick Jean *see* **Bollé, D.; et al., 93h:82042**
Engel, Andreas *see* **Reimers, L.**
Faber, Vance (*with* Mycielski, Jan) Applications of learning theorems. **93b:65022**
de Falco, Diego *see* **Apolloni, Bruno, 93a:82045**
Fomenko, I. V. *see* **Diamond, Phil, 93m:41020**
Franceschetti, Donald R. (*with* Jones, D. Wayne; Campbell, Bruce W.; Hanneken, John W.) Hamming sets, Ising sets, cellular automata, neural nets, and the random walk. (English summary)
Fukuda, Toshio *see* **Watanabe, Keigo; et al., (93g:93004)**
Galushkin, A. I. (*with* Sudarikov, V. A.; Shabanov, E. V.) Neuromathematics: methods for solving problems on neurocomputers. (Russian. English summary) **93b:68020**

Garlauskas, Algis (*with* Shimoliunas, Algirdas; Gutman, Aron) Some logic functions realized on a stationary nonlinear dendrite. I. Exciting synapses. (English, Russian and Lithuanian summaries)
Garzon, Max *see* **Botelho, Fernanda**, **93h:68101**
Gawthrop, P. J. *see* **Hunt, K. J.; et al.**, **93i:93002**
Gayrard, Véronique Thermodynamic limit of the q-state Potts-Hopfield model with infinitely many patterns. (English summary) **93g:82075**
— *see also* **Bovier, Anton**, **93k:82049**
(Gelenbe, Erol) *see* **Neural networks**, **93i:68010**
Geszti, Tamás Hydrodynamics of learning vector quantization. **93c:82039**
Graudenz, Dirk Multi-state spin glasses, neural networks and generalized subgraph polynomials. (English summary) **93d:05147**
Guo, Li² (*with* Jin, Da Sheng; Cheng, Yi Min) Design and implementation of discrete-time neural networks. (Chinese. English and Chinese summaries)
Gutman, Aron *see* **Garlauskas, Algis; et al.**
Han, Zhen Xiang *see* **Wen, Fu Shuan**
Hanneken, John W. *see* **Franceschetti, Donald R.; et al.**
Haussler, David Decision-theoretic generalizations of the PAC model for neural net and other learning applications. (English summary) **93i:68149**
Hayashi, Yoichi *see* **Buckley, James J.; et al.**, **93m:68158**
Hérault, Laurent (*with* Niez, Jean-Jacques) Neural networks & combinatorial optimization: a study of NP-complete graph problems. (English summary) (*see* **93i:68010**)
Hoffmann, Achim G. Connectionist functionality and the emergent network behavior. **93d:68036**
(Holden, Arun V.) *see* **Neurocomputers and attention**, **93j:92001a** *and* **93j:92001b**
Hong Tuan, R. Abstraction hierarchy in neural networks: a rigorous treatment. (English summary) (*see* **93i:68010**)
Hoppensteadt, F. C. Signal processing by model neural networks. (English summary)
Hsieh, C. M. *see* **Chu, Yen Ping**, **93h:68120**
Hsieh, Kuen Rong *see* **Chen, Wen Tsuen**
Hunt, K. J. (*with* Sbarbaro, D.; Żbikowski, R.; Gawthrop, P. J.) Neural networks for control systems—a survey. (English summary) **93i:93002**
Iglesias, J. R. *see* **Arenzon, J. J.; et al.**, **93g:82073**
Ito, Yoshifusa Finite mapping by neural networks and truth functions. (English summary) **93j:68065**
Itoh, Masaru *see* **Aoki, Kenichi; et al.**
Jang, Gyu-sang *see* **Vemuri, V.**, **93a:65184**
Jeffries, Clark ★ Code recognition and set selection with neural networks. **93i:68067**
Jin, Da Sheng *see* **Guo, Li²; et al.**
Jones, D. Wayne *see* **Franceschetti, Donald R.; et al.**
Kalaba, Robert *see* **Moore, James E., II; et al.**, **93g:90048**
Kanezashi, Masakazu *see* **Aoki, Kenichi; et al.**
Kim, Moon-Hyun *see* **Moore, James E., II; et al.**, **93g:90048**
Kocić, V. Lj. (*with* Ladas, G.) Linearized oscillations for difference equations. **93e:39007**
(Kryukov, V. I.) *see* **Neurocomputers and attention**, **93j:92001a** *and* **93j:92001b**
Kühn, Reimer (*with* Bös, S.) Statistical mechanics for neural networks with continuous-time dynamics. (English summary)
Kydd, R. R. *see* **Wright, J. J.**
Ladas, G. *see* **Kocić, V. Lj.**, **93e:39007**
Lamy, D. Modelling and sensitivity analysis of neural networks. (English summary) (*see* **93g:93004**)
Lenders, L. G. V. M. *see* **Coolen, A. C. C.**, **93f:82037a** *and* **93f:82037b**
Li, Xin *see* **Chui, Charles K.**, **93d:41018**
Li, Zheng Mao *see* **Miao, Yong Feng**
Liao, Xiao Xin Stability of nonlinear continuous neural networks. (Chinese summary)
Linkens, D. A. *see* **Nie, Jun Hong**
Linkevich, A. D. A sequential pseudo-inverse learning rule for networks of formal neurons. (English summary) **93f:82039**
Liu, Chang Xiao *see* **Liu, Jun; et al.**
Liu, Jun (*with* Wang, Zhao Ming; Liu, Chang Xiao) A study on relations between inputs and outputs of neurons and computational properties of neural networks. (Chinese. English and Chinese summaries)
Marinaro, Maria *see* **Caianiello, Eduardo R.; et al.**, **93c:68086**
Matsuura, Haruki *see* **Aoki, Kenichi; et al.**
Miao, Yong Feng (*with* Li, Zheng Mao) Prediction of nonlinear systems on the basis of multilayer neural networks. (Chinese. English and Chinese summaries)
Mikhailov, A. S. (*with* Poteryaiko, I. Yu.) Attractive separatrix loops in connectionist models. **93c:58124**
Montague, G. A. *see* **Willis, M. J.; et al.**, **93i:93084**
Moore, James E., II (*with* Kim, Moon-Hyun; Seo, Jong-Gook; Wu, Ying; Kalaba, Robert) Linear programming, recurrent associative memories, and feed-forward neural networks. **93g:90048**
Morris, A. Julian *see* **Willis, M. J.; et al.**, **93i:93084**
Mühlenbein, Heinz Parallel genetic algorithms and neural networks as learning machines. (English summary) **93i:68152**
Mycielski, Jan *see* **Faber, Vance**, **93b:65022**
Nadal, J.-P. *see* **Brunel, N.; et al.**
Nelson, Mark E. (*with* Bower, James M.) Dynamics of neural excitability. (English summary) **93h:92015**
Nencka, H. *see* **Blanchard, Philippe; et al.**, **93h:82041**
von Neumann, John The cybernetical movement: von Neumann's letter to Norbert Wiener, 1946. **93k:01053**
Nie, Jun Hong (*with* Linkens, D. A.) Neural network-based approximate reasoning: principles and implementation. (English summary)
Niez, Jean-Jacques *see* **Hérault, Laurent**, **(93i:68010)**
de Oliveira, P. M. C. *see* **Penna, T. J. P.**
Pao, Yoh-Han (*with* Phillips, Stephen M.; Sobajic, Dejan J.) Neural-net computing and the intelligent control of systems. (English summary) **93h:93046**
Penna, T. J. P. (*with* de Oliveira, P. M. C.) Culture and evolution on populations of neural networks. (English summary)
Phillips, Stephen M. *see* **Pao, Yoh-Han; et al.**, **93h:93046**
Pinkas, Gadi (*with* Dechter, Rina) An improved connectionist activation function for energy minimization. (English summary) **93k:68085**
Pires Idiart, M. A. (*with* Theumann, Alba) The space of interactions in neural networks with hierarchical cluster organization. (English summary) **93i:82056**
Popova, I. V. *see* **Balter, B. M.**
Poteryaiko, I. Yu. *see* **Mikhailov, A. S.**, **93c:58124**
Radons, G. (*with* Schuster, H. G.; Werner, D.) Fractal measures and diffusion as results of learning in neural networks. (English summary) **93m:82033**
Reif, John H. (*with* Tate, Stephen R.) On threshold circuits and polynomial computation. (English summary) **93i:68091**
Reimers, L. (*with* Engel, Andreas) Generalization from educated teachers. (English summary)
Rodriguez, Roger *see* **Blanchard, Philippe; et al.**, **93h:82041**
Ruan, Jiong A stability analysis of Hopfield's continuous neural networks with asymmetric weighted matrices. (Chinese. English and Chinese summaries)
Saad, D. Training recurrent neural networks via trajectory modification. **93g:68114**
Sakaguchi, Hidetsugu Learning rules for an oscillator network. (English summary) **93m:82034**
Sal'ee, Dror *see* **Baram, Yoram**, **93i:68147**
Sbarbaro, D. *see* **Hunt, K. J.; et al.**, **93i:93002**
Scacciatelli, E. (*with* Tirozzi, Brunello) Fluctuation of the free energy in the Hopfield model. **93c:82041**
Schempp, Walter *see* **Chen, Han-lin**, **(93k:26001)**
Schuster, H. G. *see* **Radons, G.; et al.**, **93m:82033**
Seo, Jong-Gook *see* **Moore, James E., II; et al.**, **93g:90048**
Seube, Nicolas *see* **Aubin, Jean-Pierre**, **93e:68108**
Seung, H. S. (*with* Sompolinsky, H.; Tishby, N.) Statistical mechanics of learning from examples. **93c:82042**
Shabanov, E. V. *see* **Galushkin, A. I.; et al.**, **93b:68020**
Shcherbina, M. V. The Hopfield model in the multicomponent limit. (Russian) **93c:82043**
Sheen, Yuh Tay *see* **Su, Yaw Terng**, **93k:93060**
Shimoliunas, Algirdas *see* **Garlauskas, Algis; et al.**
Sobajic, Dejan J. *see* **Pao, Yoh-Han; et al.**, **93h:93046**
Sompolinsky, H. *see* **Seung, H. S.; et al.**, **93c:82042**
Su, Yaw Terng (*with* Sheen, Yuh Tay) Neural network for system identification. (English summary) **93k:93060**
Sudarikov, V. A. *see* **Galushkin, A. I.; et al.**, **93b:68020**
Tate, Stephen R. *see* **Reif, John H.**, **93i:68091**
Tham, Ming T. *see* **Willis, M. J.; et al.**, **93i:93084**
Theumann, Alba *see* **Pires Idiart, M. A.**, **93i:82056**
Tirozzi, Brunello *see* **Scacciatelli, E.**, **93c:82041** *and* **Der, R.; et al.**, **93h:82043**
Tishby, N. *see* **Seung, H. S.; et al.**, **93c:82042**
Toulouse, G. *see* **Brunel, N.; et al.**
Tsai, Jyun-Hwei *see* **Wu, Chwan-Hwa**, **(93g:65178)**
Tyson, John J. *see* **Weimar, Jörg R.; et al.**, **(93g:65178)**
Tzafestas, Spyros G. *see* **Watanabe, Keigo; et al.**, **(93g:93004)**
Vemuri, V. (*with* Jang, Gyu-sang) Inversion of Fredholm integral equations of the first kind with fully connected neural networks. **93a:65184**
Vermet, Franck Convergence de la variance de l'énergie libre pour le modèle de Hopfield. (English and French summaries) [Convergence of the variance of the free energy in the Hopfield model] **93h:82045**
Vinck, B. *see* **Bollé, D.; et al.**, **93h:82042** *and* **93j:82055**
Vogt, H. (*with* Zippelius, A.) Invariant recognition in Potts glass neural networks. **93c:82044**
Wang, Zhao Ming *see* **Liu, Jun; et al.**
Watanabe, Keigo (*with* Fukuda, Toshio; Tzafestas, Spyros G.) An adaptive control for CARMA systems using linear neural networks. (English summary) (*see* **93g:93004**)
Watson, Layne T. *see* **Weimar, Jörg R.; et al.**, **(93g:65178)**
Weimar, Jörg R. (*with* Tyson, John J.; Watson, Layne T.) Third generation cellular automaton for modeling excitable media. (English summary) (*see* **93g:65178**)
Wen, Fu Shuan (*with* Han, Zhen Xiang) An artificial neural network model for a class of nonlinear programming problems. (Chinese. English and Chinese summaries)
Werner, D. *see* **Radons, G.; et al.**, **93m:82033**
(Wiener, Norbert) *see* **von Neumann, John**, **93k:01053**
Willis, M. J. (*with* Montague, G. A.; Di Massimo, C.; Tham, Ming T.; Morris, A. Julian) Artificial neural networks in process estimation and control. (English summary) **93i:93084**
Wong, K. Y. M. (*with* Campbell, Ian Colin Grant) Competitive attraction in neural networks with sign-constrained weights. **93b:82058**
Wright, J. J. (*with* Kydd, R. R.) The electroencephalogram and cortical neural networks. (English summary)
Wu, Chwan-Hwa (*with* Tsai, Jyun-Hwei) An asynchronous relaxation method for the parallel simulation of the learning of recurrent neural networks. (English summary) (*see* **93g:65178**)
Wu, Ying *see* **Moore, James E., II; et al.**, **93g:90048**
Yoshida, Toshinobu Rapid learning method for multilayered neural networks using two-dimensional conjugate gradient search. (English summary) **93e:68110**
You, Xiao Hu (*with* Cheng, Shi Xin) On minimum-error-probability channel equalization and its realizations using k-nearest neighbor rule and neural nets. (English summary)
Zagrebnov, V. A. *see* **Bollé, D.; et al.**, **93j:82055**
Żbikowski, R. *see* **Hunt, K. J.; et al.**, **93i:93002**
Zhang, Qinghua (*with* Benveniste, Albert) Approximation by wavelet networks. (English summary) (*see* **93g:93006**)
Zippelius, A. *see* **Vogt, H.**, **93c:82044**

Items listed otherwise than by author

Correspondence:
von Neumann, John–Wiener, Norbert *see* **von Neumann, John**, **93k:01053**
Moscow ★ Neurocomputers and attention. Vol. I. **93j:92001a**

— ★ Neurocomputers and attention. Vol. II. **93j:92001b**
Neural networks ★ Neural networks. **93i:68010**
Neurocomputers and attention ★ Neurocomputers and attention. Vol. I. **93j:92001a**
— ★ Neurocomputers and attention. Vol. II. **93j:92001b**
Workshop:
Neurocomputers and Attention ★ Neurocomputers and attention. Vol. I. **93j:92001a**
— ★ Neurocomputers and attention. Vol. II. **93j:92001b**

92B99 None of the above, but in this section

Items with secondary classifications in 92B99

Chao, Min Te From animal trapping to type-token. **93a:60053**
Grabosch, Annette A functional equation from cell kinetics. **93f:92014**
Győri, István (*with* Ladas, G.) ★ Oscillation theory of delay differential equations. **93m:34109**
Keener, James P. The core of the spiral. (English summary) **93f:35112**
Ladas, G. *see* **Győri, István, 93m:34109**
Mimura, Masayasu *see* **Ohta, Takao, 93f:35115**
Ohta, Takao (*with* Mimura, Masayasu) Pattern dynamics in excitable reaction-diffusion media. **93f:35115**
Ulmer, W. Solution spectrum of nonlinear diffusion equations. (English summary) **93h:82047**

92Cxx Physiological, cellular and medical topics

Gulrajani, Ramesh M. *see* **Iakovidis, Ilias**
Iakovidis, Ilias (*with* Gulrajani, Ramesh M.) Improving Tikhonov regularization with linearly constrained optimization: application to the inverse epicardial potential solution. (English summary)

92C05 Biophysics

Barcilon, Victor Ion flow through narrow membrane channels. I. (English summary) **93m:92007**
— (*with* Chen, D.-P.; Eisenberg, R. S.) Ion flow through narrow membrane channels. II. (English summary) **93m:92008**
Chen, D.-P. *see* **Barcilon, Victor; et al., 93m:92008**
Eisenberg, R. S. *see* **Barcilon, Victor; et al., 93m:92008**
Holden, Arun V. *see* **Rubio, J. E., (93e:00026)**
Kevorkian, J. *see* **Pernarowski, Mark; et al., 93h:92010** *and* **(93g:92001)**
Levin, D. A. *see* **Pykh, Yu. A., 93a:92003**
Miura, Robert M. *see* **Pernarowski, Mark; et al., 93h:92010** *and* **(93g:92001)**
Pernarowski, Mark (*with* Miura, Robert M.; Kevorkian, J.) The Sherman-Rinzel-Keizer model for bursting electrical activity in the pancreatic β-cell. (English summary) (*see* **93g:92001**)
— (*with* Miura, Robert M.; Kevorkian, J.) Perturbation techniques for models of bursting electrical activity in pancreatic β-cells. (English summary) **93h:92010**
Pykh, Yu. A. (*with* Levin, D. A.) Application of the method of "generated splines" for solving equations of turbulent heat and water exchange in plant cover. (Russian) **93a:92003**
Rubio, J. E. (*with* Holden, Arun V.) The optimal control of an excitable neural fibre. (*see* **93e:00026**)

Items with secondary classifications in 92C05

Aldis, G. K. *see* **Barry, S. I., 93k:76108**
Arino, Ovide (*with* Mortabit, Abdessamad) A periodicity result for a nonlinear functional integral equation. **93i:34126**
— *see also* **Sanchez, Eva; et al., 93e:47090**
Barry, S. I. (*with* Aldis, G. K.) Radial flow through deformable porous shells. (English summary) **93k:76108**
Ben-Haim, Shlomo *see* **Fruchter, Gila, 93a:92004**
Booth, James G. A note on a one-compartment model with clustering. **93j:60138**
Bower, James M. *see* **Nelson, Mark E., 93h:92015**
Chalyi, A. V. *see* **Tsekhmister, Ya. V., 93j:82052**
Fontana, Walter Functional self-organization in complex systems. (English summary) (*see* **93h:68003**)
Fruchter, Gila (*with* Ben-Haim, Shlomo) Dynamic properties of cardiovascular systems. **93a:92004**
Kimmel, Marek *see* **Sanchez, Eva; et al., 93e:47090**
Lighthill, Michael James Acoustic streaming in the ear itself. **93d:76081**
— Biofluiddynamics: a survey. (English summary) **93k:76130**
McQueen, David M. *see* **Peskin, Charles S., 93k:76133**
Morgan, Alexander P. (*with* Sommese, Andrew J.) Errata: "Coefficient-parameter polynomial continuation" [Appl. Math. Comput. **29** (1989), no. 2, part II, 123–160; MR 90f:58018].
Mortabit, Abdessamad *see* **Arino, Ovide, 93i:34126**
Nelson, Mark E. (*with* Bower, James M.) Dynamics of neural excitability. (English summary) **93h:92015**
Peskin, Charles S. (*with* McQueen, David M.) Computational biofluid dynamics. (English summary) **93k:76133**
Sanchez, Eva (*with* Arino, Ovide; Kimmel, Marek) Noncompact semigroups of operators generated by cell kinetics models. **93e:47090**
Schempp, Walter Bohr's indeterminacy principle in quantum holography, self-adaptive neural networks, cortical self-organization, molecular computers, magnetic resonance imaging, and solitonic nanotechnology.
Sommese, Andrew J. *see* **Morgan, Alexander P.**
Strogatz, Steven H. *see* **Tyson, John J., 93a:80014**
Tsekhmister, Ya. V. (*with* Chalyi, A. V.) Hopf bifurcation in fluctuation models of self-organization processes. (Russian. English, Russian and Ukrainian summaries) **93j:82052**
Tyson, John J. (*with* Strogatz, Steven H.) The differential geometry of scroll waves. **93a:80014**
Vlad, Marcel Ovidiu A renormalization approach to a class of exponential random processes with application to the bronchial tree. **93f:82026**
Winfree, A. T. Multiple stable solutions to the dynamical equations of an excitable medium. **93g:80012**

92C10 Biomechanics [see also 73P20]

Collins, J. J. (*with* Stewart, Ian N.) Symmetry-breaking bifurcation: a possible mechanism for 2 : 1 frequency-locking in animal locomotion. (English summary) **93h:92011**
Stewart, Ian N. *see* **Collins, J. J., 93h:92011**

Items with secondary classifications in 92C10

Awrejcewicz, Jan ★ Bifurcation and chaos in coupled oscillators. **93f:58144**
Cummings, Peter T. *see* **Ford, Roseanne M., 93h:92018**
Easwaran, C. V. (*with* Kokal, S. L.) A theory for transient discharge in tubes with applications to a new type of viscometer. (English summary) **93h:76024**
Ford, Roseanne M. (*with* Cummings, Peter T.) On the relationship between cell balance equations for chemotactic cell populations. (English summary) **93h:92018**
Kokal, S. L. *see* **Easwaran, C. V., 93h:76024**

92C15 Developmental biology, pattern formation

Benson, Debbie L. *see* **Maini, Philip K.; et al.**
Bentil, D. E. (*with* Murray, J. D.) A perturbation analysis of a mechanical model for stable spatial patterning in embryology. (English summary)
— (*with* Murray, J. D.) On the mechanical theory for biological pattern formation. (English summary) **93j:92008**
Bodnar, O. Ya. Geometry of phyllotaxis. (Russian. English and Russian summaries) **93g:92006**
de Boer, Martin J. M. (*with* Fracchia, F. David; Prusinkiewicz, Przemysław) A model for cellular development in morphogenetic fields. (English summary) (*see* **93m:68004**)
Bruno, William J. *see* **Pearson, John E., 93i:92009**
Cruywagen, G. C. (*with* Murray, J. D.) On a tissue interaction model for skin pattern formation. **93d:92006**
De, S. S. (*with* Dutta, P.) Pattern generations in RNA and protein synthesis. (English summary) **93h:92012**
Ding, Da Fu (*with* Totafurno, John; Trainor, L. E. H.) Bifurcation analysis of a nonlinear field model of regeneration. **93g:92007**
Dutta, P. *see* **De, S. S., 93h:92012**
Ebihara, Yukiyoshi (*with* Furusho, Yasuhiro; Nagai, Toshitaka) Singular solutions of traveling waves in a chemotactic model. **93f:92012**
El-Sheikh, M. M. A. A note on the bifurcation of periodic solutions of activator-inhibitor systems. (English summary) **93j:92009**
— A note on the bifurcation of periodic solutions of activator-inhibitor system. (English summary) **93h:92013**
Fracchia, F. David *see* **de Boer, Martin J. M.; et al., (93m:68004)**
Furusho, Yasuhiro *see* **Ebihara, Yukiyoshi; et al., 93f:92012**
Godrèche, C. (*with* Kostov, Ivan K.; Yekutieli, I.) Topological correlations in cellular structures and planar graph theory. (English summary)
Kobayashi, Ryo *see* **Mimura, Masayasu; et al., 93d:92007**
Kostov, Ivan K. *see* **Godrèche, C.; et al.**
Maini, Philip K. (*with* Benson, Debbie L.; Sherratt, Jonathan A.) Pattern formation in reaction-diffusion models with spatially inhomogeneous diffusion coefficients. (English summary)
Meron, Ehud Pattern formation in excitable media. (English summary)
Mikhailov, A. S. Kinematics of wave patterns in excitable media. (*see* **93e:00026**)
Mimura, Masayasu (*with* Kobayashi, Ryo; Tsujikawa, Tohru) Formation of band-type electric patterns in Characean cells. **93d:92007**
Murray, J. D. *see* **Cruywagen, G. C., 93d:92006; Bentil, D. E., 93j:92008**
Nagai, Toshitaka *see* **Ebihara, Yukiyoshi; et al., 93f:92012**
Pearson, John E. (*with* Bruno, William J.) Pattern formation in an $N + Q$ component reaction-diffusion system. (English summary) **93i:92009**
Prusinkiewicz, Przemysław *see* **de Boer, Martin J. M.; et al., (93m:68004)**
Sherratt, Jonathan A. *see* **Maini, Philip K.; et al.**
Totafurno, John *see* **Ding, Da Fu; et al., 93g:92007**
Trainor, L. E. H. *see* **Ding, Da Fu; et al., 93g:92007**
Tsujikawa, Tohru *see* **Mimura, Masayasu; et al., 93d:92007**
Yekutieli, I. *see* **Godrèche, C.; et al.**

Items with secondary classifications in 92C15

Fourcade, B. Theoretical results on toroidal vesicles. (English and French summaries) **93h:82073**
Golubitsky, Martin *see* **Stewart, Ian N., 93k:00005**
Graham, Robert (*with* Tél, Tamás) Nonequilibrium potentials in spatially extended pattern forming systems. (English summary) **93f:82054**
(Hargittai, István) *see* **Spiral symmetry, 93h:00014**
(Henriques, José Marques) *see* **Fractals in the fundamental and applied sciences, 93g:58102**
Jean, Roger V. Nomothetical modelling of spiral symmetry in biology. (*see* **93i:52002**)
Jorgensen, David A. *see* **Mahaffy, Joseph M.; et al., 93h:92003**
Kaneko, Kunihiko Overview of coupled map lattices. (English summary) **93h:58100**
Mahaffy, Joseph M. (*with* Jorgensen, David A.; Vanderheyden, Robert L.) Oscillations in a model of repression with external control. (English summary) **93h:92003**
Meduna, Alexandr Symbiotic EOL systems. (English summary) **93k:68059**
(Peitgen, Heinz-Otto) *see* **Fractals in the fundamental and applied sciences, 93g:58102**
(Penedo, Luís Filipe) *see* **Fractals in the fundamental and applied sciences, 93g:58102**
(Pickover, Clifford A.) *see* **Spiral symmetry, 93h:00014**
Robinson, T. *see* **Siromoney, Rani; et al., (93m:68004)**

Siromoney, Rani (*with* Subramanian, K. G.; Robinson, T.) Map L systems with multiple markers. (English summary) (*see* **93m:68004**)
Stewart, Ian N. (*with* Golubitsky, Martin) ★ Fearful symmetry. **93k:00005**
Subramanian, K. G. *see* **Siromoney, Rani; et al.,** (**93m:68004**)
Tél, Tamás *see* **Graham, Robert**, **93f:82054**
Vanderheyden, Robert L. *see* **Mahaffy, Joseph M.; et al.**, **93h:92003**

Items listed otherwise than by author

Fractals in the fundamental and applied sciences ★ Fractals in the fundamental and applied sciences. **93g:58102**
IFIP Conference:
Fractals in the Fundamental and Applied Sciences ★ Fractals in the fundamental and applied sciences. **93g:58102**
Lisbon ★ Fractals in the fundamental and applied sciences. **93g:58102**
Spiral symmetry ★ Spiral symmetry. **93h:00014**

92C20 Neural biology

Abbott, L. F. *see* **Vanvreeswijk, Carl**
Blanchard, Philippe (*with* Combe, Ph.; Nencka, H.; Rodriguez, Roger) Stochastic dynamical aspects of neuronal activity. (English summary) **93j:92010**
Borisova, O. V. Determination of the basic probabilistic characteristics of a process that describes the oscillations of the membrane potential of a neuron. (Russian) **93d:92008**
Bower, James M. *see* **Nelson, Mark E.**, **93h:92015**
Chen, Pei-Li Qualitative analysis of myelinated nerve fibers with point-node FitzHugh-Nagumo dynamic system. **93c:92001**
Combe, Ph. *see* **Blanchard, Philippe; et al.**, **93j:92010**
Funaro, Daniele Approximation by the Legendre collocation method of a model problem in electrophysiology. (English summary) **93h:92014**
Holden, Arun V. *see* **Lábos, E.; et al.**, **93i:92010**
Kalachëv, L. V. A relaxation wave solution of the FitzHugh-Nagumo equations. (English summary) **93j:92011**
Kallianpur, Gopinath Stochastic differential equation models for spatially distributed neurons and propagation of chaos for interacting systems. (English summary) **93j:92012**
Kydd, R. R. *see* **Wright, J. J.**
Lábos, E. (*with* Holden, Arun V.; Zhang, Henggui) The behaviour of the Lyapunov exponent of a map simulating neural activity. (English summary) **93i:92010**
Lasota, Andrzej (*with* Mackey, Michael C.; Tyrcha, Joanna) The statistical dynamics of recurrent biological events. (English summary) **93m:92009**
Lauffenburger, Douglas A. *see* **Linderman, Jennifer J.**, **93f:92013**
Linderman, Jennifer J. (*with* Lauffenburger, Douglas A.) ★ Receptor/ligand sorting along the endocytic pathway. (English. English summary) **93f:92013**
Mackey, Michael C. *see* **Lasota, Andrzej; et al.**, **93m:92009**
Nakagawa, Masahiro (*with* Okabe, Masaki) On the chaos region of the modified Nagumo-Sato model. **93c:92002**
Nelson, Mark E. (*with* Bower, James M.) Dynamics of neural excitability. (English summary) **93h:92015**
Nencka, H. *see* **Blanchard, Philippe; et al.**, **93j:92010**
Okabe, Masaki *see* **Nakagawa, Masahiro**, **93c:92002**
Rodriguez, Roger *see* **Blanchard, Philippe; et al.**, **93j:92010**
Terman, David The transition from bursting to continuous spiking in excitable membrane models. **93g:92008**
Teterin, A. N. A geometric approach to classification—a new model of neuron activity. (Russian. Russian summary) **93j:92013**
Tyrcha, Joanna *see* **Lasota, Andrzej; et al.**, **93m:92009**
Vanvreeswijk, Carl (*with* Abbott, L. F.) Self-sustained firing in populations of integrate-and-fire neurons. (English summary)
Wright, J. J. (*with* Kydd, R. R.) The electroencephalogram and cortical neural networks. (English summary)
Zhang, Henggui *see* **Lábos, E.; et al.**, **93i:92010**

Items with secondary classifications in 92C20

Azencott, Robert Boltzmann machines: high-order interactions and synchronous learning. (*see* **93e:62005**)
Brailove, Adam A. The dynamics of two pulse-coupled relaxation oscillators. (English summary) **93f:92001**
Clarkson, Peter A. *see* **Nucci, Maria Clara**, **93d:35009**
Cybenko, G. Correction: "Approximation by superpositions of a sigmoidal function" [Math. Control Signals Systems **2** (1989), no. 4, 303–314; MR 90m:41033]. **93g:41012**
De Oliveira, Luiz A. F. Existence of travelling waves in the FitzHugh-Nagumo equation. **93b:35071**
Dvořák, Ivan (*with* Šiška, Jaromír) The theory of deterministic chaos and some of its applications. II. (Czech) **93e:58127**
Engelbrecht, Jüri K. ★ An introduction to asymmetric solitary waves. **93h:35176**
Estévez, P. G. The direct method and the singular manifold method for the FitzHugh-Nagumo equation. (English summary) **93k:35261**
Holden, Arun V. (*with* Tucker, J. V.; Thompson, B. C.) Excitable media as computational systems. (*see* **93e:00026**)
— *see also* **Rubio, J. E.**, (**93e:00026**)
Jackson, Dennis Eugene Error estimates for the semidiscrete Galerkin approximations of the FitzHugh-Nagumo equations. **93f:65075**
Nucci, Maria Clara (*with* Clarkson, Peter A.) The nonclassical method is more general than the direct method for symmetry reductions. An example of the FitzHugh-Nagumo equation. **93d:35009**
O'Kane, Dominic (*with* Treves, Alessandro) Short- and long-range connections in autoassociative memory. (English summary)
(Peipman, T.) *see* **Engelbrecht, Jüri K.**, **93h:35176**
Rubio, J. E. (*with* Holden, Arun V.) The optimal control of an excitable neural fibre. (*see* **93e:00026**)
Šiška, Jaromír *see* **Dvořák, Ivan**, **93e:58127**
Thompson, B. C. *see* **Holden, Arun V.; et al.**, (**93e:00026**)
Treves, Alessandro *see* **O'Kane, Dominic**
Tucker, J. V. *see* **Holden, Arun V.; et al.**, (**93e:00026**)

92C30 Physiology (general)

Asaithambi, N. S. (*with* Garner, J. B.) Taylor series solution of a class of diffusion problems in physiology. (English summary) **93g:92009**
Balchen, Jens Glad *see* **Olsen, Odd Arild**
Binding, P. A. *see* **Herzog, Walter**
Cai, Z.-S. *see* **Chicone, Carmen; et al.**, **93m:92010**
Chi, Rui Dong *see* **He, Yu Quan; et al.**
Chicone, Carmen (*with* Cai, Z.-S.; King, P. D.; Forker, E. L.) A parameter identification problem arising from a model of canalicular bile formation. (English summary) **93m:92010**
Cronin, J. A singularly perturbed model of a cardiac fiber. **93c:92003**
Forker, E. L. *see* **Chicone, Carmen; et al.**, **93m:92010**
Garner, J. B. *see* **Asaithambi, N. S.**, **93g:92009**
He, Nai Wen *see* **He, Yu Quan; et al.**
He, Yu Quan (*with* Chi, Rui Dong; He, Nai Wen) Lyapunov exponents of the circle map in human hearts. (English summary)
Herzog, Walter (*with* Binding, P. A.) Predictions of antagonistic muscular activity using nonlinear optimization. (English summary)
Iwanaga, Hiroaki *see* **Tsuda, Ichiro; et al.**, **93g:92010**
King, P. D. *see* **Chicone, Carmen; et al.**, **93m:92010**
Milner, Fabio A. Numerical method for a model of inhomogeneous muscle fibers. (English summary) **93k:92005**
Olsen, Odd Arild (*with* Balchen, Jens Glad) Structured modeling of fish physiology. (English summary)
Répaci, Antonino (*with* Vacca, M. T.) Propagation phenomena in systems of excitable cells—solution of an inverse problem. (English summary)
Tahara, Takashi *see* **Tsuda, Ichiro; et al.**, **93g:92010**
Tsuda, Ichiro (*with* Tahara, Takashi; Iwanaga, Hiroaki) Chaotic pulsation in human capillary vessels and its dependence on mental and physical conditions. (English summary) **93g:92010**
Tyrcha, Joanna Asymptotic stability of the cell cycle models in the case of the exponential and the linear growth. (*see* **93a:60004**)
Vacca, M. T. *see* **Répaci, Antonino**

Items with secondary classifications in 92C30

Barr, Lloyd *see* **Lazalde, Carlos A.**, **93i:92002** *and* **93i:92003**
Ben-Haim, Shlomo *see* **Fruchter, Gila**, **93a:92004**
Fruchter, Gila (*with* Ben-Haim, Shlomo) Dynamic properties of cardiovascular systems. **93a:92004**
Jorgensen, David A. *see* **Mahaffy, Joseph M.; et al.**, **93h:92027**
Lazalde, Carlos A. (*with* Barr, Lloyd) Four-state models and regulation of contraction of smooth muscle. I. Physical considerations, stability, and solutions. (English summary) **93i:92002**
— (*with* Barr, Lloyd) Four-state models and regulation of contraction of smooth muscle. II. Properties of the solutions and identification. (English summary) **93i:92003**
Mahaffy, Joseph M. (*with* Jorgensen, David A.; Vanderheyden, Robert L.) Stability results for a model of repression with external control. (English summary) **93h:92027**
Marschner, Ian C. Robust methods for dependent cell pedigree data. (English summary)
Matthews, Paul C. *see* **Strogatz, Steven H.; et al.**, **93d:92004**
Mirollo, Renato E. *see* **Strogatz, Steven H.; et al.**, **93d:92004**
Siegel, Ralph M. (*with* Tresser, Charles; Zettler, George) A decoding problem in dynamics and in number theory. (English summary) **93i:11151**
Strogatz, Steven H. (*with* Mirollo, Renato E.; Matthews, Paul C.) Coupled nonlinear oscillators below the synchronization threshold: relaxation by generalized Landau damping. **93d:92004**
Tresser, Charles *see* **Siegel, Ralph M.; et al.**, **93i:11151**
Vanderheyden, Robert L. *see* **Mahaffy, Joseph M.; et al.**, **93h:92027**
Zettler, George *see* **Siegel, Ralph M.; et al.**, **93i:11151**

92C35 Physiological flow [see also 76Z05]

Fogelson, Aaron L. Continuum models of platelet aggregation: formulation and mechanical properties. **93e:92005**
McNabb, Alex (*with* Parshotam, Aroon; Wake, Graeme) Outputs and time lags for linear bioreactors. (English summary) **93h:92016**
Natterer, F. Sampling in fan beam tomography. (English summary) **93m:92011**
Parshotam, Aroon *see* **McNabb, Alex; et al.**, **93h:92016**
Peskin, Charles S. Two examples of mathematics and computing in the biological sciences: blood flow in the heart and molecular dynamics. (*see* **93d:01002**)
Wake, Graeme *see* **McNabb, Alex; et al.**, **93h:92016**

Items with secondary classifications in 92C35

Aldis, G. K. *see* **Barry, S. I.; et al.**, **93c:76089**
Barry, S. I. (*with* Parker, K. H.; Aldis, G. K.) Fluid flow over a thin deformable porous layer. **93c:76089**
Britton, N. F. A new method for mass transport problems with an application to haemofilters. **93a:76111**
Halpern, D. (*with* Secomb, T. W.) The squeezing of red blood cells through parallel-sided channels with near-minimal widths. (English summary)
Parker, K. H. *see* **Barry, S. I.; et al.**, **93c:76089**
Secomb, T. W. *see* **Halpern, D.**

92C40 Biochemistry, molecular biology

Grabosch, Annette A functional equation from cell kinetics. **93f:92014**

Items with secondary classifications in 92C40

Alabau, Fatiha A method for proving uniqueness theorems for the stationary semiconductor device and electrochemistry equations. **93d:78006**
Balasubramanian, Krishnan *see* **Gusfield, Dan; et al., 93f:92018**
Davies, M. A. (*with* Moon, F. C.) 3-D spatial chaos in the elastica and the spinning top: Kirchhoff analogy. (English summary) **93m:58107**
Demetrius, Lloyd Thermodynamic perturbations of molecular systems. (English summary)
Gusfield, Dan (*with* Balasubramanian, Krishnan; Naor, Dalit) Parametric optimization of sequence alignment. **93f:92018**
Kaliappan, P. *see* **Vani, P. K.; et al., 93m:35107**
Lipiński, S. Solitons in a one-dimensional degenerate Hubbard model. **93c:82064**
Moon, F. C. *see* **Davies, M. A., 93m:58107**
Naor, Dalit *see* **Gusfield, Dan; et al., 93f:92018**
Ramanujam, G. Alagar *see* **Vani, P. K.; et al., 93m:35107**
Vani, P. K. (*with* Ramanujam, G. Alagar; Kaliappan, P.) Painlevé analysis and particular solutions of a coupled nonlinear reaction diffusion system. (English summary) **93m:35107**

92C45 Kinetics in biochemical problems (pharmacokinetics, enzyme kinetics, etc.) [see also 80A30]

Alsholm, Preben Nonexistence of periodic solutions in a model of continuous fermentation. (English summary) **93h:92017**
Cummings, Peter T. *see* **Ford, Roseanne M., 93h:92018**
Ford, Roseanne M. (*with* Cummings, Peter T.) On the relationship between cell balance equations for chemotactic cell populations. (English summary) **93h:92018**
Limić, N. Relationship between compartmental masses and transition rates in stochastic compartmental models. (English summary)
Mackey, Michael C. (*with* Schwegler, Helmut) Ensemble and trajectory statistics in a nonlinear partial differential equation. (English summary) **93k:92006**
Schwegler, Helmut *see* **Mackey, Michael C., 93k:92006**
Yakovlev, A. Yu. (*with* Yanev, Nikolaĭ M.) ★ Transient processes in cell proliferation kinetics. **93m:92012**
Yanev, Nikolaĭ M. *see* **Yakovlev, A. Yu., 93m:92012**

Items with secondary classifications in 92C45

Dahhou, B. *see* **Zeng, F. Y.; et al.**
(Hargittai, István) *see* **Spiral symmetry, 93h:00014**
Holmåker, Kjell Optimal control problems with applications to the elimination of substrate diffusing and convecting through immobilized enzyme. **93b:49042**
Huang, Wên Chang (*with* Puri, Prem S.) A queueing process with the possibility of customers becoming servers. **93b:60217**
Nihtilä, M. T. *see* **Zeng, F. Y.; et al.**
(Pickover, Clifford A.) *see* **Spiral symmetry, 93h:00014**
Puri, Prem S. *see* **Huang, Wên Chang, 93b:60217**
Turitsyn, S. K. On a Toda lattice model with a transversal degree of freedom. Sufficient criterion of blow-up in the continuum limit. (English summary) **93k:58207**
Zeng, F. Y. (*with* Dahhou, B.; Nihtilä, M. T.) Adaptive control of a nonlinear fermentation process via MRAC technique. (English summary)

Items listed otherwise than by author

Spiral symmetry ★ Spiral symmetry. **93h:00014**

92C50 Medical applications (general)

Adam, John A. The dynamics of growth-factor-modified immune response to cancer growth: one-dimensional models. (English summary) **93j:92014**
Arnol'd, V. I. Cardiac arrhythmias and circle mappings. **93e:92007**
Bassanezi, Rodney C. *see* **Costa, M. I. S.; et al., 93j:92015**
Ben-Haim, Shlomo *see* **Fruchter, Gila, 93a:92004**
Boldrini, José Luiz *see* **Costa, M. I. S.; et al., 93j:92015**
Calderón, Calixto P. (*with* Kwembe, Tor A.) Diverse ideas in modeling tumor growth. (English and Spanish summaries) **93h:92019**
Chaplain, M. A. J. (*with* Sleeman, B. D.) A mathematical model for the growth and classification of a solid tumor: a new approach via nonlinear elasticity theory using strain-energy functions. (English summary)
Costa, M. I. S. (*with* Boldrini, José Luiz; Bassanezi, Rodney C.) Optimal chemical control of populations developing drug resistance. (English summary) **93j:92015**
Deribas, A. A. Indeterminism in medicine. (Russian. Russian summary)
Fruchter, Gila (*with* Ben-Haim, Shlomo) Dynamic properties of cardiovascular systems. **93a:92004**
Glass, Leon Cardiac arrhythmias and circle maps—a classical problem. **93e:92006**
Greensite, Fred A new method for regularization of the inverse problem of electrocardiography. (English summary) **93f:92015**
Holden, Arun V. (*with* Zhang, Henggui) Nonlinear wave phenomena in cardiac tissue. (English summary) (*see* **93f:00015**)
Iakovidis, Ilias (*with* Martin, Clyde Franklin) A model study of instability of the inverse problem in electrocardiography. **93b:92007**
Keener, James P. Uses and abuses of numerical methods in cardiology. (*see* **93b:65004**)
Kwembe, Tor A. *see* **Calderón, Calixto P., 93h:92019**
Leguizamón, Carlos A. (*with* Zaretzky, Alba N.) The algebraic relational theory applied to low energy effects in malignant cells. (English summary)
Marchuk, G. I. ★ Математические модели в иммунологии. (Russian. English and Russian summaries) [Mathematical models in immunology] **93h:92020**
Martin, Clyde Franklin *see* **Iakovidis, Ilias, 93b:92007**
Perelson, Alan S. Mathematical approaches in immunology. (English summary) **93g:92011**
(Petrov, P. V.) *see* **Marchuk, G. I., 93h:92020**
Raphael, Christopher Radiation therapy treatment planning: an $\mathscr{L}^2$ approach. (English summary) **93j:92016**
Sleeman, B. D. *see* **Chaplain, M. A. J.**
Zaretzky, Alba N. *see* **Leguizamón, Carlos A.**
Zhang, Henggui *see* **Holden, Arun V., (93f:00015)**

Items with secondary classifications in 92C50

Ahmed, N. U. Optimal control of hydrodynamic flow with possible application to artificial heart. **93e:49053**
Arjas, Elja (*with* Haara, Pentti) Observation scheme and likelihood. **93m:60091**
Berezovskiĭ, A. A. (*with* Kudaeva, F. Kh.) Canonical form of problems with free boundaries in problems of hypothermia and cryodestruction of biological tissue. (Russian. Russian summary) (*see* **93m:00016**)
— *see also* **Mitropol'skiĭ, Yu. A.; et al., 93g:35149**
Bornemann, Folkmar A. An adaptive multilevel approach to parabolic equations. III. 2D error estimation and multilevel preconditioning. **93g:65126**
Haara, Pentti *see* **Arjas, Elja, 93m:60091**
Khanin, L. G. (*with* Rachev, Svetlozar T.; Yakovlev, A. Yu.) On the optimal control of cancer radiotherapy for nonhomogeneous cell populations. (English summary) **93j:60015**
Kudaeva, F. Kh. *see* **Berezovskiĭ, A. A., (93m:00016)**
Mitropol'skiĭ, Yu. A. (*with* Berezovskiĭ, A. A.; Plotnitskiĭ, T. A.) Problems with free boundaries for a nonlinear evolution equation in problems of metallurgy, medicine and ecology. (Russian. Russian and Ukrainian summaries) **93g:35149**
Morgan, Alexander P. (*with* Sommese, Andrew J.) Errata: "Coefficient-parameter polynomial continuation" [Appl. Math. Comput. **29** (1989), no. 2, part II, 123–160; MR 90f:58018].
Plotnitskiĭ, T. A. *see* **Mitropol'skiĭ, Yu. A.; et al., 93g:35149**
Rachev, Svetlozar T. *see* **Khanin, L. G.; et al., 93j:60015**
Sommese, Andrew J. *see* **Morgan, Alexander P.**
Yakovlev, A. Yu. *see* **Khanin, L. G.; et al., 93j:60015**

92C55 Tomography [see also 44A12, 65R10]

Cheney, Margaret (*with* Isaacson, David) Invariant imbedding, layer-stripping, and impedance imaging. (*see* **93e:00023**)
Faridani, Adel (*with* Ritman, Erik L.; Smith, Kennan T.) Local tomography. **93b:92008**
Grünbaum, F. Alberto Diffuse tomography: a refined model. (*see* **93d:44001**)
— An inverse problem in transport theory: diffuse tomography. (*see* **93e:00023**)
Herzog, H. *see* **Natterer, F., 93a:92005**
Isaacson, David *see* **Cheney, Margaret, (93e:00023)**
Louis, Alfred K. Mathematical questions of a biomagnetic imaging problem. (English summary) (*see* **93d:44001**)
Mukhometov, R. G. An estimate for the stability of the solution of a computer tomography problem. (Russian. Russian summary) (*see* **93e:00018**)
Natterer, F. (*with* Herzog, H.) Attenuation correction in positron emission tomography. **93a:92005**
Ritman, Erik L. *see* **Faridani, Adel; et al., 93b:92008**
Salzberg, Pablo M. An application of finite field theory to computerized tomography: a spatial limited angle model. (English summary) **93j:92017**
Smith, Kennan T. *see* **Faridani, Adel; et al., 93b:92008**

Items with secondary classifications in 92C55

Armitage, D. H. (*with* Goldstein, Myron) Nonuniqueness for the Radon transform. **93c:44004**
De Pierro, Alvaro R. Multiplicative iterative methods in computed tomography. **93f:65092**
Desbat, L. Efficient sampling on coarse grids in tomography. (English summary) **93m:65178**
Gardner, Richard J. Sets determined by finitely many X-rays. **93e:52002**
Gel'fand, M. S. (*with* Goncharov, A. B.) Spatial rotational alignment of identical particles given their projections: theory and practice. **93c:44006**
Goldstein, Myron *see* **Armitage, D. H., 93c:44004**
Goncharov, A. B. Three-dimensional reconstruction of arbitrarily arranged identical particles given their projections. **93c:44005**
— *see also* **Gel'fand, M. S., 93c:44006**
Grangeat, Pierre Mathematical framework of cone beam 3D reconstruction via the first derivative of the Radon transform. (English summary) **93h:44002**
Hawkins, W. G. (*with* Yang, N.-C.; Leichner, P. K.) Theorems for the number of zeros of the projection radial modulators of the 2D exponential Radon transform. (English summary) **93g:44006**
Katsevich, A. I. (*with* Ramm, A. G.) Filtered back projection method for inversion of incomplete tomographic data. **93c:44009**
Kress, Rainer (*with* Zinn, Axel) Three-dimensional reconstructions in inverse obstacle scattering. **93g:78021**
Kuchment, Peter On positivity problems for the Radon transform and some related transforms. (English summary) **93k:44002**
Kumazawa, Itsuo *see* **Ogawa, Hidemitsu, 93h:44003**
Leichner, P. K. *see* **Hawkins, W. G.; et al., 93g:44006**
Louis, Alfred K. Medical imaging: state of the art and future development. (English summary) **93g:65163**
Madych, Wally R. Image reconstruction in Hilbert space. (English summary) **93g:44011**
Ogawa, Hidemitsu (*with* Kumazawa, Itsuo) Radon transform and analog coding. **93h:44003**
Ramm, A. G. (*with* Zaslavsky, Alexander I.) Singularities of the Radon transform. **93i:44003**
— *see also* **Katsevich, A. I., 93c:44009**
Reis, Maria Luiza (*with* Roberty, Nilson Costa) Maximum entropy algorithms for image reconstruction from projections. (English summary) **93f:65019**
Roberty, Nilson Costa *see* **Reis, Maria Luiza, 93f:65019**
Yang, N.-C. *see* **Hawkins, W. G.; et al., 93g:44006**
Zaslavsky, Alexander I. *see* **Ramm, A. G., 93i:44003**
Zinn, Axel *see* **Kress, Rainer, 93g:78021**
Zwaan, M. Dynamic MRI reconstruction as a moment problem. (English summary) **93i:42008**

92C60 Medical epidemiology

Anderson, Roy M. *see* **Swinton, Jonathan; et al.** *and* **Garnett, Geoffrey P.; et al.**
Artzrouni, Marc A modeled time-varying density function for the incubation period of AIDS. (English summary)
Blanchard, Philippe (*with* Krüger, Tyll) Critical parameters and threshold properties for epidemic dynamical systems on random graphs. (*see* **93g:81002**)
Brunham, Robert C. *see* **Swinton, Jonathan; et al.** *and* **Garnett, Geoffrey P.; et al.**
Castillo-Chavez, Carlos *see* **Huang, Wen Zhang; et al., 93d:92009**
Chalifour, Alain (*with* Delfour, Michel C.) Optimal distribution of larvicide in running waters. **93b:92009**
Cooke, Kenneth L. *see* **Huang, Wen Zhang; et al., 93d:92009**
Delfour, Michel C. *see* **Chalifour, Alain, 93b:92009**
Garnett, Geoffrey P. (*with* Swinton, Jonathan; Brunham, Robert C.; Anderson, Roy M.) Gonococcal infection, infertility, and population growth. II. The influence of heterogeneity in sexual behaviour. (English summary)
— *see also* **Swinton, Jonathan; et al.**
Greenhalgh, David Some results for an SEIR epidemic model with density dependence in the death rate. (English summary) **93f:92016**
Huang, Wen Zhang (*with* Cooke, Kenneth L.; Castillo-Chavez, Carlos) Stability and bifurcation for a multiple-group model for the dynamics of HIV/AIDS transmission. **93d:92009**
Kault, David Abraham Modelling the effects of AIDS on gonorrhea epidemiology. (English summary)
Kirane, M. (*with* Kouachi, S.) Asymptotic behaviour for a system describing epidemics with migration and spatial spread of infection. (English summary) **93j:92018**
Kouachi, S. *see* **Kirane, M., 93j:92018**
Krüger, Tyll *see* **Blanchard, Philippe, (93g:81002)**
Ramacharyulu, N. Ch. Pattabhi *see* **Srinivas, N. C., 93g:92012**
Rossi, Carla A mover/stayer model for HIV epidemic in Italy. (English summary) (*see* **93g:62001**)
Srinivas, N. C. (*with* Ramacharyulu, N. Ch. Pattabhi) On the model of a virus disease with mutual interference. (English summary) **93g:92012**
Swinton, Jonathan (*with* Garnett, Geoffrey P.; Brunham, Robert C.; Anderson, Roy M.) Gonococcal infection, infertility, and population growth. I. Endemic states in behaviourally homogeneous growing populations. (English summary)
— *see also* **Garnett, Geoffrey P.; et al.**

Items with secondary classifications in 92C60

Adkison, Milo D. Parameter estimation for models of chaotic time series. (English summary) **93j:58087**
Brand, Richard J. *see* **Kenley, Susan S.; et al., 93e:92018**
Busenberg, Stavros N. *see* **Castillo-Chavez, Carlos; et al., 93c:92005**; **93h:92033** *and* **Differential equations models in biology, epidemiology and ecology, 93g:92001**
Castillo-Chavez, Carlos (*with* Busenberg, Stavros N.; Gerow, Ken) Pair formation in structured populations. **93c:92005**
— (*with* Busenberg, Stavros N.) On the solution of the two-sex mixing problem. (English summary) **93h:92033**
Chen, Robert W. (*with* Zame, Alan) An urn model with some applications. **93h:60015**
Chiang, Chin Long *see* **Kenley, Susan S.; et al., 93e:92018**
Garnick, Eric Niche breadth in parasites: an evolutionarily stable strategy model, with special reference to the protozoan parasite *Leishmania*. (English summary)
Gerow, Ken *see* **Castillo-Chavez, Carlos; et al., 93c:92005**
Kenley, Susan S. (*with* Chiang, Chin Long; Brand, Richard J.) A two-state recurrent stochastic model with time-dependent transition rates. (English summary) **93e:92018**
Lee, Elisa T. ★ Statistical methods for survival data analysis. **93m:62216**
(Martelli, Mario Umberto) *see* **Differential equations models in biology, epidemiology and ecology, 93g:92001**
Thieme, Horst R. Stability change of the endemic equilibrium in age-structured models for the spread of $S \to I \to R$ type infectious diseases. (English summary) **93h:92034**
Zame, Alan *see* **Chen, Robert W., 93h:60015**
Zhornitskii, A. B. A new complex of models of the objective function in health care management. (Russian)

Items listed otherwise than by author

Claremont, CA ★ Differential equations models in biology, epidemiology and ecology. **93g:92001**
Conference:
Differential Equations and Applications to Biology and Population Dynamics ★ Differential equations models in biology, epidemiology and ecology. **93g:92001**
Differential equations models in biology, epidemiology and ecology ★ Differential equations models in biology, epidemiology and ecology. **93g:92001**
Lecture Notes in Biomathematics ★ Differential equations models in biology, epidemiology and ecology. **93g:92001**

92C99 None of the above, but in this section

Items with secondary classifications in 92C99

Di Stasio, M. (*with* Seno, F.; Stella, A. L.) Vesicles on a hierarchical lattice: an exact renormalization group approach. **93d:82042**
Holmåker, Kjell Global asymptotic stability for a stationary solution of a system of integro-differential equations describing the formation of liver zones. (English summary) **93m:45003**
Iordache, O. Dyadic frames for intermittency. Perturbed models. **93b:58134**
Seno, F. *see* **Di Stasio, M.; et al., 93d:82042**
Stella, A. L. *see* **Di Stasio, M.; et al., 93d:82042**

92Dxx Genetics and population dynamics

Items with secondary classifications in 92Dxx

(Chakraborty, Ranajit) *see* **Statistical methods in biological and medical sciences, 93b:62141**
(Rao, Calyampudi Radhakrishna) *see* **Statistical methods in biological and medical sciences, 93b:62141**

Items listed otherwise than by author

Statistical methods in biological and medical sciences ★ Statistical methods in biological and medical sciences. **93b:62141**

92D10 Genetics {For genetic algebras, see 17D92.}

Boucher, Wayne A deterministic analysis of self-incompatibility alleles. (English summary)
Branson, David An urn model and the coalescent in neutral infinite-alleles genetic processes. (English summary) **93g:92013**
Cannings, C. (*with* Vickers, G. T.) The geneaology of patterns of ESSs. (English summary) (*see* **93f:60003**)
Evans, Steven N. (*with* McPeek, M. S.; Speed, T. P.) A characterisation of crossover models that possess map functions. (English summary) **93m:92013**
Feldman, Marcus W. *see* **Zhivotovskii, L. A.**
Griffiths, R. C. The two-locus ancestral graph. (English summary) **93h:92021**
Holgate, P. The multilocus Hardy-Weinberg law. (English summary) **93j:92019**
Iizuka, Masaru (*with* Ogura, Yukio) Convergence of one-dimensional diffusion processes to a jump process related to population genetics. **93a:92006**
Jain, J. P. *see* **Muralidharan, K.**
Länger, Helmut (*with* Nylen, Peter; Tam, Tin Yau) A remark on the fundamental theorem of natural selection.
McPeek, M. S. *see* **Evans, Steven N.; et al., 93m:92013**
Muralidharan, K. (*with* Jain, J. P.) Response to selection under nonrandom mating. II. Prediction. (English summary)
Notohara, Morihiro The strong-migration limit for the genealogical process in geographically structured populations. (English summary)
Nylen, Peter *see* **Länger, Helmut; et al.**
Ogura, Yukio *see* **Iizuka, Masaru, 93a:92006**
Speed, T. P. *see* **Evans, Steven N.; et al., 93m:92013**
Tam, Tin Yau *see* **Länger, Helmut; et al.**
Vickers, G. T. *see* **Cannings, C., (93f:60003)**
Zhivotovskii, L. A. (*with* Feldman, Marcus W.) On the probability of loss of new mutations in the presence of linkage disequilibrium. (English summary)

Items with secondary classifications in 92D10

Barbour, A. D. Refined approximations for the Ewens sampling formula. **93k:60025**
Boucher, Wayne Global analysis of a two-allele mating system. (English summary) **93h:92024**
Bürger, Reinhard An integro-differential equation from population genetics and perturbations of differentiable semigroups in Fréchet spaces. **93c:47045**
Dockery, Jack D. (*with* Lui, Roger) Existence of travelling wave solutions for a bistable evolutionary ecology model. **93h:35098**
Donnelly, Peter (*with* Kurtz, Thomas G.; Tavaré, Simon) On the functional central limit theorem for the Ewens sampling formula. **93e:60064**
Durand-Alegría, Ana Isabel (*with* López-Sánchez, Jesús; Pérez de Vargas, Alberto) Zygotic algebra for k-linked multiallelic loci with sexually different recombination rates. **93k:17062**
Ethier, S. N. (*with* Griffiths, R. C.) Harmonic measure for random genetic drift. **93d:60125**
— (*with* Kurtz, Thomas G.) On the stationary distribution of the neutral diffusion model in population genetics. **93j:60107**
— Equivalence of two descriptions of the ages of alleles. **93f:60124**
Griffiths, R. C. *see* **Ethier, S. N., 93d:60125**
Joyce, Paul (*with* Tavaré, Simon) A convergence theorem for symmetric functionals of random partitions. **93g:60018**
Kurtz, Thomas G. *see* **Donnelly, Peter; et al., 93e:60064** *and* **Ethier, S. N., 93j:60107**
López-Sánchez, Jesús *see* **Durand-Alegría, Ana Isabel; et al., 93k:17062**
Lui, Roger *see* **Dockery, Jack D., 93h:35098**
Ma, W. T. (*with* Sandri, G. v. H.; Sarkar, Sarben) Analysis of the Luria-Delbrück distribution using discrete convolution powers. **93c:60014**
Pérez de Vargas, Alberto *see* **Durand-Alegría, Ana Isabel; et al., 93k:17062**
Sandri, G. v. H. *see* **Ma, W. T.; et al., 93c:60014**
Sarkar, Sarben *see* **Ma, W. T.; et al., 93c:60014**
Tavaré, Simon *see* **Donnelly, Peter; et al., 93e:60064** *and* **Joyce, Paul, 93g:60018**

92D15 Problems related to evolution

Bomze, Immanuel M. (*with* van Damme, Eric E. C.) A dynamical characterization of evolutionarily stable states. (English summary) **93g:92014**
— Detecting all evolutionarily stable strategies. (English summary) **93h:92022**
Boylan, Richard T. Laws of large numbers for dynamical systems with randomly matched individuals. (English summary) **93g:92015**
Cressman, Ross (*with* Dash, A. T.) Strong stability and evolutionarily stable strategies with two types of players. **93a:92007**
— ★ The stability concept of evolutionary game theory. **93j:92020**
van Damme, Eric E. C. *see* **Bomze, Immanuel M., 93g:92014**
Dash, A. T. *see* **Cressman, Ross, 93a:92007**
Demetrius, Lloyd The thermodynamics of evolution. (English summary) **93j:92021**
Ebeling, Werner Chaos, order, and information in the evolution of strings. (English summary)
Ewens, W. J. An optimizing principle of natural selection in evolutionary population genetics. (English summary)
Fudenberg, Drew (*with* Harris, Christopher J.) Evolutionary dynamics with aggregate shocks. (English summary) **93g:92016**
Gavrilets, S. *see* **Zhivotovskii, L. A.**
Harris, Christopher J. *see* **Fudenberg, Drew, 93g:92016**

McCaskill, John How is genetic information generated? (English summary) (*see* **93d:92001**)
Nakajima, Hisao *see* **Takada, Takenori**
Sakaguchi, Minoru Auction bidding and evolutionary stable strategies. **93d:92010**
Sawyer, Stanley A. Gene conversion and the infinite-sites model. (English summary) (*see* **93f:60003**)
Takada, Takenori (*with* Nakajima, Hisao) An analysis of life history evolution in terms of the density-dependent Lefkovitch matrix model. (English summary)
Zhivotovskii, L. A. (*with* Gavrilets, S.) Quantitative variability and multilocus polymorphism under epistatic selection. (English summary)
Zhu, Jun Mixed model approaches for estimating genetic variances and covariances. (English summary)

Items with secondary classifications in 92D15

Cohen, Jack (*with* Stewart, Ian N.) Chaos, contingency, and convergence. **93e:58124**
Cressman, Ross Evolutionarily stable sets in symmetric extensive two-person games. **93c:90121**
Dekel, Eddie (*with* Scotchmer, Suzanne) On the evolution of optimizing behavior. (English summary) **93f:90211**
Donnelly, Peter (*with* Joyce, Paul) Weak convergence of population genealogical processes to the coalescent with ages. **93d:60053**
Erdős, Péter L. (*with* Székely, László A.) Evolutionary trees: an integer multicommodity max-flow–min-cut theorem. (English summary) **93j:05038**
Ethier, S. N. Eigenstructure of the infinitely-many-neutral-alleles diffusion model. **93m:60156**
Fu, Yun-Xin (*with* Li, Wen Hsiung) Construction of linear invariants of phylogenetic inference. **93f:92003**
Garnick, Eric Niche breadth in parasites: an evolutionarily stable strategy model, with special reference to the protozoan parasite *Leishmania*. (English summary)
Hutson, V. C. L. (*with* Vickers, G. T.) Travelling waves and dominance of ESSs. **93g:90112**
Joyce, Paul *see* **Donnelly, Peter, 93d:60053**
Länger, Helmut (*with* Nylen, Peter; Tam, Tin Yau) A remark on the fundamental theorem of natural selection.
Li, Wen Hsiung *see* **Fu, Yun-Xin, 93f:92003**
Muselli, Marco (*with* Ridella, Sandro) Global optimization of functions with the interval genetic algorithm. **93f:90155**
Nylen, Peter *see* **Länger, Helmut; et al.**
Pakes, Anthony G. Limit theorems for the numbers of rare mutants: a branching process model. (English summary) **93j:60122**
Ridella, Sandro *see* **Muselli, Marco, 93f:90155**
Samuelson, Larry (*with* Zhang, Jianbo) Evolutionary stability in asymmetric games. (English summary) **93f:90188**
Scotchmer, Suzanne *see* **Dekel, Eddie, 93f:90211**
Stewart, Ian N. *see* **Cohen, Jack, 93e:58124**
Swinkels, Jeroen M. Evolution and strategic stability: from Maynard Smith to Kohlberg and Mertens. (English summary) **93i:90130**
— Evolutionary stability with equilibrium entrants. (English summary) **93k:90125**
Székely, László A. *see* **Erdős, Péter L., 93j:05038**
Tam, Tin Yau *see* **Länger, Helmut; et al.**
Trieb, Gudrun A Pólya urn model and the coalescent. **93d:60114**
Vickers, G. T. *see* **Hutson, V. C. L., 93g:90112**
Yu, Jing Yuan (*with* Yuan, Jian Hua; Zhu, Guang Tian) A nonlinear population evolution system. (English summary) **93g:92028**
Yuan, Jian Hua *see* **Yu, Jing Yuan; et al., 93g:92028**
Zhang, Jianbo *see* **Samuelson, Larry, 93f:90188**
Zhu, Guang Tian *see* **Yu, Jing Yuan; et al., 93g:92028**
Zubov, V. I. Differential equations of the evolution of species. (Russian) **93b:34058**

92D20 Protein sequences, DNA sequences

Alizadeh, Farid (*with* Karp, Richard M.; Newberg, Lee Aaron; Weisser, Deborah K.) Physical mapping of chromosomes: a combinatorial problem in molecular biology. (*see* **93k:05002**)
Baggs, I. *see* **Freedman, H. I., (93g:92001)**
Balasubramanian, Krishnan *see* **Gusfield, Dan; et al., 93f:92018**
Bélair, Jacques Lifespans in population models: using time delays. (English summary) (*see* **93g:92001**)
Christiansen, Peter L. *see* **Muto, Virginia; et al., (93g:00030)**
Cozzarelli, Nicholas R. Evolution of DNA topology: implications for its biological roles. **93j:92022**
Dauxois, T. (*with* Peyrard, Michel; Willis, C. R.) Localized breather-like solution in a discrete Klein-Gordon model and application to DNA. (English summary)
Day, William H. E. (*with* McMorris, F. R.) Interpreting consensus sequences based on plurality rule. (English summary) **93g:92017**
Freedman, H. I. (*with* Baggs, I.) Convergence to equilibria in general models of unilingual-bilingual interactions. (English summary) (*see* **93g:92001**)
Fu, Yun-Xin (*with* Li, Wen Hsiung) Necessary and sufficient conditions for the existence of linear invariants in phylogenetic inference. **93d:92011**
Futagami, Kahoru An efficient method for searching characteristic patterns of a subset in a large set of character sequences. **93j:92023**
Gatterdam, R. W. Algorithms for splicing systems. **93f:92017**
(Gindikin, S. G.) *see* **Mathematical methods of analysis of biopolymer sequences, 93f:92019**
Gusfield, Dan (*with* Balasubramanian, Krishnan; Naor, Dalit) Parametric optimization of sequence alignment. **93f:92018**
Hethcote, Herbert W. *see* **Mena-Lorca, Jaime, 93m:92014**
Karp, Richard M. *see* **Alizadeh, Farid; et al., (93k:05002)**
(Khleborodova, Oksana) *see* **Mathematical methods of analysis of biopolymer sequences, 93f:92019**
Li, Wen Hsiung *see* **Fu, Yun-Xin, 93d:92011**
Lomdahl, Peter S. *see* **Muto, Virginia; et al., (93g:00030)**
McMorris, F. R. *see* **Day, William H. E., 93g:92017**
Mena-Lorca, Jaime (*with* Hethcote, Herbert W.) Dynamic models of infectious diseases as regulators of population sizes. (English summary) **93m:92014**
Muto, Virginia (*with* Scott, A. C.; Christiansen, Peter L.; Lomdahl, Peter S.) Nonlinear discrete models for DNA dynamics. (English summary) (*see* **93g:00030**)
Naor, Dalit *see* **Gusfield, Dan; et al., 93f:92018** *and* **Newberg, Lee Aaron**
Newberg, Lee Aaron (*with* Naor, Dalit) A lower bound on the number of solutions to the probed partial digest problem. (English summary)
— *see also* **Alizadeh, Farid; et al., (93k:05002)**
Pevzner, Pavel A. Multiple alignment, communication cost, and graph matching. (English summary) **93j:92024**
Peyrard, Michel *see* **Dauxois, T.; et al.**
Roitberg, M. A. Fast algorithm for optimal aligning of symbol sequences. **93m:92015**
Schmitt, William (*with* Waterman, Michael S.) Multiple solutions of DNA restriction mapping problems. **93c:92004**
Scott, A. C. *see* **Muto, Virginia; et al., (93g:00030)**
Shukla, Rakesh *see* **Zhang, Jian Liang**
(Srivastava, Ramesh Chandra[3]) *see* **Zhang, Jian Liang**
Waterman, Michael S. *see* **Schmitt, William, 93c:92004**
Weisser, Deborah K. *see* **Alizadeh, Farid; et al., (93k:05002)**
White, James H. Geometry and topology of DNA and DNA-protein interactions. (English summary) (*see* **93f:57013**)
Willis, C. R. *see* **Dauxois, T.; et al.**
Zhang, Jian Liang (*with* Shukla, Rakesh) A note on: "The statistical analysis of direct repeats in nucleic acid sequences" [J. Appl. Probab. **22** (1985), no. 1, 15–24; MR 86b:92014] by Shukla and R. C. Srivastava.

Items listed otherwise than by author

Mathematical methods of analysis of biopolymer sequences ★ Mathematical methods of analysis of biopolymer sequences. **93f:92019**

Items with secondary classifications in 92D20

(Busenberg, Stavros N.) *see* **Differential equations models in biology, epidemiology and ecology, 93g:92001**
Chen, Fu Chuang (*with* Khalil, Hassan K.) Adaptive control of nonlinear systems using neural networks. **93f:93074**
Christiansen, Peter L. (*with* Rionero, Salvatore; Lomdahl, Peter S.; Muto, Virginia) Stability of a solitary wave solution to a set of coupled Boussinesq-like equations. (English summary) (*see* **93g:00030**)
Cushing, J. M. Some delay models for juvenile vs. adult competition. (*see* **93g:92001**)
De, S. S. (*with* Dutta, P.) Pattern generations in RNA and protein synthesis. (English summary) **93h:92012**
Du, Ding Zhu *see* **Jiang, Tao[1]; et al., 93j:68225**
Dutta, P. *see* **De, S. S., 93h:92012**
Fu, Yun-Xin (*with* Li, Wen Hsiung) Construction of linear invariants of phylogenetic inference. **93f:92003**
Grosberg, A. Yu. *see* **Gutin, A. M.; et al., 93k:82072**
Guan, Xiaojun (*with* Mural, Richard; Mann, Reinhold; Uberbacher, Edward) On parallel search of DNA sequence databases. (English summary) (*see* **93g:65178**)
Gutin, A. M. (*with* Grosberg, A. Yu.; Shakhnovich, E. I.) Globular state of branched random heteropolymers. (English summary) **93k:82072**
Hastings, Alan McKendrick-Von Foerster models for patch dynamics. (*see* **93g:92001**)
Hendy, Michael D. *see* **Steel, Michael A.; et al., 93g:05042**
Jiang, Tao[1] (*with* Li, Ming[1]; Du, Ding Zhu) A note on shortest superstrings with flipping. (English summary) **93j:68225**
Kauffman, Stuart A. Random grammars: a new class of models for functional integration and transformation in the biological, neural, and social sciences. (English summary) (*see* **93h:68003**)
Kelemenová, Alica Minimal context in regenerative *1L*-systems. **93b:92001**
Khalil, Hassan K. *see* **Chen, Fu Chuang, 93f:93074**
Li, Ming[1] *see* **Jiang, Tao[1]; et al., 93j:68225**
Li, Wen Hsiung *see* **Fu, Yun-Xin, 93f:92003**
Lomdahl, Peter S. *see* **Christiansen, Peter L.; et al., (93g:00030)**
Mann, Reinhold *see* **Guan, Xiaojun; et al., (93g:65178)**
(Martelli, Mario Umberto) *see* **Differential equations models in biology, epidemiology and ecology, 93g:92001**
Millett, Kenneth C. An invariant of 3-valent spatial graphs. (English summary) **93k:57004**
Mural, Richard *see* **Guan, Xiaojun; et al., (93g:65178)**
Muto, Virginia *see* **Christiansen, Peter L.; et al., (93g:00030)**
Penny, David *see* **Steel, Michael A.; et al., 93g:05042**
Piterbarg, V. I. On the distribution of the maximum similarity score for fragments of two random sequences. (*see* **93f:92019**)
Rionero, Salvatore *see* **Christiansen, Peter L.; et al., (93g:00030)**
Schücker, Thomas Knots and their links with biology and physics. **93a:57013**
Shakhnovich, E. I. *see* **Gutin, A. M.; et al., 93k:82072**
Shields, Paul C. String matching: the ergodic case. (English summary) **93m:60062**
Steel, Michael A. (*with* Hendy, Michael D.; Penny, David) Significance of the length of the shortest tree. **93g:05042**
— Distributions on bicoloured binary trees arising from the principle of parsimony. (English summary) **93m:05055**
(Sumners, De Witt L.) *see* **New scientific applications of geometry and topology, 93f:57013**
Turitsyn, S. K. On a Toda lattice model with a transversal degree of freedom. Sufficient criterion of blow-up in the continuum limit. (English summary) **93k:58207**
Uberbacher, Edward *see* **Guan, Xiaojun; et al., (93g:65178)**

Items listed otherwise than by author

Baltimore, MD ★ New scientific applications of geometry and topology. **93f:57013**
Claremont, CA ★ Differential equations models in biology, epidemiology and ecology. **93g:92001**
Conference:
Differential Equations and Applications to Biology and Population Dynamics

Conference: (*cont'd.*)
★ Differential equations models in biology, epidemiology and ecology. **93g:92001**
Differential equations models in biology, epidemiology and ecology ★ Differential equations models in biology, epidemiology and ecology. **93g:92001**
Lecture Notes in Biomathematics ★ Differential equations models in biology, epidemiology and ecology. **93g:92001**
New scientific applications of geometry and topology ★ New scientific applications of geometry and topology. **93f:57013**
Proceedings of Symposia in Applied Mathematics ★ New scientific applications of geometry and topology. **93f:57013**

92D25 Population dynamics (general)

Aiello, Walter G. (*with* Freedman, H. I.; Wu, Jian Hong) Analysis of a model representing stage-structured population growth with state-dependent time delay. **93j:92025**
Ammar, A. A. Effects of dispersal on the stability of two predators and a common prey. (English summary) **93h:92023**
Anikonov, Yu. E. An inverse problem in mathematical biology. (Russian. Russian summary) **93g:92018**
Bainov, Drumi Dimitrov (*with* Dishliev, A. B.) Population dynamics control in regard to minimizing the time necessary for the regeneration of a biomass taken away from the population. (English summary) **93i:92011**
Banks, H. T. (*with* Kappel, Franz; Wang, Chunming) Weak solutions and differentiability for size structured population models. **93f:92020**
Bass, Ludvik *see* **Fink, A. M., 93a:92009**
Beretta, Edoardo (*with* Fasano, Antonio) Mathematical model for the dynamics of a phytoplankton population. **93j:92026**
— (*with* Fasano, Antonio; Hosono, Yuzo) Equilibrium of a phytoplankton population in a laboratory controlled system. **93e:92008**
Bhadra, Syamali (*with* Chakrabarti, C. G.) Stochastic Gompertzian growth with periodic carrying capacity. (English summary)
Bhat, Mahadev G. *see* **Lenhart, Suzanne M., 93j:92027**
Bhattacharyya, Saswati (*with* Chakrabarti, C. G.) On the dynamics of age-structured population. (English summary)
Boucher, Wayne Global analysis of a two-allele mating system. (English summary) **93h:92024**
Busenberg, Stavros N. *see* **Castillo-Chavez, Carlos; et al., 93c:92005**
Byers, R. E. (*with* Hansell, R. I. C.; Madras, Neal) Stability-like properties of population models. (English summary) **93e:92009**
Cairó, L. (*with* Feix, M. R.) Families of invariants of the motion for the Lotka-Volterra equations: the linear polynomials family. **93e:92010**
Campbell, R. B. Half-sib mating structures. (English summary)
Cao, Yu Lin (*with* Fan, Jiangping; Gard, Thomas C.) The effects of state-dependent time delay on a stage-structured population growth model. **93g:92019**
Caristi, Gabriella (*with* Rybakowski, Krzysztof P.; Wessolek, T.) Persistence and spatial patterns in a one-predator–two-prey Lotka-Volterra model with diffusion. (Italian summary) **93i:92012**
Castillo-Chavez, Carlos (*with* Busenberg, Stavros N.; Gerow, Ken) Pair formation in structured populations. **93c:92005**
Chakrabarti, C. G. *see* **Samanta, G. P., 93c:92009**; **Bhattacharyya, Saswati** *and* **Bhadra, Syamali**
Chan, Wai Leung (*with* Guo, Bao Zhu) Controlled age-dependent population dynamics based on parity progression. **93f:92021**
— (*with* Guo, Bao Zhu) Age-dependent population dynamics based on parity interval progression. **93b:92010**
Chen, Hua Hao A nonparametric method for estimating the density of animal populations. (Chinese. Chinese summary)
Comparini, Elena (*with* Fasano, Antonio) The effect of temperature on the dynamics of a phytoplankton population.
Dancsó, András (*with* Farkas, Henrik; Farkas, Miklós; Szabó, György) Investigations into a class of generalized two-dimensional Lotka-Volterra schemes. **93a:92008**
Diekmann, O. *see* **Metz, J. A. J., 93f:92023**
Dishliev, A. B. *see* **Bainov, Drumi Dimitrov, 93i:92011**
Duan, Kui Chen A criterion for stability of discrete population models. (Chinese)
El-Leithy, O. A. *see* **El-Owaidy, Hassan M., 93h:92025**
El-Owaidy, Hassan M. (*with* El-Leithy, O. A.) Limit cycles in the chemostat. (English summary) **93h:92025**
Fairweather, Graeme (*with* López Marcos, J. C.) A box method for a nonlinear equation of population dynamics. **93c:92006**
Fan, Jiangping *see* **Cao, Yu Lin; et al., 93g:92019**
Farkas, Henrik *see* **Dancsó, András; et al., 93a:92008**
Farkas, Miklós *see* **Dancsó, András; et al., 93a:92008**
Fasano, Antonio *see* **Beretta, Edoardo; et al., 93e:92008**; **93j:92026** *and* **Comparini, Elena**
Feix, M. R. *see* **Cairó, L., 93e:92010**
Fergola, P. (*with* Rionero, Salvatore; Tenneriello, C.) On the stability of Lotka-Volterra perturbed equations. **93e:92011**
Fink, A. M. (*with* Bass, Ludvik) Hidden variables of longevity under almost periodic influences. **93a:92009**
Fitzpatrick, Ben G. Modeling and estimation problems for structured heterogeneous populations. (English summary) **93m:92016**
Franke, John E. (*with* Yakubu, Abdul-Aziz) Mutual exclusion versus coexistence for discrete competitive systems. **93a:92010**
Freedman, H. I. (*with* Ruan, Shi Gui) Hopf bifurcation in three-species food chain models with group defense. (English summary) **93h:92026**
— (*with* Wu, Jian Hong) Steady-state analysis in a model for population diffusion in a multi-patch environment. **93b:92011**
— (*with* Wu, Jian Hong) Periodic solutions of single-species models with periodic delay. **93e:92012**
— *see also* **Ruan, Shi Gui, 93c:92008**; **Aiello, Walter G.; et al., 93j:92025** *and* **Turyn, L., 93c:92010**
Gard, Thomas C. *see* **Cao, Yu Lin; et al., 93g:92019**
Gerow, Ken *see* **Castillo-Chavez, Carlos; et al., 93c:92005**
Gouzé, Jean-Luc Global behavior of n-dimensional Lotka-Volterra systems. (English summary) **93m:92017**
Gray, B. F. *see* **Myerscough, M. R.; et al., 93e:92013**
Grindrod, P. (*with* Sleeman, B. D.) Weak travelling fronts for population models with density dependent dispersion. **93k:92007**
Guo, Bao Zhu *see* **Chan, Wai Leung, 93b:92010** *and* **93f:92021**
Gyllenberg, Mats (*with* Hanski, Ilkka) Single-species metapopulation dynamics: a structured model. (English summary) **93g:92020**
Hallam, Thomas G. *see* **Silva, Jacques A. L., 93e:92014**
Hansell, R. I. C. *see* **Byers, R. E.; et al., 93e:92009**
Hanski, Ilkka *see* **Gyllenberg, Mats, 93g:92020**
(Hay, S. J.) *see* **Wood, Simon N., 93h:92031**
Hogarth, W. L. *see* **Myerscough, M. R.; et al., 93e:92013**
Hoskins, J. A. (*with* Hoskins, W. D.; Stanton, R. G.) A note on tesselations arising from multispecies competition. (English summary)
Hoskins, W. D. *see* **Hoskins, J. A.; et al.**
Hosono, Yuzo *see* **Beretta, Edoardo; et al., 93e:92008**
Hsü, Shih Pi (*with* Waltman, Paul) Analysis of a model of two competitors in a chemostat with an external inhibitor. **93g:92021**
Huang, Xun Cheng (*with* Sun, Ping Tai) Limit cycles in a general predator-prey system with anorexia predator. (*see* **93b:00022**)
Huang, Yong Nian[1] Local stability of one-dimensional discrete population models in the critical case. (Chinese. English and Chinese summaries)
Hull, David M. How many mating units are needed to have a positive probability of survival?
Ikeda, Tsutomu *see* **Nagai, Toshitaka, 93b:92014**
Il'ichev, V. G. Criteria for selection in a system of competing species. (Russian) **93c:92007**
Ji, Xin Hua Global stability for n-dimensional Lotka-Volterra competition simple chain systems. **93g:92022**
Jorgensen, David A. *see* **Mahaffy, Joseph M.; et al., 93h:92027**
Kappel, Franz *see* **Banks, H. T.; et al., 93f:92020**
Kapur, J. N. A family of difference equation models in population dynamics. (English summary) **93i:92013**
— Application of generalised maximum-entropy principle to population dynamics, innovation diffusion models and chemical reactions. (English summary) **93k:92008**
Khare, Piyush *see* **Rai, Bindhyachal, 93b:92016**
Kirilich, V. M. A problem on modeling the dynamics of biological populations. (Ukrainian. Russian summary)
Kirkland, Stephen On the spectrum of a Leslie matrix with a near-periodic fecundity pattern. (English summary) **93m:92018**
Kolesov, Yu. S. The relaxation character of the interaction of a strongly fertile population with its food base with moderate natural fluctuations. (Russian. Russian summary)
Kolmanovskii, V. B. (*with* Koroleva, N. I.) Control of a predator-prey system with intraspecies competition. (Russian) **93b:92012**
Koroleva, N. I. *see* **Kolmanovskii, V. B., 93b:92012**
Kostova, Tanya *see* **Milner, Fabio A., 93h:92028**
Kot, Mark Discrete-time travelling waves: ecological examples. **93f:92022**
— *see also* **Neubert, Michael G., 93b:92015**
Kuruklis, S. A. (*with* Ladas, G.) Oscillations and global attractivity in a discrete delay logistic model. **93b:92013**
Ladas, G. *see* **Kuruklis, S. A., 93b:92013**
Ladde, G. S. (*with* Sathananthan, S.) Stability of Lotka-Volterra model. **93i:92014**
Lange, Kenneth (*with* Oyarzun, Francisco J.) The attractiveness of the Droop equations. (English summary) **93g:92023**
Lei, Yan Song Bifurcation of positive periodic solutions to a class of periodic reaction-diffusion equations with delay in population dynamics models. (Chinese. English summary) **93d:92012**
Lenhart, Suzanne M. (*with* Bhat, Mahadev G.) Application of distributed parameter control model in wildlife damage management. (English summary) **93j:92027**
Li, Jia[2] Periodic solutions of population models in a periodically fluctuating environment. **93a:92011**
López Marcos, J. C. *see* **Fairweather, Graeme, 93c:92006**
Lu, Zhi Qi *see* **Wolkowicz, Gail S. K., 93b:92019**
Mackey, Michael C. *see* **Rey, Alejandro D., 93b:92017**
Madras, Neal *see* **Byers, R. E.; et al., 93e:92009**
Mahaffy, Joseph M. (*with* Jorgensen, David A.; Vanderheyden, Robert L.) Stability results for a model of repression with external control. (English summary) **93h:92027**
Manfredi, P. (*with* Salinelli, Ernesto) About an interactive model for sexual populations. (English and Italian summaries) **93k:92009**
Mangel, Marc (*with* Tier, Charles) A simple direct method for finding persistence times of populations and application to conservation problems. (English summary)
Metz, J. A. J. (*with* Diekmann, O.) Exact finite-dimensional representations of models for physiologically structured populations. I. The abstract foundations of linear chain trickery. **93f:92023**
— *see also* **de Roos, André Marc, 93i:92015**
Milner, Fabio A. (*with* Kostova, Tanya) Some examples of nonstationary populations of constant size. (English summary) **93h:92028**
— (*with* Rabbiolo, Guglielmo) Rapidly converging numerical algorithms for models of population dynamics. (English summary) **93g:92024**
Mishra, Pradeep An open problem in Kendall's population model. II. **93h:92029**
Murthy, G. *see* **Zhuo, J.; et al.**
Myerscough, M. R. (*with* Gray, B. F.; Hogarth, W. L.; Norbury, John) An analysis of an ordinary differential equation model for a two-species predator-prey system with harvesting and stocking. **93e:92013**
Nagai, Toshitaka (*with* Ikeda, Tsutomu) Traveling waves in a chemotactic model. **93b:92014**
Neubert, Michael G. (*with* Kot, Mark) The subcritical collapse of predator populations in discrete-time predator-prey models. **93b:92015**

Nisbet, Roger M. *see* **Wood, Simon N., 93h:92031**
Norbury, John *see* **Myerscough, M. R.; et al., 93e:92013**
Okubo, Akira *see* **Timm, Uwe; et al., 93d:92013**
Oyarzun, Francisco J. *see* **Lange, Kenneth, 93g:92023**
Pan, Jia Qi (*with* Yue, Xi Ting) Stable and unstable periodic oscillations in a predator-prey model with infinite delays. (Chinese. Chinese summary)
Pavlotskii, I. P. A self-consistent stochastic model in population ecology. (Russian. English summary) **93a:92012**
Price, W. G. *see* **Wang, Yigong; et al., 93i:92017**
Qi, Jian Xun A mathematical model for single population growth. (Chinese. English and Chinese summaries)
Rabbiolo, Guglielmo *see* **Milner, Fabio A., 93g:92024**
Rai, Bindhyachal (*with* Khare, Piyush) Mathematical analysis of a two species model with a differential nature of interaction. **93b:92016**
Redner, S. *see* **Zhuo, J.; et al.**
Renshaw, Eric ★ Modelling biological populations in space and time. **93a:92013**
Rey, Alejandro D. (*with* Mackey, Michael C.) Bifurcations and traveling waves in a delayed partial differential equation. **93b:92017**
Rionero, Salvatore *see* **Fergola, P.; et al., 93e:92011**
de Roos, André Marc (*with* Metz, J. A. J.) Towards a numerical analysis of the escalator boxcar train. **93i:92015**
Rothe, Franz (*with* Shafer, Douglas S.) Multiple bifurcation in a predator-prey system with nonmonotonic predator response. **93g:92025**
Ruan, Shi Gui (*with* Freedman, H. I.) Persistence in three-species food chain models with group defense. **93c:92008**
— *see also* **Freedman, H. I., 93h:92026**
Rybakowski, Krzysztof P. *see* **Caristi, Gabriella; et al., 93i:92012**
Salinelli, Ernesto *see* **Manfredi, P., 93k:92009**
Samanta, G. P. (*with* Chakrabarti, C. G.) Stochastic behaviour of a damped Volterra-Lotka system with time-dependent parameters. **93c:92009**
— Complex stochastic averaging approach to a two-state predator system. (English summary) **93m:92019**
Sathananthan, S. *see* **Ladde, G. S., 93i:92014**
Shafer, Douglas S. *see* **Rothe, Franz, 93g:92025**
Shvetsov, V. I. Qualitative analysis of nonlinear migration models. (Russian. Russian summary) **93g:92026**
Silva, Jacques A. L. (*with* Hallam, Thomas G.) Compensation and stability in nonlinear matrix models. **93e:92014**
Sleeman, B. D. *see* **Grindrod, P., 93k:92007**
Smith, Hal L. Reduction of structured population models to threshold-type delay equations and functional-differential equations: a case study. (English summary) **93i:92016**
Smith, Steven J. Maximum sustainable yield of a density dependent sex-age-structured population model. (English summary)
— Optimal age-specific harvesting in a nonlinear continuous age population model.
Song, Kai Tai (*with* Zhou, Li) Hopf bifurcation solutions to a prey-predator system with diffusion. (Chinese. English summary) **93e:92015**
Stanton, R. G. *see* **Hoskins, J. A.; et al.**
Sun, Ping Tai *see* **Huang, Xun Cheng, (93b:00022)**
Szabó, György *see* **Dancsó, András; et al., 93a:92008**
Szucs, Joseph M. Selection at a diallelic autosomal locus in a dioecious population. **93f:92024**
Takeuchi, Yasuhiro Refuge-mediated global coexistence of multiple competitors on a single resource. (English summary) **93h:92030**
Tenneriello, C. *see* **Fergola, P.; et al., 93e:92011**
Tier, Charles *see* **Mangel, Marc**
Timm, Uwe (*with* Totaro, Silvia; Okubo, Akira) Self- and mutual shading effect on competing algal distribution. **93d:92013**
Tineo, Antonio On the asymptotic behavior of some population models. **93g:92027**
Totaro, Silvia *see* **Timm, Uwe; et al., 93d:92013**
Turyn, L. Remarks on: "Persistence in models of three interacting predator-prey populations" [Math. Biosci. **68** (1984), no. 2, 213–231; MR 85h:92037] by H. I. Freedman and P. Waltman. **93c:92010**
Tuzinkevich, A. V. Bifurcations and chaos in a time-discrete integral model of population dynamics. **93b:92018**
Twizell, E. H. *see* **Wang, Yigong; et al., 93i:92017**
Vanderheyden, Robert L. *see* **Mahaffy, Joseph M.; et al., 93h:92027**
Waltman, Paul *see* **Hsü, Shih Pi, 93g:92021** *and* **Turyn, L., 93c:92010**
Wang, Cheng Wen A class of Kolmogorov's ecological system with prey having constant adding rate. (Chinese. English summary) **93e:92016**
Wang, Chunming *see* **Banks, H. T.; et al., 93f:92020**
Wang, Yigong (*with* Twizell, E. H.; Price, W. G.) Second-order, numerical methods for the solution of equations in population modelling. (English summary) **93i:92017**
Wessolek, T. *see* **Caristi, Gabriella; et al., 93i:92012**
Wolkowicz, Gail S. K. (*with* Lu, Zhi Qi) Global dynamics of a mathematical model of competition in the chemostat: general response functions and differential death rates. **93b:92019**
Wood, Simon N. (*with* Nisbet, Roger M.) ★ Estimation of mortality rates in stage-structured population. **93h:92031**
Wu, Jian Hong *see* **Freedman, H. I., 93b:92011; 93e:92012** *and* **Aiello, Walter G.; et al., 93j:92025**
Xu, Ji Feng *see* **Yu, Jing Yuan; et al.**
Yakubu, Abdul-Aziz *see* **Franke, John E., 93a:92010**
Yang, Zhi Ping Uniquence [uniqueness] and stability of strictly positive steady-state solution of competitor-competitor-mutualist system. (Chinese summary)
Yu, Jing Yuan (*with* Yuan, Jian Hua; Zhu, Guang Tian) A nonlinear population evolution system. (English summary) **93g:92028**
— (*with* Zhu, Guang Tian; Xu, Ji Feng) A parity progressive population model with age-structured births, and properties of its solutions. (Chinese. Chinese summary)
Yuan, Jian Hua *see* **Yu, Jing Yuan; et al., 93g:92028**
Yue, Xi Ting *see* **Pan, Jia Qi**
Zaghrout, Afaf A. S. Stability and persistence of facultative mutualism with populations interacting in a food chain. **93b:92020**
Zhou, Li *see* **Song, Kai Tai, 93e:92015**
Zhu, Guang Tian *see* **Yu, Jing Yuan; et al., 93g:92028**
Zhuo, J. (*with* Murthy, G.; Redner, S.) Dynamics and spatial organization in two-species competition. (English summary)

Items with secondary classifications in 92D25

Ahmad, Shair On the nonautonomous Volterra-Lotka competition equations. **93c:34109**
Alaoui, L. (*with* Arino, Ovide) Compactness and spectral properties for positive translation semigroups associated to models of populations dynamics. **93m:47045**
Arino, Ovide Some spectral properties for the asymptotic behavior of semigroups connected to population dynamics. (English summary) **93h:47051**
— *see also* **Alaoui, L., 93m:47045**
Bramson, Maury D. (*with* Gray, Lawrence) A useful renormalization argument. **93d:60162**
Bruni, C. (*with* Koch, Giorgio) Some results about two-mode stochastic compartmental models. (*see* **93d:93009**)
Buyvolova, A. G. (*with* Kolmanovskii, V. B.; Koroleva, N. I.) The time optimal control of predator-prey system with intraspecific struggle. (English summary) **93i:49048**
Carroll, Joseph E. (*with* Lamberson, Roland H.) The owl's odyssey. A continuous model for the dispersal of territorial species. (English summary) **93m:92022**
Chakrabarti, C. G. *see* **Ghosh, Sutapa**
Chipot, Michel (*with* Rodrigues, José-Francisco) On a class of nonlocal nonlinear elliptic problems. (French summary) **93h:35070**
Cressman, Ross (*with* Dash, A. T.) Strong stability and evolutionarily stable strategies with two types of players. **93a:92007**
Cui, Jing An The limit behavior of a food web in a micro-organism culture system. (Chinese. English summary) **93f:92028**
— (*with* Huang, Yong Nian[1]) Positive periodic solutions to a class of periodic cooperative systems. (Chinese. English and Chinese summaries) **93h:34060**
Dash, A. T. *see* **Cressman, Ross, 93a:92007**
Dockery, Jack D. (*with* Lui, Roger) Existence of travelling wave solutions for a bistable evolutionary ecology model. **93h:35098**
Eggermont, P. P. B. On Volterra-Lotka differential equations and multiplicative algorithms for monotone complementarity problems. (English summary) **93j:90114**
Ei, Shin-Ichiro *see* **Kuwamura, M.; et al., 93f:35113**
Elkhader, A. S. A result on a feedback system of ordinary differential equations. (English summary) **93g:34070**
Fergola, P. (*with* Rionero, Salvatore; Tenneriello, C.) Asymptotic stability of a perturbed Lotka-Volterra model. (English summary) (*see* **93g:00030**)
Franke, John E. (*with* Yakubu, Abdul-Aziz) Geometry of exclusion principles in discrete systems. (English summary) **93g:39002**
Freedman, H. I. (*with* Sree Hari Rao, V.; Jaya Lakshmi, K.) Stability, persistence, and extinction in a predator-prey system with discrete and continuous time delays. (English summary) **93h:34137**
Gaunersdorfer, Andrea Time averages for heteroclinic attractors. (English summary) **93j:34068**
George, Raju K. *see* **Joshi, Mohan C., 93f:93023**
Ghosh, Sutapa (*with* Chakrabarti, C. G.) Stability of two competing species: thermodynamic approach. (English summary)
Gopalsamy, K. Oscillations in Lotka-Volterra systems with several delays. **93a:34084**
— ★ Stability and oscillations in delay differential equations of population dynamics. **93c:34150**
Gray, Lawrence *see* **Bramson, Maury D., 93d:60162**
Greller, Larry D. *see* **Samardzija, Nikola, 93i:92018**
Gutiérrez Jáimez, Ramón (*with* Rosales, M. J.) Diffusion approximation for a stochastic model of population growth. (English summary) (*see* **93g:62001**)
Hainzl, J. Multiparameter bifurcation of a predator-prey system. **93h:34056**
Hatvani, L. (*with* Krisztin, T.) On the existence of periodic solutions for linear inhomogeneous and quasilinear functional-differential equations. **93c:34139**
Hu, Shi Geng (*with* Li, Jia[2]) On eventual boundedness of Lotka-Volterra ecological systems. **93f:92029**
Huang, Yong Nian[1] *see* **Cui, Jing An, 93h:34060**
Huggins, Richard M. (*with* Marschner, Ian C.) Robust analysis of the bifurcating autoregressive model in cell lineage studies. **93a:62047**
Hutson, V. C. L. Asymptotics in some biological models. **93g:34071**
Iida, Masato Exponentially asymptotic stability for a certain class of semilinear Volterra diffusion equations. **93a:45010**
Inaba, Hisashi Strong ergodicity for perturbed dual semigroups and application to age-dependent population dynamics. **93d:47146**
Jagers, Peter Stabilities and instabilities in population dynamics. (English summary) **93j:60120**
Jaroma, J. H. (*with* Kuruklis, S. A.; Ladas, G.) Oscillations and stability of a discrete delay logistic model. (Russian and Ukrainian summaries) **93a:39004**
Jaya Lakshmi, K. *see* **Freedman, H. I.; et al., 93h:34137**
Joshi, Mohan C. (*with* George, Raju K.) On the controllability of predator-prey systems. **93f:93023**
Kaashoek, Marinus A. (*with* Verduyn Lunel, Sjoerd M.) Characteristic matrices and spectral properties of evolutionary systems. **93e:47015**
Karakostas, George Terminal controllability in cooperative systems. (*see* **93f:34004**)
Koch, Giorgio *see* **Bruni, C., (93d:93009)**
Kolesov, A. Yu. (*with* Kolesov, Yu. S.) Relaxation cycles of differential-difference equations. (Russian. Russian summary) **93m:34113**
Kolesov, Yu. S. *see* **Kolesov, A. Yu., 93m:34113**
Kolmanovskii, V. B. On the stability of a chemostat. (Russian. Russian summary) **93m:34128**
— *see also* **Buyvolova, A. G.; et al., 93i:49048**
Koroleva, N. I. *see* **Buyvolova, A. G.; et al., 93i:49048**
Krishnan, E. V. Exact solutions of reaction-diffusion equation.
Krisztin, T. *see* **Hatvani, L., 93c:34139**

Kuang, Yang Global attractivity and periodic solutions in delay-differential equations related to models in physiology and population biology. **93j:34103**
— (*with* Smith, Hal L.) Convergence in Lotka-Volterra type diffusive delay systems without dominating instantaneous negative feedbacks. (English summary) **93k:35266**
— *see also* **Smith, Hal L., 93j:34106**
Kubo, Masahiro (*with* Langlais, Michel) Periodic solutions for nonlinear population dynamics models with periodic supply. **93m:92023**
Kuruklis, S. A. *see* **Jaroma, J. H.; et al., 93a:39004**
Kuwamura, M. (*with* Ei, Shin-Ichiro; Mimura, Masayasu) Very slow dynamics for some reaction-diffusion systems of the activator-inhibitor type. **93f:35113**
Kuznetsov, Yurii Aleksandrovich (*with* Muratori, Simona; Rinaldi, Sergio) Bifurcations and chaos in a periodic predator-prey model. **93e:34051**
Ladas, G. *see* **Jaroma, J. H.; et al., 93a:39004**
Lamberson, Roland H. *see* **Carroll, Joseph E., 93m:92022**
Langlais, Michel *see* **Kubo, Masahiro, 93m:92023**
Li, Chuan Rong *see* **Yang, Ya Wei, 93i:34087**
Li, Jia² *see* **Hu, Shi Geng, 93f:92029**
Li, Lige (*with* Liu, Yaping) Positive solutions to certain nonlinear elliptic biological interacting systems of three variables. (*see* **93b:00022**)
Li, Zheng Yuan (*with* de Mottoni, Piero) Bifurcation for some systems of cooperative and predator-prey type. (English summary) **93i:35017**
Liu, Yaping *see* **Li, Lige, (93b:00022)**
López-Gómez, Julián (*with* Pardo, Rosa) Existence and uniqueness for some competition models with diffusion. **93k:35262**
— (*with* Pardo, Rosa) Existence and uniqueness for some competition models with diffusion. (French summary) **93h:35058**
— Positive periodic solutions of Lotka-Volterra reaction-diffusion systems. **93d:35074**
— (*with* Pardo, Rosa) Coexistence in a simple food chain with diffusion. (English summary) **93j:35096**
— (*with* Pardo, Rosa) Coexistence regions in Lotka-Volterra models with diffusion. **93j:35089**
Lui, Roger *see* **Dockery, Jack D., 93h:35098**
Macqueen, John Biological modelling: population dynamics. (*see* **93g:00019**)
Marschner, Ian C. *see* **Huggins, Richard M., 93a:62047**
Martin, R. H. (*with* Smith, Hal L.) Convergence in Lotka-Volterra systems with diffusion and delay. (*see* **93a:00021**)
Mimura, Masayasu *see* **Kuwamura, M.; et al., 93f:35113**
Mischaikow, Konstantin Travelling waves for a cooperative and a competitive-cooperative system. **93c:35072**
de Mottoni, Piero *see* **Li, Zheng Yuan, 93i:35017**
Muratori, Simona *see* **Kuznetsov, Yurii Aleksandrovich; et al., 93e:34051**
Namkoong, Gene *see* **Selgrade, James F., 93h:92037**
Onciulescu, I. On the continuity of a mathematical model for an ecological system. (Romanian summary) **93g:92030**
Pardo, Rosa *see* **López-Gómez, Julián, 93h:35058; 93j:35089; 93j:35096** *and* **93k:35262**
Parrott, Mary E. Linearized stability and irreducibility for a functional-differential equation. **93f:34134**
Qin, Tie Hu (*with* Zhang, Kang Pei) A semigroup approach to nonlinear equation of age-dependent population dynamics. (English summary) **93i:47117**
Rinaldi, Sergio *see* **Kuznetsov, Yurii Aleksandrovich; et al., 93e:34051**
Rionero, Salvatore *see* **Fergola, P.; et al., (93g:00030)**
Rodrigues, José-Francisco *see* **Chipot, Michel, 93h:35070**
Rosales, M. J. *see* **Gutiérrez Jáimez, Ramón, (93g:62001)**
Ruan, Jiong Oscillation of solutions to a class of nonlinear functional-differential equations related to a single-population model. (Chinese. English and Chinese summaries) **93f:34127**
Samardzija, Nikola (*with* Greller, Larry D.) Nested tori in a 3-variable mass action model. (English summary) **93i:92018**
Selgrade, James F. (*with* Namkoong, Gene) Population interactions with growth rates dependent on weighted densities. (English summary) **93h:92037**
Smith, Hal L. (*with* Thieme, Horst R.) Strongly order preserving semiflows generated by functional-differential equations. **93f:34135**
— Structured population models, threshold-type delay equations and functional-differential equations. **93e:34089**
— (*with* Kuang, Yang) Periodic solutions of differential delay equations with threshold-type delays. **93j:34106**
— *see also* **Kuang, Yang, 93k:35266** *and* **Martin, R. H., (93a:00021)**
Sree Hari Rao, V. *see* **Freedman, H. I.; et al., 93h:34137**
Sugie, Jitsuro On the stability for a population growth equation with time delay. **93b:34102**
Tenneriello, C. *see* **Fergola, P.; et al., (93g:00030)**
Thieme, Horst R. *see* **Smith, Hal L., 93f:34135**
Traple, Janusz Positive solutions of a renewal equation. (English summary) **93d:45011**
Tyrcha, Joanna Asymptotic stability of the cell cycle models in the case of the exponential and the linear growth. (*see* **93a:60004**)
Verduyn Lunel, Sjoerd M. *see* **Kaashoek, Marinus A., 93e:47015**
Volterra, Vito ★ Leçons sur la théorie mathématique de la lutte pour la vie. (French) [Lessons on the mathematical theory of the struggle for survival] **93k:92011**
Webb, G. F. A nonlinear cell population model of periodic chemotherapy treatment. (English summary) (*see* **93e:34005**)
Yakubu, Abdul-Aziz *see* **Franke, John E., 93g:39002**
Yang, Ya Wei (*with* Li, Chuan Rong) A qualitative analysis of the Kolmogorov model for a class of predator-prey systems with constant stocking rate of prey. (Chinese. English and Chinese summaries) **93i:34087**
Yasuda, Toshihiko Chaos and fractal of a predator-prey system with control inputs. (English summary) **93h:92038**
Zhang, Kang Pei *see* **Qin, Tie Hu, 93i:47117**
Zhang, Sheng Hai On a class of nonlinear population evolution systems. (Chinese) **93c:35063**

92D30 Epidemiology

Ball, Frank (*with* O'Neill, Philip) A modification of the general stochastic epidemic motivated by AIDS modelling. (English summary) **93j:92028**
Barbour, A. D. (*with* Kafetzaki, Maria) A host-parasite model yielding heterogeneous parasite loads. (English summary) **93j:92029**
Becker, Niels G. Analysis of infectious disease data from a sample of households. (English summary) (*see* **93f:60003**)
Blanchard, Philippe (*with* Krüger, Tyll) Isomorphism between epidemic dynamical processes on random graphs with rational transmission probability $\gamma < 1$ and transmission probability one. **93a:92014**
Brand, Richard J. *see* **Kenley, Susan S.; et al., 93e:92018**
Busenberg, Stavros N. (*with* van den Driessche, P.) Nonexistence of periodic solutions for a class of epidemiological models. (English summary) **93h:92032**
— (*with* Iannelli, Mimmo; Thieme, Horst R.) Global behavior of an age-structured epidemic model. **93a:92015**
— (*with* Cooke, Kenneth L.) ★ Vertically transmitted diseases. (English. English summary) **93m:92020**
— *see also* **Castillo-Chavez, Carlos, 93h:92033**
Castillo-Chavez, Carlos (*with* Busenberg, Stavros N.) On the solution of the two-sex mixing problem. (English summary) **93h:92033**
— *see also* **Luo, Xiaolong, 93j:92031**
Chiang, Chin Long *see* **Kenley, Susan S.; et al., 93e:92018**
Cooke, Kenneth L. *see* **Busenberg, Stavros N., 93m:92020**
Cui, Guo Hua A mathematical model for the rate of spreading of a computer virus. (Chinese. English and Chinese summaries)
Daners, Daniel Qualitative behaviour of an epidemics model. **93m:92021**
Daniels, H. E. A look at perturbation approximations for epidemics. (English summary) (*see* **93f:60003**)
van den Driessche, P. *see* **Lin, Xiao Dong, 93d:92014** *and* **Busenberg, Stavros N., 93h:92032**
Espina-Valencia, Carlos Stability of equilibria in a class-age-dependent epidemic model. (English summary) **93j:92030**
Gaeta, Giuseppe A simple model of DNA dynamics. (*see* **93e:00025**)
Garnick, Eric Niche breadth in parasites: an evolutionarily stable strategy model, with special reference to the protozoan parasite *Leishmania*. (English summary)
Greenhalgh, David Some threshold and stability results for epidemic models with a density-dependent death rate. (English summary)
Grenfell, B. T. *see* **Roberts, M. G.**
Iannelli, Mimmo (*with* Milner, Fabio A.; Pugliese, Andrea) Analytical and numerical results for the age-structured S-I-S epidemic model with mixed inter-intracohort transmission. **93e:92017**
— *see also* **Busenberg, Stavros N.; et al., 93a:92015**
Kafetzaki, Maria *see* **Barbour, A. D., 93j:92029**
Kenley, Susan S. (*with* Chiang, Chin Long; Brand, Richard J.) A two-state recurrent stochastic model with time-dependent transition rates. (English summary) **93e:92018**
Krüger, Tyll *see* **Blanchard, Philippe, 93a:92014**
Lin, Xiao Dong On the global stability of a delay epidemic model. **93f:92025**
— (*with* van den Driessche, P.) A threshold result for an epidemiological model. **93d:92014**
— (*with* So, Joseph W.-H.) Global stability of the endemic equilibrium and uniform persistence in epidemic models with subpopulations. (English summary) **93k:92010**
Luo, Xiaolong (*with* Castillo-Chavez, Carlos) Limit behavior of pair formation for a large dissolution rate. (English summary) **93j:92031**
Milner, Fabio A. *see* **Iannelli, Mimmo; et al., 93e:92017**
Oelschläger, Karl The spread of a parasitic infection in a spatially distributed host population.
O'Neill, Philip *see* **Ball, Frank, 93j:92028**
Pugliese, Andrea An $S \to E \to I$ epidemic model with varying population size. (English summary) **93j:92032**
— *see also* **Iannelli, Mimmo; et al., 93e:92017**
Roberts, M. G. The dynamics and control of bovine tuberculosis in possums. (English summary)
— (*with* Grenfell, B. T.) The population dynamics of nematode infections of ruminants: the effect of seasonality in the free-living stages. (English summary)
So, Joseph W.-H. *see* **Lin, Xiao Dong, 93k:92010**
Thieme, Horst R. Stability change of the endemic equilibrium in age-structured models for the spread of $S \to I \to R$ type infectious diseases. (English summary) **93h:92034**
— *see also* **Busenberg, Stavros N.; et al., 93a:92015**
Yao, Yong Global existence and uniqueness of solutions to epidemic dynamic systems of equations. (Chinese) **93a:92016**

Items with secondary classifications in 92D30

Anderson, Roy M. *see* **Swinton, Jonathan; et al.**
Blanchard, Philippe (*with* Krüger, Tyll) Critical parameters and threshold properties for epidemic dynamical systems on random graphs. (*see* **93g:81002**)
Brunham, Robert C. *see* **Swinton, Jonathan; et al.**
Busenberg, Stavros N. *see* **Castillo-Chavez, Carlos; et al., 93c:92005**
Castillo-Chavez, Carlos (*with* Busenberg, Stavros N.; Gerow, Ken) Pair formation in structured populations. **93c:92005**
Gani, Joseph Mark Generating function methods in a random allocation problem of epidemics. **93a:62138**
Garnett, Geoffrey P. *see* **Swinton, Jonathan; et al.**
Gerow, Ken *see* **Castillo-Chavez, Carlos; et al., 93c:92005**
Greenhalgh, David Some results for an SEIR epidemic model with density dependence in the death rate. (English summary) **93f:92016**
Hadeler, K. P. Periodic solutions of homogeneous equations. **93a:34051**
Hao, Dun Yuan Instability of a class of nondifferentiable time-delay differential equations. (Chinese. English summary) **93c:34152**
King, Andrew Charles (*with* Needham, D. J.) On a singular initial-boundary value problem for a reaction-diffusion equation arising from a simple model of isothermal chemical autocatalysis. **93g:92035**

Kirane, M. (*with* Kouachi, S.) Asymptotic behaviour for a system describing epidemics with migration and spatial spread of infection. (English summary) **93j:92018**
Kouachi, S. *see* **Kirane, M., 93j:92018**
Krüger, Tyll *see* **Blanchard, Philippe, (93g:81002)**
Liu, Wei Jiu Positive fixed point theorems for β-semidifferentiable k-set-contractive mappings with application to an infectious disease model. **93k:47063**
Needham, D. J. *see* **King, Andrew Charles, 93g:92035**
Swinton, Jonathan (*with* Garnett, Geoffrey P.; Brunham, Robert C.; Anderson, Roy M.) Gonococcal infection, infertility, and population growth. I. Endemic states in behaviourally homogeneous growing populations. (English summary)
Torrejón, Ricardo Positive almost periodic solutions of a nonlinear integral equation from the theory of epidemics. **93a:45007**

92D40 Ecology

Ali, S. W. (*with* Cosner, C.) On the uniqueness of the positive steady state for Lotka-Volterra models with diffusion. (English summary) **93f:92026**
Antonelli, Peter L. Finsler Volterra-Hamilton systems in ecology. **93f:92027**
Carroll, Joseph E. (*with* Lamberson, Roland H.) The owl's odyssey. A continuous model for the dispersal of territorial species. (English summary) **93m:92022**
Chakrabarti, C. G. *see* **Ghosh, Sutapa**
Chaudhuri, K. S. (*with* Ray, Sumita Saha) Bionomic exploitation of Lotka-Volterra prey-predator system. **93a:92017**
Cosner, C. *see* **Ali, S. W., 93f:92026**
Cui, Jing An The limit behavior of a food web in a micro-organism culture system. (Chinese. English summary) **93f:92028**
Cushing, J. M. Some delay models for juvenile vs. adult competition. (*see* **93g:92001**)
Dawidowicz, Antoni Leon (*with* Tumidajowicz, Danuta) Markovian description of the development of *Rhododendron ferrugineum L.* species by the theory of generating functions.
Ghosh, Sutapa (*with* Chakrabarti, C. G.) Stability of two competing species: thermodynamic approach. (English summary)
Greller, Larry D. *see* **Samardzija, Nikola, 93i:92018**
Hallam, Thomas G. (*with* Lassiter, Ray R.; Jaworska, Joanna; McKinney, William) Physiologically based models in predator-prey ecology: an introduction. (English summary) (*see* **93e:34005**)
Hastings, Alan McKendrick-Von Foerster models for patch dynamics. (*see* **93g:92001**)
Hu, Shi Geng Dissipativity of Lotka-Volterra ecological systems. (Chinese. English and Chinese summaries) **93g:92029**
— (*with* Li, Jia[2]) On eventual boundedness of Lotka-Volterra ecological systems. **93f:92029**
Il'ichev, V. G. On the technique of constructing simulation models of ecological systems. Adaptation mechanisms. (Russian. English and Russian summaries)
Jäger, Willi (*with* Smith, Hal L.; Tang, Betty) Generic failure of persistence and equilibrium coexistence in a model of m-species competition in an n-vessel gradostat when $m > n$. (English summary) **93h:92035**
(Janková, Katarína) *see* **Smítalová, Kristína, 93g:92031**
Jaworska, Joanna *see* **Hallam, Thomas G.; et al., (93e:34005)**
Kolosov, G. E. (*with* Sharov, M. M.) Optimal damping of fluctuations in population size in an isolated ecological system of "predator-prey" type. (Russian. Russian summary)
Korman, Philip Some new results on the periodic competition model. **93j:92033**
Kuang, Yang Boundedness of solutions in neutral delay predator-prey and competition systems. (English summary) **93h:92036**
Kubo, Masahiro (*with* Langlais, Michel) Periodic solutions for nonlinear population dynamics models with periodic supply. **93m:92023**
Lamberson, Roland H. *see* **Carroll, Joseph E., 93m:92022**
Langlais, Michel *see* **Kubo, Masahiro, 93m:92023**
Lassiter, Ray R. *see* **Hallam, Thomas G.; et al., (93e:34005)**
Li, Jia[2] *see* **Hu, Shi Geng, 93f:92029**
Li, Yun The Hopf bifurcation of a simple food chain with group defense. (Chinese. English summary) **93b:92021**
Lindgren, Kristian Evolution in a population of mutating strategies. (English summary) (*see* **93d:92001**)
López-Gómez, Julián (*with* Pardo, Rosa) Existence and uniqueness for the predator-prey model with diffusion in the scalar case.
McKinney, William *see* **Hallam, Thomas G.; et al., (93e:34005)**
Mimura, Masayasu Coexistence in competition-diffusion systems. (*see* **93g:92001**)
Moskovkin, V. M. (*with* Selezov, I. T.) Analysis of a dynamical system of the ecology of a coastal zone. (Russian. Russian summary) (*see* **93f:34003**)
Muratori, Simona (*with* Rinaldi, Sergio) Low- and high-frequency oscillations in three-dimensional food chain systems. (English summary) **93m:92024**
Namkoong, Gene *see* **Selgrade, James F., 93h:92037**
Okubo, Akira *see* **Timm, Uwe, 93b:92022**
Onciulescu, I. On the continuity of a mathematical model for an ecological system. (Romanian summary) **93g:92030**
Pande, L. K. *see* **Singh, Balwant**
Pardo, Rosa *see* **López-Gómez, Julián**
Ray, Sumita Saha *see* **Chaudhuri, K. S., 93a:92017**
Rinaldi, Sergio *see* **Muratori, Simona, 93m:92024**
Samardzija, Nikola (*with* Greller, Larry D.) Nested tori in a 3-variable mass action model. (English summary) **93i:92018**
Selezov, I. T. *see* **Moskovkin, V. M., (93f:34003)**
Selgrade, James F. (*with* Namkoong, Gene) Population interactions with growth rates dependent on weighted densities. (English summary) **93h:92037**
Shao, Guo Liang[2] *see* **Wang, Shou Song**
Sharov, M. M. *see* **Kolosov, G. E.**
Singh, Balwant (*with* Pande, L. K.) Statistical mechanical approach to ecosystems.
Smítalová, Kristína (*with* Šujan, Štefan) ★ A mathematical treatment of dynamical models in biological science. **93g:92031**
Smith, Hal L. *see* **Jäger, Willi; et al., 93h:92035**
Šujan, Štefan *see* **Smítalová, Kristína, 93g:92031**
Tang, Betty *see* **Jäger, Willi; et al., 93h:92035**
Timm, Uwe (*with* Okubo, Akira) Diffusion-driven instability in a predator-prey system with time-varying diffusivities. **93b:92022**
Tineo, Antonio Asymptotic behaviour of positive solutions of the nonautonomous Lotka-Volterra competition equations. **93j:92034**
Tumidajowicz, Danuta *see* **Dawidowicz, Antoni Leon**
Volterra, Vito ★ Leçons sur la théorie mathématique de la lutte pour la vie. (French) [Lessons on the mathematical theory of the struggle for survival] **93k:92011**
Walde, Sandra J. *see* **Whitehead, Hal**
Wang, Cheng Wen Qualitative analysis of a class of ecological systems. (Chinese. English and Chinese summaries)
Wang, Dong Da Uniqueness of limit cycles for a predator-prey system with sparseness effect. (Chinese. English summary)
Wang, Shou Song (*with* Shao, Guo Liang[2]) Chaotic behavior and stability of a discrete generalized logistic model. (Chinese. English summary)
Whitehead, Hal (*with* Walde, Sandra J.) Habitat dimensionality and mean search distances of top predators: implications for ecosystem structure. (English summary)
Yasuda, Toshihiko Chaos and fractal of a predator-prey system with control inputs. (English summary) **93h:92038**

Items with secondary classifications in 92D40

Alvarez, Carlos *see* **Tineo, Antonio, 93d:34080**
Andrianov, D. L. (*with* Maksimov, V. P.; Rumyantsev, A. N.) Some boundary value problems in economic dynamics. (Russian. Russian summary) **93h:34117**
Antonelli, Peter L. (*with* Shimada, Hideo) On 1-form Finsler connections with constant coefficients. **93g:53031**
Bundy, Alan *see* **Robertson, David; et al., 93m:68157**
Burton, T. A. (*with* Hutson, V. C. L.) Permanence for nonautonomous predator-prey systems. **93f:34019**
(Busenberg, Stavros N.) *see* **Differential equations models in biology, epidemiology and ecology, 93g:92001**
Cao, Yu Lin (*with* Fan, Jiangping; Gard, Thomas C.) The effects of state-dependent time delay on a stage-structured population growth model. **93g:92019**
Caristi, Gabriella (*with* Rybakowski, Krzysztof P.; Wessolek, T.) Persistence and spatial patterns in a one-predator–two-prey Lotka-Volterra model with diffusion. (Italian summary) **93i:92012**
Chalifour, Alain (*with* Delfour, Michel C.) Optimal distribution of larvicide in running waters. **93b:92009**
Delfour, Michel C. *see* **Chalifour, Alain, 93b:92009**
Durand, Jeffrey (*with* Durand, Roger) Fitting and testing a "predator-prey" model. (English summary)
Durand, Roger *see* **Durand, Jeffrey**
Dvořák, Ivan (*with* Šiška, Jaromír) The theory of deterministic chaos and some of its applications. II. (Czech) **93e:58127**
Elkhader, A. S. A result on a feedback system of ordinary differential equations. (English summary) **93g:34070**
Fan, Jiangping *see* **Cao, Yu Lin; et al., 93g:92019**
Gard, Thomas C. *see* **Cao, Yu Lin; et al., 93g:92019**
Gopalsamy, K. (*with* He, Xue Zhong; Wen, Li Zhi) Global attractivity and oscillations in a periodic logistic integrodifferential equation. **93c:34143**
Haggith, Mandy *see* **Robertson, David; et al., 93m:68157**
(Hay, S. J.) *see* **Wood, Simon N., 93h:92031**
He, Xue Zhong *see* **Gopalsamy, K.; et al., 93c:34143**
Huang, Xun Cheng (*with* Sun, Ping Tai) Limit cycles in a general predator-prey system with anorexia predator. (*see* **93b:00022**)
Hutson, V. C. L. (*with* Schmitt, Klaus) Permanence and the dynamics of biological systems. (English summary) **93d:92003**
— *see also* **Burton, T. A., 93f:34019**
Isaak, Garth (*with* Kim, Suh-Ryung; McKee, Terry A.; McMorris, F. R.; Roberts, Fred S.) 2-competition graphs. (English summary) **93k:05074**
Kahane, Charles S. On the competition-diffusion equations for closely competing species. **93f:35094**
Kim, Suh-Ryung *see* **Isaak, Garth; et al., 93k:05074**
Kolesov, A. Yu. (*with* Kolesov, Yu. S.) Relaxation cycles in systems with delay. (Russian. Russian summary) **93m:34114**
Kolesov, Yu. S. The relaxation character of the interaction of a strongly fertile population with its food base with moderate natural fluctuations. (Russian. Russian summary)
— *see also* **Kolesov, A. Yu., 93m:34114**
Kolmanovskiĭ, V. B. (*with* Koroleva, N. I.) Control of a predator-prey system with intraspecies competition. (Russian) **93b:92012**
Koroleva, N. I. *see* **Kolmanovskiĭ, V. B., 93b:92012**
Kostova, Tanya *see* **Milner, Fabio A., 93h:92028**
Kuang, Yang (*with* Smith, Hal L.) Convergence in Lotka-Volterra-type delay systems without instantaneous feedbacks. (English summary) **93m:34130**
Lang, Jens (*with* Walter, Artur) A finite element method adaptive in space and time for nonlinear reaction-diffusion systems. (English summary) **93j:65149**
Lange, Kenneth (*with* Oyarzun, Francisco J.) The attractiveness of the Droop equations. (English summary) **93g:92023**
Li, Chuan Rong *see* **Yang, Ya Wei, 93i:34087**
Li, Lige (*with* Liu, Yaping) Positive solutions to certain nonlinear elliptic biological interacting systems of three variables. (*see* **93b:00022**)
Liu, Yaping *see* **Li, Lige, (93b:00022)**
Maksimov, V. P. *see* **Andrianov, D. L.; et al., 93h:34117**
(Martelli, Mario Umberto) *see* **Differential equations models in biology, epidemiology and ecology, 93g:92001**
Martin, R. H. (*with* Smith, Hal L.) Convergence in Lotka-Volterra systems with diffusion and delay. (*see* **93a:00021**)
McKee, Terry A. *see* **Isaak, Garth; et al., 93k:05074**
McMorris, F. R. *see* **Isaak, Garth; et al., 93k:05074**

Medhin, N. G. Optimal harvesting in age-structured populations. (English summary) **93e:49055**
Messer, J. Rigorous results in equilibrium statistical mechanics of terrestrial ecosystems. (English summary)
Milner, Fabio A. (*with* Kostova, Tanya) Some examples of nonstationary populations of constant size. (English summary) **93h:92028**
Muetzelfeldt, Robert *see* **Robertson, David; et al., 93m:68157**
Murthy, G. *see* **Zhuo, J.; et al.**
Nisbet, Roger M. *see* **Wood, Simon N., 93h:92031**
Oyarzun, Francisco J. *see* **Lange, Kenneth, 93g:92023**
Pan, Jia Qi (*with* Yue, Xi Ting) Stable and unstable periodic oscillations in a predator-prey model with infinite delays. (Chinese. Chinese summary)
Pavlotskii, I. P. A self-consistent stochastic model in population ecology. (Russian. English summary) **93a:92012**
Redner, S. *see* **Zhuo, J.; et al.**
Roberts, Fred S. *see* **Isaak, Garth; et al., 93k:05074**
Robertson, David (*with* Bundy, Alan; Muetzelfeldt, Robert; Haggith, Mandy; Uschold, Michael) ★ Eco-logic. **93m:68157**
Rothe, Franz (*with* Shafer, Douglas S.) Multiple bifurcation in a predator-prey system with nonmonotonic predator response. **93g:92025**
Rumyantsev, A. N. *see* **Andrianov, D. L.; et al., 93h:34117**
Rybakowski, Krzysztof P. *see* **Caristi, Gabriella; et al., 93i:92012**
Schmitt, Klaus *see* **Hutson, V. C. L., 93d:92003**
Shafer, Douglas S. *see* **Rothe, Franz, 93g:92025**
Shilin, A. S. Periodic solutions of a system that arises in mathematical ecology. (Russian) (*see* **93b:34003**)
Shimada, Hideo *see* **Antonelli, Peter L., 93g:53031**
Šiška, Jaromír *see* **Dvořák, Ivan, 93e:58127**
Smith, Hal L. *see* **Kuang, Yang, 93m:34130** *and* **Martin, R. H., (93a:00021)**
Smith, Steven J. Optimal age-specific harvesting in a nonlinear continuous age population model.
Sun, Ping Tai *see* **Huang, Xun Cheng, (93b:00022)**
Takeuchi, Yasuhiro Refuge-mediated global coexistence of multiple competitors on a single resource. (English summary) **93h:92030**
Tineo, Antonio (*with* Alvarez, Carlos) A different consideration about the globally asymptotically stable solution of the periodic n-competing species problem. **93d:34080**
Uschold, Michael *see* **Robertson, David; et al., 93m:68157**
Walter, Artur *see* **Lang, Jens, 93j:65149**
Wen, Li Zhi *see* **Gopalsamy, K.; et al., 93c:34143**
Wessolek, T. *see* **Caristi, Gabriella; et al., 93i:92012**
Wood, Simon N. (*with* Nisbet, Roger M.) ★ Estimation of mortality rates in stage-structured population. **93h:92031**
Yang, Ya Wei (*with* Li, Chuan Rong) A qualitative analysis of the Kolmogorov model for a class of predator-prey systems with constant stocking rate of prey. (Chinese. English and Chinese summaries) **93i:34087**
Yatsenko, Yu. P. ★ Интегральные модели систем с управляемой памятью. (Russian) [Integral models of systems with controllable memory] **93g:93002**
Yue, Xi Ting *see* **Pan, Jia Qi**
Zhou, Li A theoretical analysis of alternate variance of equilibrium stability for a class of systems with time delay. (Chinese. English summary) **93h:34141**
Zhuo, J. (*with* Murthy, G.; Redner, S.) Dynamics and spatial organization in two-species competition. (English summary)

Items listed otherwise than by author

Claremont, CA ★ Differential equations models in biology, epidemiology and ecology. **93g:92001**
Conference:
Differential Equations and Applications to Biology and Population Dynamics ★ Differential equations models in biology, epidemiology and ecology. **93g:92001**
Differential equations models in biology, epidemiology and ecology ★ Differential equations models in biology, epidemiology and ecology. **93g:92001**
Lecture Notes in Biomathematics ★ Differential equations models in biology, epidemiology and ecology. **93g:92001**

92D50 Animal behavior

Jäger, Eva (*with* Segel, Lee A.) On the distribution of dominance in populations of social organisms. (English summary) **93h:92039**
Segel, Lee A. *see* **Jäger, Eva, 93h:92039**

Items with secondary classifications in 92D50

Collins, J. J. (*with* Stewart, Ian N.) Symmetry-breaking bifurcation: a possible mechanism for 2 : 1 frequency-locking in animal locomotion. (English summary) **93h:92011**
Cressman, Ross Evolutionarily stable sets in symmetric extensive two-person games. **93c:90121**
Sakaguchi, Minoru Auction bidding and evolutionary stable strategies. **93d:92010**
Stewart, Ian N. *see* **Collins, J. J., 93h:92011**

92D99 None of the above, but in this section

Namkoong, Gene *see* **Selgrade, James F.**
Selgrade, James F. (*with* Namkoong, Gene) Dynamical behavior for population genetics models of differential and difference equations with nonmonotone fitnesses. (English summary)

92Exx Chemistry {For biochemistry, see 92C40.}

92E10 Molecular structure (graph-theoretic methods, methods of differential topology, etc.)

Babić, D. Isospectral benzenoid graphs with an odd number of vertices. (English summary) **93m:92025**
Balaban, Alexandru T. Solved and unsolved problems in chemical graph theory. (English summary) **93m:92026**
— *see also* **Morikawa, Tetsuo, 93i:92019**
Brunvoll, J. *see* **Cyvin, Sven J.; et al., 93h:92040** *and* **Cyvin, B. N.; et al.**
Chen, Rong Si (*with* Huang, Hai Yan; Lin, Ke Rong) Realization of k-coverable coronoid systems. (Chinese summary) **93e:92019**
— (*with* Cyvin, Sven J.) The number of Kekulé structures for rectangle-shaped benzenoids. XI. (English and Chinese summaries)
— *see also* **Zhang, Fu Ji; et al., 93b:92024**
Cyvin, B. N. (*with* Brunvoll, J.; Cyvin, Sven J.) All-benzenoid systems with trigonal symmetry. (English summary)
Cyvin, Sven J. (*with* Zhang, Fu Ji; Brunvoll, J.) Enumeration of perifusenes with one internal vertex: a complete mathematical solution. (English summary) **93h:92040**
— *see also* **Chen, Rong Si** *and* **Cyvin, B. N.; et al.**
Dobrynin, A. A. Distribution of the values of the distance of graphs of nonramified hexagonal systems. (Russian. Russian summary) **93g:92032**
— Enumeration of some subclasses of graphs of nonramified hexagonal systems. (Russian. Russian summary) **93j:92035**
Easthope, Peter L. Classifying the conformations of a chemical system using matrices of integers. (English summary)
Grund, R. (*with* Kerber, Adalbert; Laue, R.) MOLGEN, ein Computeralgebra-System für die Konstruktion molekularer Graphen. [MOLGEN, a computer algebra system for the construction of molecular graphs]
Guo, Xiao Feng (*with* Zhang, Fu Ji) Mathematical properties and structures of sets of sextet patterns of generalized polyhexes. **93d:92015**
— *see also* **Zhang, Fu Ji; et al., 93b:92024** *and* **93h:92043**
Gutman, Ivan *see* **Zhang, Fu Ji; et al., 93b:92024**
Huang, Hai Yan *see* **Chen, Rong Si; et al., 93e:92019**
John, Peter Eugen Eine zweite graphentheoretische Bemerkung zur Resonanztheorie benzenoider Kohlenwasserstoffe. (English summary) [A second graph-theoretical remark on the resonance theory of benzenoid hydrocarbons] **93d:92016**
— Two codes for hexagonal systems. (English summary)
Kerber, Adalbert *see* **Grund, R.; et al.**
Klein, D. J. (*with* Liu, X.) Theorems for carbon cages. (English summary) **93h:92041**
Klin, M. Kh. (*with* Lebedev, O. V.; Pivina, T. S.; Zefirov, N. S.) Nonisomorphic cycles of maximum length in a series of chemical graphs and the problem of application of IUPAC nomenclature rules. (English summary) **93j:92036**
Kvasnička, V. (*with* Pospíchal, J.) An improved method of constructive enumeration of graphs. **93a:92018**
— (*with* Pospíchal, J.) An existence theorem for molecular graphs determined by a sequence of valence states. (English summary)
Laue, R. *see* **Grund, R.; et al.**
Lebedev, O. V. *see* **Klin, M. Kh.; et al., 93j:92036**
Lin, Ke Rong *see* **Chen, Rong Si; et al., 93e:92019**
Liu, X. *see* **Klein, D. J., 93h:92041**
Lloyd, E. Keith Marks of permutation groups and isomer enumeration. (English summary) **93h:92042**
Mezey, Paul G. Dynamic shape analysis of molecules in restricted domains of a configuration space. (English summary)
Mihalić, Zlatko *see* **Plavšić, Dejan; et al., 93m:92027**
Morikawa, Tetsuo (*with* Balaban, Alexandru T.) Topological formulas and upper/lower bounds in chemical polygonal graphs, particularly in benzenoid polyhexes. (English summary) **93i:92019**
Nikolić, Sonja *see* **Plavšić, Dejan; et al., 93m:92027**
Pivina, T. S. *see* **Klin, M. Kh.; et al., 93j:92036**
Plavšić, Dejan (*with* Nikolić, Sonja; Trinajstić, Nenad; Mihalić, Zlatko) On the Harary index for the characterization of chemical graphs. (English summary) **93m:92027**
Pospíchal, J. *see* **Kvasnička, V., 93a:92018**
Rücker, Christoph (*with* Rücker, Gerta) Understanding the properties of isospectral points and pairs in graphs: the concept of orthogonal relation. **93c:92011**
Rücker, Gerta *see* **Rücker, Christoph, 93c:92011**
Schneebeli, H. R. Zur Geometrie der Mikrocluster. (German summary) [On the geometry of microclusters]
Skvortsova, M. I. *see* **Stankevich, I. V.; et al.**
Stankevich, I. V. (*with* Skvortsova, M. I.; Zefirov, N. S.) Topological properties of conjugated hydrocarbons: the generalized Randic index as a functional of π-electron density. (Russian)
Strokov, I. I. A method for describing chemical graphs by means of chains. (Russian. Russian summary) **93g:92033**
Tesler, Glenn The Kekulé covalent bond arrangements of C_{60}. (English summary)
Trinajstić, Nenad ★ Chemical graph theory. **93g:92034**
— *see also* **Plavšić, Dejan; et al., 93m:92027**
Türker, Lemi An upper bound for the largest eigenvalue of a graph: effect of types of vertices. **93b:92023**
Zefirov, N. S. *see* **Klin, M. Kh.; et al., 93j:92036** *and* **Stankevich, I. V.; et al.**
Zhang, Fu Ji (*with* Chen, Rong Si; Guo, Xiao Feng; Gutman, Ivan) Benzenoid systems whose (x, y, z)-invariants have $x = 1$ and $x = 2$. **93b:92024**
— (*with* Guo, Xiao Feng) The existence of Kekulé structures in helicenes and enumeration of concealed non-Kekuléan helicenes with $h \leq 13$. (English summary) **93h:92043**
— *see also* **Guo, Xiao Feng, 93d:92015** *and* **Cyvin, Sven J.; et al., 93h:92040**

Items with secondary classifications in 92E10

Bangov, Ivan P. Computer-assisted structure generation from a gross formula. IV. Fighting against graph-isomorphism disease. (English summary)
Chung, Fan R. K. (*with* Sternberg, Shlomo) Laplacian and vibrational spectra for

homogeneous graphs. (English summary) **93j:58135**
Johnson, Mark Allyn Graph transforms: a formalism for modeling chemical reaction pathways. **93c:05108**
Kolmykov, V. A. Some relations for characteristic polynomials of graphs. (Russian. Russian summary)
Konstantinova, E. V. (*with* Paleev, A. A.) Sensitivity of topological indices of polycyclic graphs. (Russian. Russian summary) **93g:05044**
Kunz, Milan A Möbius inversion of the Ulam subgraphs conjecture. **93g:05103**
McKeon, Kathleen A. The expected number of symmetries in locally-restricted trees. I. **93b:05073**
Paleev, A. A. *see* **Konstantinova, E. V., 93g:05044**
Randić, M. On enumeration of complete matchings in hexagonal lattices. (*see* **93b:05003**)
Simon, Jonathan K. Knots and chemistry. (English summary) **93k:57022**
Sternberg, Shlomo *see* **Chung, Fan R. K., 93j:58135**
Zhang, Fu Ji (*with* Zheng, Mao Lin) Generalized hexagonal systems with each hexagon being resonant. **93b:05162**
Zheng, Mao Lin *see* **Zhang, Fu Ji, 93b:05162**

92E20 Classical flows, reactions, etc. [see also 80A30, 80A32]

Bán, Miklós I. *see* **Stachó, László L., 93k:92012**
Billingham, J. (*with* Needham, D. J.) The development of travelling waves in quadratic and cubic autocatalysis with unequal diffusion rates. III. Large time development in quadratic autocatalysis. **93c:92012**
Cai, Sui Lin (*with* Tang, Heng Sheng) Bifurcations of a class of equations for biochemical reactions. (Chinese. English summary) **93d:92017**
Cole, S. L. (*with* Wilder, J. W.) Gas phase decomposition by the Lindemann mechanism. **93a:92019**
Dmitriev, È. M. (*with* Tikhonov, N. A.) Existence and uniqueness of the solution of a problem on the dynamics of multicomponent ion exchange. (Russian. Russian summary)
Dorokhov, I. N. (*with* Maseev, Yu. N.; Kafarov, V. V.) The method of discrete mappings for the prediction of the phase state of a reaction mixture in the production of multifunctional composite materials. (Russian) **93j:92037**
Gao, Hui Zhen The limit cycle of trimolecular saturated response model. **93c:92013**
Kafarov, V. V. *see* **Dorokhov, I. N.; et al., 93j:92037**
Karantonis, Antonis *see* **Pagitsas, Michael; et al., 93f:92030**
King, Andrew Charles (*with* Needham, D. J.) On a singular initial-boundary value problem for a reaction-diffusion equation arising from a simple model of isothermal chemical autocatalysis. **93g:92035**
Malinetskiĭ, G. G. (*with* Shakaeva, M. S.) On a cellular automaton that models oscillating chemical reactions on a surface. (Russian)
Maseev, Yu. N. *see* **Dorokhov, I. N.; et al., 93j:92037**
Menzinger, Michael *see* **Rovinskiĭ, A. B., 93i:92020**
Needham, D. J. *see* **Billingham, J., 93c:92012** *and* **King, Andrew Charles, 93g:92035**
Pagitsas, Michael (*with* Karantonis, Antonis; Sazou, Dimitra) Dynamical response of the quasiperiodically forced Franck-FitzHugh model for the electrodissolution of iron in sulfuric acid solutions: observation of quasiperiodic, strange nonchaotic and chaotic behavior. (English summary) **93f:92030**
Rovinskiĭ, A. B. (*with* Menzinger, Michael) Interaction of Turing and Hopf bifurcations in chemical systems. (English summary) **93i:92020**
Sazou, Dimitra *see* **Pagitsas, Michael; et al., 93f:92030**
Shakaeva, M. S. *see* **Malinetskiĭ, G. G.**
Simon, Peter L. The reversible LVA model. **93c:92014**
Spigler, Renato (*with* Zanette, Damián H.) Reaction-diffusion models from the Fokker-Planck formulation of chemical processes. (English summary) **93i:92021**
Stachó, László L. (*with* Bán, Miklós I.) Mathematical foundation of a global strategy for searching reaction paths. (English summary) **93k:92012**
Tang, Heng Sheng *see* **Cai, Sui Lin, 93d:92017**
Tikhonov, N. A. *see* **Dmitriev, È. M.**
Wilder, J. W. *see* **Cole, S. L., 93a:92019**
Zanette, Damián H. *see* **Spigler, Renato, 93i:92021**

Items with secondary classifications in 92E20

Billingham, J. (*with* Needham, D. J.) The development of travelling waves in quadratic and cubic autocatalysis with unequal diffusion rates. II. An initial value problem with an immobilized or nearly immobilized autocatalyst. **93a:80012**
Chan, Kwong-Yu *see* **Choi, Yung Sze, 93b:35057** *and* **93f:80025**
Choi, Yung Sze (*with* Chan, Kwong-Yu) Fractional step algorithm for a model problem in electrochemistry. (English summary) **93f:80025**
— (*with* Chan, Kwong-Yu) A parabolic equation with nonlocal boundary conditions arising from electrochemistry. **93b:35057**
Epperlein, Joachim (*with* Hanke, Marko; Tröltzsch, Fredi) On a system of partial differential equations occurring in double-layer-systems in photochemistry. **93a:35081**
Farr, W. W. (*with* Fitzgibbon, W. E.; Morgan, Jeff J.; Waggoner, S. J.) Asymptotic convergence for a class of autocatalytic chemical systems. (*see* **93a:00021**)
Fitzgibbon, W. E. *see* **Farr, W. W.; et al., (93a:00021)**
Glasko, V. B. (*with* Stepanova, I. È.; Yurasov, S. A.) On the uniqueness of the solution of an inverse problem of nitrocementation. (Russian) **93i:35154**
Gorskiĭ, V. G. *see* **Kuntsevich, A. D.; et al., 93h:93083**
Hanke, Marko *see* **Epperlein, Joachim; et al., 93a:35081**
Hassard, Brian (*with* Jiang, Katie) Unfolding a point of degenerate Hopf bifurcation in an enzyme-catalyzed reaction model. (English summary) **93f:34065**
Hollis, Selwyn L. (*with* Morgan, Jeff J.) Partly dissipative reaction-diffusion systems and a model of phosphorus diffusion in silicon. **93m:35104**
Jiang, Katie *see* **Hassard, Brian, 93f:34065**
Kolesov, Yu. S. Null asymptotics of the relaxation cycle of a mathematical model of the Belousov reaction. (Russian) **93g:34074**
Kudashev, V. R. *see* **Kuntsevich, A. D.; et al., 93h:93083**
Kuntsevich, A. D. (*with* Kudashev, V. R.; Spivak, S. I.; Gorskiĭ, V. G.) Group analysis of the identifiability of parameters of mathematical models of nonstationary chemical kinetics. (Russian) **93h:93083**
Lakoš, Nela (*with* Terman, David) Stable steady-state pattern formation on isothermal catalyst surfaces. (English summary) **93k:35030**
Merkin, J. H. *see* **Needham, D. J., 93a:80013**
Mimura, Masayasu Dynamics of patterns, waves, and interfaces from the reaction-diffusion aspect. (*see* **93b:00026**)
Morgan, Jeff J. *see* **Hollis, Selwyn L., 93m:35104** *and* **Farr, W. W.; et al., (93a:00021)**
Needham, D. J. (*with* Merkin, J. H.) The development of travelling waves in a simple isothermal chemical system with general orders of autocatalysis and decay. **93a:80013**
— *see also* **Billingham, J., 93a:80012**
Pollett, P. K. (*with* Vassallo, A.) Diffusion approximations for some simple chemical reaction schemes. (English summary) **93m:60147**
Scott, Stephen K. ★ Chemical chaos. **93a:58125**
Spivak, S. I. *see* **Kuntsevich, A. D.; et al., 93h:93083**
Stepanova, I. È. *see* **Glasko, V. B.; et al., 93i:35154**
Terman, David *see* **Lakoš, Nela, 93k:35030**
Tröltzsch, Fredi *see* **Epperlein, Joachim; et al., 93a:35081**
Vassallo, A. *see* **Pollett, P. K., 93m:60147**
Waggoner, S. J. *see* **Farr, W. W.; et al., (93a:00021)**
Yurasov, S. A. *see* **Glasko, V. B.; et al., 93i:35154**
Zhang, Ji Yue Self-oscillating instability in trimolecular reacting systems of the second kind. (Chinese. English and Chinese summaries) **93h:34068**
Zubov, S. V. On a procedure for determining the kinetic parameters of multistage dynamic processes. (Russian) **93a:34045**

92E99 None of the above, but in this section

Items with secondary classifications in 92E99

Alabau, Fatiha A method for proving uniqueness theorems for the stationary semiconductor device and electrochemistry equations. **93d:78006**
Dordan, Olivier Mathematical problems arising in qualitative simulation of a differential equation. **93d:68062**
Lemarchand, A. *see* **Sulpice, E.; et al., 93b:82041**
Lemarchand, H. *see* **Sulpice, E.; et al., 93b:82041**
Malinetskiĭ, G. G. (*with* Shakaeva, M. S.) Analysis of a family of cellular automata that model oscillatory chemical reactions. (Russian. English summary) **93d:65012**
Marek, Miloš (*with* Schreiber, Igor) ★ Chaotic behaviour of deterministic dissipative systems. **93c:58142**
Merkin, J. H. *see* **Needham, D. J., 93c:80016**
Meron, Ehud Pattern formation in excitable media. (English summary)
Needham, D. J. (*with* Merkin, J. H.) The effects of geometrical spreading in two and three dimensions on the formation of travelling wavefronts in a simple, isothermal, chemical system. **93c:80016**
Schreiber, Igor *see* **Marek, Miloš, 93c:58142**
Shakaeva, M. S. *see* **Malinetskiĭ, G. G., 93d:65012**
Sulpice, E. (*with* Lemarchand, A.; Lemarchand, H.) Normal form of stochastic equations for chemical systems near bifurcation points. **93b:82041**

92F05 Other natural sciences

92Gxx Social and behavioral sciences: methodology {For statistics, see 62–XX.}

92G05 Measurement theory

Vityaev, E. E. Discovering regularities (methodology, method, the program system SINTEZ). I. Methodology. (Russian. Russian summary) **93m:92028**
Wille, Rudolf (*with* Wille, Uta) On the controversy over Huntington's equations. When are such equations meaningful? (English summary) **93m:92029**
Wille, Uta *see* **Wille, Rudolf, 93m:92029**

Items with secondary classifications in 92G05

Cook, Wade D. (*with* Kress, Moshe) ★ Ordinal information and preference structures. **93j:90009**
Fishburn, Peter C. (*with* Lavalle, Irving H.) Multiattribute expected utility without the Archimedean axiom. (English summary) **93j:90007**
Kress, Moshe *see* **Cook, Wade D., 93j:90009**
Lavalle, Irving H. *see* **Fishburn, Peter C., 93j:90007**
Voronin, Yu. A. ★ Начала теории сходства. (Russian) [Elements of similarity theory] **93c:00005**
Wakker, Peter Additive representations on rank-ordered sets. II. The topological approach. (English summary) **93m:92031**

92Hxx Mathematical sociology (including anthropology)

92H10 Models of societies, social and urban evolution

Allen, G. D. Toward a dynamics for power and control in society. (English summary) **93h:92044**
Boyd, John Paul Relational homomorphisms. **93c:92015**
Bracken, Anthony J. (*with* Tuckwell, Henry C.) Simple mathematical models for urban growth.
Petersen, Ivar On a mathematical model of democratic development. (Estonian. English and Russian summaries) (*see* **93m:00023**)

Sozański, Tadeusz A combinatorial theory of minimal social situations. (English summary) **93h:92045**
Tuckwell, Henry C. *see* **Bracken, Anthony J.**

Items with secondary classifications in 92H10

Conlisk, John Stability and monotonicity for interactive Markov chains. (English summary) **93k:60166**
Kang, Shi Kun *see* **Zhang, Shi Sheng; et al.**
Peng, Yong Cheng *see* **Zhang, Shi Sheng; et al.**
Young, H. Peyton The evolution of conventions. (English summary) **93j:92038**
Zhang, Shi Sheng (*with* Kang, Shi Kun; Peng, Yong Cheng) The Browder fixed point theorem in H-spaces and its application to social equilibrium problems. (Chinese. English and Chinese summaries)

92H20 Mathematical geography and demography

Ikeda, Tetsuya (*with* Kunii, Tosiyasu L.; Shinagawa, Yoshihisa; Ueda, Minoru) A geographical database system based on the homotopy model. (English summary) (*see* **93f:68006**)
Kunii, Tosiyasu L. *see* **Ikeda, Tetsuya; et al.**, (**93f:68006**)
Shinagawa, Yoshihisa *see* **Ikeda, Tetsuya; et al.**, (**93f:68006**)
Ueda, Minoru *see* **Ikeda, Tetsuya; et al.**, (**93f:68006**)

92H30 Social networks

Kuokkanen, Martti A generalization of the role expectation conflict theory with a methodological analysis. (English summary)
Sparrow, Malcolm K. A linear algorithm for computing automorphic equivalence classes: the numerical signatures approach. (English summary)
Young, H. Peyton The evolution of conventions. (English summary) **93j:92038**

Items with secondary classifications in 92H30

Conlisk, John Stability and monotonicity for interactive Markov chains. (English summary) **93k:60166**
Nowicki, Krzysztof Asymptotic distributions in random graphs with applications to social networks. **93a:60016**
Petersen, Ivar Equilibria in noncooperative competition of political parties having a common rate of morality. (English summary) **93m:92030**

92H35 Manpower systems [see also 90A50, 90B70]

Hedström, Peter Organizational vacancy chains and the attainment process. (English summary)
Petersen, Ivar Equilibria in noncooperative competition of political parties having a common rate of morality. (English summary) **93m:92030**

92H99 None of the above, but in this section

Brigham, Robert C. *see* **Dutton, Ronald D., 93a:92020**
Dutton, Ronald D. (*with* Brigham, Robert C.) Compatible committees. **93a:92020**

Items with secondary classifications in 92H99

Kaneko, Mamoru (*with* Kimura, Toshiyuki) Conventions, social prejudices and discrimination: a festival game with merrymakers. (English summary) **93g:90109**
Kimura, Toshiyuki *see* **Kaneko, Mamoru, 93g:90109**

92Jxx Mathematical psychology

92J10 Cognitive psychology

Items with secondary classifications in 92J10

(Penrose, Roger) *see* **Sloman, Aaron, 93h:00011**
Sloman, Aaron The emperor's real mind: review of R. Penrose's *The emperor's new mind* [Oxford Univ. Press, New York, 1989; MR 91c:00010]. (English summary) **93h:00011**

92J30 Psychophysics and psychophysiology; perception

Bennett, Bruce M. (*with* Hoffman, Donald D.; Kakarala, Ramakrishna) Modeling performance in observer theory. (English summary)
Hoffman, Donald D. *see* **Bennett, Bruce M.; et al.**
Howison, Sam D. (*with* Lawrence, R. J.) Fluorescent transfer of light in dyed materials. (English summary) **93k:92013**
Kadlec, Helena (*with* Townsend, James T.) Implications of marginal and conditional detection parameters for the separabilities and independence of perceptual dimensions. (English summary)
Kakarala, Ramakrishna *see* **Bennett, Bruce M.; et al.**
Lawrence, R. J. *see* **Howison, Sam D., 93k:92013**
Townsend, James T. *see* **Kadlec, Helena**

Items with secondary classifications in 92J30

Beja, Avraham (*with* Gilboa, Itzhak) Numerical representations of imperfectly ordered preferences (a unified geometric exposition). (English summary) **93f:90019**
Cybenko, G. Correction: "Approximation by superpositions of a sigmoidal function" [Math. Control Signals Systems **2** (1989), no. 4, 303–314; MR 90m:41033]. **93g:41012**
Diamantaras, K. *see* **Kung, S. Y.; et al., 93d:92005**
Gilboa, Itzhak *see* **Beja, Avraham, 93f:90019**
Kung, S. Y. (*with* Diamantaras, K.; Mao, W. D.; Taur, J. S.) Generalized perceptron networks with nonlinear discriminant functions. **93d:92005**
Lighthill, Michael James Acoustic streaming in the ear itself. (English summary) **93k:76131**
Lindeberg, Tony Scale-space behaviour of local extrema and blobs. **93g:68150**
Mao, W. D. *see* **Kung, S. Y.; et al., 93d:92005**
Moons, Theo *see* **Van Gool, Luc; et al., 93i:68154**
Oosterlinck, André *see* **Van Gool, Luc; et al., 93i:68154**
Pauwels, Eric *see* **Van Gool, Luc; et al., 93i:68154**
Pong, Simon W. L. (*with* Venetsanopoulos, Anastasios N.) Rotationally invariant pecstrum: a rotationally invariant object descriptor based on mathematical morphology. (English summary)
Singer, Hermann The aliasing-phenomenon in visual terms. (English summary)
Taur, J. S. *see* **Kung, S. Y.; et al., 93d:92005**
Van Gool, Luc (*with* Moons, Theo; Pauwels, Eric; Oosterlinck, André) Invariant based object recognition. (English summary) **93i:68154**
Venetsanopoulos, Anastasios N. *see* **Pong, Simon W. L.**

92J40 Memory and learning [see also 68T05]

Jordan, Michael I. Constrained supervised learning. (English summary) **93h:92046**
Shen, Ching Fan A note on the multiple-trace memory model without simulation. (English summary) **93h:92047**

Items with secondary classifications in 92J40

Natarajan, B. K. Probably approximate learning over classes of distributions. **93m:68142**
Schempp, Walter Bohr's indeterminacy principle in quantum holography, self-adaptive neural networks, cortical self-organization, molecular computers, magnetic resonance imaging, and solitonic nanotechnology.

92J45 Measurement and performance

Carriere, Jacques (*with* Finster, Mark) Statistical theory for the ratio model of paired comparisons. (English summary)
Finster, Mark *see* **Carriere, Jacques**
Nakamura, Yutaka Multisymmetric structures and nonexpected utility. (English summary) **93i:92022**
Wakker, Peter Additive representations on rank-ordered sets. I. The algebraic approach. **93a:92021**
— Additive representations on rank-ordered sets. II. The topological approach. (English summary) **93m:92031**

Items with secondary classifications in 92J45

Cook, Wade D. (*with* Kress, Moshe) ★ Ordinal information and preference structures. **93j:90009**
Filatova, S. A. *see* **Golubtsov, P. V., 93h:00013**
Fishburn, Peter C. (*with* Monjardet, Bernard) Norbert Wiener on the theory of measurement (1914, 1915, 1921). **93e:92001**
Golubtsov, P. V. (*with* Filatova, S. A.) Multivalued measurement-computer systems. (Russian. English and Russian summaries) **93h:00013**
Kress, Moshe *see* **Cook, Wade D., 93j:90009**
Monjardet, Bernard *see* **Fishburn, Peter C., 93e:92001**
Trout, J. D. Robustness and integrative survival in significance testing: the world's contribution to rationality. (English summary)
(Wiener, Norbert) *see* **Fishburn, Peter C., 93e:92001**
Wille, Rudolf (*with* Wille, Uta) On the controversy over Huntington's equations. When are such equations meaningful? (English summary) **93m:92029**
Wille, Uta *see* **Wille, Rudolf, 93m:92029**

92J99 None of the above, but in this section

Gilboa, Itzhak (*with* Monderer, Dov) A game-theoretic approach to the binary stochastic choice problem. (English summary) **93m:92032**
Monderer, Dov The stochastic choice problem: a game-theoretic approach. (English summary) **93m:92033**
— *see also* **Gilboa, Itzhak, 93m:92032**

Items with secondary classifications in 92J99

(Balibar, Françoise) *see* **Penrose, Roger, 93k:00013**
Cohen, Michael A. Necessary and sufficient conditions for existence and uniqueness of weak qualitative probability structures. **93d:60004**
(Gardner, Martin) *see* **Penrose, Roger, 93k:00013**
Kuokkanen, Martti A generalization of the role expectation conflict theory with a methodological analysis. (English summary)
Penrose, Roger ★ L'esprit, l'ordinateur et les lois de la physique. (French) [Minds, computers and the laws of physics] **93k:00013**
Polák, Václav ★ Mathematized humanities via humanized mathematics. **93k:03027**
Thiopoulos, Constantin Towards a logic of semiotic systems. (French summary) **93c:68063**
(Tiercelin, Claudine) *see* **Penrose, Roger, 93k:00013**

92Kxx Other social and behavioral sciences (mathematical treatment)

92K10 History, political science

Durand, Jeffrey (*with* Durand, Roger) Fitting and testing a "predator-prey" model. (English summary)
Durand, Roger *see* **Durand, Jeffrey**
Fomenko, A. T. *see* **Nosovskii, G. V., 93f:92031**

Harrington, Joseph E., Jr. Modelling the role of information in elections. (English summary) **93m:92034**
Ingberman, Daniel E. Incumbent reputations and ideological campaign contributions in spatial competition. (English summary) **93g:92036**
(Johnson, Paul E.) *see* **Formal theories of politics, 93d:92018**
Nosovskii, G. V. (*with* Fomenko, A. T.) Identifying duplicates in chronological lists (the method of frequency histograms for the spread of related names). **93f:92031**

Items listed otherwise than by author

Formal theories of politics ★ Formal theories of politics. II. **93d:92018**
Special Issue:
Formal theories of politics ★ Formal theories of politics. II. **93d:92018**

Items with secondary classifications in 92K10

Abraham, Ralph (*with* Keith, Alexander; Koebbe, Matthew; Mayer-Kress, Gottfried) Computational unfolding of double-cusp models of opinion formation. **93b:58023**
Allen, G. D. Toward a dynamics for power and control in society. (English summary) **93h:92044**
Keith, Alexander *see* **Abraham, Ralph; et al., 93b:58023**
Koebbe, Matthew *see* **Abraham, Ralph; et al., 93b:58023**
Mayer-Kress, Gottfried *see* **Abraham, Ralph; et al., 93b:58023**
Petersen, Ivar On a mathematical model of democratic development. (Estonian. English and Russian summaries) (*see* **93m:00023**)

92K20 Linguistics [see also 03B65, 68S05]

Items with secondary classifications in 92K20

Lorenzetti, M. Suggestions for a possible notion of translation. **93b:03112**
Purdy, William C. Surface reasoning. **93a:03027**

92K99 None of the above, but in this section

Hartl, R. F. (*with* Mehlmann, A.; Novak, A.) Cycles of fear: periodic bloodsucking rates for vampires. (English summary)
Lewis, Cathryn M. The use of graph theory techniques to investigate genealogical structure. (English summary) **93i:92023**
Mehlmann, A. *see* **Hartl, R. F.; et al.**
Novak, A. *see* **Hartl, R. F.; et al.**

Items with secondary classifications in 92K99

Batabyal, Amitrajeet A. Environmental pollution and unilateral control in an open economy. (English summary) **93f:90046**
Nakai, Teruhisa An optimal stopping problem in the excavation of archaeological remains. **93a:60067**

93-XX Systems theory; control {For optimal control, see 49-XX.}

93-00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Dorato, P. (*with* Tempo, Roberto; Muscato, G.) Bibliography on robust control. (English summary) **93j:93001**
Muscato, G. *see* **Dorato, P.; et al., 93j:93001**
Tempo, Roberto *see* **Dorato, P.; et al., 93j:93001**

Items with secondary classifications in 93-00

Items listed otherwise than by author

Index:
IEEE Trans. Automat. Control Control Systems Society index. Cumulative index, 1981–1991, Volumes AC-26–AC-36. Part II. **93g:00009**

93-01 Instructional exposition (textbooks, tutorial papers, etc.)

Isermann, Rolf ★ Digital control systems. Vol. 1. (English. English summary) **93h:93001**
Kaczorek, Tadeusz ★ Linear control systems. Vol. 1. **93k:93001**
Kučera, Vladimír ★ Analysis and design of discrete linear control systems. **93j:93002**
Leigh, J. R. ★ Control theory. **93j:93003**
Meirovitch, Leonard ★ Dynamics and control of structures. **93a:93001**
Roitenberg, Ya. N. ★ Автоматическое управление. (Russian. English and Russian summaries) [Automatic control] **93m:93001**
Shinners, Stanley M. ★ Modern control system theory and design. **93j:93004**
Sinha, Naresh K. ★ Linear systems. **93d:93001**
(Tsypkin, Ya. Z.) *see* **Roitenberg, Ya. N., 93m:93001**
(Wilson, Derek R.) *see* **Kaczorek, Tadeusz, 93k:93001**

Items with secondary classifications in 93-01

Casti, John L. ★ Reality rules. I. **93i:00010a**
— ★ Reality rules. II. **93i:00010b**
Cunningham, Edward P. ★ Digital filtering. **93g:94001**
Doyle, John C. (*with* Francis, Bruce Allen; Tannenbaum, Allen R.) ★ Feedback control theory. **93k:93002**
Francis, Bruce Allen *see* **Doyle, John C.; et al., 93k:93002**
(Isermann, Helge) *see* **Isermann, Rolf, 93b:93002**
Isermann, Rolf ★ Digital control systems. Vol. 2. **93b:93002**
Khalil, Hassan K. ★ Nonlinear systems. **93k:34001**
Léonard, Daniel (*with* Long, Ngo Van) ★ Optimal control theory and static optimization in economics. **93d:49002**
Long, Ngo Van *see* **Léonard, Daniel, 93d:49002**
Tannenbaum, Allen R. *see* **Doyle, John C.; et al., 93k:93002**
Zabczyk, Jerzy ★ Mathematical control theory: an introduction. **93h:49001**

93-02 Research exposition (monographs, survey articles)

Akhmetzyanov, A. V. *see* **Meerov, M. V.; et al., 93a:93003**
Aplevich, J. D. ★ Implicit linear systems. **93b:93001**
(Banks, H. T.) *see* **Control and estimation in distributed parameter systems, 93h:93006**
Başar, Tamer (*with* Bernhard, Pierre) ★ H^∞-optimal control and related minimax design problems. **93c:93001**
Basile, Giuseppe (*with* Marro, Giovanni) ★ Controlled and conditioned invariants in linear system theory. **93e:93001**
Bensoussan, Alain ★ Stochastic control of partially observable systems. **93i:93001**
Bernhard, Pierre *see* **Başar, Tamer, 93c:93001**
Bershchanskiĭ, Ya. M. *see* **Meerov, M. V.; et al., 93a:93003**
Bessonov, A. A. (*with* Zagashvili, Yu. V.; Markelov, A. S.) ★ Методы и средства идентификации динамических объектов. (Russian. Russian summary) [Methods and means for the identification of dynamic objects] **93m:93002**
Chen, Han Fu (*with* Guo, Lei; Zhang, Ji Feng) Identification and adaptive control for ARMAX systems. **93a:93002**
— Stochastic adaptive control. (English summary) **93j:93005**
Dai, Guan Zhong *see* **Zhang, You Min; et al.**
Dorato, P. (*with* Fortuna, L.; Muscato, G.) ★ Robust control for unstructured perturbations—an introduction. **93h:93002**
Doyle, John C. (*with* Francis, Bruce Allen; Tannenbaum, Allen R.) ★ Feedback control theory. **93k:93002**
Falb, Peter ★ Methods of algebraic geometry in control theory. Part I. (English. English summary) **93m:93003**
Fomin, V. N. ★ Discrete linear control systems. **93d:93002**
Fortuna, L. *see* **Dorato, P.; et al., 93h:93002**
Francis, Bruce Allen *see* **Doyle, John C.; et al., 93k:93002**
Gawthrop, P. J. *see* **Hunt, K. J.; et al., 93i:93002**
Gorelik, V. A. (*with* Gorelov, M. A.; Kononenko, A. F.) ★ Анализ конфликтных ситуаций в системах управления. (Russian) [Analysis of conflict situations in control systems] **93c:93002**
Gorelov, M. A. *see* **Gorelik, V. A.; et al., 93c:93002**
Guo, Lei *see* **Chen, Han Fu; et al., 93a:93002**
Habets, L. C. G. J. M. ★ Stabilization of time-delay systems: an overview of the algebraic approach. **93j:93006**
Halanay, Aristide Advances in linear control theory and Riccati equations. (English summary) **93k:93003**
Han, Zheng Zhi *see* **Zhang, Zhong Jun**
Helton, J. William Two topics in systems engineering: frequency domain design and nonlinear systems. **93g:93001**
Hunt, K. J. (*with* Sbarbaro, D.; Żbikowski, R.; Gawthrop, P. J.) Neural networks for control systems—a survey. (English summary) **93i:93002**
Ioannou, Petros A. *see* **Tsakalis, Kostas S., 93k:93006**
(Isermann, Helge) *see* **Isermann, Rolf, 93b:93002**
Isermann, Rolf ★ Digital control systems. Vol. 2. **93b:93002**
Ishijima, Shintaro Nonlinear control theory at the practical stage(!?). I. Zero dynamics and local stabilization. (Japanese)
Isidori, Alberto Topics in nonlinear control theory. (English summary) (*see* **93d:92001**)
Israilov, I. *see* **Kirin, N. E., 93b:93003**
Jiang, Zhi Hua (*with* Schaufelberger, W.) ★ Block pulse functions and their applications in control systems. **93d:93003**
Kirichenko, N. F. Control theory. A survey of the scientific results of the author. (Russian. Russian summary)
Kirin, N. E. (*with* Israilov, I.) ★ Оценочные системы в задачах теории управления. (Russian) [Evaluative systems in problems in control theory] **93b:93003**
Kononenko, A. F. *see* **Gorelik, V. A.; et al., 93c:93002**
Korbicz, Józef (*with* Zgurovskiĭ, M. Z.) ★ Estymacja i sterowanie stochastyczne układami o parametrach rozłożonych. (Polish) [Estimation and control of stochastic systems with distributed parameters] **93f:93001**
Krabs, W. ★ On moment theory and controllability of one-dimensional vibrating systems and heating processes. **93f:93002**
Krasheninnikov, V. R. *see* **Vasil'ev, K. K., 93h:93004**
Kuntsevich, V. M. (*with* Lychak, M.) ★ Guaranteed estimates, adaptation and robustness in control systems. **93b:93004**
Kurfess, Thomas R. (*with* Nagurka, Mark L.) Foundations of classical control theory with reference to eigenvalue geometry. (English summary) **93k:93004**
de Larminat, P. A survey on robust control. (English summary) **93i:93003**
Lewis, Frank L. A tutorial on the geometric analysis of linear time-invariant implicit systems. **93b:93005**
Ljung, Lennart ★ Идентификация систем. Теория для пользователя. (Russian) [System identification. Theory for the user] **93e:93002**
— An introduction to system identification concepts. (*see* **93d:92001**)
Lychak, M. *see* **Kuntsevich, V. M., 93b:93004**
(Mandel', A. S.) *see* **Ljung, Lennart, 93e:93002**
Markelov, A. S. *see* **Bessonov, A. A.; et al., 93m:93002**
Marro, Giovanni *see* **Basile, Giuseppe, 93e:93001**
Meerov, M. V. (*with* Akhmetzyanov, A. V.; Bershchanskiĭ, Ya. M.; et al.) ★ Многосвязные системы управления. (Russian) [Multivariable control systems] **93a:93003**
Mehrmann, Volker ★ The autonomous linear quadratic control problem. **93d:93004**
Muscato, G. *see* **Dorato, P.; et al., 93h:93002**

Nagurka, Mark L. *see* **Kurfess, Thomas R., 93k:93004**
(Nazin, A. V.) *see* **Ljung, Lennart, 93e:93002**
Novaković, Zoran R. ★ The principle of self-support in control systems. **93k:93005**
Ogarkov, M. A. ★ Методы статистического оценивания параметров случайных процессов. (Russian. Russian summary) [Methods for the statistical estimation of parameters of random processes] **93h:93003**
Owens, David H. *see* **Rogers, Eric L., 93f:93003**
Pintelon, R. *see* **Schoukens, J., 93i:93004**
Rogers, Eric L. (*with* Owens, David H.) ★ Stability analysis for linear repetitive processes. **93f:93003**
Sbarbaro, D. *see* **Hunt, K. J.; et al., 93i:93002**
Schaufelberger, W. *see* **Jiang, Zhi Hua, 93d:93003**
Schoukens, J. (*with* Pintelon, R.) ★ Identification of linear systems. **93i:93004**
Tannenbaum, Allen R. *see* **Doyle, John C.; et al., 93k:93002**
Tsakalis, Kostas S. (*with* Ioannou, Petros A.) ★ Linear time-varying systems. **93k:93006**
(Tsypkin, Ya. Z.) *see* **Ljung, Lennart, 93e:93002**
Vasil'ev, K. K. (*with* Krasheninnikov, V. R.) ★ Методы фильтрации многомерных случайных полей. (Russian. Russian summary) [Methods for filtering multidimensional random fields] **93h:93004**
van der Wegen, L. L. M. ★ Local disturbance decoupling with stability for nonlinear systems. **93h:93005**
Yatsenko, Yu. P. ★ Интегральные модели систем с управляемой памятью. (Russian) [Integral models of systems with controllable memory] **93g:93002**
Zagashvili, Yu. V. *see* **Bessonov, A. A.; et al., 93m:93002**
Żbikowski, R. *see* **Hunt, K. J.; et al., 93i:93002**
Zgurovskii, M. Z. *see* **Korbicz, Józef, 93f:93001**
Zhang, Hong Cai *see* **Zhang, You Min; et al.**
Zhang, Ji Feng *see* **Chen, Han Fu; et al., 93a:93002**
Zhang, You Min (*with* Dai, Guan Zhong; Zhang, Hong Cai) A survey of implementations of parallel Kalman filtering and its systolic arrays. (Chinese. English and Chinese summaries)
Zhang, Zhong Jun (*with* Han, Zheng Zhi) New developments in some advanced topics in control theory. (Chinese. English and Chinese summaries)

Items listed otherwise than by author

Control and estimation in distributed parameter systems ★ Control and estimation in distributed parameter systems. **93h:93006**

Items with secondary classifications in 93–02

Andreeva, E. A. (*with* Kolmanovskiĭ, V. B.; Shaĭkhet, L. E.) ★ Управление системами с последействием. (Russian. English and Russian summaries) [Control of systems with aftereffect] **93i:49001**
Chukwu, E. N. ★ Stability and time-optimal control of hereditary systems. **93d:49003**
Dembélé, D. *see* **Favier, G.; et al., (93h:93009)**
Doyle, John C. *see* **Packard, Andy, 93k:93042**
Farison, James B. (*with* Kolla, Sri R.) Techniques in stability robustness bounds for linear discrete-time systems. **93h:93054**
Favier, G. (*with* Settineri, R.; Dembélé, D.; Peyre, J. L.) ARMA identification: a survey. (English summary) (*see* **93h:93009**)
Fiorio, Giovanni (*with* Milanese, M.; Vicino, Antonio) Robust stability and performance in the presence of parametric and norm bounded uncertainty. **93f:93101**
Fornasini, E. (*with* Marchesini, Giovanni) Topics in 2D systems theory. (*see* **93a:93006**)
Georgiou, Tryphon T. (*with* Smith, Malcolm Clive) Topological approaches to robustness. (English summary) **93k:93038**
Gevers, Michel Connecting identification and robust control: a new challenge. (English summary) (*see* **93h:93009**)
Grimble, M. J. Generalized predictive optimal control: an introduction to the advantages and limitations. **93f:93139**
Isermann, Rolf ★ Digital control systems. Vol. 1. (English. English summary) **93h:93001**
Jury, Eliahu I. *see* **Tsypkin, Ya. Z.; et al., 93m:93078**
Kaczorek, Tadeusz ★ Linear control systems. Vol. 1. **93k:93001**
Katayama, Tohru Solution to Wiener filtering problem via H_2 optimal control theory. (English summary) **93k:93110**
Khalil, Hassan K. ★ Nonlinear systems. **93k:34001**
Kolla, Sri R. *see* **Farison, James B., 93h:93054**
Kolmanovskiĭ, V. B. *see* **Andreeva, E. A.; et al., 93i:49001**
Kučera, Vladimír ★ Analysis and design of discrete linear control systems. **93j:93002**
Kwakernaak, Huibert The polynomial approach to $\mathcal{H}_\infty$-optimal regulation. (English summary) **93i:93046**
Larin, V. B. Optimization in a Hardy space and a problem of parametrization of controllers (a survey). (Russian. English and Ukrainian summaries) **93g:93049**
Lê Hông Vân *see* **Tsypkin, Ya. Z.; et al., 93m:93078**
Loiseau, Jean J. Pole placement and related problems. **93c:93031**
Magni, Jean-François A geometric approach to pole assignment by output feedback. (English summary) **93j:93061**
Marchesini, Giovanni *see* **Fornasini, E., (93a:93006)**
Milanese, M. *see* **Fiorio, Giovanni; et al., 93f:93101**
Morse, A. Stephen A conceptual framework for parameter adaptive control. (English summary) **93h:93042**
Packard, Andy (*with* Doyle, John C.) The complex structured singular value. (English summary) **93k:93042**
Peyre, J. L. *see* **Favier, G.; et al., (93h:93009)**
Polyak, B. T. *see* **Tsypkin, Ya. Z.; et al., 93m:93078**
Pritchard, A. J. Introduction to semigroup theory. (English summary) **93m:93052**
Roxin, Emilio O. The attainable set in control systems. (English summary) **93k:93010**
Settineri, R. *see* **Favier, G.; et al., (93h:93009)**
Shaĭkhet, L. E. *see* **Andreeva, E. A.; et al., 93i:49001**
Shinners, Stanley M. ★ Modern control system theory and design. **93j:93004**
Smith, Malcolm Clive *see* **Georgiou, Tryphon T., 93k:93038**
Tempo, Roberto *see* **Tsypkin, Ya. Z.; et al., 93m:93078**
Thuijsman, F. ★ Optimality and equilibria in stochastic games. **93h:90117**
Townley, Stuart Robust stability radii for distributed parameter systems: a survey. (English summary) **93m:93077**
Tsypkin, Ya. Z. (*with* Jury, Eliahu I.; Tempo, Roberto; Polyak, B. T.; Lê Hông Vân) Discussion of the robustness problem in control systems. (Russian) **93m:93078**
Ushakov, I. A. *see* **Volkovich, V. L.; et al., 93j:90004**
Vicino, Antonio *see* **Fiorio, Giovanni; et al., 93f:93101**
Volkovich, V. L. (*with* Voloshin, A. F.; Zaslavskiĭ, V. A.; Ushakov, I. A.) ★ Модели и методы оптимизации надежности сложных систем. (Russian. Russian summary) [Models and methods for optimizing the reliability of complex systems] **93j:90004**
Voloshin, A. F. *see* **Volkovich, V. L.; et al., 93j:90004**
Voronin, A. N. ★ Многокритериальный синтез динамических систем. (Russian. Russian summary) [Multicriterial synthesis of dynamical systems] **93j:90005**
(Wilson, Derek R.) *see* **Kaczorek, Tadeusz, 93k:93001**
Xu, Jian Min *see* **Zhou, Qi Jie**
Zaslavskiĭ, V. A. *see* **Volkovich, V. L.; et al., 93j:90004**
Zhou, Qi Jie (*with* Xu, Jian Min) A survey on neural network control systems. (Chinese. English and Chinese summaries)

93–04 Explicit machine computation and programs (not the theory of computation or programming)

Conley, William Cleland Simulation applied to a three hundred degree polynomial. (English summary) **93k:93007**

Items with secondary classifications in 93–04

Khatuntsev, A. P. *see* **Korepanov, È. R.; et al.**
Korepanov, È. R. (*with* Pugachev, V. S.; Sinitsyn, I. N.; Khatuntsev, A. P.; Shin, V. I.; Sinitsyn, V. I.) Mathematical software for the design of conditionally optimal filters and the analysis of processes in discrete stochastic systems. (Russian. Russian summary)
Pugachev, V. S. *see* **Korepanov, È. R.; et al.**
Shin, V. I. *see* **Korepanov, È. R.; et al.**
Sinitsyn, I. N. *see* **Korepanov, È. R.; et al.**
Sinitsyn, V. I. *see* **Korepanov, È. R.; et al.**

93–06 Proceedings, conferences, collections, etc.

Åström, Karl Johan Adaptive control—a perspective. (English summary) (*see* **93j:93007**)
(Balakrishnan, A. V.) *see* **Mathematical theory of control, 93g:93003**
(Bányász, Cs.) *see* **Identification and system parameter estimation, 93h:93009**
(Bensoussan, Alain) *see* **Analysis and optimization of systems: state and frequency domain approaches for infinite-dimensional systems, 93i:93005**
(Borne, Pierre) *see* **Mathematics of the analysis and design of process control, 93g:93004**
(Brykalov, S. A.) *see* **Control problems with guaranteed result, 93h:93008**
(Chen, Shu Ping) *see* **Control theory, stochastic analysis and applications, 93a:93005**
(Curtain, Ruth F.) *see* **Analysis and optimization of systems: state and frequency domain approaches for infinite-dimensional systems, 93i:93005**
(Devanathan, Rajagopalan) *see* **Intelligent tuning and adaptive control, 93i:93007**
(Duncan, Tyrone E.) *see* **Stochastic theory and adaptive control, 93g:93007**
(Durrani, T. S.) *see* **Adaptive systems in control and signal processing, 93j:93007**
Gibbard, M. J. *see* **Stefanidis, P.; et al., 93a:93004**
(Grimble, M. J.) *see* **Adaptive systems in control and signal processing, 93j:93007**
(Halousková, Alena) *see* **Advanced methods in adaptive control for industrial applications, 93c:93003**
(Hanus, Raymond) *see* **Mathematical and intelligent models in system simulation, 93c:93005**
(Hinrichsen, Diederich) *see* **Control of uncertain systems, 93i:93006**
(Hosoe, Shigeyuki) *see* **Robust control, 93f:93006**
(Isidori, Alberto) *see* **Systems, models and feedback: theory and applications, 93a:93006**
(Johnson, Michael A.) *see* **Adaptive systems in control and signal processing, 93j:93007**
(Joshi, Mohan C.) *see* **Mathematical theory of control, 93g:93003**
(Karatueva, N. A.) *see* **Development and application of the method of Lyapunov functions, 93m:93005**
(Kárný, Miroslav) *see* **Advanced methods in adaptive control for industrial applications, 93c:93003** *and* **Mutual impact of computing power and control theory, 93f:93005**
(Keviczky, L.) *see* **Identification and system parameter estimation, 93h:93009**
(Kimura, Hidenori) *see* **Recent advances in mathematical theory of systems, control, networks and signal processing, 93g:93005** *and* **93g:93006**
(Kodama, Shinzo) *see* **Recent advances in mathematical theory of systems, control, networks and signal processing, 93g:93005** *and* **93g:93006**
(Kokotović, P. V.) *see* **Foundations of adaptive control, 93c:93004**
(Kool, P.) *see* **Mathematical and intelligent models in system simulation, 93c:93005**
(Kozin, F.) *see* **Systems and control, 93f:93007**
(Krotov, V. F.) *see* **Applied problems in optimal control: models, methods and algorithms, 93m:93004**
(Kurzhanskiĭ, A. B.) *see* **Modelling and inverse problems of control for distributed parameter systems, 93d:93006**
(Lasiecka, Irena) *see* **Modelling and inverse problems of control for distributed parameter systems, 93d:93006**
(Leondes, Cornelius T.) *see* **Robust control system techniques and applications, 93d:93007** *and* **93d:93008**
(Lions, Jacques-Louis) *see* **Analysis and optimization of systems: state and frequency domain approaches for infinite-dimensional systems, 93i:93005**
(Mårtensson, Bengt) *see* **Control of uncertain systems, 93i:93006**
(Matrosov, V. M.) *see* **Development and application of the method of Lyapunov functions, 93m:93005**
(Mosca, Edoardo) *see* **H_∞-control theory, 93d:93005**
(Ono, Toshiro) *see* **Systems and control, 93f:93007**
(Owens, David H.) *see* **Adaptive systems in control and signal processing, 93j:93007**
(Pandolfi, Luciano) *see* **H_∞-control theory, 93d:93005**
Papliński, A. P. *see* **Stefanidis, P.; et al., 93a:93004**

(Pasik-Duncan, Bożenna) *see* **Stochastic theory and adaptive control, 93g:93007**
(Pyatnitskii, E. S.) *see* **Applied problems in optimal control: models, methods and algorithms, 93m:93004**
(Radhy, Nour-Eddine) *see* **Mathematics of the analysis and design of process control, 93g:93004**
(Ruberti, Antonio) *see* **Systems, models and feedback: theory and applications, 93a:93006**
Stefanidis, P. (*with* Papliński, A. P.; Gibbard, M. J.) ★ Numerical operations with polynomial matrices. **93a:93004**
(Subbotin, A. I.) *see* **Control in dynamical systems, 93f:93004** *and* **Control problems with guaranteed result, 93h:93008**
(Sydow, Achim) *see* **Computational systems analysis, 93b:93006**
(Tarn, Tzyh Jong) *see* **Systems, models and feedback: theory and applications, 93a:93006**
(Tzafestas, Spyros G.) *see* **Mathematical and intelligent models in system simulation, 93c:93005** *and* **Mathematics of the analysis and design of process control, 93g:93004**
(Ushakov, V. N.) *see* **Control in dynamical systems, 93f:93004**
(Warwick, Kevin) *see* **Advanced methods in adaptive control for industrial applications, 93c:93003** *and* **Mutual impact of computing power and control theory, 93f:93005**
(Yong, Jiong Min) *see* **Control theory, stochastic analysis and applications, 93a:93005**
(Zabczyk, Jerzy) *see* **Stochastic systems and optimization, 93d:93009**
(Zolésio, Jean-Paul) *see* **Stabilization of flexible structures, 93c:93006**

Items listed otherwise than by author

Adaptive systems in control and signal processing ★ Adaptive systems in control and signal processing. 1989. **93j:93007**
Advanced methods in adaptive control for industrial applications ★ Advanced methods in adaptive control for industrial applications. **93c:93003**
Analysis and optimization of systems: state and frequency domain approaches for infinite-dimensional systems ★ Analysis and optimization of systems: state and frequency domain approaches for infinite-dimensional systems. **93i:93005**
Applied problems in optimal control: models, methods and algorithms ★ Прикладные задачи оптимального управления: модели, методы, алгоритмы. (Russian) [Applied problems in optimal control: models, methods and algorithms] **93m:93004**
Birthday:
  Ruberti, Antonio ★ Systems, models and feedback: theory and applications. **93a:93006**
Bombay ★ Mathematical theory of control. **93g:93003**
Bremen ★ Control of uncertain systems. **93i:93006**
Brussels ★ Mathematical and intelligent models in system simulation. I, II. **93c:93005**
Budapest ★ Identification and system parameter estimation 1991. Vol. 1, 2. **93h:93009**
Capri ★ Systems, models and feedback: theory and applications. **93a:93006**
Como ★ H_∞-control theory. **93d:93005**
Computational systems analysis ★ Computational systems analysis. **93b:93006**
Conference:
  Analysis and Optimization of Systems ★ Analysis and optimization of systems: state and frequency domain approaches for infinite-dimensional systems. **93i:93005**
  Control '91 ★ Control '91. Vol. 1, 2. **93h:93007**
  Mathematical Theory of Control ★ Mathematical theory of control. **93g:93003**
  Modelling and Control of Technological Systems ★ Mathematics of the analysis and design of process control. **93g:93004**
  Modelling and Inverse Problems of Control for Distributed Parameter Systems ★ Modelling and inverse problems of control for distributed parameter systems. **93d:93006**
  Stabilization of Flexible Structures ★ Stabilization of flexible structures. **93c:93006**
Congress:
  Modelling and Control of Technological Systems ★ Mathematics of the analysis and design of process control. **93g:93004**
Control '91 ★ Control '91. Vol. 1, 2. **93h:93007**
Control in dynamical systems ★ Управление в динамических системах. (Russian) [Control in dynamical systems] **93f:93004**
Control of uncertain systems ★ Control of uncertain systems. **93i:93006**
Control problems with guaranteed result ★ Проблемы управления с гарантированным результатом. (Russian) [Control problems with guaranteed result] **93h:93008**
Control theory, stochastic analysis and applications ★ Control theory, stochastic analysis and applications. **93a:93005**
Development and application of the method of Lyapunov functions ★ Развитие и применение метода функций Ляпунова. (Russian) [Development and application of the method of Lyapunov functions] **93m:93005**
Dublin ★ Mathematics of the analysis and design of process control. **93g:93004**
Edinburgh ★ Control '91. Vol. 1, 2. **93h:93007**
Foundations of adaptive control ★ Foundations of adaptive control. **93c:93004**
Glasgow ★ Adaptive systems in control and signal processing. 1989. **93j:93007**
H_∞-control theory ★ H_∞-control theory. **93d:93005**
Hangzhou ★ Control theory, stochastic analysis and applications. **93a:93005**
Identification and system parameter estimation ★ Identification and system parameter estimation 1991. Vol. 1, 2. **93h:93009**
IFAC Symposium:
  Adaptive Systems in Control and Signal Processing ★ Adaptive systems in control and signal processing. 1989. **93j:93007**
  Intelligent Tuning and Adaptive Control ★ Intelligent tuning and adaptive control. **93i:93007**
IFAC Workshop:
  Mutual Impact of Computing Power and Control Theory ★ Mutual impact of computing power and control theory. **93f:93005**
IFIP Conference:
  Stochastic Systems and Optimization ★ Stochastic systems and optimization. **93d:93009**
Intelligent tuning and adaptive control ★ Intelligent tuning and adaptive control. **93i:93007**
Irkutsk ★ Развитие и применение метода функций Ляпунова. (Russian) [Development and application of the method of Lyapunov functions] **93m:93005**
Kobe ★ Recent advances in mathematical theory of systems, control, networks and signal processing. I. **93g:93005**
— ★ Recent advances in mathematical theory of systems, control, networks and signal processing. II. **93g:93006**
Lawrence, KS ★ Stochastic theory and adaptive control. **93g:93007**
Laxenburg ★ Modelling and inverse problems of control for distributed parameter systems. **93d:93006**
Lecture Notes in Control and Information Sciences ★ Stochastic systems and optimization. **93d:93009**
— ★ Stabilization of flexible structures. **93c:93006**
— ★ Advanced methods in adaptive control for industrial applications. **93c:93003**
— ★ Foundations of adaptive control. **93c:93004**
— ★ Modelling and inverse problems of control for distributed parameter systems. **93d:93006**
— ★ Robust control. **93f:93006**
— ★ Stochastic theory and adaptive control. **93g:93007**
— ★ Analysis and optimization of systems: state and frequency domain approaches for infinite-dimensional systems. **93i:93005**
Lecture Notes in Mathematics ★ H_∞-control theory. **93d:93005**
Lectures:
  Grainger ★ Foundations of adaptive control. **93c:93004**
Lille ★ Mathematics of the analysis and design of process control. **93g:93004**
Mathematical and intelligent models in system simulation ★ Mathematical and intelligent models in system simulation. I, II. **93c:93005**
Mathematical theory of control ★ Mathematical theory of control. **93g:93003**
Mathematics of the analysis and design of process control ★ Mathematics of the analysis and design of process control. **93g:93004**
Modelling and inverse problems of control for distributed parameter systems ★ Modelling and inverse problems of control for distributed parameter systems. **93d:93006**
Montpellier ★ Stabilization of flexible structures. **93c:93006**
Mutual impact of computing power and control theory ★ Mutual impact of computing power and control theory. **93f:93005**
Prague ★ Mutual impact of computing power and control theory. **93f:93005**
Praha ★ Advanced methods in adaptive control for industrial applications. **93c:93003**
Recent advances in mathematical theory of systems, control, networks and signal processing ★ Recent advances in mathematical theory of systems, control, networks and signal processing. I. **93g:93005**
— ★ Recent advances in mathematical theory of systems, control, networks and signal processing. II. **93g:93006**
Robust control ★ Robust control. **93f:93006**
Robust control system techniques and applications ★ Robust control system techniques and applications. Part 1. **93d:93007**
— ★ Robust control system techniques and applications. Part 2. **93d:93008**
School:
  Method of Lyapunov Functions and its Applications ★ Развитие и применение метода функций Ляпунова. (Russian) [Development and application of the method of Lyapunov functions] **93m:93005**
Seminar:
  Advanced Methods in Adaptive Control for Industrial Applications ★ Advanced methods in adaptive control for industrial applications. **93c:93003**
Session:
  H_∞-Control Theory ★ H_∞-control theory. **93d:93005**
Singapore ★ Intelligent tuning and adaptive control. **93i:93007**
Sophia-Antipolis ★ Analysis and optimization of systems: state and frequency domain approaches for infinite-dimensional systems. **93i:93005**
Stabilization of flexible structures ★ Stabilization of flexible structures. **93c:93006**
Stochastic systems and optimization ★ Stochastic systems and optimization. **93d:93009**
Stochastic theory and adaptive control ★ Stochastic theory and adaptive control. **93g:93007**
Symposium:
  Identification and System Parameter Estimation ★ Identification and system parameter estimation 1991. Vol. 1, 2. **93h:93009**
  Mathematical and Intelligent Models in System Simulation ★ Mathematical and intelligent models in system simulation. I, II. **93c:93005**
  Mathematical Theory of Networks and Systems ★ Recent advances in mathematical theory of systems, control, networks and signal processing. I. **93g:93005**
  — ★ Recent advances in mathematical theory of systems, control, networks and signal processing. II. **93g:93006**
  System Sciences and Control Theory ★ Control theory, stochastic analysis and applications. **93a:93005**
Systems and control ★ Systems and control. **93f:93007**
Systems, models and feedback: theory and applications ★ Systems, models and feedback: theory and applications. **93a:93006**
Tokyo ★ Robust control. **93f:93006**
Urbana, IL ★ Foundations of adaptive control. **93c:93004**
Warsaw ★ Stochastic systems and optimization. **93d:93009**
Workshop:
  Control of Uncertain Systems ★ Control of uncertain systems. **93i:93006**
  Robust Control ★ Robust control. **93f:93006**
  Stochastic Theory and Adaptive Control ★ Stochastic theory and adaptive control. **93g:93007**
  Systems, Models and Feedback ★ Systems, models and feedback: theory and applications. **93a:93006**

Items with secondary classifications in 93–06

(Andersson, Åke E.) *see* **Theory & control of dynamical systems, 93d:92001**
(Andersson, Stig I.) *see* **Theory & control of dynamical systems, 93d:92001**
(Barbu, Viorel) *see* **Optimization, optimal control and partial differential equations, 93m:00044**
(Bonnans, Joseph Frédéric) *see* **Optimization, optimal control and partial differential equations, 93m:00044**
(Canudas de Wit, Carlos) *see* **Advanced robot control, 93d:70002**
(Deprettere, Ed F.) *see* **Algorithms and parallel VLSI architectures, 93a:68005**

(Karatzas, Ioannis) *see* **Applied stochastic analysis, 93a:93100**
(Malyshev, V. V.) *see* **Analysis and design of dynamical systems under conditions of uncertainty, 93g:00022**
(Ocone, Daniel L.) *see* **Applied stochastic analysis, 93a:93100**
(Ottoson, Ulf) *see* **Theory & control of dynamical systems, 93d:92001**
(Sydow, Achim) *see* **Computational systems analysis, 93e:00021**
(Tiba, D.) *see* **Optimization, optimal control and partial differential equations, 93m:00044**
(Tonkov, E. L.) *see* **Nonlinear oscillations and control theory, 93m:00031**
(van der Veen, Alle-Jan) *see* **Algorithms and parallel VLSI architectures, 93a:68005**
(Zolésio, Jean-Paul) *see* **Boundary control and boundary variation, 93b:49001**

Items listed otherwise than by author

Advanced robot control ★ Advanced robot control. **93d:70002**
Algorithms and parallel VLSI architectures ★ Algorithms and parallel VLSI architectures. Vol. B. **93a:68005**
Analysis and design of dynamical systems under conditions of uncertainty ★ Анализ и синтез динамических систем в условиях неопределенности. (Russian) [Analysis and design of dynamical systems under conditions of uncertainty] **93g:00022**
Applied stochastic analysis ★ Applied stochastic analysis. **93a:93100**
Berlin ★ Computational systems analysis 1992. **93e:00021**
Boundary control and boundary variation ★ Boundary control and boundary variation. **93b:49001**
Computational systems analysis ★ Computational systems analysis 1992. **93e:00021**
Conference:
Optimization, Optimal Control and Partial Differential Equations ★ Optimization, optimal control and partial differential equations. **93m:00044**
Grenoble ★ Advanced robot control. **93d:70002**
Huddinge ★ Theory & control of dynamical systems. **93d:92001**
Iaşi ★ Optimization, optimal control and partial differential equations. **93m:00044**
IFIP Conference:
Boundary Control and Boundary Variation ★ Boundary control and boundary variation. **93b:49001**
Lecture Notes in Control and Information Sciences ★ Advanced robot control. **93d:70002**
— ★ Applied stochastic analysis. **93a:93100**
— ★ Boundary control and boundary variation. **93b:49001**
Meeting:
Theory & Control of Dynamical Systems ★ Theory & control of dynamical systems. **93d:92001**
New Brunswick, NJ ★ Applied stochastic analysis. **93a:93100**
Nonlinear oscillations and control theory ★ Нелинейные колебания и теория управления. (Russian) [Nonlinear oscillations and control theory] **93m:00031**
Optimization, optimal control and partial differential equations ★ Optimization, optimal control and partial differential equations. **93m:00044**
Pont-à-Mousson ★ Algorithms and parallel VLSI architectures. Vol. B. **93a:68005**
Sophia-Antipolis ★ Boundary control and boundary variation. **93b:49001**
Symposium:
Systems Analysis and Simulation ★ Computational systems analysis 1992. **93e:00021**
Theory & control of dynamical systems ★ Theory & control of dynamical systems. **93d:92001**
Workshop:
Algorithms and Parallel VLSI Architectures ★ Algorithms and parallel VLSI architectures. Vol. B. **93a:68005**
Applied Stochastic Analysis ★ Applied stochastic analysis. **93a:93100**
Nonlinear and Adaptive Control: Issues in Robotics ★ Advanced robot control. **93d:70002**

93Axx General

93A05 Axiomatic system theory

Aderoba, Adeyemi A model for facility selection and siting in pre-investment decision analysis. (English summary)
Koganov, A. V. Inductor spaces and processes. (Russian) **93i:93008**
Lin, Yi[3] Connectedness of general systems. (Polish summary) **93d:93010**
Nishikawa, Toshitami (*with* Takahara, Yasuhiko) Topological approach for abstract systems. **93c:93007**
Pavlovskiĭ, Yu. N. Duality in decomposition theory. (Russian) **93a:93007**
Praagman, C. (*with* Soethoudt, J. M.) A note on finite memory in locally square integrable systems. **93b:93007**
Shu, Guang Fu Boolean lattice conditions of system reconstructability analysis problems with logical relations. (English summary)
Soethoudt, J. M. *see* **Praagman, C., 93b:93007**
Solé, L. On feedback universality of discrete systems. **93b:93008**
Stefanov, Stefan Z. General theory of intelligent systems. (English summary)
Takahara, Yasuhiko *see* **Nishikawa, Toshitami, 93c:93007**
Wu, Xue Mou *see* **Zan, Ting Quan**
Wunsch, G. Elements of a general process theory. (English summary) (*see* **93b:93006**)
Zan, Ting Quan (*with* Wu, Xue Mou) Pansystems clustering analysis of complex systems. (Chinese. English and Chinese summaries)

Items with secondary classifications in 93A05

Assimakopoulos, Nikitas A systems approach for hierarchically organized systems. (English summary)
Fliess, Michel A remark on Willems' trajectory characterization of linear controllability. **93g:93022**
Kelemen, Jozef (*with* Păun, Gheorghe) Generative paradigm in the study of complex symbol systems: some variants of grammar systems. (English summary)
Kijima, Kyoichi (*with* Tanaka, Kenji) Universal maps for binary preference structure generating decision principle functors. (English summary) **93c:90008**
Kozák, Petr Discrete events and general systems theory. (English summary) **93i:93088**
— On feedback controllers. (English summary) **93i:93089**
Păun, Gheorghe *see* **Kelemen, Jozef**
Tanaka, Kenji *see* **Kijima, Kyoichi, 93c:90008**
Zhukov, A. V. Planning of schemes for the solution of dynamical problems based on declarative means of organizing knowledge. (Russian. English and Russian summaries)

93A10 General systems

Braha, Daniel *see* **Maimon, Oded**
Caselles, Antonio Structure and behavior in general systems theory. (English summary) **93h:93010**
Conte, Giuseppe *see* **Moog, Claude H.; et al., (93g:93006)**
Gouzé, Jean-Luc Transformation of polynomial differential systems in the positive orthant. (English summary) (*see* **93g:93006**)
Lin, Yi[3] Disconnected general systems. **93a:93008**
— Prime products of general systems. **93c:93008**
— Similarity between general systems. **93a:93009**
Maimon, Oded (*with* Braha, Daniel) A proof of the complexity of design.
Moog, Claude H. (*with* Perdon, Anna-Maria; Conte, Giuseppe) Structure of general nonlinear systems. (English summary) (*see* **93g:93006**)
Perdon, Anna-Maria *see* **Moog, Claude H.; et al., (93g:93006)**
Potseluev, A. V. Fundamentals of statistical analysis and synthesis of complicated dynamic systems. **93c:93009**
Praagman, C. (*with* Soethoudt, J. M.) Continuous time behaviors. (English summary) (*see* **93g:93006**)
Shima, M. System theory via path integrals. (English summary) (*see* **93g:93006**)
Soethoudt, J. M. *see* **Praagman, C., (93g:93006)**
Trokhimchuk, P. P. On the development of a general theory of systems. (Russian)

Items with secondary classifications in 93A10

Artemovich, O. D. Global reduction of group systems. (Ukrainian. Russian summary)
(Kimura, Hidenori) *see* **Recent advances in mathematical theory of systems, control, networks and signal processing, 93g:93005** *and* **93g:93006**
(Kodama, Shinzo) *see* **Recent advances in mathematical theory of systems, control, networks and signal processing, 93g:93005** *and* **93g:93006**
Lin, Yi[3] Connectedness of general systems. (Polish summary) **93d:93010**
Mironov, A. A. (*with* Tsurkov, V. I.) Graphical representation of multilayered hierarchical structures. (Russian. Russian summary) **93h:93011**
Tsurkov, V. I. *see* **Mironov, A. A., 93h:93011**
Willems, Jan C. Feedback in a behavioral setting. **93i:93025**

Items listed otherwise than by author

Kobe ★ Recent advances in mathematical theory of systems, control, networks and signal processing. I. **93g:93005**
— ★ Recent advances in mathematical theory of systems, control, networks and signal processing. II. **93g:93006**
Recent advances in mathematical theory of systems, control, networks and signal processing ★ Recent advances in mathematical theory of systems, control, networks and signal processing. I. **93g:93005**
— ★ Recent advances in mathematical theory of systems, control, networks and signal processing. II. **93g:93006**
Symposium:
Mathematical Theory of Networks and Systems ★ Recent advances in mathematical theory of systems, control, networks and signal processing. I. **93g:93005**
— ★ Recent advances in mathematical theory of systems, control, networks and signal processing. II. **93g:93006**

93A13 Hierarchical systems

Assimakopoulos, Nikitas A systems approach for hierarchically organized systems. (English summary)
Binder, Zdenek *see* **Sidaoui, Assann; et al.**
Cipkowski, W. (*with* Kwiesielewicz, M.; Stolc, L.) Multilevel-multihorizon control of production system in uncertain conditions. (Polish summary) **93c:93010**
Ellis, J. E. (*with* Kandamby, N. H.; Roberts, P. D.) Rationalization and application of algorithms for integrated system optimization and parameter estimation. (English summary)
Godlevskiĭ, M. D. *see* **Volkovich, V. L.**
Kandamby, N. H. *see* **Ellis, J. E.; et al.**
Kwiesielewicz, M. *see* **Cipkowski, W.; et al., 93c:93010**
Makeev, S. P. (*with* Shakhnov, I. F.) Ordering objects in hierarchical systems. (Russian. Russian summary)
Mironov, A. A. (*with* Tsurkov, V. I.) Graphical representation of multilayered hierarchical structures. (Russian. Russian summary) **93h:93011**
Özveren, Cüneyt M. (*with* Willsky, Alan S.) Aggregation and multi-level control in discrete event dynamic systems. **93a:93010**
Peng, Wei (*with* Xue, Jin Song) A scheduling and planning method for a CIMS controller under a hierarchical control architecture. (Chinese. Chinese summary)
Perret, René *see* **Sidaoui, Assann; et al.**
Popchev, Ivan P. (*with* Tsoneva, Rainichka G.) Synthesis of a two-layer control for interconnected systems with time delays in the presence of slowly varying disturbances. (Bulgarian. English summary)
Roberts, P. D. *see* **Ellis, J. E.; et al.**
Schmid, Beat F. *see* **Skulimowski, Andrzej M. J., 93g:93008**
Sethi, Suresh P. (*with* Taksar, Michael I.; Zhang, Qing[1]) Hierarchical investment and production decisions in stochastic manufacturing systems. (English summary) (*see* **93g:93007**)
Shakhnov, I. F. *see* **Makeev, S. P.**

Sidaoui, Assann (*with* Binder, Zdenek; Perret, René) Double-loop-iterative-tracking-algorithm-based direct coordination for hierarchical steady-state control of interconnected systems. (English summary)
Skulimowski, Andrzej M. J. (*with* Schmid, Beat F.) Redundance-free description of partitioned complex systems. (English summary) **93g:93008**
Stoilov, Todor A. (*with* Stoilova, Krasimira P.) Open loop noniterative control in multilevel systems. (English summary) (*see* **93f:93005**)
Stoilova, Krasimira P. *see* **Stoilov, Todor A.**, (**93f:93005**)
Stolc, L. *see* **Cipkowski, W.; et al., 93c:93010**
Taksar, Michael I. *see* **Sethi, Suresh P.; et al., (93g:93007)**
Tsoneva, Raïnichka G. *see* **Popchev, Ivan P.**
Tsurkov, V. I. *see* **Mironov, A. A., 93h:93011**
Volkovich, V. L. (*with* Godlevskii, M. D.) Issues in hierarchical system coordination based on system optimization. (Russian. English, Russian and Ukrainian summaries)
Willsky, Alan S. *see* **Özveren, Cüneyt M., 93a:93010**
Xue, Jin Song *see* **Peng, Wei**
Zhang, Qing[1] *see* **Sethi, Suresh P.; et al., (93g:93007)**

Items with secondary classifications in 93A13

Chistyakov, Yu. E. *see* **Kononenko, A. F.; et al., (93d:90003)**
Clote, P. A time-space hierarchy between polynomial time and polynomial space. **93d:68021**
Gorelik, V. A. (*with* Gorelov, M. A.; Kononenko, A. F.) ★ Анализ конфликтных ситуаций в системах управления. (Russian) [Analysis of conflict situations in control systems] **93c:93002**
Gorelov, M. A. *see* **Gorelik, V. A.; et al., 93c:93002**
Kleimenov, A. F. A nonantagonistic differential game with a nominal solution and payoffs. (Russian. Russian summary) **93h:90119**
Kononenko, A. F. (*with* Krutov, B. P.; Chistyakov, Yu. E.) Dynamic hierarchical N-person games theory with coalitions. (*see* **93d:90003**)
— *see also* **Gorelik, V. A.; et al., 93c:93002**
Krutov, B. P. *see* **Kononenko, A. F.; et al., (93d:90003)**
Lempel, Abraham *see* **Weinberger, Marcelo J.; et al., 93a:94012**
Liu, Xiao Ping[2] (*with* Zhang, Si Ying) Three-level Stackelberg strategies in linear-quadratic singular systems. (English, Russian and Lithuanian summaries)
McNamara, J. R. On geometric programming and complementary slackness. **93g:90064**
Özgüler, A. Bülent *see* **Ünyelioğlu, Konur Alp, 93f:93116**
Ünyelioğlu, Konur Alp (*with* Özgüler, A. Bülent) Reliable decentralized stabilization of feedforward and feedback interconnected systems. (English summary) **93f:93116**
Wang, Lian Fen Conditions of rank preservation for adding a new element in the AHP. (Chinese. English summary)
Weinberger, Marcelo J. (*with* Ziv, Jacob; Lempel, Abraham) On the optimal asymptotic performance of universal ordering and of discrimination of individual sequences. **93a:94012**
Zhang, Si Ying *see* **Liu, Xiao Ping[2]**
Ziv, Jacob *see* **Weinberger, Marcelo J.; et al., 93a:94012**

93A14 Decentralized systems

Aicardi, Michele (*with* Casalino, G.; Minciardi, Riccardo; Zoppoli, R.) On the existence of stationary optimal receding-horizon strategies for dynamic teams with common past information structures. (English summary)
Aldeen, M. *see* **Gong, Z., 93f:93009**
Arkun, Yaman *see* **Chiu, Min-Sen**
Bakošová, M. *see* **Prokop, R.; et al., (93f:93005)**
Bakule, Lubomír On-line decentralized control of uncertain interconnected systems. (English summary) (*see* **93e:00021**)
Benchoubane, H. (*with* Stoten, D. P.) The decentralized minimal controller synthesis algorithm. (English summary)
Bitmead, Robert R. *see* **Yan, Wei Yong, 93g:93009**
Borisenko, I. I. Synthesis of multidimensional stochastic system controls by means of decomposition. (Russian) **93f:93008**
— (*with* Kazakov, I. E.) Synthesis of control and data processing strategies on the basis of decomposition and reduction of multidimensional dynamical systems (a survey). (Russian. Russian summary) **93i:93009**
Cai, Da Yong (*with* Chu, De Lin) A new algorithm for block-diagonal decentralized control. (Chinese. English and Chinese summaries)
Casalino, G. *see* **Aicardi, Michele; et al.**
Chen, Ye-Hwa *see* **Han, M. C., 93c:93011**
Chiang, Chiang Cheng Decentralized variable-structure adaptive controller synthesis of large-scale systems subjected to bounded disturbances. (English summary)
Chiu, Min-Sen (*with* Arkun, Yaman) A methodology for sequential design of robust decentralized control systems. (English summary)
Chu, De Lin *see* **Cai, Da Yong**
Chu, Xue Dao (*with* Liu, Wan Quan) Feedback control of singular decentralized control systems with direct feedthrough. (English and Chinese summaries)
Efrati, T. *see* **Palmor, Z. J.; et al., 93f:93010**
Gong, Z. (*with* Aldeen, M.) On the characterization of fixed modes in decentralized control. **93f:93009**
Halevi, Yoram *see* **Palmor, Z. J.; et al., 93f:93010**
Han, M. C. (*with* Chen, Ye-Hwa) Decentralized robust control of nonlinear systems with bounded time-varying uncertainties. **93c:93011**
Hanmandlu, M. *see* **Pandian, S. R.**
Kazakov, I. E. *see* **Borisenko, I. I., 93i:93009**
Kodama, Shinzo *see* **Takai, Shigemasa; et al.**
Liu, Wan Quan (*with* Yan, Wei Yong) Control of descriptor decentralized control systems with no impulsive modes. (Chinese. English and Chinese summaries)
— (*with* Xi, Yu Geng; Zhang, Zhong Jun) A geometric characterization of generalized decentralized systems. (Chinese. English and Chinese summaries)
— *see also* **Chu, Xue Dao**
Mannapov, N. N. Formalization of the solution set of a problem on the optimization of multiply connected systems with interval parameters. (Russian)
Medanić, J. V. *see* **Shor, M. H.; et al., 93i:93012**
Minciardi, Riccardo *see* **Aicardi, Michele; et al.**
Novitskii, V. V. Application of modal decomposition for the control of interval mechanical systems with a given ensured reserve of stability. (Russian. Russian summary) (*see* **93f:00007**)
Palmor, Z. J. (*with* Halevi, Yoram; Efrati, T.) Limit cycles in decentralized relay systems. (English summary) **93f:93010**
Pandian, S. R. (*with* Hanmandlu, M.) Decentralized model-based control of a class of large-scale interconnected systems. (English summary)
Perkins, W. R. *see* **Shor, M. H.; et al., 93i:93012**
Prätzel-Wolters, D. *see* **Schmid, S., 93i:93011**
Prokop, R. (*with* Bakošová, M.; Turisová, Z.) Decentralized hybrid adaptive control based on polynomial approach. (English summary) (*see* **93f:93005**)
Rao, Ming *see* **Xia, Qijun; et al.**
Rudie, Karen (*with* Wonham, W. Murray) Think globally, act locally: decentralized supervisory control. (English summary) **93i:93010**
Schmid, S. (*with* Prätzel-Wolters, D.) Synchronization through system interconnections. (English summary) **93i:93011**
Shashikhin, V. N. Decomposition of dynamic systems utilizing an inverse optimization procedure. (Russian. English summary) **93b:93009**
Shor, M. H. (*with* Perkins, W. R.; Medanić, J. V.) Design of reliable decentralized controllers: a unified continuous/discrete formulation. (English summary) **93i:93012**
Stoten, D. P. *see* **Benchoubane, H.**
Sun, You Xian *see* **Xia, Qijun; et al.**
Takai, Shigemasa (*with* Ushio, Toshimitsu; Kodama, Shinzo) Decentralized state feedback control of large-scale discrete event systems. (Japanese. English summary)
Troch, I. Decoupling systems consisting of partially decoupled subsystems. (English summary) (*see* **93b:93006**)
Turisová, Z. *see* **Prokop, R.; et al., (93f:93005)**
Ushio, Toshimitsu *see* **Takai, Shigemasa; et al.**
Wonham, W. Murray *see* **Rudie, Karen, 93i:93010**
Xi, Yu Geng *see* **Liu, Wan Quan; et al.**
Xia, Qijun (*with* Rao, Ming; Sun, You Xian; Ying, Yiqun) New technique for decoupling control. (English summary)
Yan, Wei Yong (*with* Bitmead, Robert R.) Control of linear discrete-time periodic systems: a decentralized control approach. (English summary) **93g:93009**
— *see also* **Liu, Wan Quan**
Ying, Yiqun *see* **Xia, Qijun; et al.**
Zhang, Zhong Jun *see* **Liu, Wan Quan; et al.**
Zoppoli, R. *see* **Aicardi, Michele; et al.**

Items with secondary classifications in 93A14

Al-Saggaf, Ubaid M. Approximate balanced-truncation model reduction for large scale systems. (English summary) **93j:93010**
Athans, Michael *see* **Papastavrou, Jason D.**
Boichuk, L. M. Balance dynamical systems and investigation of their statistical stability and homeostatism based on solution of R. Bellman's problem. (Russian. English summary)
Desoer, Charles A. *see* **Sheikholeslam, Shahab, 93m:93056**
Fessas, P. On pole placement with decentralized static feedback. (English summary)
Franchuk, O. V. *see* **Zaslavskii, V. A.**
Guan, Xiaohong (*with* Luh, Peter B.) A new parallel algorithm for optimal control problems of interconnected systems. (English summary) **93k:49028**
Hill, David J. *see* **Wen, Changyun, 93j:93082**
Ishijima, Shintaro Controller design based on the system decomposition. **93c:93029**
Krysov, Yu. A. Making and coordinating decisions in certain procedures of parametric analysis in optimization problems. (Russian) **93b:90093**
Lee, Jia Ling *see* **Wang, Wên Chün, 93i:93037**
Levin, A. G. Lyapunov function construction for systems connected by a common coordinate. (Russian. Russian summary) **93m:93065**
Liu, Wan Quan (*with* Wang, En Ping) Impulsive controllability of generalized decentralized control systems. (Chinese. English and Chinese summaries)
Luh, Peter B. *see* **Guan, Xiaohong, 93k:49028**
Medanić, J. V. *see* **Veillette, R. J.; et al., (93i:93006)**
Özgüler, A. Bülent *see* **Ünyelioğlu, Konur Alp, 93a:93094**
Papastavrou, Jason D. (*with* Athans, Michael) On optimal distributed decision architectures in a hypothesis testing environment. (English summary)
Perkins, W. R. *see* **Veillette, R. J.; et al., (93i:93006)**
Sezer, M. Erol *see* **Yu, Run Yi, 93j:93131**
Sheikholeslam, Shahab (*with* Desoer, Charles A.) Indirect adaptive control of a class of interconnected nonlinear dynamical systems. (English summary) **93m:93056**
Shi, Lin[2] (*with* Singh, Sunil K.) Decentralized adaptive controller design for large-scale systems with higher order interconnections. (English summary) **93h:93044**
Shi, Song Jiao *see* **Wang, Li Quan; et al., 93h:93068**
Singh, Sunil K. *see* **Shi, Lin[2], 93h:93044**
Ünyelioğlu, Konur Alp (*with* Özgüler, A. Bülent) Decentralized stabilization: characterization of all solutions and genericity aspects. **93a:93094**
Veillette, R. J. (*with* Medanić, J. V.; Perkins, W. R.) Robust stabilization and disturbance rejection for uncertain systems by decentralized control. (English summary) (*see* **93i:93006**)
Wang, En Ping *see* **Liu, Wan Quan**
Wang, Li Quan (*with* Shi, Song Jiao; Zhang, Zhong Jun) Stabilization of decentralized control—a parametrization approach. (Chinese. English and Chinese summaries) **93h:93068**
Wang, Wên Chün (*with* Lee, Jia Ling) A simple condition for decentralized adaptive identification of partially known interconnected systems. (English summary) **93i:93037**
Wen, Changyun (*with* Hill, David J.) Global boundedness of discrete-time adaptive control just using estimator projection. (English summary) **93j:93082**

van der Woude, J. W. Almost noninteracting control for linear systems with exogenous inputs and outputs. (English summary) **93j:93055**
Yu, Run Yi (*with* Sezer, M. Erol) Decentralized stabilization of interconnected systems. Structural conditions. (English summary) **93j:93131**
Zaslavskii, V. A. (*with* Franchuk, O. V.) Optimal backup of a multifunctional system taking into account several criteria. (Russian. Russian summary)
Zhang, Zhong Jun *see* **Wang, Li Quan; et al., 93h:93068**

93A15 Large scale systems

İftar, Altuğ Decentralized estimation and control with overlapping input, state, and output decomposition. (English summary)
Liu, Xiao Ping² Output regulation of strongly coupled symmetric composite systems. (English summary) **93f:93011**
Shcheglov, A. Yu. Multicriterial optimization of complex systems with distribution of parameters in the order of decreasing importance. (Russian. English and Ukrainian summaries)

Items with secondary classifications in 93A15

Akhmetzyanov, A. V. *see* **Meerov, M. V.; et al., 93a:93003**
(Al-Fuhaid, A. S.) *see* **Liu, Xiao Ping²**
(Bahnasawi, Ahmed A.) *see* **Liu, Xiao Ping²**
Bershchanskii, Ya. M. *see* **Meerov, M. V.; et al., 93a:93003**
(Cameron, Peter J.) *see* **Collection: Contributions in honour of Jack van Lint**
Chen, Lin⁴ (*with* Tang, Gong You; Huang, Xiao Han) A new conclusion on the parameter stability domain of linear time-invariant large-scale systems. (English and Chinese summaries) **93i:93090**
Chou, Jyh Horng (*with* Ho, Shinn Jang; Horng, Ing Rong) Robustness of disk-stability for perturbed large-scale systems. (English summary)
Eslami, Mansour On the construction of robustly stable large-scale dynamic systems. (English summary) **93m:93069**
Ho, Shinn Jang *see* **Chou, Jyh Horng; et al.**
Horng, Ing Rong *see* **Chou, Jyh Horng; et al.**
Huang, Xiao Han *see* **Chen, Lin⁴; et al., 93i:93090**
Jamshidi, M. *see* **Lee, Soo R., 93h:34139**
Lee, Soo R. (*with* Jamshidi, M.) Stability analysis for large-scale time delay systems via the matrix Lyapunov function. (English summary) **93h:34139**
(van Lint, J. H., Jr.) *see* **Collection: Contributions in honour of Jack van Lint**
Liu, Jin Xian *see* **Tang, Gong You; et al., 93f:93119**
Liu, Xiao Ping² (*with* Zhang, Si Ying) Comments on: "Stabilization of interconnected uncertain discrete systems via decentralized control" [Inform. Decision Tech. **15** (1989), no. 3, 163–177] by A. A. Bahnasawi, A. S. Al-Fuhaid and M. S. Mahmoud.
Liu, Yong Qing *see* **Tang, Gong You; et al., 93f:93119** *and* **93i:93093**
(Mahmoud, Magdi S.) *see* **Liu, Xiao Ping²**
Medanić, J. V. *see* **Shor, M. H.; et al., 93i:93012**
Meerov, M. V. (*with* Akhmetzyanov, A. V.; Bershchanskii, Ya. M.; et al.) ★ Многосвязные системы управления. (Russian) [Multivariable control systems] **93a:93003**
Perkins, W. R. *see* **Shor, M. H.; et al., 93i:93012**
Shor, M. H. (*with* Perkins, W. R.; Medanić, J. V.) Design of reliable decentralized controllers: a unified continuous/discrete formulation. (English summary) **93i:93012**
Tang, Gong You (*with* Liu, Yong Qing; Liu, Jin Xian) Weighted vector norm form Lyapunov functions and their application in stability of large-scale discrete systems. (Polish summary) **93f:93119**
— (*with* Liu, Yong Qing) Stability of time-varying discrete large-scale systems. (Chinese. English and Chinese summaries) **93i:93093**
— *see also* **Chen, Lin⁴; et al., 93i:93090**
(van Tilborg, Henk C. A.) *see* **Collection: Contributions in honour of Jack van Lint**
Tripathy, Arabinda Modelling and analysis of large systems: some approaches. (English summary) (*see* **93d:90005**)
Zhang, Si Ying *see* **Liu, Xiao Ping²**

Items listed otherwise than by author

Collection:
Contributions in honour of Jack van Lint ★ A collection of contributions in honour of Jack van Lint.
Special Issue:
Collection of contributions in honour of Jack van Lint ★ A collection of contributions in honour of Jack van Lint.

93A20 Cascaded systems

Stănciulescu, Florin Knowledge-based simulation and control of large scale systems. Methodology and results. (English summary) (*see* **93b:93006**)
Xi, Yu Geng *see* **Xie, Xiao Fang; et al.**
Xie, Jian Ying *see* **Xie, Xiao Fang; et al.**
Xie, Xiao Fang (*with* Xie, Jian Ying; Xi, Yu Geng) Multiple feedback predictive control for cascade industrial systems. (Chinese. English and Chinese summaries)

93A25 Input-output systems

Li, Wen Hua A class of dynamic input-output models with variable coefficients. (Chinese. Chinese summary)

Items with secondary classifications in 93A25

Pandolfi, Luciano The Hankel singular values of a distributed delay line: a Fredholm equation approach. (English summary) (*see* **93i:93005**)
Sontag, Eduardo D. *see* **Wang, Yuan², 93d:93024** *and* **93i:93028**
Vyazgin, V. A. Reconstruction of binary relations in problems of dynamical system design. (Russian. Russian summary) (*see* **93g:90002**)
Wang, Yuan² (*with* Sontag, Eduardo D.) Generating series and nonlinear systems: analytic aspects, local realizability, and i/o representations. **93d:93024**
— (*with* Sontag, Eduardo D.) Algebraic differential equations and rational control systems. (English summary) **93i:93028**

93A30 Mathematical modeling (models of systems, model-matching, etc.)

Adeagbo-Sheikh, A. G. Resource-adjustment problem in the construction of Beer's predictive model.
Audounet, J. *see* **Montseny, G.; et al., (93i:93005)**
Bian, Fu Ping *see* **Mao, Yun Ying**
Billings, S. A. *see* **Chen, Sheng², 93f:93013**
Blok, V. R. (*with* Kalyuzhnyi, B. I.; Panasov, S. N.) A model of the cold war and optimal response. (Russian. Russian summary)
Boichuk, L. M. The dynamic and static features of closed balance systems. (Russian. English, Russian and Ukrainian summaries) **93f:93012**
Boukas, El-Kebir Techniques for flow control and preventive maintenance in manufacturing systems. **93a:93011**
Bratko, Ivan *see* **Urbančič, Tanja**
Chen, Sheng² (*with* Billings, S. A.) Neural networks for nonlinear dynamic system modelling and identification. (English summary) **93f:93013**
Coiera, Enrico W. Qualitative superposition. (English summary)
Da, Qing Li (*with* He, Jian Min) A conventional separation approach for system structural models. (Chinese. English and Chinese summaries)
Dauphin-Tanguy, G. *see* **Sueur, C., 93k:93008**
Dhillon, Balbir S. Stochastic modelling of k-out-of-n units family of systems. (English summary)
DiCesare, Frank *see* **Zhou, Meng Chu; et al.**
Dubov, Yu. A. Stochastic stimuli and balance in a model of competing possibilities. (Russian. Russian summary)
Goodwin, Graham C. (*with* Ninness, Brett; Poor, Harold Vincent) Choice of basis functions for continuous and discrete system modelling. (*see* **93h:93009**)
Grujić, Ljubomir T. (*with* Michel, Anthony N.) Modelling and qualitative analysis of discrete-time neural networks under pure structural variations. (English summary) (*see* **93g:93004**)
— *see also* **Michel, Anthony N., (93g:93004)**
Grzywaczewski, M. *see* **Yastrebov, A. I., (93e:00021)**
Guardabassi, Guido O. Nicely nonlinear modelling and control. (*see* **93a:93006**)
Gurman, V. Extensions and global estimates for evolutionary discrete control systems. (English summary) (*see* **93d:93006**)
He, Jian Min *see* **Da, Qing Li**
Huang, Zhi Tong *see* **Wang, Jia Cun**
Huijberts, H. J. C. Using the physical properties of systems for control: an illustration. (English summary) (*see* **93c:93006**)
Kalyuzhnyi, B. I. *see* **Blok, V. R.; et al.**
Kamenev, G. K. (*with* Kondrat'ev, D. L.) A method for studying nonclosed nonlinear models. (Russian. English and Russian summaries)
Kondrat'ev, D. L. *see* **Kamenev, G. K.**
Kornoushenko, E. K. Monitoring of logic-dynamic systems based on sampled performance data. (Russian. Russian summary)
Kulisiewicz, M. (*with* Piesiak, St.) A modelling procedure of the simple mechanical dynamic systems with using a nonlinear model. (English summary) (*see* **93e:00021**)
Lagnese, John E. (*with* Leugering, G.; Schmidt, E. J. P. G.) Modelling and controllability of networks of thin beams. **93i:93013**
Lamy, D. Modelling and sensitivity analysis of neural networks. (English summary) (*see* **93g:93004**)
Leugering, G. *see* **Lagnese, John E.; et al., 93i:93013**
Lunze, Jan Modelling and analysis of symmetric control systems. (English summary) (*see* **93b:93006**)
Mao, Yun Ying (*with* Bian, Fu Ping) An optimal control model with dynamic input and output. (Chinese)
Mbodje, B. *see* **Montseny, G.; et al., (93i:93005)**
Michel, Anthony N. (*with* Grujić, Ljubomir T.) Modeling and qualitative analysis of continuous-time neural networks under pure structural variations. (English summary) (*see* **93g:93004**)
— *see also* **Grujić, Ljubomir T., (93g:93004)**
Montseny, G. (*with* Audounet, J.; Mbodje, B.) A simple viscoelastic damper model—application to a vibrating string. (English summary) (*see* **93i:93005**)
Moshfegh, Allen Discrete state-space modeling for linear nth-order constant coefficient distributed-parameter systems. (English summary)
Nicolau, Ed. (*with* Vallée, Robert) Dynamic systems, observation and subjectivity. (French and Russian summaries)
Ninness, Brett *see* **Goodwin, Graham C.; et al., (93h:93009)**
Panasov, S. N. *see* **Blok, V. R.; et al.**
Piesiak, St. *see* **Kulisiewicz, M., (93e:00021)**
Poor, Harold Vincent *see* **Goodwin, Graham C.; et al., (93h:93009)**
Radchenko, I. F. Discrete dynamic state models for perturbations of wave type. (Russian. Russian summary)
Rudolph, Daryl L. *see* **Zhou, Meng Chu; et al.**
Samarskii, A. A. Problems of mathematical modelling of nonlinear processes. (*see* **93d:93006**)
Sarkisyan, R. E. Adaptive procedures and the concept of reconciliation of preferences. (Russian. Armenian summary)
Schmidt, E. J. P. G. *see* **Lagnese, John E.; et al., 93i:93013**
Sergovantsev, V. T. On the structures and properties of nature and society development control systems. (Russian. Russian summary)
Sueur, C. (*with* Dauphin-Tanguy, G.) Grassmann algebra and bond-graph modelling. (English summary) **93k:93008**

Tian, Shu Bao *see* **Zhao, Jiang; et al.**
Tripathy, Arabinda Modelling and analysis of large systems: some approaches. (English summary) (*see* **93d:90005**)
Tulleken, Herbert J. A. F. Grey-box modelling and identification using physical knowledge and Bayesian techniques. (English summary) (*see* **93j:93007**)
Urbančič, Tanja (*with* Bratko, Ivan) Constructing control rules for a dynamic system: probabilistic qualitative models, lookahead and exaggeration. (English summary)
Vallée, Robert *see* **Nicolau, Ed.**
Vasin, A. A. Modeling collective behavior in ecological and social systems. (Russian. Russian summary)
Vyazgin, V. A. Reconstruction of binary relations in problems of dynamical system design. (Russian. Russian summary) (*see* **93g:90002**)
Wang, Jia Cun (*with* Huang, Zhi Tong) A new method for the time delay analysis of systems modeled by stochastic Petri nets. (Chinese. English and Chinese summaries)
Wang, Jun She *see* **Zhao, Jiang; et al.**
Yastrebov, A. I. (*with* Grzywaczewski, M.) Construction of mathematical models of continuous systems on the basis of discrete measurement data. (English summary) (*see* **93e:00021**)
Zhao, Jiang (*with* Wang, Jun She; Tian, Shu Bao) A GMDH-PTSV algorithm and its application to modelling for fermentation processes. (English and Chinese summaries)
Zhou, Meng Chu (*with* DiCesare, Frank; Rudolph, Daryl L.) Design and implementation of a Petri net based supervisor for a flexible manufacturing system. (English summary)
Zhukov, A. V. Planning of schemes for the solution of dynamical problems based on declarative means of organizing knowledge. (Russian. English and Russian summaries)

Items with secondary classifications in 93A30

Ball, Joseph A. (*with* Cohen, Nir) de Branges-Rovnyak operator models and systems theory: a survey. **93a:47011**
Brandon, J. A. *see* **Zhong, Bing Lin**
Cohen, Nir *see* **Ball, Joseph A., 93a:47011**
Dekker, L. Generalized steady-state, a system concept in simulation. (English summary) (*see* **93e:00021**)
Deng, Ju Long The unit of information representation in grey system theory. (English summary)
Ehresmann, A. C. (*with* Vanbremeersch, J.-P.) Outils mathématiques pour modéliser les systèmes complexes. (English summary) [Mathematical tools for modeling complex systems]
Gao, Wei Bing *see* **Li, Yong Hua**
Garg, Vijay Kumar *see* **Kumar, Ratnesh; et al., 93j:93076**
Gulyanitskii, L. F. (*with* Sergienko, I. V.) Construction of mathematical models of optimization problems using expert estimates. (English summary) (*see* **93e:00021**)
Haber, Robert Transformation of the absolute descriptions of linear and nonlinear processes to their incremental forms. **93e:93017**
Huijberts, H. J. C. A nonregular solution of the nonlinear dynamic disturbance decoupling problem with an application to a complete solution of the nonlinear model matching problem. **93b:93049**
İftar, Altuğ (*with* Özgüner, Ümit) Techniques in modeling uncertain dynamics for robust control system design. **93i:93042**
Ishikawa, Masaaki On the mathematical formulation of stochastic distributed parameter systems with state-dependent obstacles. (English summary) (*see* **93g:93006**)
(Kall, P.) *see* **System modelling and optimization, 93e:90003**
Kozák, Petr Discrete events and general systems theory. (English summary) **93i:93088**
Krotova, È. N. Algorithms for the numerical solution of equations of dynamic models of developing systems. (Russian. Russian summary)
Kumar, Ratnesh (*with* Garg, Vijay Kumar; Marcus, Steven I.) On supervisory control of sequential behaviors. (English summary) **93j:93076**
Li, Ker-Chau Uncertainty analysis for mathematical models with SIR. (English summary) (*see* **93b:60004**)
Li, Yong Hua (*with* Gao, Wei Bing) Heuristic supervision of discrete event systems. (English summary)
Li, Zhong Hua (*with* Zhang, Si Ying) Noninteracting control for nonlinear systems possessing symmetries. (*see* **93a:93005**)
Lin, Yi[3] Prime products of general systems. **93c:93008**
Marcer, Peter Surreal models of arithmetic. **93c:04002**
Marcus, Steven I. *see* **Kumar, Ratnesh; et al., 93j:93076**
Matloka, Marian Subjective valuations in a production model. (English summary) **93m:90014**
Matthews, Michael B. Approximating nonlinear fading-memory operators using neural network models. (English summary) **93j:92005**
Men'shikov, Yu. L. (*with* Polyakov, N. V.) The models of external actions for mathematical simulation. (English summary) (*see* **93e:00021**)
Mirzoakhmedov, F. ★ Математические модели и методы управления производством с учетом случайных факторов. (Russian) [Mathematical models and methods for production control taking random factors into account] **93c:90001**
Mullen, Thomas A systems study and the fallacy of Perseus.
Muratori, Simona (*with* Piccardi, Carlo; Rinaldi, Sergio) On the minimum phase of compartmental systems.
Özgüner, Ümit *see* **İftar, Altuğ, 93i:93042**
Piccardi, Carlo *see* **Muratori, Simona; et al.**
Polyakov, N. V. *see* **Men'shikov, Yu. L., (93e:00021)**
Rinaldi, Sergio *see* **Muratori, Simona; et al.**
Rohrs, Charles E. *see* **Younce, Richard C., 93a:93038**
Runkle, D. E. *see* **Young, P. C., (93j:93007)**
Schmid, Beat F. *see* **Skulimowski, Andrzej M. J., 93g:93008**
Sergienko, I. V. *see* **Gulyanitskii, L. F., (93e:00021)**
Skulimowski, Andrzej M. J. (*with* Schmid, Beat F.) Redundance-free description of partitioned complex systems. (English summary) **93g:93008**
Sushil Application of physical system theory and goal programming to modelling and analysis of waste management in national planning. (English summary)
(Sydow, Achim) *see* **Computational systems analysis, 93e:00021**
Tokad, Yılmaz Errata: "A network model for rigid-body motion" [Dynamics Control 2 (1992), no. 1, 59–82; MR 92k:70004]. **93k:70006**
Torokhtii, A. P. Polynomial synthesis and numerical realisation of nonlinear systems. **93h:47085**
Treněv, N. N. Some procedures for the formation of coordinated decisions in linear-fractional distributed systems. (Russian. English and Ukrainian summaries)
Ushakov, I. A. *see* **Volkovich, V. L.; et al., 93j:90004**
Vanbremeersch, J.-P. *see* **Ehresmann, A. C.**
Varaiya, Pravin Smart cars on smart roads: problems of control. (English summary) **93j:93093**
Volkovich, V. L. (*with* Voloshin, A. F.; Zaslavskii, V. A.; Ushakov, I. A.) ★ Модели и методы оптимизации надежности сложных систем. (Russian. Russian summary) [Models and methods for optimizing the reliability of complex systems] **93j:90004**
Voloshin, A. F. *see* **Volkovich, V. L.; et al., 93j:90004**
Younce, Richard C. (*with* Rohrs, Charles E.) Identification with nonparametric uncertainty. **93a:93038**
Young, P. C. (*with* Runkle, D. E.) Recursive estimation and modelling of nonstationary and nonlinear time-series. (English summary) (*see* **93j:93007**)
Zaslavskii, V. A. *see* **Volkovich, V. L.; et al., 93j:90004**
Zhang, Si Ying *see* **Li, Zhong Hua, (93a:93005)**
Zhong, Bing Lin (*with* Brandon, J. A.) A study of hybrid prediction models and their application in economic and social systems. (English summary)

Items listed otherwise than by author

Berlin ★ Computational systems analysis 1992. **93e:00021**
Computational systems analysis ★ Computational systems analysis 1992. **93e:00021**
IFIP Conference:
System Modelling and Optimization ★ System modelling and optimization. **93e:90003**
Lecture Notes in Control and Information Sciences ★ System modelling and optimization. **93e:90003**
Symposium:
Systems Analysis and Simulation ★ Computational systems analysis 1992. **93e:00021**
System modelling and optimization ★ System modelling and optimization. **93e:90003**
Zurich ★ System modelling and optimization. **93e:90003**

93Bxx Controllability, observability, and system structure

Items with secondary classifications in 93Bxx

Kirichenko, N. F. Control theory. A survey of the scientific results of the author. (Russian. Russian summary)
Zabczyk, Jerzy ★ Mathematical control theory: an introduction. **93h:49001**

93B03 Attainable sets

Aubin, Jean-Pierre Tracking property: a viability approach. (English summary) (*see* **93d:93006**)
Avgerinos, Evgenios P. (*with* Flytzanis, E.; Papageorgiou, Nikolaos S.) On $U(\cdot)$-invariance for finite- and infinite-dimensional control systems. **93f:93014**
Baranova, O. V. Uniform global controllability of a linear system with stationary random parameters. (Russian. Russian summary) **93m:93006**
Basin, M. V. (*with* Orlov, Yu. V.) Guaranteed estimation of linear dynamical systems based on discrete-continuous observations. (Russian. Russian summary)
Briskin, M. (*with* Yomdin, Y.) Extremal and near-extremal trajectories of rank zero in nonlinear control problems. **93k:93009**
Chentsov, A. G. Relaxations of admissible sets, and constructions of extensions. (Russian. English and Ukrainian summaries) **93m:93007**
Dontchev, Asen L. Time-scale decomposition of the reachable set of constrained linear systems. **93d:93011**
Filippova, T. F. *see* **Kurzhanskii, A. B., (93h:49003)**
Flytzanis, E. *see* **Avgerinos, Evgenios P.; et al., 93f:93014**
Gilbert, Elmer G. *see* **Tan, Kok Tin, (93d:90005)**
Ivanov, Radostin On viable solutions of feedback controlled system. **93e:93003**
Joó, István On the optimal control of circular membranes. **93g:93010**
Khonin, V. A. Realization of algorithms for the upper approximation of the information domain of a dynamical system. (Russian) (*see* **93g:00022**)
Kiselev, O. N. (*with* Polyak, B. T.) Ellipsoidal estimation based on a generalized criterion. (Russian) **93b:93010**
Kurzhanskii, A. B. (*with* Filippova, T. F.) On the set-valued calculus in problems of viability and control for dynamic processes: the evolution equation. (*see* **93h:49003**)
— (*with* Vályi, I.) Ellipsoidal techniques for dynamic systems: the problem of control synthesis. **93a:93012**
— (*with* Vályi, I.) Guaranteed state estimation for dynamic systems: beyond the overviews. (English summary) (*see* **93h:93009**)
Orlov, Yu. V. *see* **Basin, M. V.**
Ovseevich, A. I. (*with* Reshetnyak, Yu. N.) The asymptotic behavior of ellipsoidal estimates of regions of attainability. I. (Russian. Russian summary) **93j:93008**
Panasyuk, A. I. Attainable sets of differential inclusions in a closed domain. (Russian) **93b:93011**
Papageorgiou, Nikolaos S. *see* **Avgerinos, Evgenios P.; et al., 93f:93014**
Păstrăvanu, O. (*with* Voicu, Mihail) Effects of sampled and quantized control on the geometry of reachability sets of linear continuous systems. (English summary) (*see* **93e:00021**)
Polyak, B. T. *see* **Kiselev, O. N., 93b:93010**
Quincampoix, Marc Enveloppes d'invariance pour des inclusions différentielles lipschitziennes: application aux problèmes de cibles. (English summary) [Invariance envelopes for Lipschitzian differential inclusions: application to target problems] **93b:93012**
Rachok, V. M. Approximation of attainability sets of control systems with delay. (Russian. English summary) **93b:93013**
Reshetnyak, Yu. N. *see* **Ovseevich, A. I., 93j:93008**

Roxin, Emilio O. The attainable set in control systems. (English summary) **93k:93010**
Savchenko, V. S. The construction of sets of attainability in a class of nonlinear control systems. (Russian. Russian summary) **93j:93009**
Tan, Kok Tin (*with* Gilbert, Elmer G.) Multi-mode controllers for linear discrete-time systems with general state and control constraints. (English summary) (*see* **93d:90005**)
Vályi, I. *see* **Kurzhanskiĭ, A. B., 93a:93012** *and* (**93h:93009**)
Vel'ov, V. M. Parametric and functional uncertainties in dynamic systems: local and global relationship. (English summary) **93m:93008**
Voicu, Mihail *see* **Păstrăvanu, O., (93e:00021)**
Yomdin, Y. *see* **Briskin, M., 93k:93009**

Items with secondary classifications in 93B03

Berezovskiĭ, O. A. *see* **Shor, N. Z., 93m:90060**
Bogatyrëv, A. V. Absorbed and nonabsorbed points of attainability sets of differential inclusions, and generalized Hamilton-Jacobi equations. (Russian) **93i:34020**
Botkin, N. D. Asymptotic behavior of solutions of differential games. Viability domains of differential inclusions. (Russian) **93m:90122**
Briskin, M. (*with* Yomdin, Y.) Critical and near-critical values in polynomial control problems. I. One-dimensional case. (English summary) **93j:49020**
van Brunschot, P. K. G. M. *see* **Klompstra, Margriet B.; et al., 93c:49024**
Byrnes, Christopher I. (*with* Hu, Xiao Ming) The zero dynamics algorithm for general nonlinear systems and its application in exact output tracking. (English summary) **93i:93063**
Cellina, Arrigo (*with* Ornelas, António) Representation of the attainable set for Lipschitzian differential inclusions. **93b:34028**
Filippova, T. F. *see* **Kurzhanskiĭ, A. B., (93e:90003)**
Gurman, V. Extensions and global estimates for evolutionary discrete control systems. (English summary) (*see* **93d:93006**)
Hu, Xiao Ming *see* **Byrnes, Christopher I., 93i:93063**
Israilov, I. *see* **Kirin, N. E., 93b:93003**
Joó, István (*with* Nguyen Minh Tuan) On controllability of bilinear systems. I. Controllability in finite dimensions. **93j:93016**
Kirin, N. E. (*with* Israilov, I.) ★ Оценочные системы в задачах теории управления. (Russian) [Evaluative systems in problems in control theory] **93b:93003**
Kiselëv, Yu. N. A time-optimality problem with a linear terminal set. (Russian) **93g:49024**
Klompstra, Margriet B. (*with* Olsder, G. J.; van Brunschot, P. K. G. M.) The isopone method in optimal control. **93c:49024**
Křivan, Vlastimil (*with* Vrkoč, Ivo) Continuous and Lipschitzian selections from a measurable set-valued map. **93d:49015**
Kurzhanskiĭ, A. B. (*with* Filippova, T. F.) Perturbation techniques for viability and control. (English summary) (*see* **93e:90003**)
Kussul', N. N. Estimation of the phase state of linear dynamic objects using families of ellipsoidal sets. (Russian. English summary) **93b:93066**
Milanese, M. (*with* Vicino, Antonio) Optimal approximation of feasible parameter set in estimation with unknown but bounded noise. (English summary) (*see* **93h:93009**)
Nguyen Minh Tuan *see* **Joó, István, 93j:93016**
Olsder, G. J. *see* **Klompstra, Margriet B.; et al., 93c:49024**
Ornelas, António *see* **Cellina, Arrigo, 93b:34028**
Plotnikov, A. V. A problem on the control of systems with distributed parameters under conditions of uncertainty. (Russian. English and Ukrainian summaries) **93i:49031**
Sachkov, Yu. L. Invariant domains of three-dimensional bilinear systems. (Russian. Russian summary) **93j:93022**
Shor, N. Z. (*with* Berezovskiĭ, O. A.) Construction of an ellipsoid of maximum volume inscribed in a polyhedron using sequential space dilatation. (Russian. Russian summary) **93m:90060**
Vicino, Antonio *see* **Milanese, M., (93h:93009)**
Vrkoč, Ivo *see* **Křivan, Vlastimil, 93d:49015**
Yomdin, Y. *see* **Briskin, M., 93j:49020**
Zaitsev, V. V. Application of the second Lyapunov method for estimating the integral funnel of a system of differential equations. (Russian. Russian summary) **93f:34078**

93B05 Controllability

Aisagaliev, S. A. Controllability of a system of differential equations. (Russian) **93a:93013**
Al-Saggaf, Ubaid M. Approximate balanced-truncation model reduction for large scale systems. (English summary) **93j:93010**
Ansari, Ali A. Polynomial control in partially controllable systems. (English summary) **93i:93014**
Avdonin, S. A. (*with* Gorshkova, O. Ya.) Controllability and quasicontrollability of parabolic systems with delay. (Russian. Russian summary) **93k:93011**
Avellaneda, Marco (*with* Bardos, Claude; Rauch, Jeffrey) Contrôlabilité exacte, homogénéisation et localisation d'ondes dans un milieu non-homogène. [Exact controllability, homogenization and localization of waves in a nonhomogeneous medium] **93e:93004**
Ayala, Víctor (*with* Vergara B., Luis A.) Co-adjoint representation and controllability. **93i:93015**
Ayala Bravo, Victor Controllability and the rank condition of the control vectors. (English and Portuguese summaries) **93i:93016**
Balachandran, Krishnan Controllability of neutral Volterra integrodifferential systems. **93d:93012**
— (*with* Balasubramaniam, P.) A note on controllability of nonlinear Volterra integrodifferential systems. (English summary) **93f:93015**
Balasubramaniam, P. *see* **Balachandran, Krishnan, 93f:93015**
Barabanov, A. E. Controllability of multidimensional polynomial linear systems. (Russian. English summary) **93d:93013**
Barbu, Viorel (*with* Stojanovic, Srdjan) Controlling the moving boundary of the parabolic obstacle problem. (English summary) **93k:93012**
Bardos, Claude High frequency asymptotic approach for incomplete spectral and local controllability. (English summary) (*see* **93i:93005**)
— *see also* **Avellaneda, Marco; et al., 93e:93004**
Bensoussan, Alain Some remarks on the exact controllability of Maxwell's equations. **93d:93014**
— Exact controllability for linear dynamic systems with skew symmetric operators. **93f:93016**
Berbyuk, V. E. On the complete controllability of linear time-dependent systems. (Russian. Russian summary)
Bessonov, G. A. (*with* Korobova, E. V.) Solution of a problem on the synthesis of a positional control for some classes of nonlinear systems. (Russian) **93g:93011**
Bhat, M. Seetharama *see* **Pradhan, Satyabrata; et al.**
Blaquière, A. Controllability of a Fokker-Planck equation, the Schrödinger system, and a related stochastic optimal control (revised version). **93j:93011**
Bobylëv, N. A. (*with* Burman, Yu. M.; Shubin, A. B.) Control algorithms with a minimal number of switchings. (Russian. Russian summary) **93h:93012**
Borukhov, V. T. Controllable invariant flags in the theory of linear dynamical systems. (Russian. English and Russian summaries) **93f:93017**
Bressan, Aldo On control theory and its applications to certain problems for Lagrangian systems. On hyper-impulsive motions for these. III. Strengthening of the characterizations performed in Parts I and II, for Lagrangian systems. An invariance property. (Italian summary) **93a:93014**
Burgmeier, Peter Controllability and interval mathematics. **93c:93012**
Burman, Yu. M. *see* **Bobylëv, N. A.; et al., 93h:93012**
Cai, Da Yong *see* **Chu, De Lin, 93j:93012** *and* **93k:93013**
Chen, Hui (*with* Chen, Zhao Kuan; Zhang, Yan Ping) A study on the controllable region of a discrete linear system with a constraint on the control fuel. (Chinese. English and Chinese summaries) **93h:93013**
Chen, Shu Ping (*with* Lasiecka, Irena) Feedback exact null controllability for unbounded control problems in Hilbert space. **93c:93013**
Chen, Zhao Kuan *see* **Chen, Hui; et al., 93h:93013**
Chu, De Lin (*with* Cai, Da Yong) A stable computation for controllability and R-controllability related to generalized systems. (Chinese. English summary) **93j:93012**
— (*with* Cai, Da Yong) A stable algorithm for computing controllability related to "descriptor" systems. (Chinese. English summary) **93k:93013**
— A stable algorithm for computing controllability. (Chinese. English summary)
Chukwu, E. N. (*with* Underwood, Robert G.; Kovari, Louis D.) Global constrained null-controllability of nonlinear neutral systems. **93b:93014**
— Mathematical controllability theory of capital growth of nations. (English summary) **93k:93014**
Chuprina, V. E. Controllability of a linear time-independent discrete system on a subspace with retention. (Russian) **93j:93013**
Cioranescu, Doïna (*with* Donato, Patrizia; Zuazua, Enrike) Strong convergence on the exact boundary controllability of the wave equation in perforated domains. **93b:93015**
Conrad, Francis (*with* Leblond, Juliette; Marmorat, Jean-Paul) Boundary control and stabilization of the one-dimensional wave equation. **93e:93005**
Conti, Giuseppe (*with* Nistri, Paolo; Zecca, Pietro) Systems of multivalued equations for solving controllability problems. (English summary) **93m:93009**
— (*with* Nistri, Paolo; Zecca, Pietro) Controllability problems via set-valued maps. (English summary) **93j:93014**
Donato, Patrizia *see* **Cioranescu, Doïna; et al., 93b:93015**
Drakunov, S. V. (*with* Utkin, Vadim I.) Sliding mode control in dynamic systems. **93f:93018**
El Jai, A. Actuators and controllability of distributed systems. (English summary) (*see* **93c:93006**)
— (*with* Pritchard, A. J.) Regional controllability of distributed systems. (English summary) **93m:93010**
Eljendy, A. Numerical approach to the exact controllability of hyperbolic systems. (*see* **93b:49001**)
Everitt, W. N. (*with* Markus, Lawrence) Nonlinear quasi-differential control systems. **93a:93015**
Fabre, Caroline A problem of exact controllability of distributed system: boundary control obtained as limit of internal control. **93f:93019**
— (*with* Puel, Jean-Pierre; Zuazua, Enrike) Contrôlabilité approchée de l'équation de la chaleur semi-linéaire. (English and French summaries) [Approximate controllability for the semilinear heat equation] **93f:93020**
— Exact boundary controllability of the wave equation as the limit of internal controllability. (English summary) **93k:93015**
— (*with* Puel, Jean-Pierre; Zuazua, Enrike) Boundary approximate controllability for semilinear heat equations. (*see* **93i:93005**)
Fagnani, Fabio Controllability and observability indices for linear time-invariant systems: a new approach. **93f:93021**
— (*with* Willems, Jan C.) Controllability of l^2-systems. (English summary) **93g:93012**
Fashoro, M. (*with* Hájek, O.; Loparo, Kenneth A.) Controllability properties of constrained linear systems. **93i:93017**
Frank, Paul M. *see* **Piechottka, U.**
Fujii, Takao *see* **Tsujino, Taro; et al., 93m:93016**
Funahashi, Yasuyuki (*with* Yamada, Manabu) Explicit parametrization of state deadbeat controllers. (English summary) **93g:93013**
Gaishun, I. V. (*with* Hoang Van Quang) Conditions for complete controllability and observability of discrete two-parameter systems. (Russian) **93a:93016**
— (*with* Hoang Van Quang) Controllability of Roesser systems in a global state space. (Russian. Russian summary) **93m:93011**
— Topological properties of two-parameter discrete control systems. (Russian. English and Russian summaries) **93j:93015**
George, Raju K. *see* **Joshi, Mohan C., 93f:93023**
Glowinski, Roland Boundary controllability problems for the wave and heat equations. **93g:93014**
Golovan, A. A. (*with* Parusnikov, N. A.) Methods for identifying the small parameter in a control system from the point of view of controllability measures. (Russian. Russian summary)
Gorshkova, O. Ya. *see* **Avdonin, S. A., 93k:93011**
Grisvard, Pierre Singularities in boundary value problems and exact controllability of

hyperbolic systems. (*see* **93m:00044**)
Hájek, O. *see* **Fashoro, M.; et al., 93i:93017**
Hoang Van Quang *see* **Gaishun, I. V., 93a:93016** *and* **93m:93011**
Ivanov, A. G. Uniform local controllability of a nonlinear system in a class of generalized controls. (Russian. Russian summary) (*see* **93m:00031**)
— (*with* Tonkov, E. L.) On the controllability set of a linear almost periodic system. (Russian) **93a:93017**
Ivanovici, Marian *G*-controllability. **93d:93015**
Johnson, Russell (*with* Nerurkar, Mahesh G.) On null controllability of linear systems with recurrent coefficients and constrained controls. **93f:93022**
Joó, István (*with* Nguyen Minh Tuan) On controllability of bilinear systems. I. Controllability in finite dimensions. **93j:93016**
— (*with* Nguyen Minh Tuan) On controllability of bilinear systems. II. Controllability in two dimensions. **93j:93017**
— (*with* Nguyen Minh Tuan) On controllability of some bilinear systems. (English and French summaries)
— On the control of a net of strings. **93m:93012**
Joshi, Mohan C. (*with* George, Raju K.) On the controllability of predator-prey systems. **93f:93023**
Kaczorek, Tadeusz General response formula, controllability and observability for singular 2-D linear systems with variable coefficients. (English summary) (*see* **93c:93005**)
— Local controllability, reachability, and reconstructibility of the general singular model of 2-D systems. (English summary) **93j:93018**
Kamyad, A. Vahidian Strong controllability of the diffusion equation in *n*-dimensions. **93b:93016**
Khoang Zyong Tuan On the controllability of a class of nonlinear and singularly perturbed systems. (Russian. English and Ukrainian summaries) **93m:93015**
Khritonenko, N. V. Controllability of nonlinear dynamical systems with respect to the Hamiltonian. (Russian. Russian summary) (*see* **93m:00017**)
Klamka, Jerzy Controllability of infinite-dimensional dynamical systems. (*see* **93e:90003**)
— Approximate controllability of second order dynamical systems. **93b:93017**
Komornik, Vilmos On the zeros of Bessel type functions and applications to exact controllability problems. **93a:93018**
— On the exact internal controllability of a Petrowsky system. **93j:93019**
Korobova, E. V. *see* **Bessonov, G. A., 93g:93011**
Koumboulis, F. N. (*with* Paraskevopoulos, P. N.) On the generic controllability of continuous generalized state-space systems. (English summary) **93m:93013**
Kovari, Louis D. *see* **Chukwu, E. N.; et al., 93b:93014**
Kozyakin, V. S. (*with* Pokrovskii, A. V.) The role of controllability-type properties in the study of the stability of desynchronized dynamical systems. (Russian) **93i:93018**
Krabs, W. Controllability of a rotating beam. (*see* **93i:93005**)
Krastanov, M. I. A necessary condition for small time local controllability. **93b:93018**
Kurina, G. A. Complete controllability of singularly perturbed systems with slow and fast modes. (Russian) **93m:93014**
Lagnese, John E. The Hilbert uniqueness method: a retrospective. **93j:93020**
Lasiecka, Irena (*with* Triggiani, Roberto) Further results on exact controllability of the Euler-Bernoulli equation with controls on the Dirichlet and Neumann boundary conditions. (*see* **93c:93006**)
— (*with* Triggiani, Roberto) Exact controllability and uniform stabilization of Kirchhoff plates with boundary control only on $\Delta w|_\Sigma$ and homogeneous boundary displacement. **93e:93006**
— *see also* **Chen, Shu Ping, 93c:93013**
Lebeau, Gilles Contrôle analytique. I. Estimations a priori. [Analytic control. I. A priori estimates] **93i:93019**
Leblond, Juliette *see* **Conrad, Francis; et al., 93e:93005**
Littman, Walter Recent work on the SCOLE model. (*see* **93c:93006**)
Liu, Wan Quan (*with* Wang, En Ping) Impulsive controllability of generalized decentralized control systems. (Chinese. English and Chinese summaries)
Loparo, Kenneth A. *see* **Fashoro, M.; et al., 93i:93017**
Maderner, Nina Regulation of control systems under inequality constraints. (English summary) **93i:93020**
Mäkinen, R. A. E. *see* **Tiba, D.; et al., 93f:93025**
Marano, Salvatore A. Controllability of partial differential inclusions depending on a parameter and distributed parameter control processes. **93b:93019**
Markus, Lawrence *see* **Everitt, W. N., 93a:93015**
Marmorat, Jean-Paul *see* **Conrad, Francis; et al., 93e:93005**
Modi, V. J. *see* **Pradhan, Satyabrata; et al.**
Naito, Koichiro On controllability for a nonlinear Volterra equation. **93a:93019**
Neittaanmäki, Pekka *see* **Tiba, D.; et al., 93f:93025**
Nerurkar, Mahesh G. *see* **Johnson, Russell, 93f:93022**
Nguyen Minh Tuan *see* **Joó, István, 93j:93016; 93j:93017**
Nicaise, Serge Exact controllability of a pluridimensional coupled problem. (English summary) **93j:93021**
Nikoukhah, R. Reachability of shift-invariant multi-dimensional systems. (English summary) (*see* **93c:93005**)
Nistri, Paolo *see* **Conti, Giuseppe; et al., 93j:93014** *and* **93m:93009**
Paraskevopoulos, P. N. *see* **Koumboulis, F. N., 93m:93013**
Parusnikov, N. A. *see* **Golovan, A. A.**
Piechottka, U. (*with* Frank, Paul M.) Controllability of bilinear systems. (English summary)
Pliss, P. V. Continuous dependence of the controllability set of a nonlinear control system on a parameter. **93e:93007**
Pokrovskii, A. V. *see* **Kozyakin, V. S., 93i:93018**
Poljak, Svatopluk On the gap between the structural controllability of time-varying and time-invariant systems. (English summary) **93k:93016**
Pommaret, J.-F. Controllability and turbulence. (English summary) (*see* **93m:00044**)
Pradhan, Satyabrata (*with* Modi, V. J.; Bhat, M. Seetharama) Relationship between the controllability Grammian and closed-loop eigenvalues: the single input case. (English summary)
Pritchard, A. J. *see* **El Jaï, A., 93m:93010**
Puel, Jean-Pierre (*with* Zuazua, Enrike) Controllability of a multidimensional system of Schrödinger equations: application to a system of plate and beam equations. (English summary) (*see* **93i:93005**)
— *see also* **Fabre, Caroline; et al., 93f:93020** *and* **(93i:93005)**
Rauch, Jeffrey *see* **Avellaneda, Marco; et al., 93e:93004**
Sachkov, Yu. L. Invariant domains of three-dimensional bilinear systems. (Russian. Russian summary) **93j:93022**
— Controllability of three-dimensional bilinear systems. (Russian. Russian summary)
Shlikht, A. G. *see* **Zhirabok, A. N., 93k:93018**
Shubin, A. B. *see* **Bobylëv, N. A.; et al., 93h:93012**
Sklyar, G. M. Exact controllability of a linear equation with an unbounded operator. (Russian) **93i:93021**
Sontag, Eduardo D. Universal nonsingular controls. (English summary) **93f:93024**
Sreenivas, Ramavarapu S. A note on deciding the controllability of a language K with respect to a language L. (English summary)
Stojanovic, Srdjan *see* **Barbu, Viorel, 93k:93012**
Sukavanam, N. Approximate controllability of semilinear control systems with growing nonlinearity. (English summary) (*see* **93g:93003**)
Tarokh, M. Measures for controllability, observability, and fixed modes. (English summary)
Tiba, D. (*with* Neittaanmäki, Pekka; Mäkinen, R. A. E.) Controllability-type properties for elliptic systems and applications. **93f:93025**
Tonkov, E. L. *see* **Ivanov, A. G., 93a:93017**
Tret'yak, A. I. Sufficient conditions for local controllability. (Russian. Russian summary) **93k:93017**
Triggiani, Roberto Constructive steering control functions for linear systems and abstract rank conditions. **93f:93026**
— *see also* **Lasiecka, Irena, 93e:93006** *and* **(93c:93006)**
Tsujino, Taro (*with* Fujii, Takao; Wei, Ke Hui) On the connection between controllability and stabilizability of linear systems with structural uncertain parameters. (English summary) **93m:93016**
Underwood, Robert G. *see* **Chukwu, E. N.; et al., 93b:93014**
Utkin, Vadim I. *see* **Drakunov, S. V., 93f:93018**
Vergara B., Luis A. *see* **Ayala, Víctor, 93i:93015**
Wang, En Ping *see* **Liu, Wan Quan**
Wei, Ke Hui *see* **Tsujino, Taro; et al., 93m:93016**
Willems, Jan C. *see* **Fagnani, Fabio, 93g:93012**
Yamada, Manabu *see* **Funahashi, Yasuyuki, 93g:93013**
Yan, Jin Hai Contrôlabilité exacte pour des domaines minces. (English summary) [Exact controllability for thin domains] **93c:93014**
— Contrôlabilité exacte pour des systèmes à mémoire. (English summary) [Exact controllability for systems with memory] **93h:93014**
Zecca, Pietro *see* **Conti, Giuseppe; et al., 93j:93014** *and* **93m:93009**
Zhang, Si Ying *see* **Zhao, Jun, 93g:93015** *and* **(93a:93005)**
Zhang, Yan Ping *see* **Chen, Hui; et al., 93h:93013**
Zhao, Jun (*with* Zhang, Si Ying) On the reachability of nonlinear systems with general symmetry. (*see* **93a:93005**)
— (*with* Zhang, Si Ying) On the controllability of nonlinear systems with symmetry. **93g:93015**
Zhirabok, A. N. (*with* Shlikht, A. G.) Analysis of controllability of dynamic systems. (Russian. Russian summary) **93k:93018**
Zuazua, Enrike Recent results on the controllability of multidimensional flexible structures. (Spanish) (*see* **93j:00009**)
— *see also* **Cioranescu, Doïna; et al., 93b:93015**; **Fabre, Caroline; et al., 93f:93020**; **Puel, Jean-Pierre**, **(93i:93005)** *and* **Fabre, Caroline; et al., (93i:93005)**

Items with secondary classifications in 93B05

Avdonin, S. A. (*with* Belishev, M. I.; Ivanov, S. A.) Dirichlet boundary control in a capture region for the multidimensional wave equation. (Russian. English summary) **93f:93069**
Bassalygo, L. A. (*with* Gel'fand, S. I.; Pinsker, M. S.) Bounds for codes with separately localized errors. (Russian) **93d:94025**
Belishev, M. I. *see* **Avdonin, S. A.; et al., 93f:93069**
Bianchini, R. M. (*with* Stefani, G.) Time-optimal problem and time-optimal map. (English summary) **93m:49011**
Brokate, Martin Optimal control of systems described by ordinary differential equations with nonlinear characteristics of hysteresis type. [II]. (Russian) **93e:49006**
Bunse-Gerstner, Angelika (*with* Mehrmann, Volker; Nichols, Nancy K.) Regularization of descriptor systems by derivative and proportional state feedback. **93a:93023**
Chen, Ji Cheng *see* **Lai, Meng Xia, 93a:93056**
Chikrii, A. A. (*with* Chikrii, G. Ts.) Conflict-controllability of quasilinear processes. (Russian summary) **93g:90101**
Chikrii, G. Ts. *see* **Chikrii, A. A., 93g:90101**
Chu, Xue Dao (*with* Liu, Wan Quan) Feedback control of singular decentralized control systems with direct feedthrough. (English and Chinese summaries)
Cioranescu, Doïna (*with* Donato, Patrizia; Zuazua, Enrike) Exact boundary controllability for the wave equation in domains with small holes. (English and French summaries) **93k:35037**
Coron, Jean-Michel Global asymptotic stabilization for controllable systems without drift. **93m:93084**
Donato, Patrizia *see* **Cioranescu, Doïna; et al., 93k:35037**
Drăgan, Vasile (*with* Halanay, Aristide) Uniform controllability for systems with two time-scales. (English summary) **93k:93066**
Elliott, David L. The geometry of nonlinear control systems. **93j:93031**
Emanuilov, O. Yu. *see* **Fursikov, A. V.**
Fa, Jing Huai (*with* Yang, Xiao Jun; Zheng, Ying Ping) Formulas for a class of controllable and observable sublanguages larger than the supremal controllable and normal sublanguage. (English summary) **93i:93055**
Fliess, Michel Reversible linear and nonlinear discrete-time dynamics. (English summary) **93f:93037**
— A remark on Willems' trajectory characterization of linear controllability. **93g:93022**

Fursikov, A. V. (*with* Èmanuilov, O. Yu.) ε-controllability of the Stokes problem with distributed control concentrated in a subdomain. (Russian)
Gahinet, P. (*with* Laub, Alan J.) Algebraic Riccati equations and the distance to the nearest uncontrollable pair. **93d:93028**
Gaishun, I. V. (*with* Hoang Van Quang) Solvability of a class of operator equations and controllability of the Roesser system. (Russian) **93e:47095**
Garg, Vijay Kumar *see* **Kumar, Ratnesh; et al., 93j:93076**
Gel'fand, S. I. *see* **Bassalygo, L. A.; et al., 93d:94025**
Gurvits, L. N. (*with* Rodman, Leiba; Spitkovsky, Ilya M.) Spectral assignment for Hilbert space operators. **93c:47004**
Habets, L. C. G. J. M. ★ Stabilization of time-delay systems: an overview of the algebraic approach. **93j:93006**
Halanay, Aristide *see* **Drăgan, Vasile, 93k:93066**
Hilgert, Joachim Controllability on real reductive Lie groups. **93d:22017**
Hoang Van Quang *see* **Gaishun, I. V., 93e:47095**
Horn, Mary Ann (*with* Lasiecka, Irena) The Euler-Bernoulli plate is exactly controllable via bending moments only. **93j:35034**
Ivanov, Radostin On viable solutions of feedback controlled system. **93e:93003**
Ivanov, S. A. *see* **Avdonin, S. A.; et al., 93f:93069**
Joó, István On the control of a rectangular membrane. **93j:35035**
Kaczorek, Tadeusz ★ Linear control systems. Vol. 1. **93k:93001**
Kitamori, Toshiyuki *see* **Ohara, A., 93j:93032**
Kovalev, A. M. (*with* Shcherbak, V. F.) Conditions for the unique solvability of inverse problems for controlled dynamical systems. (Russian. Russian and Ukrainian summaries) **93i:93035**
Krabs, W. ★ On moment theory and controllability of one-dimensional vibrating systems and heating processes. **93f:93002**
Kumar, Ratnesh (*with* Garg, Vijay Kumar; Marcus, Steven I.) On supervisory control of sequential behaviors. (English summary) **93j:93076**
Lagnese, John E. (*with* Leugering, G.; Schmidt, E. J. P. G.) Modelling and controllability of networks of thin beams. **93i:93013**
Lai, Meng Xia (*with* Chen, Ji Cheng) A theory of multiple pole assignment by output feedback and its algorithm. (Chinese. English summary) **93a:93056**
Lasiecka, Irena (*with* Triggiani, Roberto) Optimal regularity, exact controllability and uniform stabilization of Schrödinger equations with Dirichlet control. **93d:93048**
— *see also* **Horn, Mary Ann, 93j:35034**
Laub, Alan J. *see* **Gahinet, P., 93d:93028**
Lebeau, Gilles Contrôle de l'équation de Schrödinger. (English summary) [Control of the Schrödinger equation] **93i:35018**
Leugering, G. *see* **Lagnese, John E.; et al., 93i:93013**
Lewis, Frank L. (*with* Mertzios, B. G.) On the analysis of two-dimensional discrete singular systems. **93d:93051**
Lions, Jacques-Louis ★ Sentinelles pour les systèmes distribués à données incomplètes. (French) [Sentinels for distributed systems with incomplete data] **93j:35002**
Liu, Wan Quan *see* **Chu, Xue Dao**
Liu, Yong Qing (*with* Xie, Sheng Li) On the robust stability of interval neutral type control systems with time-delays. (Polish summary) **93d:93065**
Mäkinen, R. A. E. (*with* Neittaanmäki, Pekka; Tiba, D.) A boundary controllability approach in optimal shape design problems. (*see* **93b:49001**)
Marcus, Steven I. *see* **Kumar, Ratnesh; et al., 93j:93076**
Mehrmann, Volker *see* **Bunse-Gerstner, Angelika; et al., 93a:93023**
Mertzios, B. G. *see* **Lewis, Frank L., 93d:93051**
Mote, C. D., Jr. *see* **Yang, B., (93e:73030)**
Neittaanmäki, Pekka *see* **Mäkinen, R. A. E.; et al., (93b:49001)**
Nichols, Nancy K. *see* **Bunse-Gerstner, Angelika; et al., 93a:93023**
Ohara, A. (*with* Kitamori, Toshiyuki) Distances on Grammians and their applications. (English summary) **93j:93032**
Petrov, Nikolai Nikolaevich Completely controllable dynamical polysystems. (Russian. Russian summary) **93j:93077**
Pinsker, M. S. *see* **Bassalygo, L. A.; et al., 93d:94025**
Puel, Jean-Pierre Some regularity properties for the wave equation related to an exact controllability problem. **93i:35019**
Quincampoix, Marc Enveloppes d'invariance pour des inclusions différentielles lipschitziennes: application aux problèmes de cibles. (English summary) [Invariance envelopes for Lipschitzian differential inclusions: application to target problems] **93b:93012**
Rodman, Leiba *see* **Gurvits, L. N.; et al., 93c:47004**
van der Schaft, A. J. Duality for linear systems: external and state space characterization of the adjoint system. **93a:93028**
Schmidt, E. J. P. G. *see* **Lagnese, John E.; et al., 93i:93013**
de la Sen, Manuel New results in stability of a class of hereditary linear systems. **93f:93097**
— On the stabilizability, controllability and observability of linear hereditary systems with distributed commensurate delays. (English summary) **93m:93053**
Shcherbak, V. F. *see* **Kovalev, A. M., 93i:93035**
Shorokhova, E. V. A connection between the properties of the Bellman function and the structure of the domain of null-controllability. (Russian) (*see* **93m:35001**)
Sirotin, A. N. Analysis of problems of programmed control, optimal with respect to probability, of a linear system with discrete time. (Russian) **93e:93070**
Soravia, Pierpaolo Hölder continuity of the minimum-time function for C^1-manifold targets. (English summary) **93m:49013**
Sparavalo, M. K. Stability and controllability of the motion of dynamical systems far from the equilibrium state. (Russian. Russian and Ukrainian summaries) **93i:93092**
Spitkovsky, Ilya M. *see* **Gurvits, L. N.; et al., 93c:47004**
Sreenath, N. Nonlinear control of planar multibody systems in shape space. (English summary) **93f:93065**
Stefani, G. *see* **Bianchini, R. M., 93m:49011**
Szidarovszky, Ferenc (*with* Yen, Jerome) On the controllability of discrete dynamic oligopolies under adaptive expectations. (English summary) **93m:90017**
Tiba, D. *see* **Mäkinen, R. A. E.; et al., (93b:49001)**
Triggiani, Roberto Regularity of wave and plate equations with interior point control. (Italian summary) **93a:35023**
— Regularity with interior point control. I. Wave and Euler-Bernoulli equations. **93f:93071**
— *see also* **Lasiecka, Irena, 93d:93048**
Ushio, Toshimitsu Controllability of predicates and languages in discrete-event systems. (English summary)
(Wilson, Derek R.) *see* **Kaczorek, Tadeusz, 93k:93001**
Xie, Sheng Li *see* **Liu, Yong Qing, 93d:93065**
Yang, B. (*with* Mote, C. D., Jr.) Active vibration control of axially moving continua. (*see* **93e:73030**)
Yang, Xiao Jun *see* **Fa, Jing Huai; et al., 93i:93055**
Yen, Jerome *see* **Szidarovszky, Ferenc, 93m:90017**
Zhang, Si Ying *see* **Zhao, Jun**
Zhao, Jun (*with* Zhang, Si Ying) On symmetries, reachability and controllability of nonlinear systems. (Chinese. English and Chinese summaries)
Zheng, Ying Ping *see* **Fa, Jing Huai; et al., 93i:93055**
Zuazua, Enrike *see* **Cioranescu, Doïna; et al., 93k:35037**

93B06 Relations between controllability and optimal solutions

Ando, Yoshinori (*with* Suzuki, Masayuki; Hibino, R.) High gain observer and reduced order observer. (English summary) (*see* **93g:93005**)
Chang, Fan Jên (*with* Wang, Chi Hui; Fang, Chün Hsiung; Wang, Shêng Tê) Solving the generalized Bezout identity by a state space approach. (English summary) **93e:93008**
Fang, Chün Hsiung *see* **Chang, Fan Jên; et al., 93e:93008**
Hibino, R. *see* **Ando, Yoshinori; et al., (93g:93005)**
van den Hof, Paul M. J. Discriminability of linear models under closed loop observations. (English summary) (*see* **93g:93005**)
Suzuki, Masayuki *see* **Ando, Yoshinori; et al., (93g:93005)**
Wang, Chi Hui *see* **Chang, Fan Jên; et al., 93e:93008**
Wang, Shêng Tê *see* **Chang, Fan Jên; et al., 93e:93008**

Items with secondary classifications in 93B06

Gahinet, P. (*with* Laub, Alan J.) Algebraic Riccati equations and the distance to the nearest uncontrollable pair. **93d:93028**
Ivanovici, Marian *G*-controllability. **93d:93015**
Laub, Alan J. *see* **Gahinet, P., 93d:93028**
Nguyễn Đứ'c Hiếu Optimal observation of linear systems by means of a monotone measuring device. (Russian. English and Russian summaries)
Wimmer, Harald K. Monotonicity and maximality of solutions of discrete-time algebraic Riccati equations. **93b:93068**

93B07 Observability

Banaszuk, A. (*with* Kocięcki, M.; Beauchamps, G.; Lewis, Frank L.) Observability with unknown input and dual properties for singular systems. (English summary) (*see* **93c:93005**)
Bar-Itzhack, I. Y. *see* **Goshen-Meskin, Drora, 93j:93023** *and* **93j:93024**
Başer, Ulviye (*with* Özçaldiran, Kadri) On observability of singular systems. **93d:93016**
Beauchamps, G. *see* **Banaszuk, A.; et al., (93c:93005)**
Bossanne, Denis *see* **Deza, François; et al.**
Busvelle, Éric *see* **Deza, François; et al.**
Chu, Jian *see* **Hu, Xie He**
Ciccarella, G. (*with* Dalla Mora, M.; Germani, Alfredo) A Luenberger-like observer for nonlinear systems. (English summary) **93k:93019**
Dalla Mora, M. *see* **Ciccarella, G.; et al., 93k:93019**
Deza, François (*with* Bossanne, Denis; Busvelle, Éric; Gauthier, Jean-Paul; Rakotopara, Daniel) Exponential observers for nonlinear systems. (English summary)
Fountain, D. W. *see* **Özçaldiran, Kadri; et al., 93a:93021**
Gabasov, R. F. (*with* Kirillova, F. M.; Kostyukova, O. I.) Construction of optimal estimators for linear dynamical systems. (Russian. Russian summary) **93k:93020**
Gauthier, Jean-Paul *see* **Deza, François; et al.**
George, Raju K. Observability of a class of nonlinear abstract systems. (English summary) (*see* **93g:93003**)
Germani, Alfredo *see* **Ciccarella, G.; et al., 93k:93019**
Goshen-Meskin, Drora (*with* Bar-Itzhack, I. Y.) Observability analysis of piecewise constant systems. I. Theory. (English summary) **93j:93023**
— (*with* Bar-Itzhack, I. Y.) Observability analysis of piecewise constant systems. II. Application to inertial navigation in-flight alignment. (English summary) **93j:93024**
Halevi, Yoram *see* **Jalfon, Agnès Cohen, 93i:93022**
Han, Zheng Zhi (*with* Zheng, Yu Fan; Zhang, Zhong Jun) A new canonical form for nonlinear systems. I. The observer type. (Chinese. Chinese summary)
Hou, Ming (*with* Müller, Peter C.) Design of observers for linear systems with unknown inputs. **93a:93020**
Hu, Xie He (*with* Chu, Jian) A design of a reduced-order robust observer for a nonlinear system. (Chinese. English summary)
Inooka, Hikaru *see* **Zheng, Liang-An; et al.**
Ishihara, Tadashi *see* **Zheng, Liang-An; et al.**
Jalfon, Agnès Cohen (*with* Halevi, Yoram) On partially augmented observers for systems with coloured noises. (English summary) **93i:93022**
Kazakos, D. J. Canonical form observability for discrete-time affine nonlinear systems. (English summary) **93j:93025**
Khapalov, A. Yu. Observability of hyperbolic systems with interior moving sensors. (*see* **93i:93005**)
Kirillova, F. M. *see* **Gabasov, R. F.; et al., 93k:93020**
Kocięcki, M. *see* **Banaszuk, A.; et al., (93c:93005)**
Kostyukova, O. I. *see* **Gabasov, R. F.; et al., 93k:93020**
Koumboulis, F. N. *see* **Paraskevopoulos, P. N.**
Krotov, V. F. Observation of linear systems and the principles of quantum mechanics. (Russian. Russian summary) (*see* **93m:93004**)
Kryazhimskiĭ, A. V. Order optimal real-time observers for completely observable control systems. **93b:93020**

Lewis, Frank L. *see* **Özçaldiran, Kadri; et al., 93a:93021** *and* **Banaszuk, A.; et al., (93c:93005)**
Maĭsuradze, V. G. A cooperative variant of the observation problem. (Russian. English and Georgian summaries)
Müller, Peter C. *see* **Hou, Ming, 93a:93020**
Nguyễn Dú'c Hiếu Optimal observation of linear systems by means of a monotone measuring device. (Russian. English and Russian summaries)
Özçaldiran, Kadri (*with* Fountain, D. W.; Lewis, Frank L.) Some generalized notions of observability. **93a:93021**
— *see also* **Başer, Ulviye, 93d:93016**
Paraskevopoulos, P. N. (*with* Koumboulis, F. N.) Observers for singular systems. (English summary)
Rakotopara, Daniel *see* **Deza, François; et al.**
Sal'nikov, N. N. *see* **Volosov, V. V., 93i:93023**
Shields, D. N. Observers for descriptor systems. **93f:93027**
Starkov, K. E. Observability, state estimation and linearization in the sense of Carleman. (Russian) **93a:93022**
— Construction of observation programs for polynomial systems: new results. (Russian. Russian summary) **93m:93017**
Tornambè, Antonio Simple observer-based control law for time lag systems. (English summary) **93g:93016**
— High-gain observers for nonlinear systems. (English summary) **93g:93017**
Volosov, V. V. (*with* Sal'nikov, N. N.) An observer for a class of nonlinear discrete control objects. (Russian. Russian summary) **93i:93023**
Yang, Cheng Wu (*with* Zou, Yun) The existence and design of regular state asymptotic observer for singular systems. **93d:93017**
— *see also* **Zou, Yun, 93k:93022**
Young, Nicholas J. The observability Gramian of the observer form and the Schur-Cohn matrix. (English summary) **93d:93018**
Zhang, Zhong Jun *see* **Han, Zheng Zhi; et al.**
Zheng, Liang-An (*with* Ishihara, Tadashi; Inooka, Hikaru) On prediction-type reduced-order observers for discrete-time systems. (English summary)
Zheng, Yu Fan *see* **Han, Zheng Zhi; et al.**
Zhirabok, A. N. An algebraic criterion for the observability of nonlinear discrete systems. (Russian. Russian summary) **93k:93021**
Zou, Yun (*with* Yang, Cheng Wu) Regular state observers for disturbance decoupling of singular systems. (Chinese. English and Chinese summaries) **93k:93022**
— *see also* **Yang, Cheng Wu, 93d:93017**
Zuev, M. A. On the observability of a second-order system with retarded argument. (Russian. Russian summary) (*see* **93m:00017**)

Items with secondary classifications in 93B07

Araki, Mituhiko *see* **Choe, Yeon-Wook, 93f:93083**
Avellaneda, Marco (*with* Bardos, Claude; Rauch, Jeffrey) Contrôlabilité exacte, homogénéisation et localisation d'ondes dans un milieu non-homogène. [Exact controllability, homogenization and localization of waves in a nonhomogeneous medium] **93e:93004**
Bardos, Claude *see* **Avellaneda, Marco; et al., 93e:93004**
Bar-Itzhack, I. Y. *see* **Goshen-Meskin, Drora, 93f:93120**
Bittanti, Sergio (*with* Bolzern, P.; De Nicolao, Giuseppe) Comments on: "Stabilizability and detectability of discrete-time time-varying systems" [IEEE Trans. Automat. Control **35** (1990), no. 4, 425–429] by J. C. Engwerda. (English summary)
Bolzern, P. *see* **Bittanti, Sergio; et al.**
Choe, Yeon-Wook (*with* Araki, Mituhiko) Control of serial sampling systems. (English summary) **93f:93083**
De Nicolao, Giuseppe *see* **Bittanti, Sergio; et al.**
Diduch, C. P. *see* **Marquez, H. J.**
Elliott, David L. The geometry of nonlinear control systems. **93j:93031**
(Engwerda, Jacob C.) *see* **Bittanti, Sergio; et al.**
Fagnani, Fabio Controllability and observability indices for linear time-invariant systems: a new approach. **93f:93021**
Gaishun, I. V. Topological properties of two-parameter discrete control systems. (Russian. English and Russian summaries) **93j:93015**
Gauthier, Jean-Paul *see* **Hammouri, H., 93i:93064**
Goshen-Meskin, Drora (*with* Bar-Itzhack, I. Y.) On the connection between estimability and observability. (English summary) **93f:93120**
Hammouri, H. (*with* Gauthier, Jean-Paul) Global time-varying linearization up to output injection. (English summary) **93i:93064**
Han, Zheng Zhi (*with* Pan, Dan Jie; Zhang, Zhong Jun; Zheng, Yu Fan) A new observer form for nonlinear systems and its transformation. (English summary) (*see* **93g:93006**)
Kaczorek, Tadeusz General response formula, controllability and observability for singular 2-D linear systems with variable coefficients. (English summary) (*see* **93c:93005**)
Khapalov, A. Yu. *see* **Kurzhanskiĭ, A. B., 93b:93057**
Kitamori, Toshiyuki *see* **Ohara, A., 93j:93032**
Kostousova, E. K. On observability for the one-dimensional heat equation. (Russian. Russian summary) **93h:35084**
Krivonos, I. Yu. (*with* Pokotilo, V. G.) ★ Построение оптимальных динамических наблюдателей. (Russian) [Construction of optimal dynamic observers] **93d:49023**
Kupka, Ivan A. K. Asymptotic state estimation using observers in dynamical and control systems. (*see* **93i:58004**)
Kurzhanskiĭ, A. B. (*with* Khapalov, A. Yu.) The state estimation problem for parabolic systems. **93b:93057**
Kurzhanskiĭ, M. A. A finite-dimensional approximation of an observation and control problem for a hyperbolic system. (Russian. Russian summary) **93m:93049**
Marino, Riccardo (*with* Tomei, Patrizio) Global adaptive observers and output-feedback stabilization for a class of nonlinear systems. (English summary) **93h:93060**
— (*with* Tomei, Patrizio) Global adaptive observers for nonlinear systems via filtered transformations. (English summary) **93i:93029**
Marquez, H. J. (*with* Diduch, C. P.) Sensitivity of failure detection using generalized observers.
Nicolau, Ed. (*with* Vallée, Robert) Dynamic systems, observation and subjectivity. (French and Russian summaries)
Ohara, A. (*with* Kitamori, Toshiyuki) Distances on Grammians and their applications. (English summary) **93j:93032**
Pan, Dan Jie *see* **Han, Zheng Zhi; et al., (93g:93006)**
Pokotilo, V. G. *see* **Krivonos, I. Yu., 93d:49023**
Rauch, Jeffrey *see* **Avellaneda, Marco; et al., 93e:93004**
van der Schaft, A. J. Duality for linear systems: external and state space characterization of the adjoint system. **93a:93028**
de la Sen, Manuel New results in stability of a class of hereditary linear systems. **93f:93097**
— On the stabilizability, controllability and observability of linear hereditary systems with distributed commensurate delays. (English summary) **93m:93053**
Tarokh, M. Measures for controllability, observability, and fixed modes. (English summary)
Tomei, Patrizio *see* **Marino, Riccardo, 93h:93060** *and* **93i:93029**
Vallée, Robert *see* **Nicolau, Ed.**
Zhang, Zhong Jun *see* **Han, Zheng Zhi; et al., (93g:93006)**
Zheng, Yu Fan *see* **Han, Zheng Zhi; et al., (93g:93006)**

93B10 Canonical structure

Bunse-Gerstner, Angelika (*with* Mehrmann, Volker; Nichols, Nancy K.) Regularization of descriptor systems by derivative and proportional state feedback. **93a:93023**
Feng, Tian Qiu *see* **Han, Zheng Zhi; et al., 93c:93015**
Golub, Gene H. (*with* Kågström, Bo; Van Dooren, Paul) Direct block tridiagonalization of single-input single-output systems. **93b:93021**
Han, Zheng Zhi (*with* Feng, Tian Qiu; Zhang, Zhong Jun) An investigation of the structure of (A, B) invariant subspaces and its application. (Chinese. English summary) **93c:93015**
Kågström, Bo *see* **Golub, Gene H.; et al., 93b:93021**
Laub, Alan J. *see* **Williams, T. W. C.**
Li, Zhong Hua Comments on: "Linearization of discrete-time nonlinear systems and a canonical structure" [IEEE Trans. Automat. Control **34** (1989), no. 1, 119–122; MR 89k:93031] by K. Nam. (English summary) **93k:93023**
Liu, Xiao Ping² (*with* Wang, Jing Cai; Zhang, Si Ying) The canonical form of uncontrollable nonlinear control systems. (English summary) **93i:93024**
Mehrmann, Volker *see* **Bunse-Gerstner, Angelika; et al., 93a:93023**
Monaco, Salvatore (*with* Normand-Cyrot, D.) Canonical representations of nonlinear discrete-time systems. **93g:93018**
(Nam, Kwanghee) *see* **Li, Zhong Hua, 93k:93023**
Nichols, Nancy K. *see* **Bunse-Gerstner, Angelika; et al., 93a:93023**
Normand-Cyrot, D. *see* **Monaco, Salvatore, 93g:93018**
Ozcetin, H. K. *see* **Saberi, Ali; et al.**
Picci, Giorgio Stochastic model reduction by aggregation. (*see* **93a:93006**)
Saberi, Ali (*with* Ozcetin, H. K.; Sannuti, Peddapullaiah) New structural invariants of linear multivariable systems. (English summary)
Sannuti, Peddapullaiah *see* **Saberi, Ali; et al.**
Shaked, U. (*with* Yaesh, I.) A simple method for deriving J-spectral factors. **93b:93022**
Van Dooren, Paul *see* **Golub, Gene H.; et al., 93b:93021**
Wang, Jing Cai *see* **Liu, Xiao Ping²; et al., 93i:93024**
Willems, Jan C. Feedback in a behavioral setting. **93i:93025**
Williams, T. W. C. (*with* Laub, Alan J.) Orthogonal canonical forms for second-order systems.
Yaesh, I. *see* **Shaked, U., 93b:93022**
Zhang, Si Ying *see* **Liu, Xiao Ping²; et al., 93i:93024**
Zhang, Zhong Jun *see* **Han, Zheng Zhi; et al., 93c:93015**

Items with secondary classifications in 93B10

Ailon, Amit Disturbance decoupling with stability and impulse-free response in singular systems. (English summary) **93g:93041**
Aldeen, M. *see* **Gong, Z., 93f:93009**
Bodson, Marc *see* **Willner, Yosef; et al., 93g:93051**
Chen, Ji Cheng *see* **Lai, Meng Xia, 93a:93056**
Chuang, Chêng I Multivariable generalization of Ackermann's formula. (English and Chinese summaries) **93m:93059**
Colonius, Fritz (*with* Kliemann, Wolfgang) Minimal and maximal Lyapunov exponents of bilinear control systems. (English summary) **93j:93096**
Ferrer Llop, Josep (*with* Puerta Sales, Fernando) Similarity of non-everywhere defined linear maps. **93b:15010**
Fliess, Michel Reversible linear and nonlinear discrete-time dynamics. (English summary) **93f:93037**
Gong, Z. (*with* Aldeen, M.) On the characterization of fixed modes in decentralized control. **93f:93009**
Han, Zheng Zhi (*with* Zheng, Yu Fan; Zhang, Zhong Jun) A new canonical form for nonlinear systems. I. The observer type. (Chinese. Chinese summary)
— (*with* Pan, Dan Jie) The Yokoyama form and the largest linearizable subsystems of nonlinear control systems. (Chinese. English and Chinese summaries) **93e:93040**
Heymann, Michael *see* **Willner, Yosef; et al., 93g:93051**
Kazakos, D. J. Canonical form observability for discrete-time affine nonlinear systems. (English summary) **93j:93025**
Kliemann, Wolfgang *see* **Colonius, Fritz, 93j:93096**
Lai, Meng Xia (*with* Chen, Ji Cheng) A theory of multiple pole assignment by output feedback and its algorithm. (Chinese. English summary) **93a:93056**
Liu, Jun A multiresolution method for distributed parameter estimation. (English summary) **93i:65124**
Pan, Dan Jie *see* **Han, Zheng Zhi, 93e:93040**
Puerta Sales, Fernando *see* **Ferrer Llop, Josep, 93b:15010**
Starkov, K. E. Observability, state estimation and linearization in the sense of Carleman. (Russian) **93a:93022**
Willner, Yosef (*with* Heymann, Michael; Bodson, Marc) Parameter convergence and uniqueness in nonminimal parameterizations for multivariable adaptive control. **93g:93051**
Ying, Hao A nonlinear fuzzy controller with linear control rules is the sum of a global two-dimensional multilevel relay and a local nonlinear proportional-integral controller.

(English summary)
Zhang, Zhong Jun *see* **Han, Zheng Zhi; et al.**
Zheng, Yu Fan *see* **Han, Zheng Zhi; et al.**

93B11 System structure simplification

Afanas'ev, V. N. (*with* Neusypin, K. A.) A method for constructing reduced models. (Russian. English, Russian and Ukrainian summaries)
Aguirre, Luis Antonio The least squares Padé method for model reduction. (English summary)
Aldhaheri, Rabah W. *see* **Bamani, Ali H.**
Bamani, Ali H. (*with* Aldhaheri, Rabah W.) Combined Schur/L_2-model reduction for nonminimal systems. (English summary)
Bandekas, D. V. *see* **Papadopoulos, D. P.**
Barb, Florin Dan (*with* Weiss, Martin) Model reduction techniques for sampled-data systems. (English summary) **93k:93024**
Chang, Fan Jên (*with* Lin, W. C.; Ch'ên, Hung Chou) Weierstrass decomposition by the standard form approach. **93d:93019**
Chen, Guan Rong (*with* Chui, Charles K.; Yu, Yao Qi) Optimal Hankel-norm approximation approach to model reduction of large-scale Markov chains. (English summary) **93f:93028**
Ch'ên, Hung Chou *see* **Chang, Fan Jên; et al., 93d:93019**
Chernous'ko, F. L. Decomposition and synthesis of control in dynamical systems. (Russian) **93a:93024**
Chui, Charles K. *see* **Chen, Guan Rong; et al., 93f:93028**
Colgren, R. D. (*with* Jonckheere, Edmond A.) Balanced model reduction for large aircraft models. (English summary) (*see* **93g:93005**)
Conte, Giuseppe *see* **Moog, Claude H.; et al., (93a:93005)**
Cuyt, Annie (*with* Ogawa, S.; Verdonk, B.) Model reduction of multidimensional linear shift-invariant recursive systems using Padé techniques. (English summary) **93e:93009**
Goddard, Peter *see* **Sreeram, V.**
Halevi, Yoram Frequency weighted model reduction via optimal projection. (English summary)
Hashim, G. (*with* Rachid, A.; Humbert, C.) Aggregation method for model reduction via Schur decomposition. (English summary) (*see* **93c:93005**)
Humbert, C. *see* **Hashim, G.; et al., (93c:93005)**
Jonckheere, Edmond A. *see* **Colgren, R. D., (93g:93005)** *and* **Li, Rong Sheng[1], (93g:93005)**
Lepschy, A. (*with* Loro, S.; Mian, G. A.; Viaro, Umberto) A numerical procedure for rational L_2 approximation. (English summary) (*see* **93g:93005**)
Li, Rong Sheng[1] (*with* Jonckheere, Edmond A.) Model reduction over simply-connected domain. (English summary) (*see* **93g:93005**)
Lin, W. C. *see* **Chang, Fan Jên; et al., 93d:93019**
Liu, Chin Hsing Augmented decouplable outputs selection for redundantly actuated systems.
Loro, S. *see* **Lepschy, A.; et al., (93g:93005)**
Lucas, T. N. Some further observations on the differentiation method of model reduction. (English summary) **93e:93010**
— Optimal model reduction by multipoint Padé approximation. (English summary)
Mian, G. A. *see* **Lepschy, A.; et al., (93g:93005)**
Moog, Claude H. (*with* Perdon, Anna-Maria; Conte, Giuseppe) Model matching of linear time-varying systems and nonlinear systems. (*see* **93a:93005**)
Neusypin, K. A. *see* **Afanas'ev, V. N.**
Ogawa, S. *see* **Cuyt, Annie; et al., 93e:93009**
Papadopoulos, D. P. (*with* Bandekas, D. V.) Routh approximation method applied to order reduction of linear MIMO systems. (English summary)
Perdon, Anna-Maria *see* **Moog, Claude H.; et al., (93a:93005)**
Rachid, A. *see* **Hashim, G.; et al., (93c:93005)**
Sreeram, V. (*with* Goddard, Peter) Model reduction using impulse-response gramians: a frequency-domain approach. (English summary)
Sugimoto, Sueo A model reduction algorithm via information theoretical approach. (English summary) **93h:93015**
Varga, András Coprime factors model reduction method based on square-root balancing-free techniques. (English summary) (*see* **93e:00021**)
Verdonk, B. *see* **Cuyt, Annie; et al., 93e:93009**
Viaro, Umberto *see* **Lepschy, A.; et al., (93g:93005)**
Weiss, Martin *see* **Barb, Florin Dan, 93k:93024**
Yu, Yao Qi *see* **Chen, Guan Rong; et al., 93f:93028**
Zeng, Xiang Jin Simplification of controllable and observable models for multivariable large-scale systems. (Chinese. English and Chinese summaries)

Items with secondary classifications in 93B11

Banks, S. P. (*with* Iddir, N.) Nonlinear systems, the Lie series, and the left shift operator: application to nonlinear optimal control. (English summary) **93g:93025**
Chang, Fan Jên *see* **Liu, Chin Hsing; et al.**
Chou, Yung Shan *see* **Liu, Chin Hsing; et al.**
Chuang, Chêng I Multivariable generalization of Ackermann's formula. (English and Chinese summaries) **93m:93059**
Fasol, K. H. (*with* Gehre, H. G.) Order reduction, model approximation, and controller design. A survey on some known methods and recommendation of a new approach. (English summary) (*see* **93b:93006**)
Gajic, Zoran *see* **Su, Wu Chung; et al., 93h:34114**
Gehre, H. G. *see* **Fasol, K. H., (93b:93006)**
Glumineau, Alain (*with* Moog, Claude H.) Nonlinear Morgan's problem: case of $(p+1)$ inputs and p outputs. **93d:93041**
Iddir, N. *see* **Banks, S. P., 93g:93025**
Kryazhimskii, A. V. Dynamical regularizibility of inverse problems for control systems. (*see* **93e:90003**)
Liu, Chin Hsing (*with* Chou, Yung Shan; Chang, Fan Jên) Decoupling of continuous-time linear time-invariant systems using generalized sampled-data hold functions.
Moog, Claude H. *see* **Glumineau, Alain, 93d:93041**
Shen, Xuemin *see* **Su, Wu Chung; et al., 93h:34114**
Su, Wu Chung (*with* Gajic, Zoran; Shen, Xuemin) The exact slow-fast decomposition of the algebraic Riccati equation of singularly perturbed systems. (English summary) **93h:34114**
Troch, I. Decoupling systems consisting of partially decoupled subsystems. (English summary) (*see* **93b:93006**)

93B12 Variable structure systems

Azemi, Asad *see* **Yaz, Engin**
Baida, S. V. Unit sliding mode control in continuous- and discrete-time systems. (English summary) **93m:93018**
Burimenko, Yu. I. Some problems in the investigation of controlled systems of objects of variable structure. (Russian. Russian summary)
Cheng, Dai Zhan (*with* Hong, Y.) Stability of ideal sliding dynamics. **93d:93020**
Cheng, Mian *see* **Zheng, Feng; et al.**
Cheong, Chae-Cheon *see* **Choi, Seung-Bok; et al.**
Choi, Seung-Bok (*with* Cheong, Chae-Cheon; Park, Dong-Won) Moving switching surfaces for robust control of second-order variable structure systems. (English summary)
Davies, Roy O. (*with* Spurgeon, S. K.) Robust implementation of sliding mode control schemes. (English summary)
Denker, Ahmet *see* **Kaynak, Okyay, 93m:93019**
Elmali, Hakan (*with* Olgac, Nejat) Sliding mode control with perturbation estimation (SMCPE): a new approach. (English summary)
Fadali, M. S. *see* **Zohdy, Mohamed A.; et al., 93g:93019**
Fu, Li Ch'êng A new robust MRAC using variable structure design for relative degree two plants. (English summary)
Fukuda, Toshio *see* **Watanabe, Keigo; et al., 93h:93016**
Gao, Wei Bing *see* **Zheng, Feng; et al.**
Gostev, V. I. (*with* Semyanik, V. V.) Construction of discrete regulators of variable structure. (Russian. English summary)
Greenough, R. D. *see* **Parvinmehr, A.; et al., (93j:93007)**
Hong, Y. *see* **Cheng, Dai Zhan, 93d:93020**
Iyer, Ashok *see* **Subbarao, G. V.**
Jenner, A. *see* **Parvinmehr, A.; et al., (93j:93007)**
Jung, Chih Hui *see* **Shyu, Kuo Kai; et al., 93j:93026**
Kaynak, Okyay (*with* Denker, Ahmet) Discrete-time sliding mode control in the presence of system uncertainty. (English summary) **93m:93019**
Lee, Ju-Jang (*with* Xu, Yangsheng; Yoo, Dong Sang) Variable structure control using an adaptive boundary of system uncertainty. (English summary) **93i:93026**
Liu, Jun *see* **Zohdy, Mohamed A.; et al., 93g:93019**
Longchamp, R. *see* **Partovi, M., (93j:93007)**
Nandam, Pradeep K. (*with* Sen, P. C.) Control laws for sliding mode speed control of variable speed drives. (English summary)
Novitskii, V. V. A generalization of the modal decomposition method to nonstationary systems. (Russian. Russian summary) (*see* **93m:00038**)
Ohnishi, Kouhei *see* **Sabanovic, Asif; et al.**
Olgac, Nejat *see* **Elmali, Hakan**
Özgüner, Ümit *see* **Young, K. David, 93m:93023**
Park, Dong-Won *see* **Choi, Seung-Bok; et al.**
Partovi, M. (*with* Longchamp, R.) Adaptation of the switching hyperplanes in cautious sliding control with application to mechanical systems. (English summary) (*see* **93j:93007**)
Parvinmehr, A. (*with* Greenough, R. D.; Wilkinson, A. J.; Jenner, A.) Discrete variable structure control for an active anti-vibration system. (English summary) (*see* **93j:93007**)
Potts, Renfrey B. *see* **Yu, Xinghuo, 93e:93011**
Reshetnyak, E. P. An adaptive discrete automatic system of variable structure. (Russian. Russian summary)
Sabanovic, Asif (*with* Sabanovic, Nadira; Ohnishi, Kouhei) Sliding modes in power converters and motion control systems. (English summary)
Sabanovic, Nadira *see* **Sabanovic, Asif; et al.**
Semyanik, V. V. *see* **Gostev, V. I.**
Sen, P. C. *see* **Nandam, Pradeep K.**
Shyu, Kuo Kai (*with* Tsai, Yao Wen; Jung, Chih Hui) A modified variable structure controller. (English summary) **93j:93026**
Sira-Ramirez, Hebertt J. Dynamical sliding mode control strategies in the regulation of nonlinear chemical processes.
— A dynamical variable structure control strategy in asymptotic output tracking problems. (English summary) **93m:93020**
— On the dynamical sliding mode control of nonlinear systems. (English summary) **93m:93021**
Spurgeon, S. K. On the development of discrete-time sliding mode control systems. (*see* **93h:93007**)
— *see also* **Davies, Roy O.**
Subbarao, G. V. (*with* Iyer, Ashok) Nonlinear excitation and governor control using variable structures. (English summary)
Tsai, Yao Wen *see* **Shyu, Kuo Kai; et al., 93j:93026**
Tzafestas, Spyros G. *see* **Watanabe, Keigo; et al., 93h:93016**
Wang, Wên Chün (*with* Wu, Gin Hol) Variable structure control design on discrete-time systems from another viewpoint. **93d:93021**
Watanabe, Keigo (*with* Fukuda, Toshio; Tzafestas, Spyros G.) Sliding mode control and variable structure system observer as a dual problem for systems with nonlinear uncertainties. (English summary) **93h:93016**
Wilkinson, A. J. *see* **Parvinmehr, A.; et al., (93j:93007)**
Woodham, C. A. (*with* Zinober, A. S. I.) Eigenvalue placement in a specified sector for variable structure control systems. (English summary) **93m:93022**
Wu, Gin Hol *see* **Wang, Wên Chün, 93d:93021**
Xu, Yangsheng *see* **Lee, Ju-Jang; et al., 93i:93026**
Yaz, Engin (*with* Azemi, Asad) Variable structure observer with a boundary-layer for correlated noise/disturbance models and disturbance minimization. (English summary)
Yoo, Dong Sang *see* **Lee, Ju-Jang; et al., 93i:93026**

Young, K. David (*with* Özgüner, Ümit) Frequency shaping compensator design for sliding mode. (English summary) **93m:93023**
Yu, Xinghuo (*with* Potts, Renfrey B.) Analysis of discrete variable structure systems with pseudo-sliding modes. **93e:93011**
— Discrete variable structure control systems. (English summary)
Zheng, Feng (*with* Cheng, Mian; Gao, Wei Bing) Variable structure control of nonlinear systems and its implementation. (Chinese. English and Chinese summaries)
Zinober, A. S. I. *see* **Woodham, C. A., 93m:93022**
Zohdy, Mohamed A. (*with* Fadali, M. S.; Liu, Jun) Variable structure control using system decomposition. (English summary) **93g:93019**

Items with secondary classifications in 93B12

Be'ery, Yair *see* **Berger, Yuval, 93m:94043**
Berger, Yuval (*with* Be'ery, Yair) Bounds on the trellis size of linear block codes. (English summary) **93m:94043**
Chen, Ye-Hwa *see* **Han, M. C., 93a:93048**
Fossard, A. J. Helicopter control law based on sliding mode with model following. (English summary)
Grigorenko, N. L. Game-theoretic problems of control with variable structure. (Russian)
Han, M. C. (*with* Chen, Ye-Hwa) Polynomial robust control design for uncertain systems. **93a:93048**
Hashimoto, Hideki *see* **Xu, Jian Xin**
Shyu, Kuo Kai (*with* Yan, Jun Juh) Robust stability of uncertain time-delay systems and its stabilization by variable structure control. (English summary) **93j:93118**
Sira-Ramirez, Hebertt J. On the sliding mode control of nonlinear systems. (English summary) **93g:93023**
Xu, Jian Xin (*with* Hashimoto, Hideki) Parameter identification methodologies based on variable structure control. (English summary)
Yan, Jun Juh *see* **Shyu, Kuo Kai, 93j:93118**

93B15 Realizability of systems from input-output data

Banks, S. P. Nonlinear systems and Kolmogorov's representation theorem. **93d:93022**
Barreiro Blas, Antonio Recursive independent state-space and matrix fraction realizations. **93a:93025**
Blanchini, Franco (*with* Policastro, Mario) Bidiagonal realization for multivariable systems. **93a:93026**
Bonnet, Catherine (*with* Deniau, Claude) Réduction dans la base d'équilibre de systèmes linéaires à temps discret de dimension infinie: le cas des systèmes nucléaires. (English summary) [Reduction of infinite-dimensional discrete-time linear systems via balanced realization: the case of nuclear systems] **93b:93023**
— Approximation of infinite-dimensional discrete time linear systems via balanced realizations and an application to fractional filters. (English summary) (*see* **93i:93005**)
Brú, Rafael *see* **Sánchez, Elena; et al., 93a:93027** *and* **Coll, C.; et al., (93j:00009)**
Chiu, Tai Yih *see* **Lin, C. A., 93f:93031**
Coll, C. (*with* Brú, Rafael; Hernández, Vicente G.) Realizations of rational matrices in discrete periodic linear systems. (Spanish) (*see* **93j:00009**)
Crouch, P. E. (*with* Lamnabhi-Lagarrigue, F.) Realizations of input-output differential equations. (English summary) (*see* **93g:93006**)
Deniau, Claude *see* **Bonnet, Catherine, 93b:93023**
Deskov, V. P. *see* **Gough, N. E.; et al., (93f:93005)**
Dimirovski, G. M. *see* **Gough, N. E.; et al., (93f:93005)**
Donevska, Snejanka D. State-space realization of multidimensional systems via modified Cauer form continued fraction expansion. (*see* **93a:65004**)
Evans, Michael E. Correction to: "Bilinear systems with homogeneous input-output maps" [IEEE Trans. Automat. Control **28** (1983), no. 1, 113–115; MR 84i:93043]. **93i:93027**
Gałkowski, Krzysztof The similarity transformation of the Roesser model-minimization of the dimension. (English summary) (*see* **93e:00021**)
Gohberg, Israel (*with* Kaashoek, Marinus A.; Lerer, L.) Minimality and realization of discrete time-varying systems. (*see* **93d:47148**)
Gough, N. E. (*with* Dimirovski, G. M.; Ting, I. H.; Deskov, V. P.) Minimal realization of a class of discrete multivariable systems based on dyadic characteristic weighting patterns. (English summary) (*see* **93f:93005**)
Grasselli, Osvaldo Maria (*with* Tornambè, Antonio) On obtaining a realization of a polynomial matrix description of a system. **93b:93024**
Hannsgen, Kenneth B. (*with* Staffans, Olof J.; Wheeler, Robert L.) Rational approximation of the transfer function of a viscoelastic rod. (English summary) (*see* **93i:93005**)
Helmke, Uwe *see* **Manthey, W.; et al., 93e:93013**
Hernández, Vicente G. *see* **Sánchez, Elena; et al., 93a:93027** *and* **Coll, C.; et al., (93j:00009)**
Herrera H., Angel N. Static realization of dynamic precompensators. (English summary) **93f:93029**
Hinrichsen, Diederich *see* **Manthey, W.; et al., 93e:93013**
Imae, J. (*with* Perkins, J. E.; Moore, John Barratt) Toward time-varying balanced realization via Riccati equations. **93b:93025**
Kaashoek, Marinus A. *see* **Gohberg, Israel; et al., (93d:47148)**
Keis, Igor The exponential realization of the prescribed motion by the controllable Hamiltonian system via the decomposition method. (Russian and Estonian summaries) **93e:93012**
Krishnan, Hariharan (*with* McClamroch, N. Harris) Computation of state realizations for control systems described by a class of linear differential-algebraic equations. **93k:93025**
Kuijper, M. (*with* Schumacher, J. M.) Minimality of descriptor representations under external equivalence. **93f:93030**
Lamnabhi-Lagarrigue, F. *see* **Crouch, P. E., (93g:93006)**
Lerer, L. *see* **Gohberg, Israel; et al., (93d:47148)**
Lévine, Jean Finite-dimensional realizations of stochastic PDEs and application to filtering. **93d:93023**
Lin, C. A. (*with* Chiu, Tai Yih) Model reduction via frequency weighted balanced realization. (English summary) **93f:93031**
Maïzi, Nadia A "relaxation" approach for the Hankel approximation of some vibrating structures. (English summary) (*see* **93i:93005**)
Manthey, W. (*with* Helmke, Uwe; Hinrichsen, Diederich) Topological aspects of the partial realization problem. **93e:93013**
McClamroch, N. Harris *see* **Krishnan, Hariharan, 93k:93025**
Meaux, Laurie M. *see* **Terdik, György, (93h:93009)**
Moore, John Barratt *see* **Imae, J.; et al., 93b:93025**
Pavon, Michele On the realization of all-pass functions. (English summary) **93k:93026**
Perkins, J. E. *see* **Imae, J.; et al., 93b:93025**
Policastro, Mario *see* **Blanchini, Franco, 93a:93026**
Sánchez, Elena (*with* Hernández, Vicente G.; Brú, Rafael) Minimal realizations for discrete-time linear periodic systems. **93a:93027**
van der Schaft, A. J. Duality for linear systems: external and state space characterization of the adjoint system. **93a:93028**
Schumacher, J. M. *see* **Kuijper, M., 93f:93030**
Sontag, Eduardo D. *see* **Wang, Yuan², 93d:93024** *and* **93i:93028**
Staffans, Olof J. *see* **Hannsgen, Kenneth B.; et al., (93i:93005)**
Tchoń, K. Nongenericity of a realization problem for observed dynamics. **93f:93032**
Terdik, György (*with* Meaux, Laurie M.) Note on bispectra of bilinear realizable processes with Hermite degree 2. (English summary) (*see* **93h:93009**)
Ting, I. H. *see* **Gough, N. E.; et al., (93f:93005)**
Tornambè, Antonio *see* **Grasselli, Osvaldo Maria, 93b:93024**
Uetake, Yoichi Realization of noncausal 2-D systems based on a descriptor model. (English summary)
Verhaegen, Michel Robustness of the novel MOESP realization scheme. (English summary) (*see* **93g:93005**)
Wang, Yuan² (*with* Sontag, Eduardo D.) Generating series and nonlinear systems: analytic aspects, local realizability, and i/o representations. **93d:93024**
— (*with* Sontag, Eduardo D.) Algebraic differential equations and rational control systems. (English summary) **93i:93028**
Wheeler, Robert L. *see* **Hannsgen, Kenneth B.; et al., (93i:93005)**

Items with secondary classifications in 93B15

Delaleau, Emmanuel (*with* Fliess, Michel) Algorithme de structure, filtrations et découplage. (English summary) [Structure algorithm, filtrations and decoupling] **93c:93016**
Drăgan, Vasile Discrete implementation of a stabilizing linear control for a system with two time scales. **93b:93070**
Fliess, Michel *see* **Delaleau, Emmanuel, 93c:93016**
Hinamoto, Takao (*with* Toshiaki, Takao; Muneyasu, Mitsuji) Synthesis of 2-D separable-denominator digital filters with low sensitivity. (English summary) **93i:93122**
Ishijima, Shintaro (*with* Zheng, Yu Fan) Dynamic decomposition of nonlinear control systems. (English summary) (*see* **93g:93006**)
Kaczorek, Tadeusz ★ Linear control systems. Vol. 1. **93k:93001**
Kobayashi, Toshihiro Zeros and design of control systems for distributed parameter systems. (English summary) **93f:93070**
Muneyasu, Mitsuji *see* **Hinamoto, Takao; et al., 93i:93122**
Picci, Giorgio (*with* Pinzoni, S.) Acausal systems and the linear matrix inequality. (English summary) (*see* **93g:93006**)
— (*with* van Schuppen, J. H.) Stochastic realization of finite-valued processes and primes in the positive matrices. (English summary) (*see* **93g:93006**)
Pinzoni, S. *see* **Picci, Giorgio, (93g:93006)**
van Schuppen, J. H. *see* **Picci, Giorgio, (93g:93006)**
Terdik, György Bilinear state space realization for polynomial stochastic systems. **93b:93111**
Toshiaki, Takao *see* **Hinamoto, Takao; et al., 93i:93122**
Vostrikov, A. S. (*with* Yurkevich, V. D.) The decoupling of multi-channel nonlinear time-varying systems by derivative feedback. (Polish summary) **93d:93042**
(Wilson, Derek R.) *see* **Kaczorek, Tadeusz, 93k:93001**
Yurkevich, V. D. *see* **Vostrikov, A. S., 93d:93042**
Zheng, Yu Fan *see* **Ishijima, Shintaro, (93g:93006)**

93B17 Transformation

Abesser, H. (*with* Steigenberger, Joachim) On structure preserving transformations in Hamiltonian control systems. **93b:93026**
Chang, Fan Jên *see* **Fang, Chün Hsiung; et al.**
Cheng, Geng Dong *see* **Zhong, Wan Xie**
Chiang, Huann Keng *see* **Tsai, Jason S. H., 93f:93033**
Di Benedetto, Maria Domenica (*with* Glumineau, Alain; Moog, Claude H.) Découplage entrée-sortie des systèmes non linéaires par retour d'état dynamique pur. (English and French summaries) [Nonlinear input-output decoupling by pure dynamic state feedback] **93j:93027**
Fang, Chün Hsiung (*with* Chang, Fan Jên; Huang, Wen Liang) Application of singular system feedback to polynomial matrices and system transformation. (English summary)
Glumineau, Alain *see* **Di Benedetto, Maria Domenica; et al., 93j:93027**
Hedrick, J. Karl *see* **Slotine, Jean-Jacques**
Huang, Wen Liang *see* **Fang, Chün Hsiung; et al.**
Karampetakis, N. P. (*with* Vardulakis, A. I.) Matrix fractions and full system equivalence. (English summary) **93m:93024**
Kimura, Morishige Conversion of discrete-time time-invariant linear systems into continuous systems. (English summary) **93k:93027**
Linnemann, Arno (*with* Wang, Qing Guo) Block decoupling with stability by unity output feedback—solution and performance limitations. (English summary) **93m:93025**
Lovass-Nagy, Victor (*with* Powers, David L.; Schilling, Robert J.) On inversion of linear descriptor-variable control systems containing input derivatives. (English summary) **93d:93025**
Marino, Riccardo (*with* Tomei, Patrizio) Global adaptive observers for nonlinear systems via filtered transformations. (English summary) **93i:93029**
Moog, Claude H. *see* **Di Benedetto, Maria Domenica; et al., 93j:93027**
Powers, David L. *see* **Lovass-Nagy, Victor; et al., 93d:93025**
Safonov, Michael G. *see* **Wang, Wei Zhen**

Schilling, Robert J. *see* **Lovass-Nagy, Victor; et al., 93d:93025**
Slotine, Jean-Jacques (*with* Hedrick, J. Karl) Robust input-output feedback linearization. (English summary)
Steigenberger, Joachim *see* **Abesser, H., 93b:93026**
Tomei, Patrizio *see* **Marino, Riccardo, 93i:93029**
Tsai, Jason S. H. (*with* Chiang, Huann Keng) Transformations for a class of nonlinear time-varying multivariable systems and their applications. (English summary) **93f:93033**
Vardulakis, A. I. *see* **Karampetakis, N. P., 93m:93024**
Wang, Qing Guo *see* **Linnemann, Arno, 93m:93025**
Wang, Wei Zhen (*with* Safonov, Michael G.) Multiplicative-error bound for balanced stochastic truncation model reduction. (English summary)
Zaslavskii, B. G. Eventually nonnegative realization of difference control systems. **93g:93020**
Zhong, Wan Xie (*with* Cheng, Geng Dong) Regularization of singular control and a stiffness shifting method. (Chinese. English summary)

Items with secondary classifications in 93B17

Bernhardsson, Bo (*with* Sternad, Mikael) Feedforward control is dual to deconvolution. (English summary) **93j:93064**
Chabour, Rachid (*with* Ferfera, Abdelhak) Noninteracting control and disturbance decoupling with singularity for two-dimensional bilinear systems. **93f:93110**
Conte, Giuseppe *see* **Perdon, Anna-Maria; et al., 93b:93053**
Falb, Peter ★ Methods of algebraic geometry in control theory. Part I. (English. English summary) **93m:93003**
Ferfera, Abdelhak *see* **Chabour, Rachid, 93f:93110**
Gajic, Zoran *see* **Qureshi, Muhammad T., 93b:93072**
Grasselli, Osvaldo Maria (*with* Longhi, Sauro) Block decoupling of linear periodic discrete-time systems. (English summary) (*see* **93g:93005**)
Huijberts, H. J. C. Using the physical properties of systems for control: an illustration. (English summary) (*see* **93c:93006**)
— (*with* Nijmeijer, Henk; van der Wegen, L. L. M.) Minimality of dynamic input-output decoupling for nonlinear systems. **93d:93044**
Inaba, Hiroshi *see* **Wang, Weiben**
Kang, Wei (*with* Krener, Arthur J.) Extended quadratic controller normal form and dynamic state feedback linearization of nonlinear systems. (English summary) **93k:93054**
Kappos, Efthimios A global geometrical input-output linearization theory. (English summary) **93f:93034**
Kornoushenko, E. K. Monitoring of logic-dynamic systems based on sampled performance data. (Russian. Russian summary)
Kotta, Ülle Dynamic disturbance decoupling for discrete time nonlinear systems: the nonsquare and noninvertible case. (Russian and Estonian summaries) **93a:93072**
Krener, Arthur J. *see* **Kang, Wei, 93k:93054**
Li, Zhong Hua Comments on: "Linearization of discrete-time nonlinear systems and a canonical structure" [IEEE Trans. Automat. Control **34** (1989), no. 1, 119–122; MR 89k:93031] by K. Nam. (English summary) **93k:93023**
Longhi, Sauro *see* **Perdon, Anna-Maria; et al., 93b:93053** *and* **Grasselli, Osvaldo Maria, (93g:93005)**
Milman, Mark H. *see* **Spanos, J. T.; et al.**
Mingori, D. L. *see* **Spanos, J. T.; et al.**
(Nam, Kwanghee) *see* **Li, Zhong Hua, 93k:93023**
Nijmeijer, Henk *see* **Huijberts, H. J. C.; et al., 93d:93044**
Pal, Jayanta (*with* Prasad, Rajendra) Biased reduced order models for discrete-time systems. (English and Polish summaries)
Perdon, Anna-Maria (*with* Conte, Giuseppe; Longhi, Sauro) Invertibility and inversion of linear periodic systems. **93b:93053**
Prasad, Rajendra *see* **Pal, Jayanta**
Qureshi, Muhammad T. (*with* Gajic, Zoran) A new version of the Chang transformation. **93b:93072**
Spanos, J. T. (*with* Milman, Mark H.; Mingori, D. L.) A new algorithm for L_2 optimal model reduction. (English summary)
Sternad, Mikael *see* **Bernhardsson, Bo, 93j:93064**
Volgin, L. N. Exact model-matching conditions for a minimal-phase object. (Russian. English, Russian and Ukrainian summaries) **93h:93030**
Wang, Weiben (*with* Inaba, Hiroshi) Block decoupling for linear systems over unique factorization domains. (Japanese. English summary)
van der Wegen, L. L. M. *see* **Huijberts, H. J. C.; et al., 93d:93044**

93B18 Linearizability

d'Andréa-Novel, B. (*with* Martin, Philippe; Sepulchre, R.) Full linearization of a class of mechanical systems via dynamic state feedback. (English summary) (*see* **93g:93006**)
Bell, D. J. Harmonic linearization in optimal control. (English summary) **93j:93028**
Benítez-Read, J. S. (*with* Jamshidi, M.) Adaptive input-output linearizing control of nuclear reactors. (English summary)
Bossart, Theodore C. *see* **Singh, Sahjendra N., 93m:93026**
Čelikovský, Sergej On the global linearization of nonhomogeneous bilinear systems. (English summary) **93h:93017**
Di Benedetto, Maria Domenica *see* **Grizzle, J. W., 93g:93021**
Fliess, Michel (*with* Lévine, Jean; Martin, Philippe; Rouchon, Pierre) Sur les systèmes non linéaires différentiellement plats. (English and French summaries) [On differentially flat nonlinear systems] **93j:93029**
Grizzle, J. W. (*with* Di Benedetto, Maria Domenica) Approximation by regular input-output maps. **93g:93021**
Jamshidi, M. *see* **Benítez-Read, J. S.**
Kappos, Efthimios A global geometrical input-output linearization theory. (English summary) **93f:93034**
Lévine, Jean *see* **Fliess, Michel; et al., 93j:93029**
Martin, Philippe *see* **Fliess, Michel; et al., 93j:93029** *and* **d'Andréa-Novel, B.; et al., (93g:93006)**
Prada-Rizzo, Marco Tulio *see* **Sira-Ramirez, Hebertt J.**
Rotella, F. (*with* Zambettakis, I.) Generating series for analytic systems. **93f:93035**
Rouchon, Pierre *see* **Fliess, Michel; et al., 93j:93029**
Sepulchre, R. *see* **d'Andréa-Novel, B.; et al., (93g:93006)**
Shi, Song Jiao *see* **Sun, Hao; et al.**
Singh, Sahjendra N. (*with* Bossart, Theodore C.) Exact feedback linearization and control of space station using CMG. (English summary) **93m:93026**
Sira-Ramirez, Hebertt J. (*with* Prada-Rizzo, Marco Tulio) Nonlinear feedback regulator design for the Ćuk converter. (English summary)
Sun, Hao (*with* Xi, Yu Geng; Shi, Song Jiao; Zhang, Zhong Jun) Predictive control of extended linearization for nonlinear systems. (Chinese. English and Chinese summaries)
Xi, Yu Geng *see* **Sun, Hao; et al.**
Zambettakis, I. *see* **Rotella, F., 93f:93035**
Zhang, Zhong Jun *see* **Sun, Hao; et al.**

Items with secondary classifications in 93B18

Banks, S. P. (*with* Iddir, N.) Nonlinear systems, the Lie series, and the left shift operator: application to nonlinear optimal control. (English summary) **93g:93025**
— Infinite-dimensional Carleman linearization, the Lie series and optimal control of nonlinear partial differential equations. **93f:49022**
Bokor, J. *see* **Terdik, György; et al., (93e:00021)**
Campion, Guy *see* **Schwartz, Carla A., 93a:93061**
Di Benedetto, Maria Domenica (*with* Sastry, S. Shankar) Adaptive linearization and model reference control of a class of MIMO nonlinear systems. (English summary) **93j:93069**
Esfandiari, Farzad (*with* Khalil, Hassan K.) Output feedback stabilization of fully linearizable systems. (English summary) **93h:93057**
Gardner, Robert B. The geometry of nonlinear control systems. **93e:93016**
Han, Zheng Zhi (*with* Pan, Dan Jie) The Yokoyama form and the largest linearizable subsystems of nonlinear control systems. (Chinese. English and Chinese summaries) **93e:93040**
Iddir, N. *see* **Banks, S. P., 93g:93025**
Kang, Wei (*with* Krener, Arthur J.) Extended quadratic controller normal form and dynamic state feedback linearization of nonlinear systems. (English summary) **93k:93054**
Khalil, Hassan K. *see* **Esfandiari, Farzad, 93h:93057**
Korobova, E. V. (*with* Sklyar, G. M.) Constructive method for mapping nonlinear systems onto linear systems. **93d:34015**
Krener, Arthur J. *see* **Kang, Wei, 93k:93054**
Ozcetin, H. K. *see* **Saberi, Ali; et al.**
Pan, Dan Jie *see* **Han, Zheng Zhi, 93e:93040**
Park, Jooyoung (*with* Sandberg, Irwin W.) Criteria for the approximation of nonlinear systems. (English summary) **93j:93071**
Saberi, Ali (*with* Ozcetin, H. K.; Sannuti, Peddapullaiah) New structural invariants of linear multivariable systems. (English summary)
Sandberg, Irwin W. *see* **Park, Jooyoung, 93j:93071**
Sannuti, Peddapullaiah *see* **Saberi, Ali; et al.**
Sastry, S. Shankar *see* **Di Benedetto, Maria Domenica, 93j:93069**
Schwartz, Carla A. (*with* Campion, Guy) Zero dynamics—another oxymoron? Or en route to adaptive control of nonlinear systems. **93a:93061**
Sklyar, G. M. *see* **Korobova, E. V., 93d:34015**
Sontag, Eduardo D. Universal nonsingular controls. (English summary) **93f:93024**
Terdik, György (*with* Várlaki, Peter M.; Bokor, J.) On problem of stochastic bilinear realization. (*see* **93e:00021**)
Várlaki, Peter M. *see* **Terdik, György; et al., (93e:00021)**

93B20 Minimal systems representations

Benyamin-Seeyar, Anader *see* **Jia, Ming; et al.**
Cheng, Dai Zhan (*with* Martin, Clyde Franklin; Tarn, Tzyh Jong) On Morgan's problem for a class of nonlinear systems. (English summary) (*see* **93g:93006**)
Jakubczyk, B. (*with* Respondek, W.) Feedback classification of analytic control systems in the plane. **93b:93027**
Jia, Ming (*with* Benyamin-Seeyar, Anader; Le-Ngoc, Tho) Exact lower bounds on the codelength of three-step permutation-decodable cyclic codes. (English summary)
Le-Ngoc, Tho *see* **Jia, Ming; et al.**
MacKay, D. J. C. Maximum entropy connections: neural networks. (*see* **93b:00011**)
Martin, Clyde Franklin *see* **Cheng, Dai Zhan; et al., (93g:93006)**
Respondek, W. *see* **Jakubczyk, B., 93b:93027**
Tarn, Tzyh Jong *see* **Cheng, Dai Zhan; et al., (93g:93006)**

Items with secondary classifications in 93B20

Brú, Rafael *see* **Sánchez, Elena; et al., 93a:93027**
Fagnani, Fabio (*with* Willems, Jan C.) Controllability of l^2-systems. (English summary) **93g:93012**
Hernández, Vicente G. *see* **Sánchez, Elena; et al., 93a:93027**
Kuijper, M. (*with* Schumacher, J. M.) Minimality of descriptor representations under external equivalence. **93f:93030**
Lévine, Jean Finite-dimensional realizations of stochastic PDEs and application to filtering. **93d:93023**
Nieuwenhuis, J. W. Restricted sums of linear systems and transfer-like sums. (English summary) **93j:93067**
Parlett, Beresford N. Reduction to tridiagonal form and minimal realizations. **93c:65059**
Sánchez, Elena (*with* Hernández, Vicente G.; Brú, Rafael) Minimal realizations for discrete-time linear periodic systems. **93a:93027**
Schumacher, J. M. *see* **Kuijper, M., 93f:93030**
Willems, Jan C. *see* **Fagnani, Fabio, 93g:93012**

93B25 Algebraic methods

Abou-Kandil, Hisham (*with* Jank, Gerhard) Asymptotic behaviour of coupled matrix-Riccati-differential equation: a computer algebra approach. (English summary) (*see* **93j:00008**)

Abu el Ata-Doss, S. (*with* Coïc, A.; Fliess, Michel) Nonlinear predictive control by inversion: discontinuities for critical behaviour.
Ackner, Reuven (*with* Kailath, Thomas) On the Ptàk-Young generalization of the Schur-Cohn theorem. (English summary) **93i:93030**
Auba, T. (*with* Funahashi, Yasuyuki) Upper and lower bounds of Gramian for a class of perturbed linear systems. (English summary)
Ball, Joseph A. (*with* Gohberg, Israel; Rodman, Leiba) Interpolation problems for rational matrix functions and systems theory. (English summary) (*see* **93g:93005**)
Cao, Li[2] (*with* Zheng, Yu Fan) Nonlinear inverse systems with minimal order. (*see* **93a:93005**)
Chang, Fan Jên (*with* Ch'ên, Hung Chou) Cayley-Hamilton theorem for the standard form $(sE - A)$. (English summary) **93j:93030**
— (*with* Ch'ên, Hung Chou) The generalized Cayley-Hamilton theorem for standard pencils. **93a:93029**
Ch'ên, Hung Chou *see* **Chang, Fan Jên, 93a:93029** *and* **93j:93030**
Chojnowska-Michalik, Anna (*with* Duncan, Tyrone E.; Pasik-Duncan, Bożenna) Uniform operator continuity of the stationary Riccati equation in Hilbert space. **93f:93036**
Coïc, A. *see* **Abu el Ata-Doss, S.; et al.**
Delaleau, Emmanuel (*with* Fliess, Michel) Algorithme de structure, filtrations et découplage. (English summary) [Structure algorithm, filtrations and decoupling] **93c:93016**
Delgado A., Víctor *see* **Henríquez, Hernán R.; et al., 93f:93039**
Duncan, Tyrone E. *see* **Chojnowska-Michalik, Anna; et al., 93f:93036**
Faulkenberry, Richard E. The continuous kernel of a nonsquare rational matrix function. **93e:93014**
Fliess, Michel Reversible linear and nonlinear discrete-time dynamics. (English summary) **93f:93037**
— A remark on Willems' trajectory characterization of linear controllability. **93g:93022**
— *see also* **Delaleau, Emmanuel, 93c:93016** *and* **Abu el Ata-Doss, S.; et al.**
Fornasini, E. (*with* Zampieri, S.) Algebraic aspects of 2D singular systems. (English summary) (*see* **93j:00008**)
Funahashi, Yasuyuki *see* **Auba, T.**
Gohberg, Israel *see* **Ball, Joseph A.; et al., (93g:93005)**
Grasselli, Osvaldo Maria (*with* Longhi, Sauro) Invariant zeros of linear systems connected in series. **93f:93038**
Henríquez, Hernán R. (*with* Delgado A., Víctor; San Martín A., María E.) Invariance properties of trajectories in linear control systems. (Spanish) **93f:93039**
Jank, Gerhard *see* **Abou-Kandil, Hisham, (93j:00008)**
Jonckheere, Edmond A. (*with* Li, Rong Sheng[1]) Inner functions and bounded real lemma over simply-connected domain. (English summary) (*see* **93g:93005**)
Kailath, Thomas *see* **Ackner, Reuven, 93i:93030**
Karamancıoğlu, A. (*with* Lewis, Frank L.) Geometric theory for the singular Roesser model. **93b:93028**
Kautschitsch, Hermann Rings with feedback cyclization-property. **93a:93030**
Lewis, Frank L. *see* **Karamancıoğlu, A., 93b:93028** *and* **Mertzios, B. G., (93c:93005)**
Li, Rong Sheng[1] *see* **Jonckheere, Edmond A., (93g:93005)**
Longhi, Sauro *see* **Grasselli, Osvaldo Maria, 93f:93038**
Mertzios, B. G. (*with* Lewis, Frank L.) Efficient inversion of a generalized pencil of matrices. (English summary) (*see* **93c:93005**)
Moore, John Barratt *see* **Yan, Wei Yong, (93g:93003)**
Pasik-Duncan, Bożenna *see* **Chojnowska-Michalik, Anna; et al., 93f:93036**
Pommaret, J.-F. Intrinsic differential algebra. **93b:93029**
Rodman, Leiba *see* **Ball, Joseph A.; et al., (93g:93005)**
San Martín A., María E. *see* **Henríquez, Hernán R.; et al., 93f:93039**
Sira-Ramirez, Hebertt J. On the sliding mode control of nonlinear systems. (English summary) **93g:93023**
Soh, C. B. Frequency domain criteria for strict aperiodicity of linear interval systems. (English summary) **93k:93028**
Unbehauen, H. (*with* Vakilzadeh, I.) Feedforward technique in rendezvous problems for n identical simple-integral plants. (English summary) **93h:93018**
Vakilzadeh, I. *see* **Unbehauen, H., 93h:93018**
Wei, Lin Fang *see* **Yeh, Fang Bo, (93f:93006)**
Yan, Wei Yong (*with* Moore, John Barratt) On stable matrix linear fractional transformations. (English summary) (*see* **93g:93003**)
Yeh, Fang Bo (*with* Wei, Lin Fang) Super-optimal Hankel-norm approximations. (English summary) (*see* **93f:93006**)
Zampieri, S. *see* **Fornasini, E., (93j:00008)**
Zheng, Yu Fan *see* **Cao, Li[2], (93a:93005)**

Items with secondary classifications in 93B25

Agashe, S. D. *see* **Rao, Ashok, (93g:93003)**
Ailon, Amit Disturbance decoupling with stability and impulse-free response in singular systems. (English summary) **93g:93041**
Anderson, Brian D. O. *see* **White, Langford B., 93g:93038**
Aplevich, J. D. ★ Implicit linear systems. **93b:93001**
Ball, Joseph A. (*with* Gohberg, Israel; Rodman, Leiba) Boundary Nevanlinna-Pick interpolation for rational matrix functions. **93g:47016**
— (*with* Helton, J. William) Inner-outer factorization of nonlinear operators. **93e:47099**
Banaszuk, A. (*with* Kocięcki, M.; Lewis, Frank L.) Kalman decomposition for implicit linear systems. (English summary) **93h:93035**
Bloch, Anthony M. (*with* Reyhanoglu, Mahmut; McClamroch, N. Harris) Control and stabilization of nonholonomic dynamic systems. (English summary) **93j:93123**
Chang, Fan Jên (*with* Wang, Chi Hui; Fang, Chün Hsiung; Wang, Shêng Tê) Solving the generalized Bezout identity by a state space approach. (English summary) **93e:93008**
Chang, Wen Jer (*with* Chung, Hung Yüan) Upper bound covariance control of discrete perturbed systems. (English summary) **93j:93137**
Chen, Hua Ling (*with* Dai, De Pei) Using the theory of Volterra series to analyze the transfer functions of a hysteresis nonlinear system. (Chinese. English and Chinese summaries)
Chen, L. W. *see* **Tsai, Mi Ching, 93m:93035**
Chui, Charles K. (*with* Li, Xie Zhang; Ward, Joseph D.) On the convergence rate of s-numbers of compact Hankel operators. **93d:47052**
Chung, Hung Yüan *see* **Chang, Wen Jer, 93j:93137**
Conte, Giuseppe *see* **Wyman, B. F.; et al., 93j:93063**
Dai, De Pei *see* **Chen, Hua Ling**
Diop, Sette Differential-algebraic decision methods and some applications to system theory. **93f:12011**
Falb, Peter ★ Methods of algebraic geometry in control theory. Part I. (English. English summary) **93m:93003**
Fang, Chün Hsiung *see* **Chang, Fan Jên; et al., 93e:93008**
Fliess, Michel (*with* Lévine, Jean; Martin, Philippe; Rouchon, Pierre) Sur les systèmes non linéaires différentiellement plats. (English and French summaries) [On differentially flat nonlinear systems] **93j:93029**
Georgiou, Tryphon T. (*with* Smith, Malcolm Clive) Robust stabilization in the gap metric: controller design for distributed plants. (English summary) **93h:93071**
Gohberg, Israel *see* **Ball, Joseph A.; et al., 93g:47016**
Habets, L. C. G. J. M. ★ Stabilization of time-delay systems: an overview of the algebraic approach. **93j:93006**
Hara, Shinji (*with* Kimura, T.; Kondō, Ryōji) H_∞ control system design by a parameter space approach. (English summary) **93k:93039**
Helmke, Uwe Waring's problem for binary forms. **93e:11057**
— (*with* Moore, John Barratt) Singular-value decomposition via gradient and self-equivalent flows. **93m:65036**
Helton, J. William *see* **Ball, Joseph A., 93e:47099**
Hu, Xiao Ming Output tracking through singularities for nonlinear systems. (English summary) (*see* **93g:93006**)
Imai, Hiroshi Simultaneous recovery of loop transfer property and disturbance attenuation property by high gain observer. (English summary) **93m:93036**
Jia, Lei (*with* Li, Mu Lan) A new method for solving time-varying bilinear systems. (Chinese. English and Chinese summaries) **93k:15026**
Kaczorek, Tadeusz Invertibility of 2-D linear systems. (English summary) **93e:93041**
Karampetakis, N. P. (*with* Vardulakis, A. I.) Matrix fractions and full system equivalence. (English summary) **93m:93024**
Kimura, T. *see* **Hara, Shinji; et al., 93k:93039**
Kocięcki, M. *see* **Banaszuk, A.; et al., 93h:93035**
Kondō, Ryōji *see* **Hara, Shinji; et al., 93k:93039**
Kudrewicz, Jacek ★ Dynamika pętli fazowej. (Polish) [Dynamics of phase-locked loops] **93c:34082**
Lévine, Jean *see* **Fliess, Michel; et al., 93j:93029**
Lewis, Frank L. An introduction to 2-D implicit systems. (English summary) (*see* **93c:93005**)
— *see also* **Banaszuk, A.; et al., 93h:93035**
Li, Mu Lan *see* **Jia, Lei, 93k:15026**
Li, Xie Zhang *see* **Chui, Charles K.; et al., 93d:47052**
Martin, Philippe *see* **Fliess, Michel; et al., 93j:93029**
McClamroch, N. Harris *see* **Bloch, Anthony M.; et al., 93j:93123**
Moore, John Barratt *see* **Helmke, Uwe, 93m:65036**
Owens, David H. *see* **Rogers, Eric L., 93f:93003**
Perdon, Anna-Maria *see* **Wyman, B. F.; et al., 93j:93063**
Rao, Ashok (*with* Agashe, S. D.) Matrix polynomials—a new tool in linear system theory. (English summary) (*see* **93g:93003**)
Reyhanoglu, Mahmut *see* **Bloch, Anthony M.; et al., 93j:93123**
Rodman, Leiba Pole shifting for matrices over real algebras. (English summary) **93j:93062**
— *see also* **Ball, Joseph A.; et al., 93g:47016**
Rogers, Eric L. (*with* Owens, David H.) ★ Stability analysis for linear repetitive processes. **93f:93003**
Rotella, F. (*with* Zambettakis, I.) Generating series for analytic systems. **93f:93035**
Rouchon, Pierre *see* **Fliess, Michel; et al., 93j:93029**
Sain, Michael K. *see* **Wyman, B. F.; et al., 93j:93063**
Shi, Guo Jun (*with* Zou, Yun; Yang, Cheng Wu) An algebraic approach to robust H_∞ control via state feedback. (English summary) **93i:93047**
Shlikht, A. G. *see* **Zhirabok, A. N., 93k:93018**
Smith, Malcolm Clive *see* **Georgiou, Tryphon T., 93h:93071**
Sontag, Eduardo D. *see* **Wang, Yuan[2], 93d:93024**
Szczepaniak, Piotr S. A contribution to matrix equations arising in system theory. (English summary) **93k:15005**
Tsai, Mi Ching (*with* Chen, L. W.) A numerical algorithm for inner-outer factorizations of real-rational matrices. (English summary) **93m:93035**
Vardulakis, A. I. *see* **Karampetakis, N. P., 93m:93024**
Wang, Chi Hui *see* **Chang, Fan Jên; et al., 93e:93008**
Wang, Le Yi (*with* Zames, George) Robust adaptation in slowly time-varying systems: double-algebra theory. (English summary) (*see* **93d:93008**)
Wang, Shêng Tê *see* **Chang, Fan Jên; et al., 93e:93008**
Wang, Yuan[2] (*with* Sontag, Eduardo D.) Generating series and nonlinear systems: analytic aspects, local realizability, and i/o representations. **93d:93024**
Ward, Joseph D. *see* **Chui, Charles K.; et al., 93d:47052**
White, Langford B. (*with* Anderson, Brian D. O.) Stationary discrete-time covariance factorization using Newton-Raphson iteration. **93g:93038**
Wyman, B. F. (*with* Sain, Michael K.; Conte, Giuseppe; Perdon, Anna-Maria) Algebraic and system-theoretic notions of poles and zeros for matrices of rational functions. (English summary) **93j:93063**
Yang, Cheng Wu *see* **Shi, Guo Jun; et al., 93i:93047**
Young, Nicholas J. The observability Gramian of the observer form and the Schur-Cohn matrix. (English summary) **93d:93018**
Zambettakis, I. *see* **Rotella, F., 93f:93035**
Zames, George *see* **Wang, Le Yi, (93d:93008)**
Zhirabok, A. N. (*with* Shlikht, A. G.) Analysis of controllability of dynamic systems. (Russian. Russian summary) **93k:93018**
— An algebraic criterion for the observability of nonlinear discrete systems. (Russian. Russian summary) **93k:93021**

Zou, Yun *see* **Shi, Guo Jun; et al., 93i:93047**

93B27 Geometric methods (including algebro-geometric)

Conte, Giuseppe (*with* Longhi, Sauro; Perdon, Anna-Maria) On the geometry of singular periodic systems. (English summary) (*see* **93c:93005**)
Elliott, David L. The geometry of nonlinear control systems. **93j:93031**
Grossman, Robert Evaluation of expressions involving higher order derivations. **93a:93031**
Hermann, Robert ★ Geometric computing science: first steps. **93a:93032**
Karcanias, Nicos Geometric properties and invariants of rational vector spaces. (English summary) (*see* **93g:93006**)
Kitamori, Toshiyuki *see* **Ohara, A., 93j:93032**
Longhi, Sauro *see* **Conte, Giuseppe; et al., (93c:93005)**
Mittenhuber, Dirk Lie-Gruppen, Kontrolltheorie und das Maximumprinzip. [Lie groups, control theory and the maximum principle] **93c:93017**
Ohara, A. (*with* Kitamori, Toshiyuki) Distances on Grammians and their applications. (English summary) **93j:93032**
Perdon, Anna-Maria *see* **Conte, Giuseppe; et al., (93c:93005)**
Schättler, Heinz M. *see* **Venkatasubramanian, V.; et al., 93f:93040**
Sussmann, Héctor J. The leading term of a control variation. **93a:93033**
Venkatasubramanian, V. (*with* Schättler, Heinz M.; Zaborszky, J.) Stability regions for differential-algebraic systems. **93f:93040**
Zaborszky, J. *see* **Venkatasubramanian, V.; et al., 93f:93040**

Items with secondary classifications in 93B27

Anderson, Brian D. O. *see* **Helmke, Uwe, 93g:93071**
Ayala, Víctor (*with* Vergara B., Luis A.) Co-adjoint representation and controllability. **93i:93015**
Banaszuk, A. (*with* Kocięcki, M.; Lewis, Frank L.) Kalman decomposition for implicit linear systems. (English summary) **93h:93035**
Bar-Itzhack, I. Y. *see* **Goshen-Meskin, Drora, 93j:93023** *and* **93j:93024**
Başer, Ulviye (*with* Özçaldiran, Kadri) On observability of singular systems. **93d:93016**
Basile, Giuseppe (*with* Marro, Giovanni) ★ Controlled and conditioned invariants in linear system theory. **93e:93001**
Bloch, Anthony M. (*with* Reyhanoglu, Mahmut; McClamroch, N. Harris) Control and stabilization of nonholonomic dynamic systems. (English summary) **93j:93123**
Bonnard, Bernard (*with* Kupka, Ivan A. K.) Théorie des singularités de l'application entrée/sortie et optimalité des trajectoires singulières dans le problème du temps minimal. (English and French summaries) [Theory of the singularities of the input/output mapping and optimality of singular trajectories in the minimal-time problem] **93m:49009**
Borukhov, V. T. Controllable invariant flags in the theory of linear dynamical systems. (Russian. English and Russian summaries) **93f:93017**
Chen, Guan Rong (*with* Chui, Charles K.; Yu, Yao Qi) Optimal Hankel-norm approximation approach to model reduction of large-scale Markov chains. (English summary) **93f:93028**
Chui, Charles K. *see* **Chen, Guan Rong; et al., 93f:93028**
Chuprina, V. E. Controllability of a linear time-independent discrete system on a subspace with retention. (Russian) **93j:93013**
Diop, Sette Closedness of morphisms of differential algebraic sets. Applications to system theory. (English summary) **93k:12011**
Goshen-Meskin, Drora (*with* Bar-Itzhack, I. Y.) Observability analysis of piecewise constant systems. I. Theory. (English summary) **93j:93023**
— (*with* Bar-Itzhack, I. Y.) Observability analysis of piecewise constant systems. II. Application to inertial navigation in-flight alignment. (English summary) **93j:93024**
Helmke, Uwe (*with* Anderson, Brian D. O.) Hermitian pencils and output feedback stabilization of scalar systems. (English summary) **93g:93071**
— *see also* **Manthey, W.; et al., 93e:93013**
Hinrichsen, Diederich *see* **Manthey, W.; et al., 93e:93013**
Karcanias, Nicos *see* **Leventides, John, 93a:93057**
Kocięcki, M. *see* **Banaszuk, A.; et al., 93h:93035**
Krener, Arthur J. The construction of optimal linear and nonlinear regulators. **93c:93028**
Kulhavý, Rudolf Recursive nonlinear estimation: geometry of a space of posterior densities. **93c:93047**
Kupka, Ivan A. K. *see* **Bonnard, Bernard, 93m:49009**
Leventides, John (*with* Karcanias, Nicos) A new sufficient condition for arbitrary pole placement by real constant output feedback. **93a:93057**
Lewis, Frank L. A tutorial on the geometric analysis of linear time-invariant implicit systems. **93b:93005**
— *see also* **Banaszuk, A.; et al., 93h:93035**
Liu, Xiao Ping² (*with* Wang, Jing Cai; Zhang, Si Ying) The canonical form of uncontrollable nonlinear control systems. (English summary) **93i:93024**
Magni, Jean-François A geometric approach to pole assignment by output feedback. (English summary) **93j:93061**
Manthey, W. (*with* Helmke, Uwe; Hinrichsen, Diederich) Topological aspects of the partial realization problem. **93e:93013**
Marro, Giovanni *see* **Basile, Giuseppe, 93e:93001**
McClamroch, N. Harris *see* **Bloch, Anthony M.; et al., 93j:93123**
Nguyễn Huỳnh Phán On the topology of the space of reachable symmetric linear systems. **93a:57038**
Özçaldiran, Kadri *see* **Başer, Ulviye, 93d:93016**
Reyhanoglu, Mahmut *see* **Bloch, Anthony M.; et al., 93j:93123**
Rosenthal, Joachim A compactification of the space of multivariable linear systems using geometric invariant theory. **93b:93059**
San Martin, Luiz Nonreversibility of subsemigroups of semisimple Lie groups. **93e:22015**
Sontag, Eduardo D. *see* **Wang, Yuan², 93d:93024** *and* **93i:93028**
Vakhrameev, S. A. Morse theory and Lyusternik-Shnirel'man theory in geometric control theory. (Russian) **93d:58040**
Vergara B., Luis A. *see* **Ayala, Víctor, 93i:93015**
Wang, Jing Cai *see* **Liu, Xiao Ping²; et al., 93i:93024**
Wang, Yuan² (*with* Sontag, Eduardo D.) Generating series and nonlinear systems: analytic aspects, local realizability, and i/o representations. **93d:93024**
— (*with* Sontag, Eduardo D.) Algebraic differential equations and rational control systems. (English summary) **93i:93028**
van der Wegen, L. L. M. ★ Local disturbance decoupling with stability for nonlinear systems. **93h:93005**
Yu, Yao Qi *see* **Chen, Guan Rong; et al., 93f:93028**
Zhang, Si Ying *see* **Liu, Xiao Ping²; et al., 93i:93024**

93B28 Operator-theoretic methods [see also 47A57, 47N70]

Ball, Joseph A. (*with* Gohberg, Israel; Kaashoek, Marinus A.) Time-varying systems: Nevanlinna-Pick interpolation and sensitivity minimization. (English summary) **93m:93027**
Bamieh, Bassam A. (*with* Pearson, J. Boyd, Jr.; Francis, Bruce Allen; Tannenbaum, Allen R.) A lifting technique for linear periodic systems with applications to sampled-data control. **93c:93018**
Bongers, Peter M. M. (*with* Bosgra, Okko H.) Normalized coprime factorizations for systems in generalized state-space form. (English summary) **93j:93033**
Bosgra, Okko H. *see* **Bongers, Peter M. M., 93j:93033**
Dewilde, Patrick M. *see* **van der Veen, Alle-Jan, (93g:93006)**
Feintuch, Avraham Graphs of time varying linear systems and coprime factorizations. **93h:93019**
Fliess, Michel (*with* Lévine, Jean; Rouchon, Pierre) Index of a general differential-algebraic implicit system. (English summary) **93k:93029**
Francis, Bruce Allen *see* **Bamieh, Bassam A.; et al., 93c:93018**
Glover, Keith State space formulae for the multiplicative approximation of multivariable transfer functions. (English summary) **93k:93030**
Gohberg, Israel *see* **Ball, Joseph A.; et al., 93m:93027**
Gombani, A. On some results by Fuhrmann on Hankel operators. (English summary) (*see* **93g:93006**)
Herrera H., Angel N. *see* **Lafay, J. F.; et al., 93i:93031**
Kaashoek, Marinus A. *see* **Ball, Joseph A.; et al., 93m:93027**
Kodama, Shinzo *see* **Ohta, Yoshito; et al., (93g:93005)**
Lafay, J. F. (*with* Zagalak, Petr; Herrera H., Angel N.) Reduced form of the interactor matrix. (English summary) **93i:93031**
Lévine, Jean *see* **Fliess, Michel; et al., 93k:93029**
Lin, Zhi Ping On primitive factorizations for 3-D polynomial matrices. (English summary) **93m:93028**
Maeda, Hajime *see* **Ohta, Yoshito; et al., (93g:93005)**
Mastorakis, N. E. (*with* Theodorou, N. J.; Tzafestas, Spyros G.) Factorization of m-D polynomials in linear m-D factors. (English summary) **93j:93034**
Ohta, Yoshito (*with* Maeda, Hajime; Kodama, Shinzo) l_1-interpolation problem: J-contraction unimodular factorizability. (English summary) (*see* **93g:93005**)
Pearson, J. Boyd, Jr. *see* **Bamieh, Bassam A.; et al., 93c:93018**
Rouchon, Pierre *see* **Fliess, Michel; et al., 93k:93029**
Rozenvasser, E. N. Systems characteristics of linear periodic pulse operators. (Russian) **93a:93034**
Tadmor, Gilead (*with* Verma, Madanpal) Factorization and the Nehari theorem in time-varying systems. (English summary) **93g:93024**
Tannenbaum, Allen R. *see* **Bamieh, Bassam A.; et al., 93c:93018**
Theodorou, N. J. *see* **Mastorakis, N. E.; et al., 93j:93034**
Tzafestas, Spyros G. *see* **Mastorakis, N. E.; et al., 93j:93034**
van der Veen, Alle-Jan (*with* Dewilde, Patrick M.) Orthogonal embedding theory for contractive time-varying systems. (English summary) (*see* **93g:93006**)
Verma, Madanpal *see* **Tadmor, Gilead, 93g:93024**
Wang, Jian Qi (*with* Wang, Shien Yu) Approximation of nonlinear functionals via general orthogonal polynomials and application to control problems. (English summary) **93e:93015**
Wang, Shien Yu *see* **Wang, Jian Qi, 93e:93015**
Zagalak, Petr *see* **Lafay, J. F.; et al., 93i:93031**

Items with secondary classifications in 93B28

Alpay, Daniel (*with* Dewilde, Patrick M.; Dym, Harry) Interpolation in a class of upper-triangular operators. (English summary) (*see* **93g:93005**)
— (*with* Ball, Joseph A.; Gohberg, Israel; Rodman, Leiba) State space theory of automorphisms of rational matrix functions. **93d:47029**
Ball, Joseph A. *see* **Alpay, Daniel; et al., 93d:47029**
Baratchart, Laurent On the well-posedness of rational approximation and the identification of linear dynamical systems. (English summary) (*see* **93g:93005**)
Belyĭ, S. V. (*with* Tsekanovskiĭ, È. R.) Classes of operator R-functions and their realization by conservative systems. (Russian) **93f:47013**
Bonnet, Catherine Réduction de systèmes linéaires discrets de dimension infinie: étude de filtres fractionnaires. (English and French summaries) [Approximation of infinite-dimensional systems: an application to fractional filters] **93k:93058**
Dahleh, Munther A. (*with* Khammash, Mustafa H.) Controller design for plants with structured uncertainty. (English summary) **93j:93040**
Dewilde, Patrick M. *see* **Alpay, Daniel; et al., (93g:93005)**
Dobovišek, Mirko The Riccati algebraic equation in a locally-C^*-algebra. (English summary) **93k:46059**
Dym, Harry *see* **Alpay, Daniel; et al., (93g:93005)**
(Fairbairn, N. A.) *see* **Zhang, Han Quan**
Gohberg, Israel *see* **Alpay, Daniel; et al., 93d:47029**
(Grimble, M. J.) *see* **Zhang, Han Quan**
Gu, Da-Wei (*with* Postlethwaite, Ian; Tsai, Mi Ching) H^∞ super-optimal solutions. **93i:93041**
Ivanov, A. G. (*with* Tonkov, E. L.) On the controllability set of a linear almost periodic system. (Russian) **93a:93017**
Katayama, Tohru A spectral factorization for discrete-time system via state-space method. (English summary) (*see* **93g:93005**)

Khammash, Mustafa H. *see* **Dahleh, Munther A., 93j:93040**
(Kimura, Hidenori) *see* **Recent advances in mathematical theory of systems, control, networks and signal processing, 93g:93005** *and* **93g:93006**
Kobayashi, Toshihiro Zeros and design of control systems for distributed parameter systems. (English summary) **93f:93070**
(Kodama, Shinzo) *see* **Recent advances in mathematical theory of systems, control, networks and signal processing, 93g:93005** *and* **93g:93006**
Lakernik, A. R. Some special Wiener-Hopf operators. (Russian) (*see* **93k:00021**)
Partington, Jonathan R. Robust identification in H_∞. **93e:93019**
Postlethwaite, Ian *see* **Gu, Da-Wei; et al., 93i:93041**
Rodman, Leiba *see* **Alpay, Daniel; et al., 93d:47029**
Sakhnovich, L. A. Operator identities and theory of systems. (English summary) (*see* **93g:93005**)
Shima, M. System theory via path integrals. (English summary) (*see* **93g:93006**)
Stanomir, D. A theory of discrete-time systems. A functional approach. II. Fundamental concepts. (English summary) **93i:93082a**
— A theory of discrete-time systems. A functional approach. III. Some applications. (English summary) **93i:93082b**
Tonkov, E. L. *see* **Ivanov, A. G., 93a:93017**
Tsai, Mi Ching *see* **Gu, Da-Wei; et al., 93i:93041**
Tsekanovskiĭ, È. R. *see* **Belyĭ, S. V., 93f:47013** *and* **Tsekanovskiĭ, V. È., (93g:93005)**
Tsekanovskiĭ, V. È. (*with* Tsekanovskiĭ, È. R.) Stieltjes operator-functions with the gaps and their realization by conservative systems. (English summary) (*see* **93g:93005**)
Wysocki, Hubert (*with* Zellma, Marek) Identification of a generalized dynamic system using the modulating element method. (English, Russian and Polish summaries) **93k:93034**
Zellma, Marek *see* **Wysocki, Hubert, 93k:93034**
Zhang, Han Quan Comment on: "H_∞ robust controller for self-tuning control applications. I, II, III" [Internat. J. Control **46** (1987), no. 4, 1429–1444; ibid. **46** (1987), no. 5, 1819–1840; ibid. **52** (1990), no. 1, 15–36] by M. J. Grimble and N. A. Fairbairn. (English summary)

Items listed otherwise than by author

Kobe ★ Recent advances in mathematical theory of systems, control, networks and signal processing. I. **93g:93005**
— ★ Recent advances in mathematical theory of systems, control, networks and signal processing. II. **93g:93006**
Recent advances in mathematical theory of systems, control, networks and signal processing
★ Recent advances in mathematical theory of systems, control, networks and signal processing. I. **93g:93005**
— ★ Recent advances in mathematical theory of systems, control, networks and signal processing. II. **93g:93006**
Symposium:
Mathematical Theory of Networks and Systems ★ Recent advances in mathematical theory of systems, control, networks and signal processing. I. **93g:93005**
— ★ Recent advances in mathematical theory of systems, control, networks and signal processing. II. **93g:93006**

93B29 Differential-geometric methods

Banks, S. P. (*with* Iddir, N.) Nonlinear systems, the Lie series, and the left shift operator: application to nonlinear optimal control. (English summary) **93g:93025**
Bonnard, Bernard Feedback equivalence for nonlinear systems and the time optimal control problem. **93b:93030**
Eliopoulou, H. (*with* Karcanias, Nicos) Geometric properties of the Segre characteristic at infinity of a singular pencil. (English summary) (*see* **93g:93006**)
Gardner, Robert B. The geometry of nonlinear control systems. **93e:93016**
Hinrichsen, Diederich (*with* O'Halloran, J.) New results on the orbit closure problem for singular systems under pencil equivalence. (English summary) (*see* **93g:93006**)
Iddir, N. *see* **Banks, S. P., 93g:93025**
Karcanias, Nicos *see* **Eliopoulou, H., (93g:93006)**
Kupka, Ivan A. K. On feedback equivalence. **93b:93031**
— Asymptotic state estimation using observers in dynamical and control systems. (*see* **93i:58004**)
Li, Zhong Hua (*with* Zhang, Si Ying) Feedback decoupling of general nonlinear systems. (Chinese. English summary) **93g:93026**
Liu, Xiao Ping[2] *see* **Zhang, Si Ying; et al.**
O'Halloran, J. *see* **Hinrichsen, Diederich, (93g:93006)**
Sussmann, Héctor J. New differential geometric methods in nonholonomic path finding. **93i:93032**
Wang, Jing Cai *see* **Zhang, Si Ying; et al.**
Zhang, Si Ying (*with* Wang, Jing Cai; Liu, Xiao Ping[2]) Differential geometry algorithms and nonlinear control systems. V. (Chinese. English summary)
— *see also* **Li, Zhong Hua, 93g:93026**

Items with secondary classifications in 93B29

Elliott, David L. The geometry of nonlinear control systems. **93j:93031**
Kappos, Efthimios A global geometrical input-output linearization theory. (English summary) **93f:93034**
Krastanov, M. I. A necessary condition for small time local controllability. **93b:93018**
Levitt, Norman Dynamical polysystems and vector bundles. **93f:55016**
Petrov, Nikolai Nikolaevich Completely controllable dynamical polysystems. (Russian. Russian summary) **93j:93077**
Schumann, L. M. Riemannian metric and optimal feedback control. (English summary) **93i:49047**
Sontag, Eduardo D. *see* **Wang, Yuan[2], 93d:93024** *and* **93i:93028**
Sussmann, Héctor J. The leading term of a control variation. **93a:93033**
Tchoń, K. Nongenericity of a realization problem for observed dynamics. **93f:93032**
Wang, Yuan[2] (*with* Sontag, Eduardo D.) Generating series and nonlinear systems: analytic aspects, local realizability, and i/o representations. **93d:93024**
— (*with* Sontag, Eduardo D.) Algebraic differential equations and rational control systems. (English summary) **93i:93028**
Zhang, Si Ying *see* **Zhao, Jun, (93a:93005)**
Zhao, Jun (*with* Zhang, Si Ying) On the reachability of nonlinear systems with general symmetry. (*see* **93a:93005**)

93B30 System identification

Abu el Ata-Doss, S. *see* **Richalet, J.; et al., (93h:93009)**
Akçay, Hüseyin (*with* Gu, Guoxiang; Khargonekar, Pramod P.) A class of algorithms for identification in $\mathscr{H}_\infty$: continuous-time case. (English summary) **93j:93035**
Algazin, S. D. Prediction of the dynamics of a nuclear reactor. (Russian. Russian summary) (*see* **93m:93004**)
Alpay, Daniel (*with* Baratchart, Laurent; Leblond, Juliette) Some extremal problems linked with identification from partial frequency data. (English summary) (*see* **93i:93005**)
Arora, Jasbir S. *see* **House, John M.; et al.**
Arruda, L. V. R. (*with* Favier, G.) A review and a comparison of robust estimation methods. (English summary) (*see* **93h:93009**)
Åström, Karl Johan *see* **Hägglund, T., (93h:93009)**
Augestein, Donald R. (*with* Baras, John S.; Fisher, Shalom M.) Parameter identification of large spacecraft systems based on frequency characteristics. (English summary) (*see* **93i:93005**)
Backx, A. C. P. M. *see* **Zhu, Yu Cai, (93h:93009)**
Bai, Er Wei (*with* Chyung, Dong H.) Improving delay estimates derived from least-square algorithms and Padé approximations. (English summary) **93j:93036**
Baird, C. Robert *see* **Xu, Hong Yue; et al., 93g:93029**
Balonin, N. A. (*with* Popov, O. S.) Identification of the parameters of systems under conditions of their normal operation. (Russian. Russian summary)
Baras, John S. *see* **Augestein, Donald R.; et al., (93i:93005)**
Baratchart, Laurent On the well-posedness of rational approximation and the identification of linear dynamical systems. (English summary) (*see* **93g:93005**)
— *see also* **Alpay, Daniel; et al., (93i:93005)**
Bastin, G. (*with* Bitmead, Robert R.; Campion, Guy; Gevers, Michel) Identification of linearly-overparametrized nonlinear systems. **93g:93027**
Beghelli, S. (*with* Soverini, U.) Identification of linear relations from noisy data: geometrical aspects. (English summary) **93d:93026**
Begines Begines, F. (*with* Martín Gómez, José D.) Identification of the diffusion coefficient of salt in manzanilla olives. (Spanish) (*see* **93j:00009**)
Belforte, G. (*with* Tay, T. T.) Recursive estimation for linear models with set membership measurement error. (English summary) (*see* **93h:93009**)
Billings, S. A. *see* **Tsang, K. M.**
Bingulac, S. (*with* Cooper, D. L.) Identification of first-order hold continuous-time systems. (English summary) (*see* **93h:93009**)
Bitmead, Robert R. *see* **Bastin, G.; et al., 93g:93027**
Björklund, M. (*with* Nihtilä, M. T.; Söderström, T.) An algorithm for identification of linear systems with varying time-delay. (English summary) (*see* **93h:93009**)
Bobrow, James E. (*with* Murray, Walter) An algorithm for RLS identification of parameters that vary quickly with time. (English summary)
Boje, E. (*with* Eitelberg, E.) On identification of time delay via the approximation $e^{-Ts} \simeq (1 - sT/2)/(1 + sT/2)$. (English summary) (*see* **93h:93009**)
Bokor, J. *see* **Michelberger, P.; et al., (93h:93009)**
Bondarenko, M. V. *see* **Tsypkin, Ya. Z., 93a:93037**
van den Boom, T. (*with* Klompstra, Martin H.; Damen, A.) System identification for H_∞-robust control design. (English summary) (*see* **93h:93009**)
Boyd, Stephen P. *see* **Kosut, Robert L.; et al., 93f:93042**
Božin, A. S. (*with* Zarrop, M. B.) The convergence of a modified ELS algorithm. (English summary) (*see* **93j:93007**)
Cai, Man-ping (*with* Lee, E. Bruce) Identification of linear systems using rational approximation techniques. (English summary) (*see* **93g:93007**)
Campion, Guy *see* **Bastin, G.; et al., 93g:93027**
Canciu, V. V. *see* **Negoita, Gh. M.**
Casalino, G. (*with* Minciardi, Riccardo) Further results on implicit models with application to LQ adaptive optimization. **93a:93035**
Cerone, V. Parameter bounds for models with bounded errors in all variables. (English summary) (*see* **93h:93009**)
— Parameter bounding in ARMAX models from records with bounded errors in variables. (English summary) (*see* **93h:93009**)
Chappell, M. J. (*with* Godfrey, K. R.) Structural identifiability of nonlinear systems: application to a batch reactor. (English summary) (*see* **93h:93009**)
Chen, Jie[1] *see* **Zhang, H. G.; et al., (93h:93007)**
Chen, Lai Jiu *see* **Zhang, Hua Guang**
Chernyshev, K. R. *see* **Pashchenko, F. F., 93e:93021**
Chyung, Dong H. *see* **Bai, Er Wei, 93j:93036**
Coïc, A. *see* **Richalet, J.; et al., (93h:93009)**
Cooper, D. L. *see* **Bingulac, S., (93h:93009)**
Dahleh, Munther A. *see* **Tse, D. N. C.; et al., (93g:93005)**
Damen, A. *see* **van den Boom, T.; et al., (93h:93009)**
De Moor, Bart L. R. (*with* Gevers, Michel; Goodwin, Graham C.) Overbiased, underbiased and unbiased estimation of transfer functions. (English summary) (*see* **93h:93009**)
— *see also* **Van Overschee, P.; et al., (93g:93005)**
Deprettere, Ed F. *see* **Verhaegen, Michel, 93e:93022**
Devdariani, S. Yu. On the problem of identifying the prehistory structure for linear systems. (Russian. English and Georgian summaries)
Ding, Feng (*with* Xie, Xin Min) A combined identification algorithm for multivariable linear systems. (Chinese. English and Chinese summaries)
— (*with* Xie, Xin Min) An instrumental model identification algorithm for multivariable systems. (Chinese. English and Chinese summaries)
Dumont, G. A. (*with* Fu, Ye; Elshafei, A.-L.) Orthonormal functions in identification and adaptive control. (English summary) (*see* **93i:93007**)

Durgaprasad, G. (*with* Prasada Rao, Ganti; Patra, Amit; Mukhopadhyay, Siddhartha) Indirect methods of parameter estimation of discrete-time models. (English summary) (*see* **93h:93009**)

Efimov, I. E. Analysis of systematic error in natural simulators. (Russian. Russian summary)

Eitelberg, E. *see* **Boje, E., (93h:93009)**

Elshafei, A.-L. *see* **Dumont, G. A.; et al., (93i:93007)**

El'tsov, A. A. (*with* Ruban, A. I.) Robust identification of distributed dynamical objects described by loaded equations with the application of estimates for sensitivity functions. (Russian. Russian summary)

Favier, G. *see* **Arruda, L. V. R., (93h:93009)**

Figwer, J. (*with* Niederliński, A.; Kasprzyk, J.) A new approach to the identification of linear discrete-time MISO systems. (English summary) (*see* **93h:93009**)

Fisher, D. Grant *see* **Niu, Shao Hua; et al.**

Fisher, Shalom M. *see* **Augestein, Donald R.; et al., (93i:93005)**

Fitzpatrick, Ben G. *see* **Yin, Gang George, (93g:93005)**

Forsman, K. (*with* Ljung, Lennart) On the dead-zone in system identification. (English summary) (*see* **93h:93009**)

Franke, B. *see* **Löhnberg, Peter, (93h:93009)**

Fu, Ye *see* **Dumont, G. A.; et al., (93i:93007)**

Fujinaka, T. *see* **Shibata, H.; et al., (93h:93009)**

Fukudome, Y. *see* **Shibata, H.; et al., (93h:93009)**

Fursov, V. A. Accuracy analysis and construction of identification algorithms based on few observations. (Russian)

Furumoto, N. *see* **Shibata, H.; et al., (93h:93009)**

Gabasov, R. F. (*with* Kirillova, F. M.; Prishchepova, S. V.) Optimal identificator of dynamic systems. (English, Russian and Lithuanian summaries) **93h:93020**

García, Carlos E. *see* **Rivera, Daniel E.; et al.**

Gawthrop, P. J. (*with* Jones, Richard W.; MacKenzie, S. A.) Identification of partially-known systems. (English summary) (*see* **93h:93009**)

Ge, Zu Guang *see* **Hu, Yang Zeng; et al., 93c:93020**

Gevers, Michel Connecting identification and robust control: a new challenge. (English summary) (*see* **93h:93009**)

— *see also* **Bastin, G.; et al., 93g:93027** *and* **De Moor, Bart L. R.; et al., (93h:93009)**

Godfrey, K. R. *see* **Chappell, M. J., (93h:93009)**

Goodwin, Graham C. *see* **De Moor, Bart L. R.; et al., (93h:93009)**

Gorin, E. A. (*with* Krasnosel'skiĭ, M. A.; Kuznetsov, N. A.) Theorems on equiconvergence for nonparametric identification algorithms. (Russian) **93k:93031**

Grīnbergs, A. (*with* Lototskiĭ, V. A.; Shklyar, B. Sh.) Identification of systems with distributed parameters. (Russian. Russian summary) **93i:93033**

Gu, Guoxiang *see* **Akçay, Hüseyin; et al., 93j:93035**

Gu, Qi Tai (*with* Zhou, Li Qiang) Decoupled state and bias estimation and its application to inertial surveys. (Chinese. English and Chinese summaries)

Gu, Xing Sheng *see* **Hu, Yang Zeng; et al., 93c:93020**

Guidorzi, R. P. (*with* Stoian, A.) Identification of data-compatible models for control applications. (English summary) (*see* **93f:93005**)

— Errors-in-variables identification in presence of nonindependent noise. (English summary) (*see* **93g:93005**)

Gutman, P.-O. On-line identification of transfer function value sets. (English summary) (*see* **93h:93009**)

Guyon, F. (*with* Yvon, J. P.; Henry, Jacques) On a weighting method improving identifiability of distributed parameter systems. **93g:93028**

Haber, Robert (*with* Zierfuss, R.) Identification of nonlinear models between the reflux flow and the top temperature of a distillation column. (English summary) (*see* **93h:93009**)

— Transformation of the absolute descriptions of linear and nonlinear processes to their incremental forms. **93e:93017**

Hägglund, T. (*with* Åström, Karl Johan) Identification of systems using periodic excitation. (English summary) (*see* **93h:93009**)

Hashimoto, Hideki *see* **Xu, Jian Xin**

Helmicki, A. J. (*with* Jacobson, C. A.; Nett, C. N.) Worst-case/deterministic identification in H_∞: the continuous-time case. **93c:93019**

Henry, Jacques *see* **Guyon, F.; et al., 93g:93028**

van den Hof, Paul M. J. (*with* de Vries, Douwe K.; Schoen, Peter) On relaxed delay structure conditions in closed loop identifiability problems. (English summary) (*see* **93h:93009**)

— (*with* de Vries, Douwe K.; Schoen, Peter) Delay structure conditions for identifiability of closed loop systems. (English summary) **93f:93041**

House, John M. (*with* Arora, Jasbir S.; Smith, Theodore F.) Comparison of methods for design sensitivity analysis for optimal control of thermal systems. (English summary)

Hu, Yang Zeng (*with* Gu, Xing Sheng; Ge, Zu Guang; Lu, Jun^2) A piecewise multiple general orthogonal polynomial method for identifying parameters of a class of systems. (Chinese. English summary) **93c:93020**

Hu, Ze Xin (*with* Jiang, Wei Sun) Dynamic modelling on the basis of pattern recognition. (Chinese. Chinese summary)

Huang, Xin Sheng A higher-order approximate integration method for identification of continuous models. (Chinese. English and Chinese summaries)

Hulkó, G. (*with* Sapák, L.; Navračič, I.; Janíková, D.; Kovalcik, J.) Methods of identification of lumped input and distributed output systems. (English summary) (*see* **93h:93009**)

Jacobson, C. A. (*with* Nett, C. N.; Partington, Jonathan R.) Worst case system identification in l_1: optimal algorithms and error bounds. (English summary) **93j:93037**

— *see also* **Helmicki, A. J.; et al., 93c:93019**

Jalali, Assad (*with* Jordan, J. R.) Identification of all pole systems with Hermite modulating functions. (*see* **93h:93007**)

Janíková, D. *see* **Hulkó, G.; et al., (93h:93009)**

Jepson, O. N. (*with* Rake, H.) The adjusted least squares method for identification of dynamical systems. (English summary) (*see* **93h:93009**)

Jiang, Wei Sun *see* **Hu, Ze Xin**

Jones, Anthony H. *see* **Wang, Hong**

Jones, Richard W. *see* **Gawthrop, P. J.; et al., (93h:93009)**

Jordan, J. R. *see* **Jalali, Assad, (93h:93007)**

Kadlec, J. A recursive modified Gram-Schmidt identification with directional tracking of parameters. (English summary) (*see* **93h:93009**)

Kalaba, Robert (*with* Udwadia, Firdaus E.) Associative memory approach to the identification of structural and mechanical systems. (English summary) **93i:93034**

Kangas, A. (*with* Karlsson, E.) Adaptive root estimation algorithms. (English summary) (*see* **93h:93009**)

Karlsson, E. *see* **Kangas, A., (93h:93009)**

Kasprzyk, J. *see* **Figwer, J.; et al., (93h:93009)**

Keresztes, A. *see* **Michelberger, P.; et al., (93h:93009)**

Khargonekar, Pramod P. *see* **Akçay, Hüseyin; et al., 93j:93035**

Khusainov, D. Ya. *see* **Stadnik, O. I.**

Kimura, Hidenori *see* **Zhou, Tong, 93k:93035**

Kirillova, F. M. *see* **Gabasov, R. F.; et al., 93h:93020**

Kirin, N. E. (*with* Saukhanova, Zh.) Two-sided estimates in the problem of predicting the components of discrete systems. (Russian) (*see* **93m:00028**)

Kir'yakov, V. A. Program realization of a finitely converging algorithm for the identification of parameters. (Russian. Russian summary)

Klompstra, Martin H. *see* **van den Boom, T.; et al., (93h:93009)**

Knowles, James K. On a minimization problem associated with linear dynamical systems. **93a:93036**

Kojima, Fumio Shape identification of material flaws in thermal tomography. (English summary) (*see* **93f:93007**)

Kosut, Robert L. (*with* Lau, Ming K.; Boyd, Stephen P.) Set-membership identification of systems with parametric and nonparametric uncertainty. **93f:93042**

Kovalcik, J. *see* **Hulkó, G.; et al., (93h:93009)**

Kovalev, A. M. (*with* Shcherbak, V. F.) Conditions for the unique solvability of inverse problems for controlled dynamical systems. (Russian. Russian and Ukrainian summaries) **93i:93035**

Krasnosel'skiĭ, M. A. *see* **Gorin, E. A.; et al., 93k:93031**

Krzyżak, Adam Identification of nonlinear block-oriented systems by the recursive kernel estimate. (English summary) **93m:93029**

Kultyshev, S. Yu. Identification of functional systems. (Russian. Russian summary) (*see* **93m:00017**)

Kumamaru, K. *see* **Zhao, Zhen-Yu; et al., (93h:93009)**

Kunisch, K. (*with* White, Luther W.) Stability and identifiability of parameters in Galerkin approximation of distributed systems under multiple inputs. (English summary) **93i:93036**

Kuntsevich, V. M. Reconstruction of the state vector of linear discrete systems from measurements of scalar output. (Russian. Russian summary)

Kuznetsov, N. A. *see* **Gorin, E. A.; et al., 93k:93031**

Lastman, G. J. (*with* Sinha, Naresh K.) Identification of linear multivariable time-invariant systems from samples of input-output data. (English summary) (*see* **93h:93009**)

Lau, Ming K. *see* **Kosut, Robert L.; et al., 93f:93042**

Leblond, Juliette *see* **Alpay, Daniel; et al., (93i:93005)**

Lee, E. Bruce *see* **Cai, Man-ping, (93g:93007)**

Lee, Jia Ling *see* **Wang, Wèn Chūn, 93i:93037**

Lee, Richard A quasilinearization method for robust parameter estimation. (*see* **93b:00022**)

Leonhardt, S. A parallel algorithm for process identification. (English summary) (*see* **93h:93009**)

Leonov, V. A. *see* **Poplavskii, B. K.**

Li, Bo *see* **Wang, Xiu Feng, 93i:93038**

Li, Tian Min The structure identification problem for complex system models. (Chinese. English and Chinese summaries)

Ljung, Lennart System identification in a noise free environment. (English summary) (*see* **93j:93007**)

— Model accuracy in system identification. (English summary) (*see* **93i:93007**)

— *see also* **Forsman, K., (93h:93009)**

Löhnberg, Peter (*with* Franke, B.) Model quality and optimal identification for control. (English summary) (*see* **93h:93009**)

Lototskiĭ, V. A. *see* **Grīnbergs, A.; et al., 93i:93033**

Lu, Jun^2 *see* **Hu, Yang Zeng; et al., 93c:93020**

Luchuk, A. M. Identification of signals of different forms. (Russian. Russian summary)

MacKenzie, S. A. *see* **Gawthrop, P. J.; et al., (93h:93009)**

Mäkilä, Pertti M. (*with* Partington, Jonathan R.) Robust identification of strongly stabilizable systems. (English summary) **93k:93032**

Markov, Svetoslav M. (*with* Popova, E. D.) Estimation and identification using interval arithmetic. (English summary) (*see* **93h:93009**)

Martín Gómez, José D. *see* **Begines Begines, F., (93j:00009)**

Mazurov, M. E. On the identification of nonlinear systems by the "fixed voltage" method (from a series of responses to input actions). (Russian) **93h:93021**

Meier zu Farwig, H. (*with* Unbehauen, H.) Knowledge-based system identification. (English summary) (*see* **93h:93009**)

Melvin, W. W. *see* **Miele, A.; et al.**

Men'shikov, Yu. L. (*with* Polyakov, N. V.) The models of external actions for mathematical simulation. (English summary) (*see* **93e:00021**)

Michelberger, P. (*with* Bokor, J.; Keresztes, A.; Várlaki, Peter M.) Statistical identification of nonlinear vehicle vibrating structures. (English summary) (*see* **93h:93009**)

Miele, A. (*with* Wang, Tong; Melvin, W. W.) Wind identification along a flight trajectory. I. 3D-kinematic approach. (English summary)

— (*with* Wang, Tong; Melvin, W. W.) Wind identification along a flight trajectory. II. 2D-kinematic approach. (English summary)

— (*with* Wang, Tong; Tzeng, C. Y.; Melvin, W. W.) Wind identification along a flight trajectory. III. 2D-dynamic approach. (English summary)

Milanese, M. (*with* Vicino, Antonio) Estimation theory for dynamic systems with unknown but bounded uncertainty: an overview. (English summary) (*see* **93h:93009**)

— (*with* Vicino, Antonio) Optimal approximation of feasible parameter set in estimation with unknown but bounded noise. (English summary) (*see* **93h:93009**)

Minciardi, Riccardo *see* **Casalino, G., 93a:93035**

Mitchell, R. J. Identification of the pure time delay of a process. (English summary) (*see* **93h:93007**)

Moustafa, Kamal A. F. Time-domain structural identification using free response measurements. **93e:93018**
Mukhopadhyay, Siddhartha *see* **Durgaprasad, G.; et al.,** (**93h:93009**)
Murray, Walter *see* **Bobrow, James E.**
Natke, H. G. (*with* Zamirowski, M.) ARMAX modelling in structural dynamics—approximations of the differential equations of motion. (English and German summaries) **93k:93033**
Navračič, I. *see* **Hulkó, G.; et al.,** (**93h:93009**)
Negoita, Gh. M. (*with* Canciu, V. V.) Fuzzy identification of systems: a new cybernetic method.
Nekhoroshii, Yu. I. (*with* Rutkovskii, V. Yu.; Sukhanov, V. M.) Parameter identification of a modal-physical model of a deformable spaceship. (Russian. Russian summary)
Nett, C. N. *see* **Helmicki, A. J.; et al., 93c:93019** *and* **Jacobson, C. A.; et al., 93j:93037**
Niederliński, A. *see* **Figwer, J.; et al.,** (**93h:93009**)
Niedźwiecki, M. Identification of time-varying systems with abrupt parameter changes. (English summary) (*see* **93h:93009**)
Nihtilä, M. T. *see* **Björklund, M.; et al.,** (**93h:93009**)
Niu, Shao Hua (*with* Fisher, D. Grant; Xiao, De Yun) An augmented UD identification algorithm.
Norton, J. P. (*with* Veres, S. M.) Identification of nonlinear state-space models by deterministic search. (English summary) (*see* **93h:93009**)
Ono, Toshiro (*with* Sun, Jianxin) Linear system identification independent of measuring device dynamics. (English summary) (*see* **93f:93007**)
Partington, Jonathan R. Robust identification in H_∞. (English summary) (*see* **93g:93005**)
— Robust identification in H_∞. **93e:93019**
— Worst-case identification in Banach spaces. **93e:93020**
— *see also* **Jacobson, C. A.; et al., 93j:93037** *and* **Mäkilä, Pertti M., 93k:93032**
Pashchenko, F. F. (*with* Chernyshev, K. R.) Application of the method of functional transformations in the identification of nonlinear systems. (Russian. Russian summary) **93e:93021**
Patra, Amit *see* **Durgaprasad, G.; et al.,** (**93h:93009**)
Piet-Lahanier, H. *see* **Walter, Eric,** (**93h:93009**)
Pollard, James F. *see* **Rivera, Daniel E.; et al.**
Polyakov, N. V. *see* **Men'shikov, Yu. L.,** (**93e:00021**)
Poplavskii, B. K. (*with* Leonov, V. A.) A method of linear transformations for identification of dynamical systems. (Russian. Russian summary)
Popov, O. S. *see* **Balonin, N. A.**
Popova, E. D. *see* **Markov, Svetoslav M.,** (**93h:93009**)
Poznyak, A. S. A new form of the strong law of large numbers for dependent sequences and its application in the analysis of identification algorithms. (Russian)
Prasada Rao, Ganti *see* **Durgaprasad, G.; et al.,** (**93h:93009**)
Prishchepova, S. V. *see* **Gabasov, R. F.; et al., 93h:93020**
Qu, Zhihua Robust control of a class of nonlinear uncertain systems. (English summary) **93f:93043**
Rake, H. *see* **Jepson, O. N.,** (**93h:93009**)
Richalet, J. (*with* Abu el Ata-Doss, S.; Coïc, A.) Global identification and optimal input design. (English summary) (*see* **93h:93009**)
Riordan, D. *see* **Xu, Hong Yue; et al., 93g:93029**
Rivera, Daniel E. (*with* Pollard, James F.; García, Carlos E.) Control-relevant prefiltering: a systematic design approach and case study.
Roberts, S. *see* **Wilkinson, A. J.; et al.,** (**93h:93007**)
Rohrs, Charles E. *see* **Younce, Richard C., 93a:93038**
Ruban, A. I. *see* **El'tsov, A. A.**
Rusanov, V. A. Properties of maximal identifiable subsets in a space of dynamical systems. (Russian. Russian summary) **93f:93044**
Rutkovskii, V. Yu. (*with* Sukhanov, V. M.) Identification of the excitation coefficients of large space constructions when there are limitations in the measurements. (Russian. Russian summary)
— *see also* **Nekhoroshii, Yu. I.; et al.**
Safonov, Michael G. *see* **Wang, Wei Zhen**
Sagara, Setsuo (*with* Yang, Zi-Jiang; Wada, Kiyoshi) Identification of continuous systems from noisy sampled input-output data. (English summary) (*see* **93h:93009**)
— (*with* Yang, Zi-Jiang; Wada, Kiyoshi) Identification of continuous-time systems. (Japanese)
— *see also* **Zhao, Zhen-Yu; et al.,** (**93h:93009**)
Sapák, L. *see* **Hulkó, G.; et al.,** (**93h:93009**)
Saukhanova, Zh. *see* **Kirin, N. E., (93m:00028)**
Savenkov, A. I. (*with* Yakovlev, V. P.) Decomposition of the modal method for the identification of complex mechanical systems. (Russian. Russian summary)
Schoen, Peter *see* **van den Hof, Paul M. J.; et al., 93f:93041** *and* (**93h:93009**)
Schrama, Ruud J. P. An open-loop solution to the approximate closed-loop identification problem. (English summary) (*see* **93h:93009**)
— A framework for control-oriented approximate identification. (English summary) (*see* **93g:93005**)
— Accurate identification for control: the necessity of an iterative scheme.
Shcherbak, V. F. *see* **Kovalev, A. M., 93i:93035**
Shibata, H. (*with* Fujinaka, T.; Fukudome, Y.; Furumoto, N.) Some aspects on the accuracy of system identification. (English summary) (*see* **93h:93009**)
Shklyar, B. Sh. *see* **Grinbergs, A.; et al., 93i:93033**
Shpunt, M. I. On system parameters of informativeness for constructing rational compositions of input parameters in the identification of multidimensional control objects. (Russian. Russian summary)
Sinha, Naresh K. *see* **Lastman, G. J.,** (**93h:93009**)
Slabospits'kii, A. S. Strong consistency of least square estimates. (Russian. Russian summary)
Smith, Theodore F. *see* **House, John M.; et al.**
Söderström, T. *see* **Björklund, M.; et al.,** (**93h:93009**)
Soverini, U. *see* **Beghelli, S., 93d:93026**
Spathopoulos, M. P. Recursive algorithms for the estimation of frequencies of sinusoids. (English summary) (*see* **93h:93007**)
Stadnik, O. I. (*with* Khusainov, D. Ya.) An algorithm for identifying the parameters of systems of differential equations. (Russian. Russian summary)
Stepashko, V. S. Investigation of predicting properties of a recurrent structural-parametric identifier. (Russian. English summary)
Stoian, A. *see* **Guidorzi, R. P., (93f:93005)**
Sukhanov, V. M. *see* **Nekhoroshii, Yu. I.; et al.** *and* **Rutkovskii, V. Yu.**
Sun, Jianxin *see* **Ono, Toshiro,** (**93f:93007**)
Suykens, J. *see* **Van Overschee, P.; et al., (93g:93005)**
Tay, T. T. *see* **Belforte, G.,** (**93h:93009**)
Taylor, G. E. *see* **Wilkinson, A. J.; et al.,** (**93h:93007**)
Taylor, P. M. *see* **Wilkinson, A. J.; et al.,** (**93h:93007**)
Tsang, K. M. (*with* Billings, S. A.) Identification of multi-class linear and nonlinear systems. (English summary)
Tse, D. N. C. (*with* Dahleh, Munther A.; Tsitsiklis, John N.) Optimal asymptotic worst-case identification with applications on l_1 and gap metrics. (English summary) (*see* **93g:93005**)
Tsitsiklis, John N. *see* **Tse, D. N. C.; et al., (93g:93005)**
Tsypkin, Ya. Z. (*with* Bondarenko, M. V.) An optimal algorithm for identification of rapidly time-varying systems. **93a:93037**
Tzeng, C. Y. *see* **Miele, A.; et al.**
Udwadia, Firdaus E. *see* **Kalaba, Robert, 93i:93034**
Unbehauen, H. *see* **Meier zu Farwig, H.,** (**93h:93009**)
Uosaki, K. (*with* Yotsuya, M.) Adaptive identification for abruptly changing systems. (English summary) (*see* **93h:93009**)
Van Overschee, P. (*with* De Moor, Bart L. R.; Suykens, J.) Subspace algorithms for system identification and stochastic realization. (English summary) (*see* **93g:93005**)
Várlaki, Peter M. *see* **Michelberger, P.; et al.,** (**93h:93009**)
Veres, S. M. *see* **Norton, J. P.,** (**93h:93009**)
Verhaegen, Michel (*with* Deprettere, Ed F.) Subspace model identification. **93e:93022**
— A novel noniterative MIMO state space model identification technique. (English summary) (*see* **93h:93009**)
Vicino, Antonio *see* **Milanese, M.,** (**93h:93009**) *and* (**93h:93009**)
de Vries, Douwe K. *see* **van den Hof, Paul M. J.; et al., 93f:93041** *and* (**93h:93009**)
Wada, Kiyoshi *see* **Sagara, Setsuo; et al.** *and* (**93h:93009**)
Walter, Eric (*with* Piet-Lahanier, H.) Recursive robust minimax estimation for models linear in their parameters. (English summary) (*see* **93h:93009**)
Wang, Hong (*with* Jones, Anthony H.) A rule based identification algorithm for SISO unknown systems. (English and Polish summaries)
Wang, Tong *see* **Miele, A.; et al.**
Wang, Wei Zhen (*with* Safonov, Michael G.) Relative-error H_∞ identification from autocorrelation data—a stochastic realization method.
Wang, Wēn Chūn (*with* Lee, Jia Ling) A simple condition for decentralized adaptive identification of partially known interconnected systems. (English summary) **93i:93037**
Wang, Xiu Feng (*with* Li, Bo) Identification of time-varying bilinear systems via shifted Legendre polynomials. (Chinese. English and Chinese summaries) **93i:93038**
Wang, Ying Ming A fast algorithm for the minimum weighted sum of absolute errors and regressive identification. (Chinese. Chinese summary)
White, Luther W. *see* **Kunisch, K., 93i:93036**
Wilkinson, A. J. (*with* Roberts, S.; Taylor, P. M.; Taylor, G. E.) The application of recursive identification based on delta operators. (English summary) (*see* **93h:93007**)
Wysocki, Hubert (*with* Zellma, Marek) Identification of a generalized dynamic system using the modulating element method. (English, Russian and Polish summaries) **93k:93034**
Xiao, De Yun *see* **Niu, Shao Hua; et al.**
Xie, Xin Min *see* **Ding, Feng**
Xu, Hong Yue (*with* Baird, C. Robert; Riordan, D.) An integrated identification methodology for control and identification. (English summary) **93g:93029**
Xu, Jian Xin (*with* Hashimoto, Hideki) Parameter identification methodologies based on variable structure control. (English summary)
Yakovlev, V. P. *see* **Savenkov, A. I.**
Yang, Wei Gao (*with* Zeng, Guang Da) An identification method for mathematical models of continuous-time nonlinear systems. (Chinese. English and Chinese summaries)
Yang, Zi-Jiang *see* **Sagara, Setsuo; et al.** *and* (**93h:93009**)
Yin, Gang George (*with* Fitzpatrick, Ben G.) Sample distributions of identification algorithms for distributed parameter systems. (English summary) (*see* **93g:93005**)
Yotsuya, M. *see* **Uosaki, K.,** (**93h:93009**)
Younce, Richard C. (*with* Rohrs, Charles E.) Identification with nonparametric uncertainty. **93a:93038**
Yvon, J. P. *see* **Guyon, F.; et al., 93g:93028**
Zamirowski, M. *see* **Natke, H. G., 93k:93033**
Zarrop, M. B. *see* **Božin, A. S., (93j:93007)**
Zellma, Marek *see* **Wysocki, Hubert, 93k:93034**
Zeng, Guang Da *see* **Yang, Wei Gao**
Zhang, H. G. (*with* Chen, Jie[1]; Zhang, Hong Yue) A recursive identification algorithm for estimating abrupt parameter changes. (*see* **93h:93007**)
Zhang, Hong Yue *see* **Zhang, H. G.; et al.,** (**93h:93007**)
Zhang, Hua Guang (*with* Chen, Lai Jiu) A fuzzy identification approach and its application to generating unit load systems. (Chinese. English and Chinese summaries)
Zhang, Zhi Yong Identification of parsimonious model structures. (English and Chinese summaries) **93j:93038**
Zhao, Zhen-Yu (*with* Sagara, Setsuo; Kumamaru, K.) On-line identification of time delay and system parameters of continuous systems based on discrete-time measurements. (English summary) (*see* **93h:93009**)
Zhou, Li Qiang *see* **Gu, Qi Tai**
Zhou, Tong (*with* Kimura, Hidenori) Time domain identification for robust control. (English summary) **93k:93035**
Zhu, Yu Cai (*with* Backx, A. C. P. M.) MIMO process identification for controller design: test signals, nominal model and error bounds. (English summary) (*see* **93h:93009**)
Zierfuss, R. *see* **Haber, Robert,** (**93h:93009**)

Items with secondary classifications in 93B30

Aarna, O. *see* **Fathi, Zohreh; et al.**

Bagchi, Arunabha (*with* ten Brummelhuis, P.) Parameter identification in hyperbolic systems with boundary noise. (English summary) (*see* **93h:93009**)

Bakan, G. M. (*with* Kussul', N. N.) Nonstochastic identification of parameters of a linear static object under unknown noise intensity. (Russian. Russian summary) **93k:93113**

Banks, H. T. Computational issues in parameter estimation and feedback control problems for partial differential equation systems. (English summary) **93j:93073**

(Bányász, Cs.) *see* **Identification and system parameter estimation, 93h:93009**

Basin, M. V. (*with* Orlov, Yu. V.) Optimal estimation of the state of dynamical processes based on discrete-continuous observations. (Russian)

Bastin, G. *see* **Dasgupta, Soura; et al., (93h:93009)**

Belforte, G. Parameter identification for models with bounded errors in all variables. (English summary) **93h:93082**

Bessonov, A. A. (*with* Zagashvili, Yu. V.; Markelov, A. S.) ★ Методы и средства идентификации динамических объектов. (Russian. Russian summary) [Methods and means for the identification of dynamic objects] **93m:93002**

ten Brummelhuis, P. *see* **Bagchi, Arunabha, (93h:93009)**

Burger, Jacques (*with* Le Brizaut, Jean-Sébastien; Pogu, Marc) Comparison of two methods for the calculation of the gradient and of the Hessian of cost functions associated with differential systems. (English summary) **93i:49036**

Campion, Guy *see* **Dasgupta, Soura; et al., (93h:93009)**

Casalino, G. (*with* Ferrara, A.; Minciardi, Riccardo) On stability analysis of equilibrium points of variational adaptive control schemes. (English summary) (*see* **93j:93007**)

Chen, Han Fu (*with* Zhang, Ji Feng) Adaptive regulation for deterministic systems. **93a:93066**

Chen, L. *see* **Dasgupta, Soura; et al., (93h:93009)**

Chisci, L. *see* **Mosca, Edoardo; et al., 93i:93071**

Dasgupta, Soura (*with* Gevers, Michel; Bastin, G.; Campion, Guy; Chen, L.) Identifiability of scalar linearly parametrized polynomial systems. (English summary) (*see* **93h:93009**)

De Moor, Bart L. R. *see* **Moonen, Marc; et al.**

Dewilde, Patrick M. *see* **Verhaegen, Michel, 93m:93095** *and* **93m:93096**

Ding, Feng *see* **Xie, Xin Min, 93k:93116**

Doyle, John C. *see* **Smith, Roy S., 93g:93032**

Fathi, Zohreh (*with* Ramirez, W. Fred; Aarna, O.) Joint state and parameter estimation for a nuclear reactor with fast and slow modes. (English summary)

Ferrara, A. *see* **Casalino, G.; et al., (93j:93007)**

Fillatre, O. Identification of weakly nonlinear dynamic systems by means of random excitations. (French. English and French summaries) **93h:73027**

Fu, Minyue Robust positive realness of functions with dependent parameter uncertainty in numerator and denominator. **93b:93073**

Gabasov, R. F. (*with* Kirillova, F. M.) Optimization of dynamical systems with identification of input perturbations. (Russian summary) **93c:49021**

— (*with* Kirillova, F. M.; Kostyukova, O. I.) Construction of optimal estimators for linear dynamical systems. (Russian. Russian summary) **93k:93020**

Gasanov, Z. M. (*with* Semenets', G. Ì.) Identification of some oscillatory systems by means of function series. (Russian. Russian summary) (*see* **93g:00024**)

Gawthrop, P. J. (*with* Nihtilä, M. T.) Identification of distributed parameter systems using polynomial identification techniques. (English summary) (*see* **93h:93009**)

Gevers, Michel *see* **Dasgupta, Soura; et al., (93h:93009)**

Giannakis, Georgios B. (*with* Swami, Ananthram) Identifiability of general ARMA processes using linear cumulant-based estimators. **93a:93102**

Giarré, L. *see* **Mosca, Edoardo; et al., 93i:93071**

Hinestroza G., Doris (*with* Murio, Diego A.) Identification of transmissivity coefficients by mollification techniques. I. One-dimensional elliptic and parabolic problems. (English summary) **93m:65174**

(Keviczky, L.) *see* **Identification and system parameter estimation, 93h:93009**

Khargonekar, Pramod P. *see* **Krause, James M., 93d:93080**

Kimura, Morishige Conversion of discrete-time time-invariant linear systems into continuous systems. (English summary) **93k:93027**

Kirillova, F. M. *see* **Gabasov, R. F., 93c:49021** *and* **93k:93020**

Kiselev, O. N. (*with* Polyak, B. T.) Ellipsoidal estimation based on a generalized criterion. (Russian) **93b:93010**

Knobloch, Hans-W. Control under uncertain dynamics. **93i:93079**

Kornoushenko, E. K. Reconstruction of a scalar signal at the input of a discrete linear system for an admissible specification of its parameters. (Russian. Russian summary)

Kostyukova, O. I. *see* **Gabasov, R. F.; et al., 93k:93020**

Krause, James M. (*with* Khargonekar, Pramod P.) A comparison of classical stochastic estimation and deterministic robust estimation. **93d:93080**

Kul'chitskiĭ, O. Yu. (*with* Mozgovoĭ, A. È.) An estimate for the rate of convergence of recurrent robust identification algorithms. (Russian. Russian summary)

Kulisiewicz, M. (*with* Piesiak, St.) A modelling procedure of the simple mechanical dynamic systems with using a nonlinear model. (English summary) (*see* **93e:00021**)

Kurzhanskiĭ, A. B. (*with* Vályi, I.) Guaranteed state estimation for dynamic systems: beyond the overviews. (English summary) (*see* **93h:93009**)

Kussul', N. N. *see* **Bakan, G. M., 93k:93113**

Lamm, Patricia K. Parameter estimation for distributed equations in parameter-dependent state spaces: applications to shape identification. **93f:49040**

Le Brizaut, Jean-Sébastien *see* **Burger, Jacques; et al., 93i:49036**

Ljung, Lennart ★ Идентификация систем. Теория для пользователя. (Russian) [System identification. Theory for the user] **93e:93002**

— An introduction to system identification concepts. (*see* **93d:92001**)

(Mandel', A. S.) *see* **Ljung, Lennart, 93e:93002**

Markelov, A. S. *see* **Bessonov, A. A.; et al., 93m:93002**

Minciardi, Riccardo *see* **Casalino, G.; et al., (93j:93007)**

Mohammed, Thaier N. SHSER: an algorithm for recursive filters. (English summary) (*see* **93e:00021**)

Moonen, Marc (*with* De Moor, Bart L. R.; Ramos, José; Tan, Shao Hua) A subspace identification algorithm for descriptor systems.

Mosca, Edoardo (*with* Chisci, L.; Giarré, L.) Sidestepping the certainty equivalence in 2-DOF adaptive control via multiple implicit identifiers. (English summary) **93i:93071**

Mos'pan, V. S. ★ Количественное описание фильтрации флуктуаций. (Russian. Russian summary) [Quantitative description of filtering of fluctuations] **93j:90003**

Mozgovoĭ, A. È. *see* **Kul'chitskiĭ, O. Yu.**

Murio, Diego A. *see* **Hinestroza G., Doris, 93m:65174**

(Nazin, A. V.) *see* **Ljung, Lennart, 93e:93002**

Nihtilä, M. T. *see* **Gawthrop, P. J., (93h:93009)**

Orlov, Yu. V. *see* **Basin, M. V.**

Ortiz Marttelo, A. *see* **Verde, C., (93h:93007)**

Owens, David H. *see* **Wang, Sheng Guo**

Partington, Jonathan R. Robust identification and interpolation in H_∞. **93a:93043**

Piesiak, St. *see* **Kulisiewicz, M., (93e:00021)**

Pintelon, R. *see* **Schoukens, J., 93i:93004**

Pogu, Marc *see* **Burger, Jacques; et al., 93i:49036**

Polyak, B. T. *see* **Kiselev, O. N., 93b:93010**

Qin, Kai Huai The theory of discrete Jacobi polynomial series forecasting control and an algorithm for it. (Chinese. English and Chinese summaries) **93j:93053**

Radchenko, I. F. Discrete dynamic state models for perturbations of wave type. (Russian. Russian summary)

Ramirez, W. Fred *see* **Fathi, Zohreh; et al.**

Ramos, José *see* **Moonen, Marc; et al.**

Sagara, Setsuo (*with* Yang, Zi-Jiang; Wada, Kiyoshi) Digital low-pass filtering approach to parameter identification of continuous systems. (English summary) **93h:93084**

Scherzer, Otmar ★ Tikhonov regularization of nonlinear ill-posed problems with applications to parameter identification in partial differential equations. **93a:65082**

Schoukens, J. (*with* Pintelon, R.) ★ Identification of linear systems. **93i:93004**

Semenets', G. Ì. *see* **Gasanov, Z. M., (93g:00024)**

Seuc, Yuh Tay *see* **Su, Yaw Terng, 93k:93060**

Shi, Guo Jun (*with* Zou, Yun; Yang, Cheng Wu) An algebraic approach to robust H_∞ control via state feedback. (English summary) **93i:93047**

Smith, Roy S. (*with* Doyle, John C.) Model validation: a connection between robust control and identification. **93g:93032**

Stănciulescu, Florin Knowledge-based simulation and control of large scale systems. Methodology and results. (English summary) (*see* **93h:93006**)

Su, Yaw Terng (*with* Sheen, Yuh Tay) Neural network for system identification. (English summary) **93k:93060**

Swami, Ananthram *see* **Giannakis, Georgios B., 93a:93102**

Tan, Shao Hua *see* **Moonen, Marc; et al.**

Taylor, L. W., Jr. Parameter estimation for distributed parameter models of complex, flexible structures. (English summary) (*see* **93h:93009**)

Trigub, M. V. A general approach to the solution of a problem of the suboptimal parametric design of nonlinear systems. (Russian. English and Russian summaries) **93g:49027**

(Tsypkin, Ya. Z.) *see* **Ljung, Lennart, 93e:93002**

Vályi, I. *see* **Kurzhanskiĭ, A. B., (93h:93009)**

Van Huffel, Sabine The restricted total least squares problem and its use in system identification. **93b:93114**

Verde, C. (*with* Ortiz Marttelo, A.) Sensitivity minimization with closed-loop eigenvalues assignment. (English summary) (*see* **93h:93007**)

Verhaegen, Michel (*with* Dewilde, Patrick M.) Subspace model identification. I. The output-error state-space model identification class of algorithms. (English summary) **93m:93095**

— (*with* Dewilde, Patrick M.) Subspace model identification. II. Analysis of the elementary output-error state-space model identification algorithm. (English summary) **93m:93096**

Wada, Kiyoshi *see* **Sagara, Setsuo; et al., 93h:93084**

Wang, Sheng Guo (*with* Owens, David H.) Control parameterization and robustness of feedback systems: an asymptotic analysis. (English summary)

Wang, Xing Yu *see* **Wu, Jian Min**

Wu, Jian Min (*with* Wang, Xing Yu) A method using block pulse operators for solving the combined problem of identifying parameters and optimal control of time-delayed systems. (Chinese. English and Chinese summaries)

Xie, Xin Min (*with* Ding, Feng) A canonical identification model for linear multivariable systems and a structural identification algorithm. (Chinese. English and Chinese summaries) **93k:93116**

Yang, Cheng Wu *see* **Shi, Guo Jun; et al., 93i:93047**

Yang, Zi-Jiang *see* **Sagara, Setsuo; et al., 93h:93084**

Zagashvili, Yu. V. *see* **Bessonov, A. A.; et al., 93m:93002**

Zhang, Ji Feng *see* **Chen, Han Fu, 93a:93066**

Zimmer, Gerta A new algorithm for approximating the state of nonlinear systems. (English summary) **93j:93072**

Zolésio, Jean-Paul Identification of coefficients with bounded variation in the wave equation. (*see* **93c:93006**)

Zou, Yun *see* **Shi, Guo Jun; et al., 93i:93047**

Items listed otherwise than by author

Budapest ★ Identification and system parameter estimation 1991. Vol. 1, 2. **93h:93009**

Identification and system parameter estimation ★ Identification and system parameter estimation 1991. Vol. 1, 2. **93h:93009**

Symposium:

Identification and System Parameter Estimation ★ Identification and system parameter estimation 1991. Vol. 1, 2. **93h:93009**

93B35 Sensitivity (robustness)

Agrawal, Om Prakash A general orthogonal polynomial approach to the sensitivity analysis of linear systems. (English summary)

Brémaud, Pierre Maximal coupling and rare perturbation sensitivity analysis. (English summary) **93j:93039**

Chen, Xin Hai *see* **Zhou, De Yun; et al.**

Curtain, Ruth F. Robust controllers for infinite-dimensional systems. (English summary) **93m:93030**
Dahleh, Mohammed A. *see* **Khammash, Mustafa H.**
Dahleh, Munther A. (*with* Ohta, Yoshito) L^1 sensitivity minimization for plants with commensurate delays. **93d:93027**
— (*with* Khammash, Mustafa H.) Controller design for plants with structured uncertainty. (English summary) **93j:93040**
Diduch, C. P. *see* **Marquez, H. J.**
Eslami, Mansour Robust quadratic optimization of systems with large parameter variations. (English summary) **93i:93039**
Gahinet, P. (*with* Laub, Alan J.) Algebraic Riccati equations and the distance to the nearest uncontrollable pair. **93d:93028**
Hamill-Keays, William J. P. A fault-tolerant system for safety-critical control laws. (English and Polish summaries)
Hashimoto, Yoshihiro *see* **Yoneya, Akihiko; et al.**
Helmke, Uwe A several complex variables approach to sensitivity analysis and structured singular values. **93a:93039**
Khammash, Mustafa H. (*with* Dahleh, Mohammed A.) Time-varying control and the robust performance of systems with structured norm-bounded perturbations.
— *see also* **Dahleh, Munther A., 93j:93040**
Kumar, Panganamala Ramana *see* **Naik, Sanjeev M.; et al., 93b:93032**
Laub, Alan J. *see* **Gahinet, P., 93d:93028**
Marquez, H. J. (*with* Diduch, C. P.) Sensitivity of failure detection using generalized observers.
Naik, Sanjeev M. (*with* Kumar, Panganamala Ramana; Ydstie, B. Erik) Robust continuous-time adaptive control by parameter projection. **93b:93032**
Ohta, Yoshito *see* **Dahleh, Munther A., 93d:93027**
Sobel, Kenneth M. (*with* Yu, Wangling) Robust control techniques for systems with structured state space uncertainty. (*see* **93d:93008**)
Sokolov, V. F. Preservation of a guaranteed result in the control of a discrete object with unknown parameters. (Russian. Russian summary) (*see* **93m:00034**)
Staffans, Olof J. MIMO l^1-optimization with a scalar control. (English summary) **93h:93022**
Togari, Yoshitaka *see* **Yoneya, Akihiko; et al.**
Tong, Ming An *see* **Zhou, De Yun; et al.**
Ydstie, B. Erik *see* **Naik, Sanjeev M.; et al., 93b:93032**
Yoneya, Akihiko (*with* Hashimoto, Yoshihiro; Togari, Yoshitaka) Model following controller with specified sensitivity function. (English summary)
Yu, Wangling *see* **Sobel, Kenneth M., (93d:93008)**
Zhou, De Yun (*with* Chen, Xin Hai; Tong, Ming An) A model-following generalized predictive robust self-adaptive controller. (Chinese. English and Chinese summaries)

Items with secondary classifications in 93B35

Arkun, Yaman *see* **Chiu, Min-Sen**
Braverman, M. É. (*with* Rozonoèr, L. I.) Robustness of linear dynamical systems. I. (Russian) **93f:93098**
— (*with* Rozonoèr, L. I.) Robustness of linear dynamical systems. II. (Russian) **93f:93099**
Burrows, Simon P. (*with* Patton, Ron J.) Design of a low-sensitivity, minimum norm and structurally constrained control law using eigenstructure assignment. (English summary)
Chen, Tongwen A simple derivation of the $\mathscr{H}_2$-optimal sampled-data controllers. (English summary) **93j:93089**
Chen, Ye-Hwa *see* **Han, M. C., 93a:93048** *and* **93c:93011**
Chentsov, A. G. Relaxations of admissible sets, and constructions of extensions. (Russian. English and Ukrainian summaries) **93m:93007**
Chiu, Min-Sen (*with* Arkun, Yaman) A methodology for sequential design of robust decentralized control systems. (English summary)
Corrêa, Gilberto Oliveira *see* **da Silveira, Marcos Azevedo, 93a:93045**
Curtain, Ruth F. (*with* van Keulen, B. A. M.) Robust control with respect to coprime factors of infinite-dimensional positive real systems. **93a:93098**
Dale, Wilbur N. (*with* Smith, Malcolm Clive) A note on eventually time-invariant systems. **93a:93058**
Deprettere, Ed F. *see* **Verhaegen, Michel, 93e:93022**
(Dion, Jean Michel) *see* **Kim, Jong-Hwan**
Djurovic, Željko *see* **Kovačević, Branko; et al., 93f:93128**
(Dugard, Luc) *see* **Kim, Jong-Hwan**
Gaishun, I. V. Topological properties of two-parameter discrete control systems. (Russian. English and Russian summaries) **93j:93015**
(Giri, F.) *see* **Kim, Jong-Hwan**
Glavaški, Sonja *see* **Kovačević, Branko; et al., 93f:93128**
Han, M. C. (*with* Chen, Ye-Hwa) Decentralized robust control of nonlinear systems with bounded time-varying uncertainties. **93c:93011**
— (*with* Chen, Ye-Hwa) Polynomial robust control design for uncertain systems. **93a:93048**
Hill, David J. *see* **Wen, Changyun, 93j:93082**
Hinamoto, Takao (*with* Toshiaki, Takao; Muneyasu, Mitsuji) Synthesis of 2-D separable-denominator digital filters with low sensitivity. (English summary) **93i:93122**
Huang, Chuan Guey *see* **Su, Tê Jên**
Huang, Lin *see* **Wang, Long, 93f:93108**
van Keulen, B. A. M. *see* **Curtain, Ruth F., 93a:93098**
Kim, Jong-Hwan Comments on: "Robust pole placement direct adaptive control" [IEEE Trans. Automat. Control **34** (1989), no. 3, 356–359] by F. Giri, J.-M. Dion, L. Dugard and M. M'Saad. (English summary)
Kimura, Hidenori *see* **Zhou, Tong, 93k:93035**
Knobloch, Hans-W. Control under uncertain dynamics. **93i:93079**
Koda, Masato Sensitivity analysis of stochastic dynamical systems. (English summary) **93i:93113**
Kovačević, Branko (*with* Djurovic, Željko; Glavaški, Sonja) On robust Kalman filtering. (English summary) **93f:93128**
Lebedev, A. L. *see* **Vorokhobko, Yu. A.**
Lee, E. Bruce *see* **Li, Yanlin; et al., 93b:93085**
(Leondes, Cornelius T.) *see* **Robust control system techniques and applications, 93d:93007**
Li, Yanlin (*with* Nagpal, Krishan M.; Lee, E. Bruce) Stability analysis of polynomials with coefficients in disks. **93b:93085**
Lin, J. Y. (*with* Mingori, D. L.) Linear-quadratic-Gaussian synthesis with reduced parameter sensitivity. (English summary) **93j:93054**
Ma, Shao Ping *see* **Sun, Zeng Qi**
Mäkilä, Pertti M. Worst-case input-output identification. (English summary) **93f:93072**
Mingori, D. L. *see* **Lin, J. Y., 93j:93054**
(M'Saad, M.) *see* **Kim, Jong-Hwan**
Muneyasu, Mitsuji *see* **Hinamoto, Takao; et al., 93i:93122**
Nagpal, Krishan M. *see* **Li, Yanlin; et al., 93b:93085**
Obradovic, Dragan (*with* Valavani, Lena) Stability and performance in the presence of magnitude bounded real uncertainty: Riccati equation based state space approaches. **93g:93054**
Patton, Ron J. *see* **Burrows, Simon P.**
Rohrs, Charles E. *see* **Younce, Richard C., 93a:93038**
Rozonoèr, L. I. *see* **Braverman, M. É., 93f:93098** *and* **93f:93099**
Sebastian, Hans-Jürgen Discrete-time control problems with uncertain information. **93f:93078**
Shamma, Jeff S. (*with* Zhao, Rongze) Fading-memory feedback systems and robust stability. (English summary) **93j:93116**
Shi, Guo Jun (*with* Zou, Yun; Yang, Cheng Wu) An algebraic approach to robust H_∞ control via state feedback. (English summary) **93i:93047**
da Silveira, Marcos Azevedo (*with* Corrêa, Gilberto Oliveira) H_2-optimal control of linear systems with tracking/disturbance rejection constraints. **93a:93045**
Smith, Malcolm Clive *see* **Dale, Wilbur N., 93a:93058**
Socha, Lesław Decentralized sensitivity of stochastic composite systems. (English summary) **93k:93106**
Su, Tê Jên (*with* Huang, Chuan Guey) Robust stability of delay dependence for linear uncertain systems. (English summary)
Sun, Zeng Qi (*with* Ma, Shao Ping) Computation of parameter sensitivities of quadratic performance functions in a continuous system. (Chinese. English and Chinese summaries)
Tarczyński, Andrzej Simple discrete-time regulator minimizing sensitivity. (English summary)
Toshiaki, Takao *see* **Hinamoto, Takao; et al., 93i:93122**
Valavani, Lena *see* **Obradovic, Dragan, 93g:93054**
Verhaegen, Michel (*with* Deprettere, Ed F.) Subspace model identification. **93e:93022**
Vorokhobko, Yu. A. (*with* Lebedev, A. L.) Theory of constructing optimal controllers in oscillatory systems under conditions of incomplete information. (Russian)
Wang, Long (*with* Huang, Lin) Robust stability of diamond families of polynomials with complex coefficients. (English summary) **93f:93108**
Wen, Changyun (*with* Hill, David J.) Global boundedness of discrete-time adaptive control just using estimator projection. (English summary) **93j:93082**
Yang, Cheng Wu *see* **Shi, Guo Jun; et al., 93i:93047**
Younce, Richard C. (*with* Rohrs, Charles E.) Identification with nonparametric uncertainty. **93a:93038**
Zhao, Rongze *see* **Shamma, Jeff S., 93j:93116**
Zhou, Tong (*with* Kimura, Hidenori) Time domain identification for robust control. (English summary) **93k:93035**
Zhu, Si Quan Perturbations of closed-loop systems in robust feedback stabilization. (English summary) **93i:93112**
Zou, Yun *see* **Shi, Guo Jun; et al., 93i:93047**

Items listed otherwise than by author

Robust control system techniques and applications ★ Robust control system techniques and applications. Part 1. **93d:93007**

93B36 H^∞-control

Abdul-Wahab, Abdul-Amir A. *see* **Zohdy, Mohamed A.; et al., 93m:93033**
Anderson, Brian D. O. *see* **Limebeer, David J. N.; et al., 93c:93022** *and* **(93f:93006)**
Antonini, C. D. Guaranteed H_∞ disturbance attenuation and l_1 control and output bounds with LEB regulators. (English summary) (*see* **93h:93007**)
Aoki, Keiko *see* **Ohkubo, K.; et al., (93h:93007)**
Araki, Mituhiko *see* **Fujigaki, M.; et al.**
Astolfi, Alessandro *see* **Isidori, Alberto, 93a:93041** *and* **93i:93043**
Auba, T. (*with* Funahashi, Yasuyuki) The structure of all-pass matrices that satisfy directional interpolation requirements. **93d:93029**
— (*with* Funahashi, Yasuyuki) The structure of all-pass matrices that satisfy two-sided interpolation requirements. **93d:93030**
Balakrishnan, V. *see* **Balemi, S.; et al., (93g:93005)**
Balas, Gary *see* **Packard, Andy; et al., 93f:93050**
Balemi, S. (*with* Boyd, Stephen P.; Balakrishnan, V.) Computation of the maximum H_∞-norm of parameter-dependent linear systems by a branch and bound algorithm. (English summary) (*see* **93g:93005**)
Ball, Joseph A. (*with* Helton, J. William; Verma, Madanpal) A J-inner-outer factorization principle for the H^∞ control problem. (English summary) (*see* **93g:93005**)
— (*with* Helton, J. William) Nonlinear H^∞ control theory for stable plants. **93c:93021**
Bamieh, Bassam A. (*with* Pearson, J. Boyd, Jr.) General framework for linear periodic systems with applications to $\mathscr{H}^\infty$ sampled-data control. **93d:93031**
Banda, Siva S. *see* **Yeh, Hsi-Han; et al., 93b:93040**
Bartlett, Andrew C. (*with* Tesi, Alberto; Vicino, Antonio) Vertices and segments of interval plants are not sufficient for step response analyses. (English summary) **93f:93045**
Bhat, Jayadeva (*with* Chidambaram, M.; Madhavan, K. P.) Robust control of an unstable continuous bioreactor. (English summary) (*see* **93g:93003**)
Böhm, Josef *see* **Kovanic, Pavel, (93f:93005)**
Bondaros, Yu. G. (*with* Semenov, A. V.) Optimal control according to the H^∞-criterion for continuous and discrete systems. (Russian)
Bosgra, Okko H. *see* **Steinbuch, M., (93h:93007)**
Boyd, Stephen P. *see* **Balemi, S.; et al., (93g:93005)**

Brandt, Robert D. *see* **Lin, Feng; et al.**

Byrns, Edward V., Jr. (*with* Calise, Anthony J.) Loop transfer recovery approach to H_∞ design for the coupled mass benchmark problem. (English summary)

Calise, Anthony J. *see* **Byrns, Edward V., Jr.**

Cerone, V. Parameter bounds for linear models in the presence of bounded relative errors. (*see* **93h:93007**)

Chang, Bor Chin *see* **Yeh, Hsi-Han; et al., 93b:93040**

Chang, Chun *see* **Hu, Jian Kun; et al.**

Chang, Wen Jer (*with* Chung, Hung Yüan) A study of H_∞ norm and variance-constrained design using dynamic output feedback for linear discrete systems. (English summary) **93i:93040**

Chen, Ben M. (*with* Saberi, Ali; Ly, Uy-Loi) A noniterative method for computing the infimum in H_∞-optimization. (English summary) **93k:93036**

Chen, Fu Chuang *see* **Khalil, Hassan K.**

Chen, Jin Jiang *see* **Yang, Fu Wen; et al.**

Chen, Shu Ping (*with* Li, Xun Jing; Peng, Shi Ge; Yong, Jiong Min) H^∞ type optimal control problems, algebraic Riccati equations and differential games. **93e:93023**

Chen, Tongwen (*with* Francis, Bruce Allen) Linear time-varying $\mathscr{H}_2$-optimal control of sampled-data systems. **93a:93040**

Chen, Ya Ling Continuity of modified H_∞-optimal sensitivity. (Chinese. English and Chinese summaries)

Chiang, R. Y. (*with* Safonov, Michael G.) H^∞ synthesis using a bilinear pole shifting transform. (English summary)

— (*with* Safonov, Michael G.; Haiges, K.; Madden, K.; Tekawy, Jonathan A.) A fixed H^∞ controller for a supermaneuverable fighter performing the Herbst maneuver. (English summary)

Chidambaram, M. *see* **Bhat, Jayadeva; et al., (93g:93003)**

Chow, Joe H. *see* **Date, Ranjit A.**

Chung, Hung Yüan *see* **Chang, Wen Jer, 93i:93040**

Clements, David J. *see* **Wang, Yue Yun; et al., 93j:93048**

Connor, B. (*with* de Ridder, M. A.; Owens, David H.) Approximate model techniques in robust control. (*see* **93h:93007**)

Corrêa, Gilberto Oliveira *see* **da Silveira, Marcos Azevedo, 93a:93045**

Curtain, Ruth F. The strict bounded real lemma in infinite dimensions. (English summary) **93k:93037**

— *see also* **van Keulen, B. A. M.; et al., 93i:93045** *and* **(93g:93005)**

Date, Ranjit A. (*with* Chow, Joe H.) A parametrization approach to optimal H_2 and H_∞ decentralized control problems. (English summary)

Dias Peres, Pedro Luis (*with* Geromel, J. C.) $\mathscr{H}_2$ control for discrete-time systems optimality and robustness. (English summary)

— *see also* **Geromel, J. C.; et al., 93e:93024**

Ding, Xianchun (*with* Frank, Paul M.) Robust model-based fault detection and isolation for uncertain dynamical systems. (English summary) (*see* **93g:93004**)

Doyle, John C. *see* **Smith, Roy S., 93g:93032** *and* **Packard, Andy, 93k:93042**

Du, Xiu Hua (*with* Shi, Song Jiao) A robustness optimization method for general systems. (Chinese. English and Chinese summaries)

Dwyer, Thomas A. W., III *see* **Karray, Fakhreddine**

Fadali, M. S. *see* **Zohdy, Mohamed A.; et al., 93m:93033**

Fairbairn, N. A. *see* **Grimble, M. J., (93j:93007)**

Fan, Michael K. H. (*with* Tits, André L.) A measure of worst-case H_∞ performance and of largest acceptable uncertainty. **93g:93030**

Fan, Yu Shun (*with* Wu, Qi; Wang, En Ping) Nonuniqueness of H^∞ optimal controllers and design of stable optimal controllers. (Chinese. English summary)

Fang, Hua Jing (*with* Tu, Jian) A simplification of the restrictive conditions for the l^1 optimal design problem for multivariable systems when the full rank condition is not satisfied. (Chinese. English and Chinese summaries)

Feng, Chun Bo *see* **Xu, Li Hong**

Flamm, David S. (*with* Klipec, Kathy) Numerical methods for H^∞ control of distributed parameter systems. (English summary) (*see* **93i:93005**)

Francis, Bruce Allen *see* **Chen, Tongwen, 93a:93040**

Frank, Paul M. *see* **Wang, Yue Yun; et al., 93j:93048** *and* **Ding, Xianchun, (93g:93004)**

Frazho, Arthur E. *see* **Rotea, Mario A., 93m:93031**

Fu, Minyue (*with* de Souza, Carlos E.; Xie, Lihua) Quadratic stabilization and H_∞ control of discrete-time uncertain systems. (English summary) (*see* **93g:93005**)

— (*with* de Souza, Carlos E.) H_∞ filtering and loop transfer recovery. (English summary) (*see* **93g:93005**)

— *see also* **Xie, Lihua; et al.**

Fujigaki, M. (*with* Hagiwara, Tomomichi; Araki, Mituhiko) Optimal robust servo controllers with two degrees of freedom and application to the control of electric power generators. (English summary)

Fujii, Takao (*with* Tsujino, Taro) An inverse LQ based approach to the design of robust tracking system with quadratic stability. (English summary) (*see* **93f:93006**)

Fujisaki, Y. (*with* Yasuda, Kazunori) State space parametrization of robust servo systems. (*see* **93g:93005**)

Fujita, Masayuki (*with* Uchida, Kenko) H^∞ state feedback with cheap control. (English summary) **93j:93041**

— Robust performance and μ-synthesis. (Japanese)

— *see also* **Uchida, Kenko, 93i:93049**; **93j:93047**; **Sugie, Toshiharu; et al., (93f:93006)** *and* **Uchida, Kenko, (93g:93005)**

Funahashi, Yasuyuki *see* **Auba, T., 93d:93029** *and* **93d:93030**

Garg, Sanjay Robust integrated flight/propulsion control design for a STOVL aircraft using H-infinity control design techniques. (English summary)

Geddes, E. J. M. *see* **Tsai, Mi Ching; et al., 93d:93034**

Georgiou, Tryphon T. (*with* Smith, Malcolm Clive) Topological approaches to robustness. (English summary) **93k:93038**

Geromel, J. C. (*with* Dias Peres, Pedro Luis; Souza, S. R.) $\mathscr{H}_2$ guaranteed cost control for uncertain continuous-time linear systems. **93e:93024**

— *see also* **Dias Peres, Pedro Luis**

Glover, Keith *see* **McFarlane, Duncan, 93d:93032**

Green, Michael $\mathscr{H}_\infty$ controller synthesis by J-lossless coprime factorization. **93e:93025**

— *see also* **Limebeer, David J. N.; et al., 93c:93022**

Grimble, M. J. (*with* Fairbairn, N. A.) The F-iteration approach to H_∞ control. (English summary) (*see* **93j:93007**)

— H_∞ robust generalized minimum variance self-tuning controller. (English summary) (*see* **93c:93003**)

Gu, Cai Xing Eliminating the genericity conditions in the skew Toeplitz operator algorithm for H^∞-optimization. (English summary) **93j:93042**

Gu, Da-Wei (*with* Postlethwaite, Ian; Tsai, Mi Ching) H^∞ super-optimal solutions. **93i:93041**

— *see also* **Lin, J.-L.; et al.**

Gu, Guoxiang (*with* Khargonekar, Pramod P.) Linear and nonlinear algorithms for identification in $\mathscr{H}_\infty$ with error bounds. **93f:93046**

Gui, Wei Hua *see* **Wu, Min; et al.**

Guo, Hai Jiao *see* **Wu, Min; et al.**

Guo, Qiao A new kind of decentralized adaptive robust control scheme with task comparability for a redundant manipulator. (Chinese. English and Chinese summaries)

Hagiwara, Tomomichi *see* **Fujigaki, M.; et al.**

Haiges, K. *see* **Chiang, R. Y.; et al.**

Hara, Shinji (*with* Kimura, T.; Kondō, Ryōji) H_∞ control system design by a parameter space approach. (English summary) **93k:93039**

— (*with* Sugie, Toshiharu; Kondō, Ryōji) H_∞ control problem with $j\omega$-axis zeros. **93b:93033**

— *see also* **Sugie, Toshiharu; et al., (93f:93006)** *and* **Kondō, Ryōji, (93g:93005)**

Helton, J. William *see* **Ball, Joseph A., 93c:93021** *and* **(93g:93005)**

Hendel, B. *see* **Limebeer, David J. N.; et al., (93f:93006)**

Honma, Toshihiro *see* **Okada, Tsuyoshi; et al., (93d:93007)**

Hosoe, Shigeyuki (*with* Zhang, Feifei; Kono, Michio) Synthesis of servo mechanism problem via H_∞ control. (*see* **93f:93006**)

— *see also* **Muramatsu, E., (93g:93005)**

Hu, Jian Kun (*with* Wang, Guang Xiong; Zhang, Guo Feng[2]; Yao, Yi Xin; Chang, Chun; Weng, Zheng Xin) A design of H_∞ controllers that fail to satisfy certain constraints. (Chinese. English and Chinese summaries)

Hunt, K. J. (*with* Kučera, Vladimír) The standard $\mathscr{H}_2$-optimal control problem: a polynomial solution. **93g:93031**

Ichikawa, Akira Differential games and H_∞-problems in Hilbert space. (English summary) (*see* **93g:93005**)

İftar, Altuğ (*with* Özgüner, Ümit) Techniques in modeling uncertain dynamics for robust control system design. **93i:93042**

Ikeda, Masakazu *see* **Okada, Tsuyoshi; et al., (93d:93007)**

Ioannou, Petros A. *see* **Sun, Jing, (93j:93007)**

Ionescu, Vlad (*with* Weiss, Martin) State-space solution for the discrete-time H^∞-control problem. **93b:93034**

— (*with* Weiss, Martin) Two-Riccati formulae for the discrete-time H^∞-control problem. (English summary) **93k:93040**

Isidori, Alberto Attenuation of disturbances in nonlinear control systems. **93f:93047**

— (*with* Astolfi, Alessandro) Disturbance attenuation and H_∞-control via measurement feedback in nonlinear systems. (English summary) **93i:93043**

— (*with* Astolfi, Alessandro) Nonlinear H_∞-control via measurement feedback. **93a:93041**

Iwata, Satoru H_∞ optimal control for symmetric linear systems. (English summary) **93k:93041**

Jayasuriya, Suhada QFT type design for maximizing tolerable disturbances in structured uncertain systems.

Kaminer, Isaac (*with* Khargonekar, Pramod P.; Rotea, Mario A.) Mixed $\mathscr{H}_2/\mathscr{H}_\infty$ control for discrete-time systems via convex optimization. (English summary) **93j:93043**

Karray, Fakhreddine (*with* Dwyer, Thomas A. W., III) On the robust control aspect of a class of systems involving interconnected rigid and flexible appendages: case study. (English summary)

Katayama, Tohru A simple state-space approach to spectral factorization for discrete-time system. (English summary) **93i:93044**

van Keulen, B. A. M. (*with* Peters, Marc; Curtain, Ruth F.) H_∞-optimal control with state feedback for infinite-dimensional systems. (English summary) (*see* **93g:93005**)

— (*with* Peters, Marc; Curtain, Ruth F.) H_∞-control with state-feedback: the infinite-dimensional case. (English summary) **93i:93045**

Khalil, Hassan K. (*with* Chen, Fu Chuang) H_∞ control of two-time-scale systems.

Khammash, Mustafa H. (*with* Pearson, J. Boyd, Jr.) Robustness in the presence of structured uncertainty. (English summary) (*see* **93g:93005**)

Khargonekar, Pramod P. (*with* Sivashankar, N.) $\mathscr{H}_2$ optimal control for sampled-data systems. **93f:93048**

— *see also* **Ravi, R.; et al., 93b:93036**; **Limebeer, David J. N.; et al., 93c:93022**; **Gu, Guoxiang, 93f:93046** *and* **Kaminer, Isaac; et al., 93j:93043**

Kihara, Masahiko *see* **Okada, Tsuyoshi; et al., (93d:93007)**

Kimura, Hidenori (J, J')-lossless factorization based on conjugation. (English summary) **93j:93044**

Kimura, T. *see* **Hara, Shinji; et al., 93k:93039**

Kitamori, Toshiyuki *see* **Tsumura, K., (93g:93006)**

Klipec, Kathy *see* **Flamm, David S., (93i:93005)**

Knyazev, I. A. Robust control under nonstationary disturbances. (Russian. Russian summary)

Kodama, Shinzo *see* **Ohta, Yoshito; et al., (93f:93006)** *and* **(93g:93005)**

Kondō, Ryōji (*with* Hara, Shinji) A unified approach to continuous/discrete time H_∞ problems via J-spectral factorizations. (English summary) (*see* **93g:93005**)

— *see also* **Hara, Shinji; et al., 93b:93033** *and* **93k:93039**

Kono, Michio *see* **Hosoe, Shigeyuki; et al., (93f:93006)**

Kovanic, Pavel (*with* Böhm, Josef) Robust PID control. (English summary) (*see* **93f:93005**)

Kučera, Vladimír *see* **Hunt, K. J., 93g:93031**

Kwakernaak, Huibert The polynomial approach to $\mathscr{H}_\infty$-optimal regulation. (English summary) **93i:93046**

— Solution of the standard H_∞ optimal control problem by two polynomial J-spectral factorizations. (*see* **93g:93003**)

Latchman, H. A. (*with* Norris, R. J.) On the equivalence between similarity and nonsimilar-

ity scaling in robustness analysis. (English summary)
Leonhardson, Jorn *see* **Packard, Andy; et al., 93f:93050**
Li, Xun Jing *see* **Chen, Shu Ping; et al., 93e:93023**
Limebeer, David J. N. (*with* Shaked, U.) New results on $\mathscr{H}_\infty$ optimal filtering. (English summary) (*see* **93g:93005**)
— (*with* Anderson, Brian D. O.; Hendel, B.) Nash games and mixed H_2/H_∞ control. (English summary) (*see* **93f:93006**)
— (*with* Anderson, Brian D. O.; Khargonekar, Pramod P.; Green, Michael) A game-theoretic approach to $\mathscr{H}^\infty$ control for time-varying systems. **93c:93022**
Lin, Chin E. *see* **Yeh, Fang Bo; et al., 93j:93050** *and* **Young, Jieh Shian**
Lin, Feng (*with* Brandt, Robert D.; Sun, Jing) Robust control of nonlinear systems: compensating for uncertainty. (English summary)
Lin, J.-L. (*with* Postlethwaite, Ian; Gu, Da-Wei) μ-K iteration: a new algorithm for μ-synthesis. (English summary)
Lin, Lin *see* **Wang, Le Yi, 93g:93034**
Liu, Pin (*with* Wang, Zheng Zhi[2]; Zhang, Liang Qi) The H^∞-optimal control problem in state space form. I. (Chinese. English summary) **93a:93042**
— (*with* Wang, Zheng Zhi[2]; Zhang, Liang Qi) The H_∞ optimal control problem in state space form. II. (Chinese. English and Chinese summaries) **93f:93049**
Ljung, Lennart *see* **Wahlberg, B., 93f:93053**
Ly, Uy-Loi *see* **Chen, Ben M.; et al., 93k:93036**
Madden, K. *see* **Chiang, R. Y.; et al.**
Madhavan, K. P. *see* **Bhat, Jayadeva; et al., (93g:93003)**
Maeda, Hajime *see* **Ohta, Yoshito; et al., (93f:93006)** *and* **(93g:93005)**
McFarlane, Duncan (*with* Glover, Keith) A loop shaping design procedure using H_∞ synthesis. **93d:93032**
McMillan, Christine Alicia (*with* Triggiani, Roberto) Min-max game theory for a class of boundary control problems. (*see* **93i:93005**)
Medanić, J. V. *see* **Paz, R. A., 93f:93051**
Mita, Tsutomu (*with* Ouchi, S.) H_∞/H_2 control and structures of closed loop systems. (English summary) (*see* **93g:93005**)
Morse, A. Stephen High-order parameter tuners for the adaptive control of nonlinear systems. (English summary) (*see* **93f:93006**)
Muramatsu, E. (*with* Hosoe, Shigeyuki) Solution of the standard H^∞ control problem without the Youla-parametrization and some remarks on the closed-loop pole-zero cancellations. (English summary) (*see* **93g:93005**)
Niemann, H. H. *see* **Stoustrup, J., (93h:93007)**
Norris, R. J. *see* **Latchman, H. A.**
Norton, J. P. *see* **Veres, S. M., (93h:93009)** *and* **(93h:93009)**
Ohkubo, K. (*with* Aoki, Keiko; Ohmori, Hiromitsu; Sano, A.) $\mathscr{H}_\infty$ controller reduction in trajectory sensitivity minimization. (*see* **93h:93007**)
Ohmori, Hiromitsu *see* **Ohkubo, K.; et al., (93h:93007)**
Ohta, Yoshito (*with* Maeda, Hajime; Kodama, Shinzo) Unit interpolation in H_∞: bounds of norm and degree of interpolants. (English summary) (*see* **93g:93005**)
— (*with* Maeda, Hajime; Kodama, Shinzo) Rational approximation of L_1-optimal controller. (English summary) (*see* **93f:93006**)
Okada, Tsuyoshi (*with* Kihara, Masahiko; Ikeda, Masakazu; Honma, Toshihiro) System observer techniques in robust control systems design synthesis. (*see* **93d:93007**)
Omorov, R. O. Maximal robustness of dynamical systems. (Russian) **93e:93026**
Ouchi, S. *see* **Mita, Tsutomu, (93g:93005)**
Owen, J. G. (*with* Zames, George) Robust H^∞ disturbance minimization by duality. (English summary) **93h:93023**
Owens, David H. *see* **Connor, B.; et al., (93h:93007)**
Özbay, Hitay (*with* Smith, Malcolm Clive; Tannenbaum, Allen R.) Mixed-sensitivity optimization for a class of unstable infinite-dimensional systems. (English summary) **93j:93045**
Ozcetin, H. K. (*with* Saberi, Ali; Sannuti, Peddapullaiah) Design for H_∞ almost disturbance decoupling problem with internal stability via state or measurement feedback—singular perturbation approach. **93b:93035**
Özgüner, Ümit *see* **İftar, Altuğ, 93i:93042**
Packard, Andy (*with* Zhou, Kemin; Pandey, Pradeep; Leonhardson, Jorn; Balas, Gary) Optimal, constant I/O similarity scaling for full-information and state-feedback control problems. (English summary) **93f:93050**
— (*with* Doyle, John C.) The complex structured singular value. (English summary) **93k:93042**
Pandey, Pradeep *see* **Packard, Andy; et al., 93f:93050**
Partington, Jonathan R. Robust identification and interpolation in H_∞. **93a:93043**
Pascoal, A. M. *see* **Ravi, R.; et al., 93b:93036**
Paz, R. A. (*with* Medanić, J. V.) $\mathscr{H}_\infty$ control in discrete time: state feedback control and norm bounds. **93f:93051**
Pearson, J. Boyd, Jr. Robust l^1-optimal control. (*see* **93f:93006**)
— *see also* **Bamieh, Bassam A., 93d:93031** *and* **Khammash, Mustafa H., (93g:93005)**
Peng, Shi Ge *see* **Chen, Shu Ping; et al., 93e:93023**
Peters, Marc *see* **van Keulen, B. A. M.; et al., 93i:93045** *and* **(93g:93005)**
Postlethwaite, Ian *see* **Tsai, Mi Ching; et al., 93d:93034; Gu, Da-Wei; et al., 93i:93041** *and* **Lin, J.-L.; et al.**
Rachid, A. Two necessary conditions for the optimality of single input LQR. (English summary) **93f:93052**
Ravi, R. (*with* Pascoal, A. M.; Khargonekar, Pramod P.) Normalized coprime factorizations for linear time-varying systems. **93b:93036**
Ray, Laura Ryan (*with* Stengel, Robert F.) A Monte Carlo approach to the analysis of control system robustness. (English summary)
de Ridder, M. A. *see* **Connor, B.; et al., (93h:93007)**
Rotea, Mario A. (*with* Frazho, Arthur E.) Bounds on solutions to $\mathscr{H}_\infty$ algebraic Riccati equations and $\mathscr{H}_2$ properties of $\mathscr{H}_\infty$ central solutions. (English summary) **93m:93031**
— *see also* **Kaminer, Isaac; et al., 93j:93043**
Saberi, Ali *see* **Ozcetin, H. K.; et al., 93b:93035** *and* **Chen, Ben M.; et al., 93k:93036**
Saeki, Masami H^∞/LTR procedure with specified degree of recovery. **93a:93044**
Safonov, Michael G. *see* **Chiang, R. Y.**
Sain, Michael K. (*with* Won, Chang-Hee; Spencer, Billie F., Jr.) Cumulant minimization and robust control. (English summary) (*see* **93g:93007**)
Sannuti, Peddapullaiah *see* **Ozcetin, H. K.; et al., 93b:93035**
Sano, A. *see* **Ohkubo, K.; et al., (93h:93007)**
van der Schaft, A. J. L_2-gain analysis of nonlinear systems and nonlinear state feedback H_∞ control. **93e:93027**
— Complements to nonlinear H_∞ optimal control by state feedback. (English summary) **93k:93043**
Semenov, A. V. *see* **Bondaros, Yu. G.**
Shaked, U. *see* **Yaesh, I., 93b:93038; 93b:93039; 93f:93054** *and* **Limebeer, David J. N., (93g:93005)**
Shi, Guo Jun (*with* Zou, Yun; Yang, Cheng Wu) An algebraic approach to robust H_∞ control via state feedback. (English summary) **93i:93047**
Shi, Song Jiao *see* **Xu, Dong Ling; et al., 93j:93049; Wang, Li Quan** *and* **Du, Xiu Hua**
Shieh, Leang San *see* **Wang, Yeih J.; et al.**
da Silveira, Marcos Azevedo (*with* Corrêa, Gilberto Oliveira) H_2-optimal control of linear systems with tracking/disturbance rejection constraints. **93a:93045**
Sivashankar, N. *see* **Khargonekar, Pramod P., 93f:93048**
Skelton, Robert E. (*with* Zhu, Guoming) Optimal L_∞ bounds for disturbance robustness. (English summary) **93i:93048**
— *see also* **Zhu, Guoming** *and* **Xu, Ji-Han, (93f:93006)**
Skogestad, Sigurd *see* **Wang, Zi Qin** *and* **(93i:93005)**
Smith, Malcolm Clive *see* **Özbay, Hitay; et al., 93j:93045** *and* **Georgiou, Tryphon T., 93k:93038**
Smith, Roy S. (*with* Doyle, John C.) Model validation: a connection between robust control and identification. **93g:93032**
de Souza, Carlos E. *see* **Xie, Lihua, 93d:93035; Fu, Minyue; et al., (93g:93005)** *and* **(93g:93005)**
Souza, S. R. *see* **Geromel, J. C.; et al., 93e:93024**
Spencer, Billie F., Jr. *see* **Sain, Michael K.; et al., (93g:93007)**
Steinbuch, M. (*with* Bosgra, Okko H.) Mixed H_2/H_∞ optimal control of a flexible mechanical servo system. (English summary) (*see* **93h:93007**)
Stengel, Robert F. *see* **Ray, Laura Ryan**
Stoorvogel, A. A. (*with* Trentelman, H. L.) The mixed H_2 and H_∞ control problem. (English summary) (*see* **93f:93006**)
— The singular H_2 control problem. **93b:93037**
Stoustrup, J. (*with* Niemann, H. H.) $\mathscr{H}_\infty$/LTR observer based controllers: direct and indirect design methods. (*see* **93h:93007**)
Subrahmanyam, M. B. Worst-case optimal control over a finite horizon. (English summary) **93j:93046**
Sugie, Toshiharu (*with* Fujita, Masayuki; Hara, Shinji) H_∞-suboptimal controller design of robust tracking systems. (*see* **93f:93006**)
— *see also* **Hara, Shinji; et al., 93b:93033**
Sun, Jing (*with* Ioannou, Petros A.) Robust adaptive LQ control scheme. (English summary) (*see* **93j:93007**)
— *see also* **Lin, Feng; et al.**
Sunkel, John W. *see* **Wang, Yeih J.; et al.**
Tadmor, Gilead Robust control with temporally-local information. (English summary) (*see* **93g:93005**)
— H_∞ optimal sampled-data control in continuous time systems. **93d:93033**
Tannenbaum, Allen R. *see* **Özbay, Hitay; et al., 93j:93045**
Tekawy, Jonathan A. *see* **Chiang, R. Y.; et al.**
Tesi, Alberto *see* **Bartlett, Andrew C.; et al., 93f:93045**
Tits, André L. *see* **Fan, Michael K. H., 93g:93030**
Trentelman, H. L. *see* **Stoorvogel, A. A., (93f:93006)**
Triggiani, Roberto *see* **McMillan, Christine Alicia, (93i:93005)**
Tsai, Mi Ching (*with* Geddes, E. J. M.; Postlethwaite, Ian) Pole-zero cancellations and closed-loop properties of an H^∞ mixed sensitivity design problem. **93d:93034**
— *see also* **Gu, Da-Wei; et al., 93i:93041**
Tsêng, Ch'ing Kuei *see* **Wu, Wên T'êng**
Tsujino, Taro *see* **Fujii, Takao, (93f:93006)**
Tsumura, K. (*with* Kitamori, Toshiyuki) Structural minor primeness in multi-variable polynomial matrices and its applications to 2-D systems. (English summary) (*see* **93g:93006**)
Tsypkin, Ya. Z. Robust adaptive control of systems under bounded uncertainty. (English summary) (*see* **93h:93009**)
— (*with* Vishnyakov, A. N.) Robust nominal control systems with a standard model. (Russian) **93g:93033**
Tu, Jian (*with* Yang, Fu Wen) An algebraic Riccati equation approach to H^∞ state feedback control problems. (Chinese. English and Chinese summaries)
— *see also* **Fang, Hua Jing** *and* **Yang, Fu Wen; et al.**
Uchida, Kenko (*with* Fujita, Masayuki) Controllers attenuating disturbances and initial-uncertainties for time-varying systems. (English summary) **93j:93047**
— (*with* Fujita, Masayuki) H^2 optimality of the H^∞ central controller for time varying systems. (English summary) (*see* **93g:93005**)
— (*with* Fujita, Masayuki) Finite horizon H^∞ control problems with terminal penalties. (English summary) **93i:93049**
— *see also* **Fujita, Masayuki, 93j:93041**
Veres, S. M. (*with* Norton, J. P.) Bound-based worst-case self-tuning controllers. (English summary) (*see* **93h:93009**)
— (*with* Norton, J. P.) Parameter-bounding algorithms for linear errors in variables models. (English summary) (*see* **93h:93009**)
Verma, Madanpal *see* **Bali, Joseph A.; et al., (93g:93005)**
Vicino, Antonio *see* **Bartlett, Andrew C.; et al., 93f:93045**
Vishnyakov, A. N. *see* **Tsypkin, Ya. Z., 93g:93033**
Volgin, L. N. Design of discrete tracking systems that are optimal with respect to the H_∞ criterion. (Russian. Russian summary)
Wahlberg, B. (*with* Ljung, Lennart) Hard frequency-domain model error bounds from least-squares like identification techniques. **93f:93053**
Wang, En Ping *see* **Fan, Yu Shun; et al.**

Wang, Guang Xiong *see* **Zhang, Guo Feng²**, **93m:93032** *and* **Hu, Jian Kun; et al.**
Wang, Hong Gui *see* **Wu, Min; et al.**
Wang, Le Yi (*with* Lin, Lin) On metric dimensions of discrete-time systems. (English summary) **93g:93034**
Wang, Li Quan (*with* Shi, Song Jiao) Design of robust controllers for structured uncertain linear systems. (Chinese. English and Chinese summaries)
Wang, Yeih J. (*with* Shieh, Leang San; Sunkel, John W.) Observer-based robust-H_∞ control laws for uncertain linear systems. (English summary)
Wang, Yue Yun (*with* Frank, Paul M.; Clements, David J.) The robustness properties of the linear quadratic regulators for singular systems. (English summary) **93j:93048**
Wang, Zheng Zhi² Methods for solving superoptimal H_∞ control problems in the S domain. (Chinese. English and Chinese summaries)
— Explicit solutions to multivariable H_∞ control problems. (Chinese. English and Chinese summaries)
— *see also* **Liu, Pin; et al.**, **93a:93042** *and* **93f:93049**
Wang, Zi Qin (*with* Skogestad, Sigurd) Robust controller design for uncertain time delay systems. (English summary) (*see* **93i:93005**)
— (*with* Skogestad, Sigurd) Robust control of time-delay systems using the Smith predictor. (English summary)
Weiss, Martin *see* **Ionescu, Vlad**, **93b:93034** *and* **93k:93040**
Weng, Zheng Xin *see* **Hu, Jian Kun; et al.**
Won, Chang-Hee *see* **Sain, Michael K.; et al.**, (**93g:93007**)
Wu, Min (*with* Gui, Wei Hua; Guo, Hai Jiao; Wang, Hong Gui) H_∞ state feedback control on the basis of a state observer. (Chinese. English and Chinese summaries)
Wu, Qi *see* **Fan, Yu Shun; et al.**
Wu, Wên T'êng (*with* Tsêng, Ch'ing Kuei) On-line robust control of a multivariable system. (English and Chinese summaries)
Xie, Lihua (*with* de Souza, Carlos E.) Robust H_∞ control for linear systems with norm-bounded time-varying uncertainty. (English summary) **93d:93035**
— (*with* Fu, Minyue; de Souza, Carlos E.) H_∞-control and quadratic stabilization of systems with parameter uncertainty via output feedback. (English summary)
— *see also* **Fu, Minyue; et al.**, (**93g:93005**)
Xu, Dong Ling (*with* Shi, Song Jiao; Yang, Jian Bo; Zhang, Zhong Jun) Design of an H^∞ optimal sensitivity controller for multivariate generalized systems. (Chinese. Chinese summary) **93j:93049**
Xu, Ji-Han (*with* Skelton, Robert E.) Robust covariance control. (English summary) (*see* **93f:93006**)
Xu, Li Hong (*with* Feng, Chun Bo) A self-tuning robust controller based on a normalized parameter estimation model. (Chinese. English summary)
Yaesh, I. (*with* Shaked, U.) Game theory approach to optimal linear state estimation and its relation to the minimum H_∞-norm estimation. **93b:93038**
— (*with* Shaked, U.) H_∞-optimal one-step-ahead output feedback control of discrete-time systems. (English summary) **93f:93054**
— (*with* Shaked, U.) Game theory approach to state estimation of linear discrete-time processes and its relation to H_∞-optimal estimation. **93b:93039**
Yang, Cheng Wu *see* **Shi, Guo Jun; et al.**, **93i:93047**
Yang, Fu Wen (*with* Tu, Jian; Chen, Jin Jiang) An H^∞ optimal design for a four-block problem. (Chinese. English and Chinese summaries)
— *see also* **Tu, Jian**
Yang, Jian Bo *see* **Xu, Dong Ling; et al.**, **93j:93049**
Yao, Yi Xin *see* **Hu, Jian Kun; et al.**
Yasuda, Kazunori *see* **Fujisaki, Y.**, (**93g:93005**)
Yedavalli, R. K. Robust root clustering for linear uncertain systems using generalized Lyapunov theory. (English summary)
Yeh, Fang Bo (*with* Young, Jieh Shian; Lin, Chin E.) State-space formulae for the parametrization of discrete-time H^∞ control problem. (English summary) **93j:93050**
Yeh, Hsi-Han (*with* Banda, Siva S.; Chang, Bor Chin) Necessary and sufficient conditions for mixed H_2 and H_∞ optimal control. **93b:93040**
Yong, Jiong Min *see* **Chen, Shu Ping; et al.**, **93e:93023**
Young, Jieh Shian (*with* Lin, Chin E.) Construction of the maximal Schmidt pair for the 4-block H^∞-optimal control problem. (English summary)
— *see also* **Yeh, Fang Bo; et al.**, **93j:93050**
Zames, George *see* **Owen, J. G.**, **93h:93023**
Zhang, Feifei *see* **Hosoe, Shigeyuki; et al.**, (**93f:93006**)
Zhang, Guo Feng² (*with* Wang, Guang Xiong) A conjugation method for the H^∞ discrete model-matching problem. (Chinese. English and Chinese summaries) **93m:93032**
— *see also* **Hu, Jian Kun; et al.**
Zhang, Liang Qi *see* **Liu, Pin; et al.**, **93a:93042** *and* **93f:93049**
Zhang, Xian Ming Optimal control of self-tuning H_∞ for unknown or variable dead-time systems. (Chinese. English and Chinese summaries) **93h:93024**
Zhang, Zhong Jun *see* **Xu, Dong Ling; et al.**, **93j:93049**
Zhou, Kemin Comparison between $\mathscr{H}_2$ and $\mathscr{H}_\infty$ controllers. (English summary) **93e:93028**
— On the parameterization of $\mathscr{H}_\infty$ controllers. (English summary) **93f:93055**
— *see also* **Packard, Andy; et al.**, **93f:93050**
Zhou, Yun Zhong A mixed H_2/H_∞ optimal controller. (Chinese. English and Chinese summaries)
Zhu, Guoming (*with* Skelton, Robert E.) Robust discrete controllers guaranteeing l_2 and l_∞ performances. (English summary)
— *see also* **Skelton, Robert E.**, **93i:93048**
Zohdy, Mohamed A. (*with* Fadali, M. S.; Abdul-Wahab, Abdul-Amir A.) Robust control system design with state constraints. (English summary) **93m:93033**
Zou, Yun *see* **Shi, Guo Jun; et al.**, **93i:93047**

Items with secondary classifications in 93B36

Akçay, Hüseyin (*with* Gu, Guoxiang; Khargonekar, Pramod P.) A class of algorithms for identification in $\mathscr{H}_\infty$: continuous-time case. (English summary) **93j:93035**
Allwright, J. C. (*with* Papavasiliou, G. C.) On linear programming and robust model-predictive control using impulse-responses. **93a:93054**
Anderson, Brian D. O. Optimizing the discretization of continuous-time controllers. (English summary) **93j:93086**
— (*with* Yan, Wei Yong; Bitmead, Robert R.) Trade-offs among conflicting objectives in robust control design. **93m:93041**
— *see also* **Limebeer, David J. N.; et al.**, (**93f:93006**)
Arkun, Yaman (*with* Calvet, Jean-Paul) Robust stabilization of input/output linearizable systems under uncertainty and disturbances. (English summary)
Balakrishnan, V. (*with* Boyd, Stephen P.) On computing the worst-case peak gain of linear systems. (English summary) **93j:93085**
Bamieh, Bassam A. (*with* Dahleh, Munther A.; Pearson, J. Boyd, Jr.) Rejection of persistent, bounded disturbances for sampled-data systems. (English summary) (*see* **93f:93006**)
— (*with* Pearson, J. Boyd, Jr.) The $\mathscr{H}^2$ problem for sampled-data systems. **93d:93052**
Başar, Tamer (*with* Bernhard, Pierre) ★ H^∞-optimal control and related minimax design problems. **93c:93001**
— Game theory and H^∞-optimal control: the continuous-time case. (English summary) (*see* **93c:90003**)
— Optimum performance levels for minimax filters, predictors and smoothers. **93a:93104**
Berckmans, Daniel *see* **De Moor, Bart L. R.; et al.**
Bernhard, Pierre *see* **Başar, Tamer**, **93c:93001**
Bernstein, Dennis S. *see* **Žigić, Dragan; et al.**, **93f:93058**
Bitmead, Robert R. *see* **Anderson, Brian D. O.; et al.**, **93m:93041**
van den Boom, T. (*with* Klompstra, Martin H.; Damen, A.) System identification for H_∞-robust control design. (English summary) (*see* **93h:93009**)
Boyd, Stephen P. *see* **Kosut, Robert L.; et al.**, **93f:93042** *and* **Balakrishnan, V.**, **93j:93085**
Bryson, Arthur E., Jr. *see* **El Ghaoui, Laurent; et al.**, **93f:93063**
Buddie, Scott A. (*with* Georgiou, Tryphon T.; Özgüner, Ümit; Smith, Malcolm Clive) Flexible structure experiments at JPL and WPAFB: H_∞ controller designs. (English summary)
Calvet, Jean-Paul *see* **Arkun, Yaman**
Canudas de Wit, Carlos Robust control for servo-mechanisms under inexact friction compensation. (English summary)
Carrier, Alain *see* **El Ghaoui, Laurent; et al.**, **93f:93063**
Casavola, Alessandro (*with* Mosca, Edoardo) H_∞ and H_2 simple controllers for robotic applications. **93g:93056**
— Optimal H_2 and H_∞ LQ stochastic feedforward control. (English summary)
Chait, Yossi *see* **Yaniv, Oded**
Chapellat, Hervé (*with* Dahleh, Mohammed A.) Analysis of time-varying control strategies for optimal disturbance rejection and robustness. (English summary) **93j:93075**
Chen, Ben M. (*with* Saberi, Ali; Ly, Uy-Loi) Exact computation of the infimum in H_∞-optimization via state feedback. **93d:93036**
— (*with* Saberi, Ali; Sannuti, Peddapullaiah) Loop transfer recovery for general nonminimum phase non-strictly proper systems. I. Analysis. **93e:93032**
— (*with* Saberi, Ali; Sannuti, Peddapullaiah) Loop transfer recovery for general nonminimum phase non-strictly proper systems. II. Design. **93e:93033**
Chen, J. S. *see* **Chen, Ye-Hwa**, **93h:93070**
Chen, L. W. *see* **Tsai, Mi Ching**, **93m:93035**
Ch'ên, Po Hsien *see* **P'êng, Hua Chieh**, **93j:93079**
Chen, Shu Ping The existence of solutions to the infinite-dimensional algebraic Riccati equations with indefinite coefficients. **93a:93064**
Chen, Tongwen A simple derivation of the $\mathscr{H}_2$-optimal sampled-data controllers. (English summary) **93j:93089**
Chen, Ye-Hwa (*with* Chen, J. S.) Adaptive robust control of uncertain systems. **93h:93070**
— Adaptive robust control of uncertain systems with measurement noise. **93g:93079**
Collins, Emmanuel G., Jr. *see* **Žigić, Dragan; et al.**, **93f:93058**
Corless, Martin (*with* Leitmann, George) Bounded controllers for robust exponential convergence. (English summary) **93k:93101**
Crews, M. (*with* Kouvaritakis, B.) An evaluation of super-optimality as a control tool: a relative stability perspective. (English summary) **93j:93101**
Cui, Jun Feng (*with* Wu, Guang Yu) A robust self-tuning controller for fast following. (Chinese. English and Chinese summaries)
Curtain, Ruth F. Robust stabilization for infinite-dimensional linear systems using normalized coprime factorizations. **93a:93097**
Dahleh, Mohammed A. *see* **Chapellat, Hervé**, **93j:93075**
Dahleh, Munther A. (*with* Shamma, Jeff S.) Rejection of persistent bounded disturbances: nonlinear controllers. **93g:93047**
— *see also* **Diaz-Bobillo, Ignacio J.**; **Bamieh, Bassam A.; et al.**, (**93f:93006**) *and* **Tse, D. N. C.; et al.**, (**93g:93005**)
Damen, A. *see* **van den Boom, T.; et al.**, (**93h:93009**)
David, Johan *see* **De Moor, Bart L. R.; et al.**
De Mari, Filippo (*with* Ober, Raimund) Topological aspects of robust control. (English summary) **93i:93095**
De Moor, Bart L. R. (*with* David, Johan; Vandewalle, Joos; De Moor, Maarten; Berckmans, Daniel) Trade-offs in linear control system design: a practical example. (English summary)
De Moor, Maarten *see* **De Moor, Bart L. R.; et al.**
Diaz-Bobillo, Ignacio J. (*with* Dahleh, Munther A.) State feedback l_1-optimal controllers can be dynamic. (English summary)
Dion, Jean Michel *see* **Trofino-Neto, Alexandre; et al.**, **93i:93109** *and* **93j:93119**
Dolezal, Vaclav Sensitivity and robust stability of some control systems containing a nonlinear plant. (English summary) **93k:93081**
Dorato, P. (*with* Fortuna, L.; Muscato, G.) ★ Robust control for unstructured perturbations—an introduction. **93h:93002**
Dugard, Luc *see* **Trofino-Neto, Alexandre; et al.**, **93i:93109** *and* **93j:93119**
Dullerud, Geir E. (*with* Francis, Bruce Allen) $\mathscr{L}_1$ analysis and design of sampled-data systems. **93a:93074**
El Ghaoui, Laurent (*with* Carrier, Alain; Bryson, Arthur E., Jr.) Linear quadratic minimax controllers. **93f:93063**
Elsayed, Ahmed *see* **Grimble, M. J.; et al.**, (**93j:93007**)
El'tsov, A. A. (*with* Ruban, A. I.) Robust identification of distributed dynamical objects described by loaded equations with the application of estimates for sensitivity functions. (Russian. Russian summary)

Fan, Michael K. H. On design of robust controllers with unstructured uncertainty. (English summary) (*see* **93g:93005**)
Feng, Chun Bo *see* **Xu, Li Hong**
Fiorio, Giovanni (*with* Milanese, M.; Vicino, Antonio) Robust stability and performance in the presence of parametric and norm bounded uncertainty. **93f:93101**
Foias, Ciprian (*with* Frazho, Arthur E.) Commutant lifting and simultaneous H^∞ and L^2 suboptimization. **93e:47011**
Fortuna, L. *see* **Dorato, P.; et al., 93h:93002**
Francis, Bruce Allen *see* **Dullerud, Geir E., 93a:93074**
Frazho, Arthur E. *see* **Foias, Ciprian, 93e:47011**
Fujii, Takao *see* **Tsujino, Taro; et al., 93m:93016**
Georgiou, Tryphon T. (*with* Smith, Malcolm Clive) Linear systems and robustness: a graph point of view. (English summary) (*see* **93f:93006**)
— *see also* **Buddie, Scott A.; et al.**
Gevers, Michel *see* **Goodwin, Graham C.; et al., 93c:93037**
Gohberg, Israel (*with* Kaashoek, Marinus A.; Woerdeman, Hugo J.) Time variant extension problems of Nehari type and the band method. (English summary) **93g:47017**
Goodwin, Graham C. (*with* Mayne, David Q.; Salgado, M. E.) Uncertainty, information and estimation. (English summary) (*see* **93j:93007**)
— (*with* Gevers, Michel; Ninness, Brett) Quantifying the error in estimated transfer functions with application to model order selection. **93c:93037**
Grimble, M. J. (*with* Ho, Daniel W. C.; Elsayed, Ahmed) H_∞ robust linear estimator. (English summary) (*see* **93j:93007**)
Gu, Guoxiang (*with* Khargonekar, Pramod P.; Li, Yanlin) Robust convergence of two-stage nonlinear algorithms for identification in $\mathscr{H}_\infty$. **93b:93110**
— *see also* **Akçay, Hüseyin; et al., 93j:93035**
Helmicki, A. J. (*with* Jacobson, C. A.; Nett, C. N.) Worst-case/deterministic identification in H_∞: the continuous-time case. **93c:93019**
Helton, J. William Two topics in systems engineering: frequency domain design and nonlinear systems. **93g:93001**
Hendel, B. *see* **Limebeer, David J. N.; et al., (93f:93006)**
(Hinrichsen, Diederich) *see* **Control of uncertain systems, 93i:93006**
Ho, Daniel W. C. *see* **Grimble, M. J.; et al., (93j:93007)**
(Hosoe, Shigeyuki) *see* **Robust control, 93f:93006**
Hu, Qing Yong *see* **Mu, Chun Di; et al.**
Huang, Han Pang (*with* Lin, Marlon) Robust force control for robotic manipulators. (English summary)
Hunt, K. J. (*with* Šebek, Michael) Polynomial LQ optimization for the standard control structure: scalar solution. (English summary)
Ichikawa, K. (*with* Ortega, Romeo) On stabilization of nonlinear systems with enlarged domain of attraction. **93b:93097**
Iwasaki, T. *see* **Skelton, Robert E., 93k:93075**
Jacobson, C. A. *see* **Helmicki, A. J.; et al., 93c:93019**
Jennings, L. S. *see* **Rehbock, V.; et al., 93h:93026**
Jiang, Zhi Hua (*with* Schaufelberger, W.) ★ Block pulse functions and their applications in control systems. **93d:93003**
Kaashoek, Marinus A. *see* **Gohberg, Israel; et al., 93g:47017**
Kasenally, E. M. *see* **Limebeer, David J. N.; et al.**
Katayama, Tohru Solution to Wiener filtering problem via H_2 optimal control theory. (English summary) **93k:93110**
Khammash, Mustafa H. (*with* Pearson, J. Boyd, Jr.) Analysis and design for robust performance with structured uncertainty. (English summary) **93k:93085**
Khapalov, A. Yu. Optimal measurement trajectories for distributed parameter systems. **93b:93055**
Khargonekar, Pramod P. *see* **Gu, Guoxiang; et al., 93b:93110; Krause, James M., 93d:93080** *and* **Akçay, Hüseyin; et al., 93j:93035**
(Kimura, Hidenori) *see* **Recent advances in mathematical theory of systems, control, networks and signal processing, 93g:93005** *and* **93g:93006**
Klompstra, Martin H. *see* **van den Boom, T.; et al., (93h:93009)**
Kodama, Shinzo *see* **Ohta, Yoshito; et al., (93g:93005); Recent advances in mathematical theory of systems, control, networks and signal processing, 93g:93005** *and* **93g:93006**
Kosut, Robert L. (*with* Lau, Ming K.; Boyd, Stephen P.) Set-membership identification of systems with parametric and nonparametric uncertainty. **93f:93042**
Kouvaritakis, B. *see* **Crews, M., 93j:93101**
Krause, James M. (*with* Khargonekar, Pramod P.) A comparison of classical stochastic estimation and deterministic robust estimation. **93d:93080**
Kuntsevich, V. M. (*with* Lychak, M.) ★ Guaranteed estimates, adaptation and robustness in control systems. **93b:93004**
— Synthesis of optimal robust control of linear objects under bounded perturbations. (Russian. Russian summary) **93i:49046**
de Larminat, P. A survey on robust control. (English summary) **93i:93003**
Lau, Ming K. *see* **Kosut, Robert L.; et al., 93f:93042**
Lee, E. Bruce *see* **Li, Yanlin; et al., 93b:93085**
Leitmann, George *see* **Corless, Martin, 93k:93101**
Leondes, Cornelius T. *see* **Tekawy, Jonathan A.; et al., 93k:93089** *and* **Robust control system techniques and applications, 93d:93008**
Lewis, Frank L. *see* **Syrmos, Vassilis L.**
Li, Yanlin (*with* Nagpal, Krishan M.; Lee, E. Bruce) Stability analysis of polynomials with coefficients in disks. **93b:93085**
— *see also* **Gu, Guoxiang; et al., 93b:93110**
Limebeer, David J. N. (*with* Anderson, Brian D. O.; Hendel, B.) Mixed H_2/H_∞ filtering by the theory of Nash games. (English summary) (*see* **93f:93006**)
— (*with* Kasenally, E. M.; Perkins, J. D.) On the design of robust two degree of freedom controllers. (English summary)
Lin, Chih Min (*with* Tu, Maan Huang) Synthesis of deadbeat controllers with minimum control input and finite-step control input. (English summary)
— *see also* **Tu, Maan Huang; et al., 93j:93136**
Lin, Marlon *see* **Huang, Han Pang**
Lin, Yu Ping *see* **Tu, Maan Huang; et al., 93j:93136**
Linnemann, Arno $\mathscr{L}_\infty$-induced optimal performance in sampled-data systems. **93b:93069**
Liu, Pin (*with* Zhang, Zhong Jun) A Kalman filter with H_∞ error bound. (Chinese. English and Chinese summaries) **93i:93123**
Ly, Uy-Loi *see* **Chen, Ben M.; et al., 93d:93036**
Lychak, M. *see* **Kuntsevich, V. M., 93b:93004**
Maeda, Hajime *see* **Ohta, Yoshito; et al., (93g:93005)**
(Mårtensson, Bengt) *see* **Control of uncertain systems, 93i:93006**
Mayne, David Q. *see* **Goodwin, Graham C.; et al., (93j:93007)**
Milanese, M. *see* **Fiorio, Giovanni; et al., 93f:93101**
Mosca, Edoardo *see* **Casavola, Alessandro, 93g:93056** *and* **H_∞-control theory, 93d:93005**
Mu, Chun Di (*with* Hu, Qing Yong; Wu, Xu Dong) An adaptive control algorithm for optimal model matching based on the H_∞-norm. (Chinese. English and Chinese summaries)
Muscato, G. *see* **Dorato, P.; et al., 93h:93002**
Nagpal, Krishan M. *see* **Li, Yanlin; et al., 93b:93085**
Nett, C. N. *see* **Helmicki, A. J.; et al., 93c:93019**
Ninness, Brett *see* **Goodwin, Graham C.; et al., 93c:93037**
Ober, Raimund *see* **De Mari, Filippo, 93i:93095**
Ohta, Yoshito (*with* Maeda, Hajime; Kodama, Shinzo) l_1-interpolation problem: J-contraction unimodular factorizability. (English summary) (*see* **93g:93005**)
Ortega, Romeo *see* **Ichikawa, K., 93b:93097**
Özgüner, Ümit *see* **Buddie, Scott A.; et al.**
(Pandolfi, Luciano) *see* **H_∞-control theory, 93d:93005**
Papavasiliou, G. C. *see* **Allwright, J. C., 93a:93054**
Partington, Jonathan R. Robust identification in H_∞. (English summary) (*see* **93g:93005**)
— Robust identification in H_∞. **93e:93019**
Pearson, J. Boyd, Jr. *see* **Bamieh, Bassam A., 93d:93052; Khammash, Mustafa H., 93k:93085** *and* **Bamieh, Bassam A.; et al., (93f:93006)**
P'êng, Hua Chieh (*with* Ch'ên, Po Hsien) A robust discrete-time adaptive control with control input constraints. (English and Chinese summaries) **93j:93079**
Perkins, J. D. *see* **Limebeer, David J. N.; et al.**
Ray, Asok *see* **Shen, Jenny H.**
Rehbock, V. (*with* Teo, Kok Lay; Jennings, L. S.) A computational procedure for suboptimal robust controls. (English summary) **93h:93026**
Ruban, A. I. *see* **El'tsov, A. A.**
Runggaldier, Wolfgang J. Some aspects of robustness in stochastic and adaptive control. (English summary) (*see* **93g:93007**)
Saberi, Ali *see* **Chen, Ben M.; et al., 93d:93036; 93e:93032** *and* **93e:93033**
Saeki, Masami H^∞ control with pole assignment in a specified disc. (English summary) **93e:93038**
Safonov, Michael G. *see* **Tekawy, Jonathan A.; et al., 93k:93089** *and* **Wang, Wei Zhen**
Salgado, M. E. *see* **Goodwin, Graham C.; et al., (93j:93007)**
Sannuti, Peddapullaiah *see* **Chen, Ben M.; et al., 93e:93032** *and* **93e:93033**
Schaufelberger, W. *see* **Jiang, Zhi Hua, 93d:93003**
Schumacher, J. M. A pointwise criterion for controller robustness. **93b:93091**
Šebek, Michael *see* **Hunt, K. J.**
Shaked, U. *see* **Yaesh, I., 93j:93143**
Shamma, Jeff S. *see* **Dahleh, Munther A., 93g:93047**
Shen, Jenny H. (*with* Ray, Asok) Extended discrete-time LTR synthesis of delayed control systems. (English summary)
Shields, D. N. Observers for descriptor systems. **93f:93027**
Skelton, Robert E. (*with* Iwasaki, T.) Liapunov and covariance controllers. (English summary) **93k:93075**
Smith, Malcolm Clive *see* **Buddie, Scott A.; et al.** *and* **Georgiou, Tryphon T., (93f:93006)**
de Souza, Carlos E. *see* **Wang, You Yi; et al., 93f:93109** *and* **Xie, Lihua, (93g:93005)**
Spong, Mark W. On the robust control of robot manipulators. (English summary)
— *see also* **Yaz, Engin**
Staffans, Olof J. MIMO l^1-optimization with a scalar control. (English summary) **93h:93022**
Stoorvogel, A. A. Robust stabilization of systems with multiplicative perturbations. (English summary) (*see* **93g:93005**)
Subrahmanyam, M. B. ★ Optimal control with a worst-case performance criterion and applications. **93g:49002**
— Optimal disturbance rejection and performance robustness in linear systems. **93a:93052**
Syrmos, Vassilis L. (*with* Lewis, Frank L.) Robust eigenvalue assignment for generalized systems. (English summary)
Sznaier, Mario Norm based robust control of state-constrained discrete-time linear systems. **93d:93066**
Tadmor, Gilead Robust sampled data control in continuous time systems. (English summary) (*see* **93g:93005**)
— Receding horizon revisited: an easy way to robustly stabilize an LTV system. **93a:93088**
Tekawy, Jonathan A. (*with* Safonov, Michael G.; Leondes, Cornelius T.) Robustness measures for systems with one-sided parameter uncertainties. (English summary) **93k:93089**
Teo, Kok Lay *see* **Rehbock, V.; et al., 93h:93026**
Tesi, Alberto (*with* Vicino, Antonio) Frequency response of interval plant-controller families. (English summary) **93d:93067**
Toivonen, H. T. Sampled-data H_∞ optimal control of time-varying systems. **93c:93036**
Trofino-Neto, Alexandre (*with* Dion, Jean Michel; Dugard, Luc) On the robustness of LQ regulators for discrete-time systems. (English summary) **93i:93109**
— (*with* Dion, Jean Michel; Dugard, Luc) Robustness bounds for LQ regulators. (English summary) **93j:93119**
Tsai, Mi Ching (*with* Chen, L. W.) A numerical algorithm for inner-outer factorizations of real-rational matrices. (English summary) **93m:93035**
Tse, D. N. C. (*with* Dahleh, Munther A.; Tsitsiklis, John N.) Optimal asymptotic worst-case identification with applications on l_1 and gap metrics. (English summary) (*see* **93g:93005**)
Tsitsiklis, John N. *see* **Tse, D. N. C.; et al., (93g:93005)**
Tsujino, Taro (*with* Fujii, Takao; Wei, Ke Hui) On the connection between controllability and stabilizability of linear systems with structural uncertain parameters. (English summary) **93m:93016**

Tsypkin, Ya. Z. Optimal discrete systems for the control of non-minimal-phase objects. (Russian) **93d:93038**
Tu, Maan Huang (*with* Lin, Chih Min; Lin, Yu Ping) Robust optimization of multivariable feedback systems with time-varying nonlinear uncertainties. (English summary) **93j:93136**
— *see also* **Lin, Chih Min**
Vandewalle, Joos *see* **De Moor, Bart L. R.; et al.**
Vicino, Antonio *see* **Tesi, Alberto, 93d:93067** *and* **Fiorio, Giovanni; et al., 93f:93101**
Wang, Hai Yan[2] Pole assignment in a specified region and robustness. (Chinese. English and Chinese summaries) **93j:93121**
Wang, Le Yi (*with* Zames, George) Local-global double algebras for slow H^∞ adaptation: the case of l^2 disturbances. **93f:47093**
Wang, Wei Zhen (*with* Safonov, Michael G.) Relative-error H_∞ identification from autocorrelation data—a stochastic realization method.
Wang, You Yi (*with* Xie, Lihua; de Souza, Carlos E.) Robust control of a class of uncertain nonlinear systems. (English summary) **93f:93109**
Watson, Layne T. *see* **Žigić, Dragan; et al., 93f:93058**
Wei, Ke Hui *see* **Tsujino, Taro; et al., 93m:93016**
Wei, Lin Fang *see* **Yeh, Fang Bo, (93f:93006)**
Woerdeman, Hugo J. *see* **Gohberg, Israel; et al., 93g:47017**
van der Woude, J. W. Almost noninteracting control for linear systems with exogenous inputs and outputs. (English summary) **93j:93055**
Wu, Guang Yu *see* **Cui, Jun Feng**
Wu, Xu Dong *see* **Mu, Chun Di; et al.**
Xie, Lihua (*with* de Souza, Carlos E.) Quadratic stabilization and H_∞ control of linear uncertain periodic systems. (English summary) (*see* **93g:93005**)
— *see also* **Wang, You Yi; et al., 93f:93109**
Xu, Li Hong (*with* Feng, Chun Bo) LQG control based on compensation of the unmodelled dynamics. (Chinese. English and Chinese summaries)
Yaesh, I. (*with* Shaked, U.) H_∞-optimal estimation—the discrete time case. (English summary) **93j:93143**
Yan, Wei Yong *see* **Anderson, Brian D. O.; et al., 93m:93041**
Yang, Ciann Dong (*with* Yeh, Fang Bo) An efficient algorithm on optimal Hankel-norm approximation for multivariable systems. **93a:93046**
Yaniv, Oded (*with* Chait, Yossi) Direct control design in sampled-data uncertain systems. (English summary)
Yanushevskiĭ, R. T. Aspects of robust control systems design. **93k:93091**
Yaz, Engin Comments on: "On the robust control of robot manipulators" [IEEE Trans. Automat. Control **37** (1992), no. 11, 1782–1786] by M. W. Spong. (English summary)
Yeh, Fang Bo (*with* Wei, Lin Fang) Super-optimal Hankel-norm approximations. (English summary) (*see* **93f:93006**)
— *see also* **Yang, Ciann Dong, 93a:93046**
Zames, George *see* **Wang, Le Yi, 93f:47093**
Zhang, Zhong Jun *see* **Liu, Pin, 93i:93123**
Žigić, Dragan (*with* Watson, Layne T.; Collins, Emmanuel G., Jr.; Bernstein, Dennis S.) Homotopy methods for solving the optimal projection equations for the H_2 reduced order model problem. **93f:93058**

Items listed otherwise than by author

Bremen ★ Control of uncertain systems. **93i:93006**
Como ★ H_∞-control theory. **93d:93005**
Control of uncertain systems ★ Control of uncertain systems. **93i:93006**
H_∞-control theory ★ H_∞-control theory. **93d:93005**
Kobe ★ Recent advances in mathematical theory of systems, control, networks and signal processing. I. **93g:93005**
— ★ Recent advances in mathematical theory of systems, control, networks and signal processing. II. **93g:93006**
Lecture Notes in Control and Information Sciences ★ Robust control. **93f:93006**
Lecture Notes in Mathematics ★ H_∞-control theory. **93d:93005**
Recent advances in mathematical theory of systems, control, networks and signal processing ★ Recent advances in mathematical theory of systems, control, networks and signal processing. I. **93g:93005**
— ★ Recent advances in mathematical theory of systems, control, networks and signal processing. II. **93g:93006**
Robust control ★ Robust control. **93f:93006**
Robust control system techniques and applications ★ Robust control system techniques and applications. Part 2. **93d:93008**
Session:
H_∞-Control Theory ★ H_∞-control theory. **93d:93005**
Symposium:
Mathematical Theory of Networks and Systems ★ Recent advances in mathematical theory of systems, control, networks and signal processing. I. **93g:93005**
— ★ Recent advances in mathematical theory of systems, control, networks and signal processing. II. **93g:93006**
Tokyo ★ Robust control. **93f:93006**
Workshop:
Control of Uncertain Systems ★ Control of uncertain systems. **93i:93006**
Robust Control ★ Robust control. **93f:93006**

93B40 Computational methods

Achuthan, P. (*with* Rangarajan, R.) Continued fraction solutions of matrix Riccati equation. (English summary) (*see* **93g:93003**)
Anderson, Brian D. O. *see* **White, Langford B., 93g:93038**
Antoniou, George E. *see* **Glentis, George Othon; et al.**
Atherton, Derek P. (*with* Yang, Tai Cheng) The development of programs for nonlinear control systems in MATLAB. (*see* **93h:93007**)
Balakrishnan, V. *see* **Balemi, S., (93f:93005)**
Balemi, S. (*with* Balakrishnan, V.) Branch and bound algorithm for global optimization in control theory. (English summary) (*see* **93f:93005**)
Bernstein, Dennis S. *see* **Žigić, Dragan; et al., 93f:93058** *and* **Halevi, Yoram; et al.**
Bordyug, B. A. (*with* Larin, V. B.) An algorithm for solving Riccati equations arising in H^∞-optimization problems. (Russian. English summary) **93i:93050**
Breido, I. V. Extremal estimates for the coefficients of a characteristic polynomial of arbitrary order in real and complex roots. (Russian. Russian summary) **93f:93056**
Brella, A. *see* **Du, X. C.; et al.**
Bushenkov, V. A. (*with* Smirnov, G. V.) Regulation under conditions of uncertainty. (Russian) **93b:93041**
Chen, Ben M. (*with* Saberi, Ali; Ly, Uy-Loi) Exact computation of the infimum in H_∞-optimization via state feedback. **93d:93036**
Chen, L. W. *see* **Tsai, Mi Ching, 93m:93035**
Chen, Shu Ping Necessary and sufficient conditions for the existence of positive solutions to algebraic Riccati equations with indefinite quadratic term. **93c:93023**
Collins, Emmanuel G., Jr. *see* **Žigić, Dragan; et al., 93f:93058**
Curran, Paul F. Lyapunov's matrix equation with system matrix in companion form. (English summary) **93m:93034**
Dailly, C. *see* **Smith, P. R., (93h:93007)**
Daley, S. *see* **Wang, H., (93h:93007)**
Datta, K. B. (*with* Gangopadhyay, Subrata) Coprime matrix fraction description via orthogonal structure theorem. (English summary)
De Moor, Bart L. R. On the structure and geometry of the product singular value decomposition. **93c:93024**
— *see also* **Moonen, Marc; et al.**
De Nicolao, Giuseppe (*with* Gevers, Michel) Difference and differential Riccati equations: a note on the convergence to the strong solution. **93i:93051**
— On the convergence to the strong solution of periodic Riccati equations. **93g:93035**
Dobson, Ian (*with* Lu, Liming) Computing an optimum direction in control space to avoid saddle node bifurcation and voltage collapse in electric power systems. (English summary)
Du, X. C. (*with* Brella, A.; Longchamp, R.) Fast algorithm of Chandrasekhar type for ARMA model identification. (English summary)
Duan, Guang Ren Solution to matrix equation $AV + BW = EVF$ and eigenstructure assignment for descriptor systems. **93e:93029**
Eren, Murat (*with* Higgins, Walter T.) A new algorithm for computing modified z-transforms. (English summary)
Farooq, A. (*with* Owens, David H.; Lokowandt, B.; Pfeiffer, B. M.) Model-based expert system for computer aided design of feedback controllers. (English summary) (*see* **93h:93007**)
Feng, Dagan *see* **Wang, Zhi Zhong**
Furuta, Katsuhisa *see* **Yamakita, M.; et al., (93h:93007)**
Gabasov, R. F. (*with* Gaishun, P. V.; Kirillova, F. M.) Optimal estimator for linear systems. (Russian and Lithuanian summaries) **93c:93025**
Gaishun, P. V. *see* **Gabasov, R. F.; et al., 93c:93025**
Gangopadhyay, Subrata *see* **Datta, K. B.**
Gevers, Michel *see* **De Nicolao, Giuseppe, 93i:93051** *and* **Verriest, E. I.; et al., (93g:93005)**
Glentis, George Othon (*with* Antoniou, George E.; Mentzelopoulou, Sophia E.) Determination of the transfer matrix of multidimensional-singular systems. (English summary)
Graettinger, Timothy J. (*with* Krogh, Bruce H.) On the computation of reference signal constraints for guaranteed tracking performance. (English summary) **93j:93051**
Grigoriadis, Karolos (*with* Liu, Ketao; Skelton, Robert E.) Optimizing linear controllers for finite precision synthesis using additive quantization models. (English summary) (*see* **93g:93005**)
Gu, Guoxiang (*with* Khargonekar, Pramod P.; Lee, E. Bruce; Misra, Pradeep) Finite-dimensional approximations of unstable infinite-dimensional systems. **93c:93026**
Gudmundsson, Thorkell (*with* Kenney, Charles; Laub, Alan J.) Scaling of the discrete-time algebraic Riccati equation to enhance stability of the Schur solution method. **93b:93042**
Haddad, Wassim M. *see* **Halevi, Yoram; et al.**
Halevi, Yoram (*with* Haddad, Wassim M.; Bernstein, Dennis S.) A Riccati equation approach to the singular LQG problem. (English summary)
Hersh, M. A. A robust adaptive algorithm in delta-operator formulation. (*see* **93a:93005**)
Higgins, Walter T. *see* **Eren, Murat**
Hinton, J. C. *see* **Jiang, Jing Ping; et al., (93h:93007)**
Ho, P. L. *see* **Jiang, Jing Ping; et al., (93h:93007)**
Hoshino, Y. *see* **Yamakita, M.; et al., (93h:93007)**
Ionescu, Vlad (*with* Weiss, Martin) On computing the stabilizing solution of the discrete-time Riccati equation. (English summary) **93h:93025**
Jennings, L. S. *see* **Rehbock, V.; et al., 93h:93026**
Jiang, Jing Ping (*with* Ho, P. L.; Hinton, J. C.) Parallel processing in optimal control of robot drives. (*see* **93h:93007**)
Jiang, Zhi Hua (*with* Schaufelberger, W.) Recursive computational algorithms for a set of block pulse operational matrices. (English summary)
Kailath, Thomas (*with* Sayed, A. H.) Fast algorithms for generalized displacement structures. (English summary) (*see* **93g:93006**)
Kano, Hiroyuki[1] (*with* Nishimura, Toshimitsu) Generalized existence conditions for real symmetric solutions of algebraic matrix Riccati equations. (English summary) **93i:93052**
Kenney, Charles *see* **Gudmundsson, Thorkell; et al., 93b:93042** *and* **Pandey, Pradeep; et al., 93j:93052**
Khargonekar, Pramod P. *see* **Gu, Guoxiang; et al., 93c:93026**
Kirillova, F. M. *see* **Gabasov, R. F.; et al., 93c:93025**
Komaroff, Nicholas (*with* Shahian, Bahram) Lower summation bounds for the discrete Riccati and Lyapunov equations. **93c:93027**
— Upper bounds for the solution of the discrete Riccati equation. (English summary) **93g:93036**
— Lower bounds for the solution of the discrete algebraic Lyapunov equation.
Krogh, Bruce H. *see* **Graettinger, Timothy J., 93j:93051**
Krotova, È. N. Algorithms for the numerical solution of equations of dynamic models of developing systems. (Russian. Russian summary)
Krut'ko, P. D. Algorithms for the control of the motion of dynamical systems with minimal information. (Russian) **93i:93053**
Kul'chitskiĭ, O. Yu. (*with* Mozgovoĭ, A. È.) An estimate for the rate of convergence of recurrent robust identification algorithms. (Russian. Russian summary)

Larin, V. B. *see* **Bordyug, B. A., 93i:93050**
Latchman, H. A. (*with* Norris, R. J.) Calculation of the structured singular value with a reduced number of optimization variables. (English summary)
Laub, Alan J. *see* **Gudmundsson, Thorkell; et al., 93b:93042** *and* **Pandey, Pradeep; et al., 93j:93052**
Lawrence, Dale A. (*with* Sethares, William A.; Ren, Wei) Parameter drift instability in disturbance-free adaptive systems. (English summary)
Lee, E. Bruce *see* **Gu, Guoxiang; et al., 93c:93026**
Li, Gang *see* **Verriest, E. I.; et al., (93g:93005)**
Liu, Ketao *see* **Grigoriadis, Karolos; et al., (93g:93005)**
Lokowandt, B. *see* **Farooq, A.; et al., (93h:93007)**
Longchamp, R. *see* **Du, X. C.; et al.**
Lu, Liming *see* **Dobson, Ian**
Luo, Zong Qian The matrix sign function method for solving dual Riccati equations. (Chinese. English and Chinese summaries)
Ly, Uy-Loi *see* **Chen, Ben M.; et al., 93d:93036**
Marrison, Christopher I. *see* **Stengel, Robert F.**
Medvedev, V. G. Numerical method for the optimal estimation of the initial state of linear dynamic systems. (English summary) (*see* **93e:00021**)
Mentzelopoulou, Sophia E. *see* **Glentis, George Othon; et al.**
Milman, Mark H. *see* **Spanos, J. T.; et al.**
Mingori, D. L. *see* **Spanos, J. T.; et al.**
Misra, Pradeep *see* **Gu, Guoxiang; et al., 93c:93026**
Moonen, Marc (*with* De Moor, Bart L. R.; Ramos, José; Tan, Shao Hua) A subspace identification algorithm for descriptor systems.
Morimoto, K. *see* **Yamakita, M.; et al., (93h:93007)**
Mozgovoi, A. È. *see* **Kul'chitskiĭ, O. Yu.**
Mukhopadhyay, Siddhartha *see* **Prasada Rao, Ganti; et al., (93h:93009)**
Murad, H. A. *see* **Sebakhy, O. A., (93h:93009)**
Nagy, James G. (*with* Plemmons, Robert J.) A fast algorithm for linear prediction. (English summary) (*see* **93g:93006**)
Nishimura, Toshimitsu *see* **Kano, Hiroyuki[1], 93i:93052**
Norris, R. J. *see* **Latchman, H. A.**
Obotnin, A. N. Methods for calculating potential control laws for nonlinear and time-dependent systems. (Russian. Russian summary) (*see* **93f:93004**)
Owens, David H. *see* **Rogers, Eric L., (93h:93007)** *and* **Farooq, A.; et al., (93h:93007)**
Pakshin, P. V. The asymptotic properties of linear discrete controls. I. Asymptotic solutions of an algebraic Riccati equation. (Russian. Russian summary) **93k:93044**
Pandey, Pradeep (*with* Kenney, Charles; Laub, Alan J.) Solving the algebraic Riccati equation on supercomputers. (English summary) **93j:93052**
Park, Kiheon (*with* Youla, Dante C.) Numerical calculation of the optimal three-degree-of-freedom Wiener-Hopf controller. **93e:93030**
Patra, Amit *see* **Prasada Rao, Ganti; et al., (93h:93009)**
Pavon, Michele *see* **Wimmer, Harald K., 93d:93037**
Peterka, V. *see* **Warwick, Kevin, (93h:93007)**
Pfeiffer, B. M. *see* **Farooq, A.; et al., (93h:93007)**
Pierce, D. J. Sparse matrix techniques for a sparse rank revealing QR factorization. (English summary) (*see* **93g:93006**)
Plemmons, Robert J. *see* **Nagy, James G., (93g:93006)**
Prasada Rao, Ganti (*with* Unbehauen, H.; Mukhopadhyay, Siddhartha; Patra, Amit) From calculus to algebra in models of continuous-time systems. (*see* **93h:93009**)
Pushkov, S. G. Computation of finite-dimensional realization. (Russian. English and Ukrainian summaries)
Qin, Kai Huai The theory of discrete Jacobi polynomial series forecasting control and an algorithm for it. (Chinese. English and Chinese summaries) **93j:93053**
Ramos, José *see* **Moonen, Marc; et al.**
Ran, André C. M. Unitary solutions of a class of algebraic Riccati equations and factorization. **93f:93057**
Rangarajan, R. *see* **Achuthan, P., (93g:93003)**
Rehbock, V. (*with* Teo, Kok Lay; Jennings, L. S.) A computational procedure for suboptimal robust controls. (English summary) **93h:93026**
Ren, Wei *see* **Lawrence, Dale A.; et al.**
Rogers, Eric L. (*with* Owens, David H.) Parallel algorithms for the implementation of linear repetitive systems stability tests. (English summary) (*see* **93h:93007**)
Saberi, Ali *see* **Chen, Ben M.; et al., 93d:93036**
Sayed, A. H. *see* **Kailath, Thomas, (93g:93006)**
Scattolini, Riccardo (*with* Schiavoni, Nicola) A note on multivariable generalized predictive control.
Schaufelberger, W. *see* **Jiang, Zhi Hua**
Schiavoni, Nicola *see* **Scattolini, Riccardo**
Sebakhy, O. A. (*with* Murad, H. A.) Design of restricted complexity adaptive regulators using explicit criterion minimization. (English summary) (*see* **93h:93009**)
Sethares, William A. *see* **Lawrence, Dale A.; et al.**
Shahian, Bahram *see* **Komaroff, Nicholas, 93c:93027**
Skelton, Robert E. *see* **Grigoriadis, Karolos; et al., (93g:93005)**
Smirnov, G. V. *see* **Bushenkov, V. A., 93b:93041**
Smith, P. R. (*with* Dailly, C.) Optimal filtering and Kalman filtering using MATLAB. (*see* **93h:93007**)
Spanos, J. T. (*with* Milman, Mark H.; Mingori, D. L.) A new algorithm for L_2 optimal model reduction. (English summary)
Stengel, Robert F. (*with* Marrison, Christopher I.) Robustness of solutions to a benchmark control problem. (English summary)
Tan, Shao Hua *see* **Moonen, Marc; et al.**
Teo, Kok Lay *see* **Rehbock, V.; et al., 93h:93026**
Trzaska, Z. W. The algorithm for computing nonmonic second order multivariable systems. (English summary) **93g:93037**
Tsai, Mi Ching (*with* Chen, L. W.) A numerical algorithm for inner-outer factorizations of real-rational matrices. (English summary) **93m:93035**
Unbehauen, H. *see* **Prasada Rao, Ganti; et al., (93h:93009)**
Van Dooren, Paul Upcoming numerical linear algebra issues in systems and control theory. (English summary) (*see* **93f:93005**)
Verriest, E. I. (*with* Li, Gang; Gevers, Michel) Computationally optimal implementations via polynomial operators. (English summary) (*see* **93g:93005**)
Wang, H. (*with* Daley, S.) An algorithm for tracking rapid parameter changes in unknown MIMO systems with nonlinear model uncertainties. (*see* **93h:93007**)
Wang, Zhi Zhong (*with* Feng, Dagan) Continuous-time system modelling using the weighted-parabola-overlapping numerical integration method. (English summary)
Warwick, Kevin (*with* Peterka, V.) Optimal observer solution for predictive and LQG optimal control. (English summary) (*see* **93h:93007**)
Watson, Layne T. *see* **Žigić, Dragan; et al., 93f:93058**
Weiss, Martin *see* **Ionescu, Vlad, 93h:93025**
White, Langford B. (*with* Anderson, Brian D. O.) Stationary discrete-time covariance factorization using Newton-Raphson iteration. **93g:93038**
Williamson, Darrell Design of control algorithms using finite precision arithmetic. (English summary) (*see* **93g:93005**)
Wimmer, Harald K. (*with* Pavon, Michele) A comparison theorem for matrix Riccati difference equations. (English summary) **93d:93037**
Xiao, Cheng Shan A new method for solving canonical Lyapunov matrix equations. (Chinese. English and Chinese summaries) **93h:93027**
Yamakita, M. (*with* Hoshino, Y.; Morimoto, K.; Furuta, Katsuhisa) Parallel implementation of Newton-Euler algorithm with one step ahead predictions. (*see* **93h:93007**)
Yang, Ciann Dong (*with* Yeh, Fang Bo) An efficient algorithm on optimal Hankel-norm approximation for multivariable systems. **93a:93046**
Yang, Tai Cheng *see* **Atherton, Derek P., (93h:93007)**
Yeh, Fang Bo *see* **Yang, Ciann Dong, 93a:93046**
Youla, Dante C. *see* **Park, Kiheon, 93e:93030**
Žigić, Dragan (*with* Watson, Layne T.; Collins, Emmanuel G., Jr.; Bernstein, Dennis S.) Homotopy methods for solving the optimal projection equations for the H_2 reduced order model problem. **93f:93058**

Items with secondary classifications in 93B40

Abou-Kandil, Hisham *see* **Jódar, Lucas; et al., 93a:93101**
Adachi, Norihiko *see* **Nishioka, Katsuhiro**
Akçay, Hüseyin (*with* Gu, Guoxiang; Khargonekar, Pramod P.) A class of algorithms for identification in $\mathscr{H}_\infty$: continuous-time case. (English summary) **93j:93035**
Akhrif, O. (*with* Blankenship, G. L.) Algebraic computations for design of nonlinear control systems. **93f:93062**
Apostolakis, Ioannis S. An estimation algorithm for multirate sampled digital control systems. (English summary)
Bai, Er Wei (*with* Chyung, Dong H.) Improving delay estimates derived from least-square algorithms and Padé approximations. (English summary) **93j:93036**
Balakrishnan, V. *see* **Balemi, S.; et al., (93g:93005)**
Balemi, S. (*with* Boyd, Stephen P.; Balakrishnan, V.) Computation of the maximum H_∞-norm of parameter-dependent linear systems by a branch and bound algorithm. (English summary) (*see* **93g:93005**)
Banks, H. T. Computational issues in parameter estimation and feedback control problems for partial differential equation systems. (English summary) **93j:93073**
Beck, Anatole (*with* Beck, Micah) The revenge of the linear search problem. **93f:90098**
Beck, Micah *see* **Beck, Anatole, 93f:90098**
Belhouari, A. (*with* Tissir, E.; Hmamed, A.) Stability of interval matrix polynomial in continuous and discrete cases. **93g:93062**
Benchoubane, H. (*with* Stoten, D. P.) The decentralized minimal controller synthesis algorithm. (English summary)
— *see also* **Stoten, D. P.**
Bien, Zeungnam *see* **Kim, Jin-Hoon, 93c:93039**
Billings, S. A. (*with* Jones, G. N.) Orthogonal least-squares parameter estimation algorithms for nonlinear stochastic systems. (English summary)
— *see also* **Tsang, K. M.**
Bingulac, S. (*with* VanLandingham, H. F.) A unified approach to the discretization and "continualization" of MIMO systems. (English summary) **93j:93088**
Blankenship, G. L. *see* **Akhrif, O., 93f:93062**
Bobrow, James E. (*with* Murray, Walter) An algorithm for RLS identification of parameters that vary quickly with time. (English summary)
Bobylëv, N. A. (*with* Burman, Yu. M.; Shubin, A. B.) Control algorithms with a minimal number of switchings. (Russian. Russian summary) **93h:93012**
Bondarenko, M. V. *see* **Tsypkin, Ya. Z., 93a:93037**
Bongers, Peter M. M. (*with* Bosgra, Okko H.) Normalized coprime factorizations for systems in generalized state-space form. (English summary) **93j:93033**
Bosgra, Okko H. *see* **Bongers, Peter M. M., 93j:93033**
Boţan, C. On the solution to the Riccati differential matrix equation. (English summary) **93k:34023**
Bovbel', D. O. (*with* Kharisov, V. N.) Algorithms for filtering the parameters of signals on the basis of new approximation methods. (Russian. Russian summary)
Boyd, Stephen P. *see* **Balemi, S.; et al., (93g:93005)**
Brdyś, M. A. (*with* Lok, K.) Fast integrated system optimization and parameter estimation algorithms. (*see* **93h:93007**)
Bukhalev, V. A. Recursion algorithms for recognition and estimation of the state of a dynamic object on the basis of information from measurers and indicators. I. Observation with lag. (Russian. Russian summary) **93i:93116**
— Recursion algorithms for recognition and estimation of the state of a dynamic object on the basis of information from measurers and indicators. II. Observation without lag. (Russian. Russian summary) **93m:93087**
Bunse-Gerstner, Angelika (*with* Mehrmann, Volker; Nichols, Nancy K.) Regularization of descriptor systems by derivative and proportional state feedback. **93a:93023**
— (*with* Byers, Ralph; Mehrmann, Volker) A chart of numerical methods for structured eigenvalue problems. **93b:65063**
Burger, Jacques (*with* Le Brizaut, Jean-Sébastien; Pogu, Marc) Comparison of two methods for the calculation of the gradient and of the Hessian of cost functions associated with differential systems. (English summary) **93i:49036**

Burgmeier, Peter Controllability and interval mathematics. **93c:93012**
Burman, Yu. M. *see* **Bobylëv, N. A.; et al., 93h:93012**
Byers, Ralph *see* **Bunse-Gerstner, Angelika; et al., 93b:65063**
Byun, Dae Gyu *see* **Kwon, Wook Hyun; et al., 93i:93056**
Cai, Da Yong (*with* Chu, De Lin) A new algorithm for block-diagonal decentralized control. (Chinese. English and Chinese summaries)
— *see also* **Chu, De Lin, 93j:93012** *and* **93k:93013**
Cannarsa, Piermarco (*with* Da Prato, Giuseppe; Zolésio, Jean-Paul) Riccati equations in noncylindrical domains. (*see* **93c:93006**)
Cao, Li[2] *see* **Zheng, Yu Fan, (93g:93006)**
Chai, Tian You A direct multivariable adaptive decoupling control algorithm. (Chinese. English and Chinese summaries) **93i:93133**
Chang, Fan Jên (*with* Lin, W. C.; Ch'ên, Hung Chou) Weierstrass decomposition by the standard form approach. **93d:93019**
Chen, Han Fu Stochastic adaptive control. (English summary) **93j:93005**
Ch'ên, Hung Chou *see* **Chang, Fan Jên; et al., 93d:93019**
Chen, Jie[1] *see* **Zhang, H. G.; et al., (93h:93007)**
Choi, Hanhong *see* **Kwon, Wook Hyun; et al., 93i:93056**
Chu, De Lin (*with* Cai, Da Yong) A stable computation for controllability and R-controllability related to generalized systems. (Chinese. English summary) **93j:93012**
— (*with* Cai, Da Yong) A stable algorithm for computing controllability related to "descriptor" systems. (Chinese. English summary) **93k:93013**
— A stable algorithm for computing controllability. (Chinese. English summary)
— *see also* **Cai, Da Yong**
Chung, Tae-Sang (*with* Wu, Chia Ju) A computationally efficient numerical algorithm for the minimum-time control problem of continuous systems.
Chyung, Dong H. *see* **Bai, Er Wei, 93j:93036**
Conley, William Cleland Simulation applied to a three hundred degree polynomial. (English summary) **93k:93007**
Da Prato, Giuseppe *see* **Cannarsa, Piermarco; et al., (93c:93006)**
David, Johan *see* **De Moor, Bart L. R., 93d:93090**
Davison, Edward J. *see* **Qiu, Li, 93f:93107**
De Moor, Bart L. R. (*with* David, Johan) Total linear least squares and the algebraic Riccati equation. (English summary) **93d:93090**
— *see also* **Van Overschee, P.; et al., (93g:93005)**
De Nicolao, Giuseppe Cyclomonotonicity and stabilizability properties of solutions of the difference periodic Riccati equation. (English summary) **93i:93121**
— Differential periodic Riccati equations: a note on the existence of an infinite number of periodic strong solutions. (English summary) **93h:34061**
Deskov, V. P. *see* **Gough, N. E.; et al., (93f:93005)**
Dewilde, Patrick M. *see* **Verhaegen, Michel, 93m:93095** *and* **93m:93096**
Dimirovski, G. M. *see* **Gough, N. E.; et al., (93f:93005)**
Di Ruscio, David Maximal imaginary eigenvalues in optimal systems. **93d:93043**
Drăgan, Vasile (*with* Halanay, Aristide) Global solutions for matrix Riccati differential equations via input-output operators. **93f:34032**
Duan, Guang Ren Solutions of the equation $AV + BW = VF$ and their application to eigenstructure assignment in linear systems. (English summary) **93j:93059**
Dupont, T. (*with* Glowinski, Roland; Kinton, W.; Wheeler, Mary Fanett) Mixed finite-element methods for time-dependent problems: application to control. **93h:65122**
El Ghaoui, Laurent Fast computation of the largest stability radius for a two-parameter linear system.
Eslami, Mansour Robust quadratic optimization of systems with large parameter variations. (English summary) **93i:93039**
— Set by set generation of robust stable matrices. (English summary) **93m:93068**
Evans, Robin J. *see* **Mareels, Iven M. Y.; et al.**
Fan, Michael K. H. (*with* Tits, André L.) A measure of worst-case H_∞ performance and of largest acceptable uncertainty. **93g:93030**
Fang, Chong Zhi *see* **Jin, Yi Hui; et al., 93h:93039**
Farrier, D. R. (*with* Prior-Wandesforde, A. R.) A maximum likelihood algorithm for estimating damped sinusoids. (English summary) (*see* **93j:93007**)
Feng, Gang (*with* Palaniswami, M.) A stable adaptive implementation of the internal model principle. (English summary) **93d:93078**
Feng, Xi Sheng *see* **Sun, Mao Xiang; et al.**
Fisher, D. Grant *see* **Niu, Shao Hua; et al.**
Fitzpatrick, Ben G. Approximation and control in integral equations of nonlinear viscoelasticity. **93d:73042**
Flamm, David S. (*with* Klipec, Kathy) Numerical methods for H^∞ control of distributed parameter systems. (English summary) (*see* **93i:93005**)
Fragoso, Marcelo D. (*with* de Souza, Carlos E.) Maximal solution of a certain class of periodic Riccati differential equations. **93c:34092**
Gahinet, P. (*with* Laub, Alan J.) Algebraic Riccati equations and the distance to the nearest uncontrollable pair. **93d:93028**
Gajic, Zoran *see* **Qureshi, Muhammad T., 93b:93072**
Gerasimov, O. I. (*with* Yunger, I. B.) Frequency-algebraic analysis of the absolute stability of nonlinear automatic control systems. (Russian. Russian summary) **93h:93056**
Gibbard, M. J. *see* **Stefanidis, P.; et al., 93a:93004**
Glowinski, Roland *see* **Dupont, T.; et al., 93h:65122**
Golub, Gene H. (*with* Kågström, Bo; Van Dooren, Paul) Direct block tridiagonalization of single-input single-output systems. **93b:93021**
Gough, N. E. (*with* Dimirovski, G. M.; Ting, I. H.; Deskov, V. P.) Minimal realization of a class of discrete multivariable systems based on dyadic characteristic weighting patterns. (English summary) (*see* **93f:93005**)
Gu, Guoxiang (*with* Khargonekar, Pramod P.) Linear and nonlinear algorithms for identification in $\mathscr{H}_\infty$ with error bounds. **93f:93046**
— (*with* Khargonekar, Pramod P.; Li, Yanlin) Robust convergence of two-stage nonlinear algorithms for identification in $\mathscr{H}_\infty$. **93b:93110**
— *see also* **Akçay, Hüseyin; et al., 93j:93035**
Gu, Zhong Bi *see* **Wang, Wei, 93g:93050**
Guan, Xiaohong (*with* Luh, Peter B.) A new parallel algorithm for optimal control problems of interconnected systems. (English summary) **93k:49028**
Guan, Yu Lin *see* **Sun, Mao Xiang; et al.**
Halanay, Aristide *see* **Drăgan, Vasile, 93f:34032**
Halpern, Mark E. *see* **Hill, Robin D., 93k:93045**
(Hanus, Raymond) *see* **Mathematical and intelligent models in system simulation, 93c:93005**
Hermann, Robert ★ Geometric computing science: first steps. **93a:93032**
Hersh, M. A. Adaptive algorithms for the simultaneous stabilization and decoupling of time-varying multivariable systems. (English summary) **93d:93070**
Hill, Robin D. (*with* Halpern, Mark E.) Minimum overshoot design for SISO discrete-time systems. (English summary) **93k:93045**
Hmamed, A. *see* **Belhouari, A.; et al., 93g:93062**
Hori, Noriyuki (*with* Mori, Takahiko; Nikiforuk, Peter N.) A new perspective for discrete-time models of a continuous-time system. **93c:93034**
Ito, Kazufumi (*with* Kappel, Franz) Two families of approximation schemes for delay systems. **93a:34089**
Ito, Masami[2] *see* **Watanabe, Keiji; et al., 93h:93034**
Jacobson, C. A. (*with* Nett, C. N.; Partington, Jonathan R.) Worst case system identification in l_1: optimal algorithms and error bounds. (English summary) **93j:93037**
Jepson, O. N. (*with* Rake, H.) The adjusted least squares method for identification of dynamical systems. (English summary) (*see* **93h:93009**)
Jin, Yi Hui (*with* Sun, Xi; Fang, Chong Zhi) Minimum variance control of a class of bilinear systems and its application. (Chinese. English and Chinese summaries) **93h:93039**
Jódar, Lucas (*with* Navarro, Enrique; Abou-Kandil, Hisham) Explicit solutions of coupled Riccati equations occurring in Nash games—the open-loop case. (Russian and Polish summaries) **93a:93101**
Jones, G. N. *see* **Billings, S. A.**
Jones, John, Jr. Nonlinear control theory. (*see* **93a:41001**)
Kågström, Bo *see* **Golub, Gene H.; et al., 93b:93021**
Kanellakis, A. (*with* Tzafestas, Spyros G.; Theodorou, N. J.) Computation of the stability margin of two-dimensional discrete systems. **93b:93077**
Kappel, Franz *see* **Ito, Kazufumi, 93a:34089**
(Kárný, Miroslav) *see* **Mutual impact of computing power and control theory, 93f:93005**
Keerthi, S. Sathiya *see* **Phatak, Makarand S., 93f:93115**
Keis, Igor The exponential realization of the prescribed motion by the controllable Hamiltonian system via the decomposition method. (Russian and Estonian summaries) **93e:93012**
Khargonekar, Pramod P. *see* **Gu, Guoxiang; et al., 93b:93110; 93f:93046** *and* **Akçay, Hüseyin; et al., 93j:93035**
Kharisov, V. N. *see* **Bovbel', D. O.**
Kibzun, A. I. *see* **Zabelin, S. A., 93j:93084**
Kim, Jin-Hoon (*with* Bien, Zeungnam) Some bounds of the solution of the algebraic Riccati equation. (English summary) **93e:93039**
Kinton, W. *see* **Dupont, T.; et al., 93h:65122**
Kir'yakov, V. A. Program realization of a finitely converging algorithm for the identification of parameters. (Russian. Russian summary)
Kitamori, Toshiyuki *see* **Watanabe, Keiji; et al., 93h:93034**
Klipec, Kathy *see* **Flamm, David S., (93i:93005)**
Knowles, James K. On a minimization problem associated with linear dynamical systems. **93a:93036**
Kogan, Jacob Computation of stability radius for families of bivariate polynomials. (English summary) **93m:93071**
(Kool, P.) *see* **Mathematical and intelligent models in system simulation, 93c:93005**
Kozłowski, Krzysztof New computational algorithms for a discrete Kalman filter in robot dynamics. (English, Russian and Polish summaries)
Kuntsevich, V. M. (*with* Lychak, M.) ★ Guaranteed estimates, adaptation and robustness in control systems. **93b:93004**
Kussul', N. N. Estimation of the phase state of linear dynamic objects using families of ellipsoidal sets. (Russian. English summary) **93b:93066**
Kuznetsov, K. V. *see* **Vyazgin, V. A., 93h:90082**
Kwon, Wook Hyun (*with* Choi, Hanhong; Byun, Dae Gyu; Noh, Seonbong) Recursive solution of generalized predictive control and its equivalence to receding horizon tracking control. (English summary) **93i:93056**
Lasiecka, Irena Convergence rates for the approximations of the solutions to algebraic Riccati equations with unbounded coefficients: case of analytic semigroups. (English summary) **93i:65088**
Laub, Alan J. *see* **Gahinet, P., 93d:93028**
Le Brizaut, Jean-Sébastien *see* **Burger, Jacques; et al., 93i:49036**
Lee, Allan Y. Solving constrained minimum-time robot problems using the sequential gradient restoration algorithm. (English summary)
Leondes, Cornelius T. *see* **Tekawy, Jonathan A.; et al., 93k:93089**
Leonhardt, S. A parallel algorithm for process identification. (English summary) (*see* **93h:93009**)
Lepschy, A. (*with* Viaro, Umberto) Complexity and feedback. (*see* **93a:93006**)
Li, Bo *see* **Wang, Xiu Feng, 93i:93038**
Li, Yanlin *see* **Gu, Guoxiang; et al., 93b:93110**
Lin, W. C. *see* **Chang, Fan Jên; et al., 93d:93019**
Liu, Chin Hsing Augmented decouplable outputs selection for redundantly actuated systems.
Liu, Pin (*with* Wang, Zheng Zhi[2]; Zhang, Liang Qi) The H^∞-optimal control problem in state space form. I. (Chinese. English summary) **93a:93042**
Lok, K. *see* **Brdyś, M. A., (93h:93007)**
Luh, Peter B. *see* **Guan, Xiaohong, 93k:49028**
Lychak, M. *see* **Kuntsevich, V. M., 93b:93004**
Mareels, Iven M. Y. (*with* Penfold, H. B.; Evans, Robin J.) Controlling nonlinear time-varying systems via Euler approximations.
Marino, Riccardo (*with* Tomei, Patrizio) Computer algebra for nonlinear output feedback stabilization. **93b:93100**
Mehrmann, Volker ★ The autonomous linear quadratic control problem. **93d:93004**
— *see also* **Bunse-Gerstner, Angelika; et al., 93a:93023** *and* **93b:65063**
Mori, Takahiko *see* **Hori, Noriyuki; et al., 93c:93034**

Morozan, Toader Discrete-time Riccati equations connected with quadratic control for linear systems with independent random perturbations. **93f:93143**
Murray, Walter *see* **Bobrow, James E.**
Murty, K. N. (*with* Shaw, Michael) Sensitivity analysis of nonlinear Lyapunov systems of differential equations. **93f:34109**
Navarro, Enrique *see* **Jódar, Lucas; et al., 93a:93101**
Nett, C. N. *see* **Jacobson, C. A.; et al., 93j:93037**
Nichols, Nancy K. *see* **Bunse-Gerstner, Angelika; et al., 93a:93023**
Nihtilä, M. T. Input delay systems: adaptive control and lumped approximations. (English summary) (*see* **93g:93004**)
Nikiforuk, Peter N. *see* **Hori, Noriyuki; et al., 93c:93034**
Nishioka, Katsuhiro (*with* Adachi, Norihiko) A continuation method for pole assignment by output feedback. (Japanese. English summary)
Niu, Shao Hua (*with* Fisher, D. Grant; Xiao, De Yun) An augmented UD identification algorithm.
Nobuyama, Eitaku *see* **Watanabe, Keiji; et al., 93h:93034**
Noh, Seonbong *see* **Kwon, Wook Hyun; et al., 93i:93056**
Ovseevich, A. I. (*with* Reshetnyak, Yu. N.) The asymptotic behavior of ellipsoidal estimates of regions of attainability. I. (Russian. Russian summary) **93j:93008**
Özveren, Cüneyt M. (*with* Willsky, Alan S.) Invertibility of discrete-event dynamic systems. (English summary) **93i:93087**
Palaniswami, M. *see* **Feng, Gang, 93d:93078**
Pao, Yoh-Han (*with* Phillips, Stephen M.; Sobajic, Dejan J.) Neural-net computing and the intelligent control of systems. (English summary) **93h:93046**
Papliński, A. P. *see* **Stefanidis, P.; et al., 93a:93004**
Partington, Jonathan R. *see* **Jacobson, C. A.; et al., 93j:93037**
Penfold, H. B. *see* **Mareels, Iven M. Y.; et al.**
Phatak, Makarand S. (*with* Keerthi, S. Sathiya) A homotopy approach for stabilizing single-input systems with control structure constraints. (English summary) **93f:93115**
Phillips, Stephen M. *see* **Pao, Yoh-Han; et al., 93h:93046**
Pogu, Marc *see* **Burger, Jacques; et al., 93i:49036**
Pommaret, J.-F. Intrinsic differential algebra. **93b:93029**
Prior-Wandesforde, A. R. *see* **Farrier, D. R., (93j:93007)**
Qiu, Li (*with* Davison, Edward J.) A unified approach for the stability robustness of polynomials in a convex set. (English summary) **93f:93107**
Qureshi, Muhammad T. (*with* Gajic, Zoran) A new version of the Chang transformation. **93b:93072**
Rake, H. *see* **Jepson, O. N., (93h:93009)**
Ray, Laura Ryan (*with* Stengel, Robert F.) A Monte Carlo approach to the analysis of control system robustness. (English summary)
Reshetnyak, Yu. N. *see* **Ovseevich, A. I., 93j:93008**
Roberts, S. *see* **Wilkinson, A. J.; et al., (93h:93007)**
Rotella, F. (*with* Zambettakis, I.) Generating series for analytic systems. **93f:93035**
Safonov, Michael G. *see* **Tekawy, Jonathan A.; et al., 93k:93089**
Sagitov, M. S. A modification of the Schur method for solving the matrix algebraic Riccati equation. (Russian) **93m:65115**
Sakai, Hideaki Generalized predictive self-tuning control for tracking a periodic reference signal. (English summary)
Sal'nikov, N. N. *see* **Volosov, V. V., 93i:93023**
Shaw, Michael *see* **Murty, K. N., 93f:34109**
Shubin, A. B. *see* **Bobylëv, N. A.; et al., 93h:93012**
Skelton, Robert E. (*with* Zhu, Guoming) Optimal L_∞ bounds for disturbance robustness. (English summary) **93i:93048**
Skorodinskiĭ, V. I. Iterative methods for testing frequency criteria for the absolute stability of continuous control systems. II. (Russian) **93g:93060**
Sobajic, Dejan J. *see* **Pao, Yoh-Han; et al., 93h:93046**
de Souza, Carlos E. *see* **Fragoso, Marcelo D., 93c:34092**
Starkov, K. E. Construction of observation programs for polynomial systems: new results. (Russian. Russian summary) **93m:93017**
Stefanidis, P. (*with* Papliński, A. P.; Gibbard, M. J.) ★ Numerical operations with polynomial matrices. **93a:93004**
Stengel, Robert F. *see* **Ray, Laura Ryan**
Stoten, D. P. (*with* Benchoubane, H.) The extended minimal controller synthesis algorithm. (English summary)
— *see also* **Benchoubane, H.**
Sun, Mao Xiang (*with* Wang, Shu Guang; Wu, Xue Man; Feng, Xi Sheng; Guan, Yu Lin) An algorithm for generalized predictive pole-placement feedforward control. (Chinese. English and Chinese summaries)
Sun, Xi *see* **Jin, Yi Hui; et al., 93h:93039**
Suykens, J. *see* **Van Overschee, P.; et al., (93g:93005)**
Syrmos, G. L. *see* **Syrmos, Vassilis L., 93i:93058**
Syrmos, Vassilis L. (*with* Syrmos, G. L.) Computational design techniques for reduced-order compensators. (English summary) **93i:93058**
Taylor, G. E. *see* **Wilkinson, A. J.; et al., (93h:93007)**
Taylor, P. M. *see* **Wilkinson, A. J.; et al., (93h:93007)**
Tekawy, Jonathan A. (*with* Safonov, Michael G.; Leondes, Cornelius T.) Robustness measures for systems with one-sided parameter uncertainties. (English summary) **93k:93089**
Theodorou, N. J. *see* **Kanellakis, A.; et al., 93b:93077**
Ting, I. H. *see* **Gough, N. E.; et al., (93f:93005)**
Tissir, E. *see* **Belhouari, A.; et al., 93g:93062**
Tits, André L. *see* **Fan, Michael K. H., 93g:93030**
Tkachenko, A. I. A variational treatment of dual methods for the calculation of velocity. (Russian. Russian summary) **93m:70004**
Tomei, Patrizio *see* **Marino, Riccardo, 93b:93100**
Trenëv, N. N. Some procedures for the formation of coordinated decisions in linear-fractional distributed systems. (Russian. English and Ukrainian summaries)
Truchi, C. Adaptive optics—shape control of an adaptive mirror. (English summary) (*see* **93c:93006**)
Tsang, K. M. (*with* Billings, S. A.) A prediction-error estimation algorithm for the reconstruction of linear and nonlinear continuous time models from frequency response data. (English summary)
Tsui, Chia-Chi On the solution to matrix equation $TA - FT = LC$ and its applications. (English summary) **93i:65050**
Tsypkin, Ya. Z. (*with* Bondarenko, M. V.) An optimal algorithm for identification of rapidly time-varying systems. **93a:93037**
Tyatyushkin, A. I. ★ Численные методы и программные средства оптимизации управляемых систем. (Russian. Russian summary) [Numerical methods and program means for optimization of control systems] **93i:49003**
Tzafestas, Spyros G. *see* **Kanellakis, A.; et al., 93b:93077** *and* **Mathematical and intelligent models in system simulation, 93c:93005**
Van Dooren, Paul *see* **Golub, Gene H.; et al., 93b:93021**
VanLandingham, H. F. *see* **Bingulac, S., 93j:93088**
Van Overschee, P. (*with* De Moor, Bart L. R.; Suykens, J.) Subspace algorithms for system identification and stochastic realization. (English summary) (*see* **93g:93005**)
Verhaegen, Michel Robustness of the novel MOESP realization scheme. (English summary) (*see* **93g:93005**)
— (*with* Dewilde, Patrick M.) Subspace model identification. I. The output-error state-space model identification class of algorithms. (English summary) **93m:93095**
— (*with* Dewilde, Patrick M.) Subspace model identification. II. Analysis of the elementary output-error state-space model identification algorithm. (English summary) **93m:93096**
Viaro, Umberto *see* **Lepschy, A., (93a:93006)**
Volosov, V. V. (*with* Sal'nikov, N. N.) An observer for a class of nonlinear discrete control objects. (Russian. Russian summary) **93i:93023**
Vyazgin, V. A. (*with* Kuznetsov, K. V.) Control in multicriterial choice algorithms. (Russian. Russian summary) **93h:90082**
Wang, Jian Qi (*with* Wang, Shien Yu) Approximation of nonlinear functionals via general orthogonal polynomials and application to control problems. (English summary) **93e:93015**
Wang, Shien Yu *see* **Wang, Jian Qi, 93e:93015**
Wang, Shu Guang *see* **Sun, Mao Xiang; et al.**
Wang, Wei (*with* Gu, Zhong Bi) A self-adaptive generalized predictive control algorithm for nonlinear systems. (Chinese. English and Chinese summaries) **93g:93050**
Wang, Xing Tao (*with* Xing, Ji Xiang) A new algorithm for optimal control of time delay systems via block-pulse functions. (Chinese. English and Chinese summaries)
Wang, Xiu Feng (*with* Li, Bo) Identification of time-varying bilinear systems via shifted Legendre polynomials. (Chinese. English and Chinese summaries) **93i:93038**
Wang, Ying Ming A fast algorithm for the minimum weighted sum of absolute errors and regressive identification. (Chinese. Chinese summary)
Wang, Zheng Zhi[2] *see* **Liu, Pin; et al., 93a:93042**
(Warwick, Kevin) *see* **Mutual impact of computing power and control theory, 93f:93005**
Watanabe, Keiji (*with* Nobuyama, Eitaku; Kitamori, Toshiyuki; Ito, Masami[2]) A new algorithm for finite spectrum assignment of single-input systems with time delay. (English summary) **93h:93034**
Wheeler, Mary Fanett *see* **Dupont, T.; et al., 93h:65122**
Wilkinson, A. J. (*with* Roberts, S.; Taylor, P. M.; Taylor, G. E.) The application of recursive identification based on delta operators. (English summary) (*see* **93h:93007**)
Willsky, Alan S. *see* **Özveren, Cüneyt M., 93i:93087**
Wimmer, Harald K. Monotonicity and maximality of solutions of discrete-time algebraic Riccati equations. **93b:93068**
Wu, Chia Ju *see* **Chung, Tae-Sang**
Wu, Xue Man *see* **Sun, Mao Xiang; et al.**
Xiao, De Yun *see* **Niu, Shao Hua; et al.**
Xing, Ji Xiang *see* **Wang, Xing Tao**
Ye, Qing Kai Solving the linear equation $AX + XB = -C$ via the complex Schur form. (Chinese. English and Chinese summaries) **93i:15021**
Yunger, I. B. *see* **Gerasimov, O. I., 93h:93056**
Zabelin, S. A. (*with* Kibzun, A. I.) Control of a linear scalar fuzzy system. (Russian. Russian summary) **93j:93084**
Zambettakis, I. *see* **Rotella, F., 93f:93035**
Zhang, H. G. (*with* Chen, Jie[1]; Zhang, Hong Yue) A recursive identification algorithm for estimating abrupt parameter changes. (*see* **93h:93007**)
Zhang, Hong Yue *see* **Zhang, H. G.; et al., (93h:93007)**
Zhang, Liang Qi *see* **Liu, Pin; et al., 93a:93042**
Zheng, Yu Fan (*with* Cao, Li[2]) The rankings and relevant invariants of control systems. (English summary) (*see* **93g:93006**)
Zhu, Guoming *see* **Skelton, Robert E., 93i:93048**
Zimmer, Gerta A new algorithm for approximating the state of nonlinear systems. (English summary) **93j:93072**
Zolésio, Jean-Paul *see* **Cannarsa, Piermarco; et al., (93c:93006)**

Items listed otherwise than by author

Brussels ★ Mathematical and intelligent models in system simulation. I, II. **93c:93005**
IFAC Workshop:
Mutual Impact of Computing Power and Control Theory ★ Mutual impact of computing power and control theory. **93f:93005**
Mathematical and intelligent models in system simulation ★ Mathematical and intelligent models in system simulation. I, II. **93c:93005**
Mutual impact of computing power and control theory ★ Mutual impact of computing power and control theory. **93f:93005**
Prague ★ Mutual impact of computing power and control theory. **93f:93005**
Symposium:
Mathematical and Intelligent Models in System Simulation ★ Mathematical and intelligent models in system simulation. I, II. **93c:93005**

93B50 Synthesis problems

Antonov, V. K. A method for the synthesis of linear regulators with given time-optimality and minimum condition for the oscillation of transient processes. (Russian. Russian summary)

Antsaklis, Panos J. *see* **Gao, Zhiqiang, 93e:93031**

Arvanitis, K. G. (*with* Paraskevopoulos, P. N.) Uniform exact model matching for a class of linear time-varying analytic systems. (English summary) **93i:93054**

Baird, C. Robert *see* **Li, X.**

Bakan, G. M. Synthesizing nonlinear control systems optimal with respect to an error- and error derivative-dependent functional. (Russian. English, Russian and Ukrainian summaries) **93f:93059**

Baňka, S. Multipurpose controller design in multivariable stochastic control systems. (English summary)

Belan, V. V. *see* **Ryzhkov, M. I.; et al.**

Bernstein, Dennis S. *see* **Collins, Emmanuel G., Jr.; et al.** *and* **Halevi, Yoram; et al.**

Boichuk, L. M. (*with* Savenkov, A. I.; Yakovlev, V. P.; Yatsenko, V. A.; Yaremenko, N. P.) Synthesizing an optimal control for a class of mechanical systems (rolling stock) and stabilizing its dynamics. (Russian. English, Russian and Ukrainian summaries) **93f:93060**

Borne, Pierre *see* **Radhy, Nour-Eddine, (93g:93004)**

Bryson, Arthur E., Jr. *see* **Mills, Raymond A.**

Chen, Ming Shyan *see* **Tsai, Jason S. H.; et al., 93g:93039**

Cheng, Chiu Pin *see* **Li, Tzuu Hseng S.; et al.**

Chernous'ko, F. L. Design of a control of a nonlinear dynamical system. (Russian. Russian summary) **93h:93028**

Collins, Emmanuel G., Jr. (*with* King, James A.; Bernstein, Dennis S.) Application of maximum entropy/optimal projection design synthesis to a benchmark problem. (English summary)

Decrocq, B. B. *see* **Shieh, Leang San; et al.**

Deodhare, Girish (*with* Vidyasagar, M.) Linear control synthesis and infinite linear programming. (*see* **93g:93003**)

Drogovoz, A. M. Design of systems in the operation of which resonance energy is used. (Russian. Russian summary)

Fa, Jing Huai (*with* Yang, Xiao Jun; Zheng, Ying Ping) Formulas for a class of controllable and observable sublanguages larger than the supremal controllable and normal sublanguage. (English summary) **93i:93055**

Freudenberg, J. S. Algebraic versus analytic design limitations imposed by ill-conditioned plants. (English summary)

Gaiduk, A. R. Analytical synthesis of controls for nonlinear objects of a certain class. (Russian. Russian summary)

Gao, Zhiqiang (*with* Antsaklis, Panos J.) Reconfigurable control system design via perfect model following. (English summary) **93e:93031**

Georgiou, Christos G. (*with* Krikelis, N. J.) Constrained regulation design of linear discrete-time descriptor systems. (English summary)

Haddad, Wassim M. *see* **Halevi, Yoram; et al.**

Halevi, Yoram (*with* Bernstein, Dennis S.; Haddad, Wassim M.) On stable full-order and reduced-order LQG controllers. (English summary)

Havlena, Vladimír Simple predictive LQ controller design. (English summary) (*see* **93c:93003**)

Huang, Hsiao Ping (*with* Wang, Gow Bin) Deadtime compensation for nonlinear processes with disturbances. (English summary)

Hunt, K. J. Polynomial LQ synthesis for self-tuning control. (English summary) (*see* **93c:93003**)

Imai, Hiroshi Simultaneous recovery of loop transfer property and disturbance attenuation property by high gain observer. (English summary) **93m:93036**

Ionescu, Vlad (*with* Weiss, Martin) The l^2-control problem for time-varying discrete systems. (English summary) **93f:93061**

Kanellakopoulos, I. (*with* Kokotović, P. V.; Morse, A. Stephen) Adaptive output-feedback control of systems with output nonlinearities. (English summary) **93m:93037**

Khargonekar, Pramod P. *see* **Krause, James M.; et al., 93b:93043**

King, James A. *see* **Collins, Emmanuel G., Jr.; et al.**

Kokotović, P. V. *see* **Kanellakopoulos, I.; et al., 93m:93037**

Koshlyakov, V. N. (*with* Novitskiĭ, V. V.; Onishchenko, S. M.) Analytic synthesis of controllable gyroscopic and navigational systems. (Russian. Russian summary) (*see* **93f:00007**)

Kotta, Ülle Model matching of nonlinear discrete time systems via dynamic state feedback. (English, Russian and Estonian summaries) **93h:93029**

Koumboulis, F. N. *see* **Paraskevopoulos, P. N., 93b:93045**

Krajewski, Wiesław (*with* Lepschy, A.; Mian, G. A.; Viaro, Umberto) Optimality conditions in multivariable L_2 model reduction. (English summary)

Krause, James M. (*with* Khargonekar, Pramod P.; Stein, Gunter) Robust adaptive control: stability and asymptotic performance. **93b:93043**

Krener, Arthur J. The construction of optimal linear and nonlinear regulators. **93c:93028**

Krikelis, N. J. *see* **Georgiou, Christos G.**

K'ung, Fan Chū *see* **Tsai, Jason S. H.; et al., 93g:93039**

Lebedev, A. L. *see* **Vorokhobko, Yu. A.**

Lepschy, A. *see* **Krajewski, Wiesław; et al.**

Levkov, S. P. The solvability of the problem of synthesizing a regulator in a closed linear system. (Russian. English summary) **93b:93044**

Li, Tzuu Hseng S. (*with* Cheng, Chiu Pin; Sun, Yū I) Model-following control of linear proper nonminimum-phase systems. (English summary)

Li, X. (*with* Baird, C. Robert) A disturbance rejection self-tuning controller for a class of MIMO nonminimum phase systems. (English summary)

Mian, G. A. *see* **Krajewski, Wiesław; et al.**

Mills, Raymond A. (*with* Bryson, Arthur E., Jr.) Parameter-robust control design using a minimax method. (English summary)

Morse, A. Stephen *see* **Kanellakopoulos, I.; et al., 93m:93037**

Novitskiĭ, V. V. *see* **Koshlyakov, V. N.; et al., (93f:00007)**

Onishchenko, S. M. *see* **Koshlyakov, V. N.; et al., (93f:00007)**

Pak, H. A. (*with* Shieh, Rowmau) On MIMO optimal preview tracking control for known trajectory models. (English summary)

Paraskevopoulos, P. N. (*with* Koumboulis, F. N.) A new approach to the decoupling problem of linear time-invariant systems. **93b:93045**

— *see also* **Arvanitis, K. G., 93i:93054**

Perevozchikov, A. G. *see* **Zavriev, S. K., 93m:93038**

Radhy, Nour-Eddine (*with* Borne, Pierre) Nonlinear continuous systems: synthesis under convex constraints. (English summary) (*see* **93g:93004**)

Radievskiĭ, A. E. Structural design in the presence of constraints. (Russian. Russian summary)

Rhee, Ihnseok (*with* Speyer, Jason L.) Application of a game-theoretic controller to a benchmark problem. (English summary)

Rodionova, A. G. On the multivalued local synthesis of a linear system in the critical case. (Russian. Russian summary) (*see* **93m:00031**)

Ryzhkov, M. I. (*with* Tunik, A. A.; Belan, V. V.; Sokol, S. A.) Synthesis of optimal digital stabilization systems with higher-order extrapolators. (Russian. Russian summary)

Savenkov, A. I. *see* **Boichuk, L. M.; et al., 93f:93060**

Shieh, Leang San (*with* Decrocq, B. B.; Zhang, Jian Liang) Optimal digital redesign of cascaded analogue controllers. (English summary)

Shieh, Rowmau *see* **Pak, H. A.**

Skvortsov, L. M. Synthesis of linear systems by the method of polynomial equations. (Russian. Russian summary)

Sokol, S. A. *see* **Ryzhkov, M. I.; et al.**

Speyer, Jason L. *see* **Rhee, Ihnseok**

Stein, Gunter *see* **Krause, James M.; et al., 93b:93043**

Stepan'yants, G. A. The direct Lyapunov method and the control of dynamical systems on smooth orientable manifolds. (Russian) **93a:93047**

Sun, Yū I *see* **Li, Tzuu Hseng S.; et al.**

Tsai, Jason S. H. (*with* Chen, Ming Shyan; K'ung, Fan Chū) Optimal design and optimal digital redesign for continuous-time input time-delay systems. (English summary) **93g:93039**

Tseng, H. Chris Error-feedback servomechanism in nonlinear systems. **93b:93046**

Tsypkin, Ya. Z. Optimal discrete systems for the control of non-minimal-phase objects. (Russian) **93d:93038**

Tunik, A. A. *see* **Ryzhkov, M. I.; et al.**

Viaro, Umberto *see* **Krajewski, Wiesław; et al.**

Vidyasagar, M. *see* **Deodhare, Girish, (93g:93003)**

Volgin, L. N. Exact model-matching conditions for a minimal-phase object. (Russian. English, Russian and Ukrainian summaries) **93h:93030**

Vorokhobko, Yu. A. (*with* Lebedev, A. L.) Theory of constructing optimal controllers in oscillatory systems under conditions of incomplete information. (Russian)

Voronov, A. A. Design of minimal modal controllers acting according to outputs. (Russian. Russian summary)

Wang, Gow Bin *see* **Huang, Hsiao Ping**

Weiss, Martin *see* **Ionescu, Vlad, 93f:93061**

Yakovlev, V. P. *see* **Boichuk, L. M.; et al., 93f:93060**

Yakovleva, L. M. Construction of a nonlinear controller for platform-free inertial navigational systems. (Russian. Russian summary)

Yang, Xiao Jun *see* **Fa, Jing Huai; et al., 93i:93055**

Yaremenko, N. P. *see* **Boichuk, L. M.; et al., 93f:93060**

Yatsenko, V. A. *see* **Boichuk, L. M.; et al., 93f:93060**

Zavriev, S. K. (*with* Perevozchikov, A. G.) Stochastic generalized gradient methods in problems of the design of dynamical systems. (Russian. Russian summary) **93m:93038**

Zhang, Jian Liang *see* **Shieh, Leang San; et al.**

Zheng, Ying Ping *see* **Fa, Jing Huai; et al., 93i:93055**

Items with secondary classifications in 93B50

Al'sevich, V. V. Synthesis of optimal regulator for stationary delay systems. (*see* **93e:00021**)

(Bensoussan, Alain) *see* **Analysis and optimization of systems: state and frequency domain approaches for infinite-dimensional systems, 93i:93005**

Borisenko, I. I. Synthesis of multidimensional stochastic system controls by means of decomposition. (Russian) **93f:93008**

Bossart, Theodore C. *see* **Singh, Sahjendra N., 93m:93026**

Brave, Yitzhak (*with* Heymann, Michael) On optimal attraction in discrete-event processes. (English summary) **93j:93124**

Bryant, G. F. *see* **Yeung, L. F., 93i:93061**

Chang, Wen Jer (*with* Chung, Hung Yüan) Upper bound covariance control of discrete perturbed systems. (English summary) **93j:93137**

Chao, K. H. *see* **Liao, Ts'ung Ming**

Chung, Hung Yüan *see* **Chang, Wen Jer, 93j:93137**

Conte, Giuseppe (*with* Perdon, Anna-Maria) Robust disturbance decoupling problem for parameter dependent families of linear systems. (English summary)

(Curtain, Ruth F.) *see* **Analysis and optimization of systems: state and frequency domain approaches for infinite-dimensional systems, 93i:93005**

Dahleh, Munther A. (*with* Khammash, Mustafa H.) Controller design for plants with structured uncertainty. (English summary) **93j:93040**

De Nicolao, Giuseppe (*with* Gevers, Michel) Difference and differential Riccati equations: a note on the convergence to the strong solution. **93i:93051**

Desoer, Charles A. *see* **Sheikholeslam, Shahab, 93m:93056**

(Fairbairn, N. A.) *see* **Zhang, Han Quan**

Gevers, Michel *see* **De Nicolao, Giuseppe, 93i:93051**

Glover, Keith *see* **McFarlane, Duncan, 93d:93032**

(Grimble, M. J.) *see* **Zhang, Han Quan**

Haussmann, U. G. Synthesis of optimal controls. (*see* **93d:93009**)

Helmicki, A. J. (*with* Jacobson, C. A.; Nett, C. N.) On zero-order hold equivalents of distributed parameter systems. **93a:93062a**

— (*with* Jacobson, C. A.; Nett, C. N.) Correction to: "On zero-order hold equivalents of distributed parameter systems". **93a:93062b**

Heymann, Michael *see* **Brave, Yitzhak, 93j:93124**

Hill, David J. *see* **Wen, Changyun, 93j:93082**

Hmamed, A. *see* **Tissir, E., 93e:93053**

Jacobson, C. A. *see* **Helmicki, A. J.; et al., 93a:93062a** *and* **93a:93062b**

Jiang, Zhi Hua (*with* Schaufelberger, W.) ★ Block pulse functions and their applications in control systems. **93d:93003**

Khammash, Mustafa H. *see* **Dahleh, Munther A., 93j:93040**

Knysh, B. A. Synthesis of an optimal controller under conditions of active noise. (Russian. English and Russian summaries) **93j:90137**
Krasovskiĭ, A. A. Problems of qualitative and analytical optimal control theory. (Russian. Russian summary)
Kurzhanskiĭ, A. B. (*with* Vályi, I.) Ellipsoidal techniques for dynamic systems: the problem of control synthesis. **93a:93012**
Larin, V. B. Optimization in a Hardy space and a problem of parametrization of controllers (a survey). (Russian. English and Ukrainian summaries) **93g:93049**
Legen'kiĭ, V. I. A group-theoretic algorithm for solving problems of optimal control synthesis. (Russian. Russian summary) **93d:49044**
— Symmetries and the reduction problem in the design of optimal systems. (Russian. Russian summary)
Liao, Ts'ung Ming (*with* Chao, K. H.) On the design of an optimal automatic generation controller for interconnected power systems. (English summary)
(Lions, Jacques-Louis) *see* **Analysis and optimization of systems: state and frequency domain approaches for infinite-dimensional systems, 93i:93005**
McFarlane, Duncan (*with* Glover, Keith) A loop shaping design procedure using H_∞ synthesis. **93d:93032**
Naumenko, K. I. Design of a system for the control of the orientation of a rigid body. (Russian. Russian summary) (*see* **93m:00038**)
Nett, C. N. *see* **Helmicki, A. J.; et al., 93a:93062a** *and* **93a:93062b**
Patel, Y. (*with* Patton, Ron J.) Design of robust multirate feedback control using eigenstructure assignment. (English summary) (*see* **93g:93004**)
Patton, Ron J. *see* **Patel, Y., (93g:93004)** *and* **Spurgeon, S. K., (93g:93004)**
Perdon, Anna-Maria *see* **Conte, Giuseppe**
Rozenvasser, E. N. Determination of the characteristics of multistage digital control systems. (Russian) **93i:93083**
Schaufelberger, W. *see* **Jiang, Zhi Hua, 93d:93003**
Shaked, U. *see* **Yaesh, I., 93f:93054**
Sheikholeslam, Shahab (*with* Desoer, Charles A.) Indirect adaptive control of a class of interconnected nonlinear dynamical systems. (English summary) **93m:93056**
Shi, Guo Jun (*with* Zou, Yun; Yang, Cheng Wu) An algebraic approach to robust H_∞ control via state feedback. (English summary) **93i:93047**
Singh, Sahjendra N. (*with* Bossart, Theodore C.) Exact feedback linearization and control of space station using CMG. (English summary) **93m:93026**
Spurgeon, S. K. (*with* Patton, Ron J.) Eigenstructure assignment techniques applied to the variable structure control system (VSCS) design problem. (English summary) (*see* **93g:93004**)
Tissir, E. (*with* Hmamed, A.) Further results on the stabilization of time delay systems containing saturating actuators. **93e:93053**
Toivonen, H. T. Sampled-data H_∞ optimal control of time-varying systems. **93c:93036**
Vályi, I. *see* **Kurzhanskiĭ, A. B., 93a:93012**
Voronin, A. N. ★ Многокритериальный синтез динамических систем. (Russian. Russian summary) [Multicriterial synthesis of dynamical systems] **93j:90005**
Wen, Changyun (*with* Hill, David J.) Global boundedness of discrete-time adaptive control just using estimator projection. (English summary) **93j:93082**
Willems, Jan C. Feedback in a behavioral setting. **93i:93025**
Yaesh, I. (*with* Shaked, U.) H_∞-optimal one-step-ahead output feedback control of discrete-time systems. (English summary) **93f:93054**
Yang, Cheng Wu *see* **Shi, Guo Jun; et al., 93i:93047** *and* **Zou, Yun, 93k:93022**
Yeung, L. F. (*with* Bryant, G. F.) The *L*-dominance concept and its applications to multivariable system designs. (English summary) **93i:93061**
Zhang, Han Quan Comment on: "H_∞ robust controller for self-tuning control applications. I, II, III" [Internat. J. Control **46** (1987), no. 4, 1429–1444; ibid. **46** (1987), no. 5, 1819–1840; ibid. **52** (1990), no. 1, 15–36] by M. J. Grimble and N. A. Fairbairn. (English summary)
Zou, Yun (*with* Yang, Cheng Wu) Regular state observers for disturbance decoupling of singular systems. (Chinese. English and Chinese summaries) **93k:93022**
— *see also* **Shi, Guo Jun; et al., 93i:93047**

Items listed otherwise than by author

Analysis and optimization of systems: state and frequency domain approaches for infinite-dimensional systems ★ Analysis and optimization of systems: state and frequency domain approaches for infinite-dimensional systems. **93i:93005**
Conference:
Analysis and Optimization of Systems ★ Analysis and optimization of systems: state and frequency domain approaches for infinite-dimensional systems. **93i:93005**
Lecture Notes in Control and Information Sciences ★ Analysis and optimization of systems: state and frequency domain approaches for infinite-dimensional systems. **93i:93005**
Sophia-Antipolis ★ Analysis and optimization of systems: state and frequency domain approaches for infinite-dimensional systems. **93i:93005**

93B51 Design techniques (robust design, computer-aided design, etc.)

Ahlén, Anders *see* **Sternad, Mikael, 93m:93039**
Akhrif, O. (*with* Blankenship, G. L.) Algebraic computations for design of nonlinear control systems. **93f:93062**
Aldeen, M. *see* **Crusca, F., (93h:93007)**
Anderson, Brian D. O. (*with* Li, Gang; Gevers, Michel) Optimal FWL design of state-space digital systems with weighted sensitivity minimization and sparseness consideration. (English summary) (*see* **93g:93005**)
Antoniou, George E. *see* **Friedland, Bernard; et al.**
Arvanitis, K. G. *see* **Paraskevopoulos, P. N., 93k:93046**
Benchoubane, H. *see* **Stoten, D. P.**
Berckmans, Daniel *see* **De Moor, Bart L. R.; et al.**
Blankenship, G. L. *see* **Akhrif, O., 93f:93062**
Borairi, M. *see* **Porter, Brian**
Bryson, Arthur E., Jr. *see* **El Ghaoui, Laurent; et al., 93f:93063**
Byun, Dae Gyu *see* **Kwon, Wook Hyun; et al., 93i:93056**
Cameron, R. G. On interaction indicators for multivariable systems. (English summary) **93d:93039**
Carrier, Alain *see* **El Ghaoui, Laurent; et al., 93f:93063**
Casavola, Alessandro (*with* Mosca, Edoardo) Polynomial LQG regulator design for general system configurations. (English summary)
Castelan, Eugênio B. *see* **Hennet, Jean-Claude, (93g:93004)**
Chang, Hsiang *see* **Ch'ên, I Ch'ên**
Chen, Ben M. (*with* Saberi, Ali; Sannuti, Peddapullaiah) Necessary and sufficient conditions for a non-minimum phase plant to have a recoverable target loop—a stable compensator design for LTR. **93d:93040**
— (*with* Saberi, Ali; Sannuti, Peddapullaiah) Loop transfer recovery for general nonminimum phase non-strictly proper systems. I. Analysis. **93e:93032**
— (*with* Saberi, Ali; Sannuti, Peddapullaiah) Loop transfer recovery for general nonminimum phase non-strictly proper systems. II. Design. **93e:93033**
Ch'ên, I Ch'ên (*with* Chang, Hsiang) Output tracking design of affine nonlinear plant via variable structure system. (English summary)
Chen, Ye-Hwa *see* **Han, M. C., 93a:93048**
Choi, Hanhong *see* **Kwon, Wook Hyun; et al., 93i:93056**
Crusca, F. (*with* Aldeen, M.) A controller design method for large-scale systems in the frequency domain. (English summary) (*see* **93h:93007**)
Cui, Xianzhong (*with* Shin, Kang G.) Design of a general purpose MIMO predictor with neural networks. (English summary) (*see* **93g:93004**)
Curtain, Ruth F. Finite-dimensional robust controller designs for distributed parameter systems: a survey. (*see* **93f:93006**)
David, Johan *see* **De Moor, Bart L. R.; et al.**
Demircioğlu, H. (*with* Gawthrop, P. J.) Multivariable continuous-time generalized predictive control (MCGPC).
De Moor, Bart L. R. (*with* David, Johan; Vandewalle, Joos; De Moor, Maarten; Berckmans, Daniel) Trade-offs in linear control system design: a practical example. (English summary)
De Moor, Maarten *see* **De Moor, Bart L. R.; et al.**
Deodhare, Girish (*with* Vidyasagar, M.) Control system design via infinite linear programming. **93g:93040**
Ding, Feng (*with* Xie, Xin Min) A design for robust observer-controllers. (Chinese. English and Chinese summaries)
El Ghaoui, Laurent (*with* Carrier, Alain; Bryson, Arthur E., Jr.) Linear quadratic minimax controllers. **93f:93063**
Fasol, K. H. (*with* Gehre, H. G.) Order reduction, model approximation, and controller design. A survey on some known methods and recommendation of a new approach. (English summary) (*see* **93b:93006**)
Fel'dman, M. A. (*with* Shimansky, Yu. P.) Optimal control system based on a neural network. (*see* **93j:92001b**)
Fendick, Kerry W. (*with* Rodrigues, Manoel A.; Weiss, Alan) Analysis of a rate-based feedback control strategy for long haul data transport. (English summary)
Fêng, I Kang (*with* Ts'ai, Shu Ch'uan; Kuo, Tê Shêng) Robust observer design for nonlinear uncertain systems with LQ regulators. (English summary)
Friedland, Bernard (*with* Mentzelopoulou, Sophia E.; Antoniou, George E.) On a property of compensators designed by the separation principle. (English summary)
Fujii, Takao (*with* Tsujino, Taro) An inverse LQ based approach to the design of robust tracking controllers for linear uncertain systems. (English summary) (*see* **93g:93005**)
Funahashi, Yasuyuki (*with* Katoh, Hisao) Input/output deadbeat control. (English summary) **93f:93064**
— (*with* Katoh, Hisao) Robust-tracking deadbeat control.
Gawthrop, P. J. *see* **Demircioğlu, H.**
Gehre, H. G. *see* **Fasol, K. H., (93b:93006)**
Gevers, Michel *see* **Anderson, Brian D. O.; et al., (93g:93005)**
Halpern, Mark E. *see* **Hill, Robin D., 93k:93045**
Han, M. C. (*with* Chen, Ye-Hwa) Polynomial robust control design for uncertain systems. **93a:93048**
Hauser, John E. (*with* Sastry, S. Shankar; Meyer, George) Nonlinear control design for slightly nonminimum phase systems: application to V/STOL aircraft.
Hennet, Jean-Claude (*with* Castelan, Eugênio B.) A unified framework for linear constrained regulation problems. (English summary) (*see* **93g:93004**)
Hill, Robin D. (*with* Halpern, Mark E.) Minimum overshoot design for SISO discrete-time systems. (English summary) **93k:93045**
Ikeda, Masao Inseparability of modeling and controller design. (Japanese)
Inaba, Hiroshi *see* **Otsuka, Naohisa**
Ishijima, Shintaro Controller design based on the system decomposition. **93c:93029**
Karlov, V. I. Combined optimization of observation and control processes. (Russian) **93e:93034**
Kasenally, E. M. *see* **Limebeer, David J. N.; et al.**
Katoh, Hisao *see* **Funahashi, Yasuyuki, 93f:93064**
Kotta, Ülle Model matching of nonlinear single-input single-output discrete-time systems: formal and local solutions. (Russian and Estonian summaries) **93a:93049**
Koumboulis, F. N. *see* **Paraskevopoulos, P. N.; et al., 93a:93050**
Kuo, Tê Shêng *see* **Fêng, I Kang; et al.**
Kwon, Wook Hyun (*with* Choi, Hanhong; Byun, Dae Gyu; Noh, Seonbong) Recursive solution of generalized predictive control and its equivalence to receding horizon tracking control. (English summary) **93i:93056**
Li, Gang *see* **Anderson, Brian D. O.; et al., (93g:93005)**
Limebeer, David J. N. (*with* Kasenally, E. M.; Perkins, J. D.) On the design of robust two degree of freedom controllers. (English summary)
Lin, Chih Min (*with* Tu, Maan Huang) Synthesis of deadbeat controllers with minimum control input and finite-step control input. (English summary)
Lin, J. Y. (*with* Mingori, D. L.) Linear-quadratic-Gaussian synthesis with reduced parameter sensitivity. (English summary) **93j:93054**
Liu, G. P. Input space and output performance in the frequency domain for critical systems. (English summary)
Liu, Zhen *see* **Shieh, Leang San; et al., 93a:93051**
Masubuchi, M. *see* **Ohtani, T., (93g:93004)**

Mentzelopoulou, Sophia E. *see* **Friedland, Bernard; et al.**
Meyer, George *see* **Hauser, John E.; et al.**
Mingori, D. L. *see* **Lin, J. Y., 93j:93054**
Mizukami, Koichi (*with* Xu, Hua) Closed-loop Stackelberg strategies for linear-quadratic descriptor systems.
Moore, John Barratt *see* **Yan, Wei Yong**
Mosca, Edoardo (*with* Zhang, Jing Xin) Stable redesign of predictive control. (English summary)
— *see also* **Casavola, Alessandro**
Mote, C. D., Jr. *see* **Yang, B., (93e:73030)**
Noh, Seonbong *see* **Kwon, Wook Hyun; et al., 93i:93056**
Ohtani, T. (*with* Masubuchi, M.) A new design method of nonlinear dynamic compensator. (English summary) (*see* **93g:93004**)
Otsuka, Naohisa (*with* Inaba, Hiroshi) Erratum: "Block decoupling by incomplete state feedback for linear multivariable systems" [Internat. J. Systems Sci. **22** (1991), no. 8, 1419–1437; MR 92d:93064].
Panagiotakis, G. E. *see* **Paraskevopoulos, P. N.; et al., 93a:93050**
Paraskevopoulos, P. N. (*with* Arvanitis, K. G.) Output feedback uniform decoupling problem of linear time-varying analytic systems. (English summary) **93k:93046**
— (*with* Koumboulis, F. N.; Tzierakis, K. G.; Panagiotakis, G. E.) Observer design for generalized state space systems with unknown inputs. **93a:93050**
Pavlov, V. V. *see* **Volkovich, V. V.**
Perkins, J. D. *see* **Limebeer, David J. N.; et al.**
Porter, Brian (*with* Borairi, M.) Genetic design of linear multivariable feedback control systems using eigenstructure assignment. (English summary)
Rajgopal, K. *see* **Sivaramakumar, G. R., (93g:93003)**
Rodrigues, Manoel A. *see* **Fendick, Kerry W.; et al.**
Rutland, N. K. Illustration of a new principle of design: vehicle speed control.
Saberi, Ali *see* **Chen, Ben M.; et al., 93d:93040; 93e:93032** *and* **93e:93033**
Sannuti, Peddapullaiah *see* **Chen, Ben M.; et al., 93d:93040; 93e:93032** *and* **93e:93033**
Sastry, S. Shankar *see* **Hauser, John E.; et al.**
Scattolini, Riccardo Multi-rate self-tuning predictive controller for multi-variable systems. (English summary)
Shamma, Jeff S. The necessity of the small-gain theorem for time-varying and nonlinear systems. **93b:93047**
Shen, Zhao Han *see* **Wu, Guang Mou; et al.**
Shieh, Leang San (*with* Liu, Zhen; Sunkel, John W.) Optimal uniform-damping ratio controller for sequential design of multivariable systems. **93a:93051**
Shimansky, Yu. P. *see* **Fel'dman, M. A., (93j:92001b)**
Shin, Kang G. *see* **Cui, Xianzhong, (93g:93004)**
Sivaramakumar, G. R. (*with* Rajgopal, K.) Multiple model matching and control system design. (English summary) (*see* **93g:93003**)
Sonnevend, G. Application of analytic centers to feedback design for systems with uncertainties. (English summary) **93i:93057**
Sreenath, N. Nonlinear control of planar multibody systems in shape space. (English summary) **93f:93065**
Sternad, Mikael (*with* Ahlén, Anders) A novel derivation methodology for polynomial-LQ controller design. (English summary) **93m:93039**
Stoten, D. P. (*with* Benchoubane, H.) The extended minimal controller synthesis algorithm. (English summary)
Subrahmanyam, M. B. Optimal disturbance rejection and performance robustness in linear systems. **93a:93052**
Sunkel, John W. *see* **Shieh, Leang San; et al., 93a:93051**
Syrmos, G. L. *see* **Syrmos, Vassilis L., 93i:93058**
Syrmos, Vassilis L. (*with* Syrmos, G. L.) Computational design techniques for reduced-order compensators. (English summary) **93i:93058**
Takagi, Yasuo A modeling and control system design theory for nonlinear systems. (Japanese)
Ts'ai, Shu Ch'uan *see* **Fêng, I Kang; et al.**
Tsujino, Taro *see* **Fujii, Takao, (93g:93005)**
Tu, Maan Huang *see* **Lin, Chih Min**
Tzierakis, K. G. *see* **Paraskevopoulos, P. N.; et al., 93a:93050**
Vandewalle, Joos *see* **De Moor, Bart L. R.; et al.**
Vidyasagar, M. *see* **Deodhare, Girish, 93g:93040**
Voevoda, A. A. Design of linear discrete control systems with adaptive properties and given dynamics. (Russian. Russian summary)
Volkovich, V. V. (*with* Pavlov, V. V.) Analyzing the control of a dynamic object in curvilinear space. (Russian. English, Russian and Ukrainian summaries)
Voronov, A. A. Design of modal controllers that act on the basis of measured output and input of a linear plant. (Russian)
Weiss, Alan *see* **Fendick, Kerry W.; et al.**
van der Woude, J. W. Almost noninteracting control for linear systems with exogenous inputs and outputs. (English summary) **93j:93055**
Wu, Guang Mou (*with* Shen, Zhao Han; Xu, Nan Rong) The imperfect regulation of economic systems in the equilibrium state and the control of the self-organizing process. (Chinese. English summary)
Wu, Yung Ch'un *see* **Yen, Nie Zen, 93m:93040**
Xie, Xin Min *see* **Ding, Feng**
Xu, Hua *see* **Mizukami, Koichi**
Xu, Nan Rong *see* **Wu, Guang Mou; et al.**
Yan, Wei Yong (*with* Moore, John Barratt) A multiple controller structure and design strategy with stability analysis. (English summary)
Yang, B. (*with* Mote, C. D., Jr.) Active vibration control of axially moving continua. (*see* **93e:73030**)
Yaniv, Oded Robust noniterative synthesis of ill-conditioned plants.
Yen, Nie Zen (*with* Wu, Yung Ch'un) A multirate controller design of linear periodic time delay systems. (English summary) **93m:93040**
Zakian, V. Corrigendum: "Well-matched systems" [IMA J. Math. Control Inform. **8** (1991), no. 1, 29–38; MR 92d:93065].
Zhang, Jing Xin *see* **Mosca, Edoardo**

Items with secondary classifications in 93B51

Abdul-Wahab, Abdul-Amir A. *see* **Zohdy, Mohamed A.; et al., 93m:93033**
Al-Rahmani, Hamed M. (*with* Franklin, Gene F.) Multirate control: a new approach. **93b:93074**
Al'sevich, V. V. Synthesis of an optimal controller for linear systems with delay. (Russian. English summary) **93b:49030**
Aplevich, J. D. ★ Implicit linear systems. **93b:93001**
Bessonov, G. A. (*with* Korobova, E. V.) Solution of a problem on the synthesis of a positional control for some classes of nonlinear systems. (Russian) **93g:93011**
Bingulac, S. (*with* VanLandingham, H. F.) A unified approach to the discretization and "continualization" of MIMO systems. (English summary) **93j:93088**
Blaquière, A. Sufficiency conditions for existence of an optimal feedback control in stochastic mechanics. **93f:93136**
Borisenko, I. I. (*with* Kazakov, I. E.) Synthesis of control and data processing strategies on the basis of decomposition and reduction of multidimensional dynamical systems (a survey). (Russian. Russian summary) **93i:93009**
(Borne, Pierre) *see* **Mathematics of the analysis and design of process control, 93g:93004**
Carrière, A. *see* **Georges, D.; et al.**
Chang, Wen Jer (*with* Chung, Hung Yūan) A study of H_∞ norm and variance-constrained design using dynamic output feedback for linear discrete systems. (English summary) **93i:93040**
— *see also* **Chung, Hung Yūan**
Chen, J. S. *see* **Chen, Ye-Hwa, 93h:93070**
Chen, Tongwen (*with* Francis, Bruce Allen) Linear time-varying $\mathscr{H}_2$-optimal control of sampled-data systems. **93a:93040**
Chen, Wen De (*with* Qi, Xiang Dong) Theory and algorithms on period assignment of discrete-event dynamic systems. **93d:93053**
Chen, Ye-Hwa (*with* Chen, J. S.) Adaptive robust control of uncertain systems. **93h:93070**
Chung, Hung Yūan (*with* Chang, Wen Jer) Covariance control with variance constraints for continuous perturbed stochastic systems. (English summary)
— *see also* **Chang, Wen Jer, 93i:93040**
Corrêa, Gilberto Oliveira *see* **da Silveira, Marcos Azevedo, 93a:93045**
Curtain, Ruth F. Robust stabilization for infinite-dimensional linear systems using normalized coprime factorizations. **93a:93097**
Daley, S. *see* **Wang, H.**
Deskov, V. P. (*with* Dimirovski, G. M.; Gough, N. E.) On the ordering of characteristic input-output modes in MIMO discrete-time systems. (English summary) (*see* **93f:93005**)
Dimirovski, G. M. *see* **Deskov, V. P.; et al., (93f:93005)**
Doyle, John C. *see* **Packard, Andy, 93k:93042**
Drăgan, Vasile Discrete implementation of a stabilizing linear control for a system with two time scales. **93b:93070**
Dzhafarov, V. Ya. Multivalued synthesis for a class of controllable systems. (Russian. Russian summary)
Fadali, M. S. *see* **Zohdy, Mohamed A.; et al., 93m:93033**
Francis, Bruce Allen *see* **Chen, Tongwen, 93a:93040**
Franke, Dieter Shaping the reference input response of linear distributed parameter systems via output feedback. (*see* **93b:49002**)
Franklin, Gene F. *see* **Al-Rahmani, Hamed M., 93b:93074**
Fujita, Masayuki *see* **Uchida, Kenko, 93j:93047**
Gabasov, R. F. (*with* Gaishun, P. V.; Kirillova, F. M.; Prishchepova, S. V.) Optimal feedback for a discrete system with disturbance compensation. I. Synthesis of an optimal estimator. (Russian) **93b:49041**
— (*with* Gaishun, P. V.; Kirillova, F. M.; Prishchepova, S. V.) Optimal feedback for a discrete system with disturbance compensation. II. Synthesis of an optimal regulator. (Russian. Russian summary) **93f:49032**
Gaishun, P. V. *see* **Gabasov, R. F.; et al., 93b:49041** *and* **93f:49032**
Georges, D. (*with* Carrière, A.; Merigot, J. C.) Commande avec rejet asymptotique de biais constants: l'approche d'état et l'approche polynômiale. (English and French summaries) [Control with asymptotic rejection of perturbations constant in time: the state approach and the polynomial approach]
Georgiou, Tryphon T. (*with* Smith, Malcolm Clive) Topological approaches to robustness. (English summary) **93k:93038**
Gibbard, M. J. *see* **Stefanidis, P.; et al., 93a:93004**
Gough, N. E. *see* **Deskov, V. P.; et al., (93f:93005)**
Graettinger, Timothy J. (*with* Krogh, Bruce H.) On the computation of reference signal constraints for guaranteed tracking performance. (English summary) **93j:93051**
Grujić, Ljubomir T. (*with* Mounfield, William Pratt, Jr.) Natural tracking control of linear systems. (English summary) (*see* **93g:93004**)
— *see also* **Mounfield, William Pratt, Jr., (93g:93004)**
Harris, S. L. *see* **Schilling, Robert J.; et al., 93h:93036**
Huang, Mao Kang (*with* Ruan, Rong Yao) Self-adaptive control for tracking reference signals directly. II. (Chinese. English and Chinese summaries)
İftar, Altuğ (*with* Özgüner, Ümit) Techniques in modeling uncertain dynamics for robust control system design. **93i:93042**
Ioannou, Petros A. *see* **Tsakalis, Kostas S., 93k:93006**
Jayasuriya, Suhada QFT type design for maximizing tolerable disturbances in structured uncertain systems.
Kaminer, Isaac (*with* Khargonekar, Pramod P.; Rotea, Mario A.) Mixed $\mathscr{H}_2/\mathscr{H}_\infty$ control for discrete-time systems via convex optimization. (English summary) **93j:93043**
Kanellakopoulos, I. (*with* Kokotović, P. V.; Morse, A. Stephen) A toolkit for nonlinear feedback design. **93g:93042**
Kazakov, I. E. *see* **Borisenko, I. I., 93i:93009**
Khargonekar, Pramod P. *see* **Kaminer, Isaac; et al., 93j:93043**
Kim, Seungnam (*with* Meerkov, S. M.; Runolfsson, T.) Aiming control: residence probability and (D, T)-stability. **93e:93056**
— (*with* Meerkov, S. M.; Runolfsson, T.) Aiming control: design of residence probability controllers. **93e:93057**
Kimura, Hidenori (J, J')-lossless factorization based on conjugation. (English summary) **93j:93044**
Kirillova, F. M. *see* **Gabasov, R. F.; et al., 93b:49041** *and* **93f:49032**

Kokotović, P. V. *see* **Kanellakopoulos, I.; et al., 93g:93042**
Korobova, E. V. *see* **Bessonov, G. A., 93g:93011**
(Kozin, F.) *see* **Systems and control, 93f:93007**
Krogh, Bruce H. *see* **Graettinger, Timothy J., 93j:93051**
Kučera, Vladimír ★ Analysis and design of discrete linear control systems. **93j:93002**
Kuntsevich, V. M. Synthesis of optimal robust control of linear objects under bounded perturbations. (Russian. Russian summary) **93i:49046**
Kurfess, Thomas R. (*with* Nagurka, Mark L.) Foundations of classical control theory with reference to eigenvalue geometry. (English summary) **93k:93004**
Larin, V. B. Optimization in a Hardy space and a problem of parametrization of controllers (a survey). (Russian. English and Ukrainian summaries) **93g:93049**
Linkens, D. A. (*with* Mahfouf, M.) Generalized predictive control with feedforward (GPCF) for multivariable anaesthesia. (English summary)
Liu, Xiao Ping² Symmetric structures and disturbance decoupling of nonlinear control systems. (Chinese. English and Chinese summaries)
Lovass-Nagy, Victor *see* **Schilling, Robert J.; et al., 93h:93036**
Lunze, Jan Modelling and analysis of symmetric control systems. (English summary) (*see* **93b:93006**)
Mahfouf, M. *see* **Linkens, D. A.**
Maybeck, Peter S. *see* **Sheldon, Stuart N.**
Medanić, J. V. *see* **Shor, M. H.; et al., 93i:93012**
Meerkov, S. M. *see* **Kim, Seungnam; et al., 93e:93056** *and* **93e:93057**
Merigot, J. C. *see* **Georges, D.; et al.**
Morse, A. Stephen *see* **Kanellakopoulos, I.; et al., 93g:93042**
Mounfield, William Pratt, Jr. (*with* Grujić, Ljubomir T.) High-gain natural tracking control of linear systems. (English summary) (*see* **93g:93004**)
— *see also* **Grujić, Ljubomir T., (93g:93004)**
Nagar, S. K. *see* **Pal, Jayanta; et al.**
Nagurka, Mark L. *see* **Kurfess, Thomas R., 93k:93004**
Novaković, Zoran R. ★ The principle of self-support in control systems. **93k:93005**
(Ono, Toshiro) *see* **Systems and control, 93f:93007**
Özgüner, Ümit *see* **İftar, Altuğ, 93i:93042**
Packard, Andy (*with* Doyle, John C.) The complex structured singular value. (English summary) **93k:93042**
Pal, Jayanta (*with* Nagar, S. K.; Sharma, J. D.) Digital controller design for systems with transport lag. (English summary)
Papliński, A. P. *see* **Stefanidis, P.; et al., 93a:93004**
Perkins, W. R. *see* **Shor, M. H.; et al., 93i:93012**
Prishchepova, S. V. *see* **Gabasov, R. F.; et al., 93b:49041** *and* **93f:49032**
Qi, Xiang Dong *see* **Chen, Wen De, 93d:93053**
(Radhy, Nour-Eddine) *see* **Mathematics of the analysis and design of process control, 93g:93004**
Rotea, Mario A. *see* **Kaminer, Isaac; et al., 93j:93043**
Rozenvasser, E. N. Decomposition of discrete transfer functions of open continuous-digital systems. (Russian) **93g:93053**
Ruan, Rong Yao *see* **Huang, Mao Kang**
Runolfsson, T. *see* **Kim, Seungnam; et al., 93e:93056** *and* **93e:93057**
Scattolini, Riccardo (*with* Schiavoni, Nicola) A note on multivariable generalized predictive control.
Schiavoni, Nicola *see* **Scattolini, Riccardo**
Schilling, Robert J. (*with* Harris, S. L.; Lovass-Nagy, Victor) Tracking control of linear time-invariant descriptor systems. (English summary) **93h:93036**
Sharma, J. D. *see* **Pal, Jayanta; et al.**
Sheldon, Stuart N. (*with* Maybeck, Peter S.) An optimizing design strategy for multiple model adaptive estimation and control. (English summary)
Shi, Song Jiao *see* **Wang, Li Quan**
Shinners, Stanley M. ★ Modern control system theory and design. **93j:93004**
Shor, M. H. (*with* Perkins, W. R.; Medanić, J. V.) Design of reliable decentralized controllers: a unified continuous/discrete formulation. (English summary) **93i:93012**
da Silveira, Marcos Azevedo (*with* Corrêa, Gilberto Oliveira) H_2-optimal control of linear systems with tracking/disturbance rejection constraints. **93a:93045**
Sinha, Naresh K. ★ Linear systems. **93d:93001**
Skogestad, Sigurd *see* **Wang, Zi Qin, (93i:93005)**
Smith, Malcolm Clive *see* **Georgiou, Tryphon T., 93k:93038**
Stefanidis, P. (*with* Papliński, A. P.; Gibbard, M. J.) ★ Numerical operations with polynomial matrices. **93a:93004**
Tesi, Alberto (*with* Vicino, Antonio) Frequency response of interval plant-controller families. (English summary) **93d:93067**
Tsakalis, Kostas S. (*with* Ioannou, Petros A.) ★ Linear time-varying systems. **93k:93006**
(Tzafestas, Spyros G.) *see* **Mathematics of the analysis and design of process control, 93g:93004**
Uchida, Kenko (*with* Fujita, Masayuki) Controllers attenuating disturbances and initial-uncertainties for time-varying systems. (English summary) **93j:93047**
Ushio, Toshimitsu A necessary and sufficient condition for the existence of finite state supervisors in discrete-event systems. (English summary) **93k:93068**
VanLandingham, H. F. *see* **Bingulac, S., 93j:93088**
Vicino, Antonio *see* **Tesi, Alberto, 93d:93067**
Wang, H. (*with* Daley, S.) A fault detection method for unknown systems with unknown input and its application to hydraulic turbine monitoring. (English summary)
Wang, Li Quan (*with* Shi, Song Jiao) Design of robust controllers for structured uncertain linear systems. (Chinese. English and Chinese summaries)
Wang, Wên Chün (*with* Wu, Gin Hol) Variable structure control design on discrete-time systems from another viewpoint. **93d:93021**
Wang, Zi Qin (*with* Skogestad, Sigurd) Robust controller design for uncertain time delay systems. (English summary) (*see* **93i:93005**)
Wu, Gin Hol *see* **Wang, Wên Chün, 93d:93021**
Zohdy, Mohamed A. (*with* Fadali, M. S.; Abdul-Wahab, Abdul-Amir A.) Robust control system design with state constraints. (English summary) **93m:93033**

Items listed otherwise than by author

Conference:
Modelling and Control of Technological Systems ★ Mathematics of the analysis and design of process control. **93g:93004**
Congress:
Modelling and Control of Technological Systems ★ Mathematics of the analysis and design of process control. **93g:93004**
Dublin ★ Mathematics of the analysis and design of process control. **93g:93004**
Lille ★ Mathematics of the analysis and design of process control. **93g:93004**
Mathematics of the analysis and design of process control ★ Mathematics of the analysis and design of process control. **93g:93004**
Systems and control ★ Systems and control. **93f:93007**

93B52 Feedback control

Afanas'ev, V. N. (*with* Neusypin, K. A.) A method for the compensation of dynamic errors of inertial systems. (Russian. Russian summary)
Ailon, Amit Disturbance decoupling with stability and impulse-free response in singular systems. (English summary) **93g:93041**
Amin, M. H. (*with* Ibbini, M. S.) New explicit parameterized state feedback controller. (English summary) **93k:93047**
Anderson, Brian D. O. (*with* Yan, Wei Yong; Bitmead, Robert R.) Trade-offs among conflicting objectives in robust control design. **93m:93041**
Atherton, Derek P. Predicting the autonomous behavior of simple nonlinear feedback systems. (*see* **93f:00014**)
Balchen, Jens Glad *see* **Lund, E. J.; et al., (93h:93009)**
Battilotti, Stefano Necessary conditions for nonlinear block noninteracting control with stability via dynamic state-feedback. (English summary) **93j:93056**
Behtash, S. *see* **Shahruz, S. M., 93g:93044**
Bitmead, Robert R. *see* **Anderson, Brian D. O.; et al., 93m:93041**
Bretthauer, G. (*with* Heckert, F.) A priori identifiability of closed loop subsystems for correlated outer signals. (English summary) (*see* **93h:93009**)
Bryant, G. F. *see* **Yeung, L. F., 93i:93061**
Burgat, C. *see* **Tarbouriech, S.**
Cao, Li² (*with* Zheng, Yu Fan) General construction of minimal compensators for nonlinear input-output decoupling. (English summary) (*see* **93g:93006**)
Chen, Ben M. (*with* Saberi, Ali; Sannuti, Peddapullaiah; Shamash, Yacov) Construction and parameterization of all static and dynamic H_2-optimal state feedback solutions, optimal fixed modes, and fixed decoupling zeros. (English summary) **93k:93048**
Chen, Ming Shyan (*with* Tsai, Jason S. H.; K'ung, Fan Chü) Optimal servodesign of the SISO estimator-based control system. (English summary)
Chen, Wen De *see* **Qi, Xiang Dong**
Chou, Jyh Horng Feedback control for uncertain saturating systems. **93b:93048**
Craig, Roy R., Jr. *see* **Su, Tzu-Jeng**
Damborg, M. J. *see* **Sznaier, Mario**
Dayawansa, W. P. *see* **Romeiras, Filipe J.; et al., 93j:93057**
Duan, Guang Ren (*with* Hu, Wen Yuan) Decoupling control of linear systems via output feedback. (Chinese. English and Chinese summaries)
Fan, Da Xiang *see* **Tan, He Liang; et al.**
Foss, B. A. *see* **Lund, E. J.; et al., (93h:93009)**
Frelek, B. (*with* Kwiatkowski, M.) PD controllers for nonlinear systems. (English summary) (*see* **93g:93004**)
Galperin, Efim A. Validity of feedback controls depending on higher order derivatives. (English summary)
Gambardella, Lucia A continuous state feedback control for uncertain dynamical systems. (English summary) (*see* **93g:00030**)
Gao, Feng¹ (*with* Han, Zheng Zhi) Almost disturbance decoupling for nonlinear control systems. (Chinese. English and Chinese summaries)
Gawthrop, P. J. *see* **Sbarbaro, D.; et al., (93g:93004)**
Glumineau, Alain (*with* Moog, Claude H.) Nonlinear Morgan's problem: case of $(p+1)$ inputs and p outputs. **93d:93041**
Grebogi, Celso *see* **Romeiras, Filipe J.; et al., 93j:93057**
Gündeş, A. Nazli Parameterization of decoupling controllers in the unity-feedback system. (English summary) **93i:93059**
Guo, Hai Jiao *see* **Wu, Min; et al.**
Han, Zheng Zhi *see* **Gao, Feng¹**
Hanus, Raymond (*with* Peng, You Bin) Modified conditioning technique for controllers with nonminimum phase zeros and/or time-delays. (English summary) (*see* **93g:93004**)
Heckert, F. *see* **Bretthauer, G., (93h:93009)**
Hippe, Peter Design of MIMO compensators for systems with unmeasurable disturbances: the polynomial approach. (English summary) **93f:93066**
Howitt, George D. (*with* Luus, Rein) Control of a collection of linear systems by linear state feedback control. (English summary) **93m:93042**
Hsu, Yen Ting *see* **Tsai, Te Ping**
Hu, Wen Yuan *see* **Duan, Guang Ren**
Huang, Jie (*with* Rugh, Wilson J.) An approximation method for the nonlinear servomechanism problem. (English summary) **93f:93067**
Huijberts, H. J. C. A nonregular solution of the nonlinear dynamic disturbance decoupling problem with an application to a complete solution of the nonlinear model matching problem. **93b:93049**
Hunt, K. J. Progress in polynomial optimisation. (English summary) (*see* **93h:93007**)
— *see also* **Sbarbaro, D.; et al., (93g:93004)**
Hyslop, Gregory L. (*with* Schättler, Heinz M.; Tarn, Tzyh Jong) A new method for finding optimal periodic amplification functions in output feedback. (Russian) (*see* **93k:90002**)
Ibbini, M. S. *see* **Amin, M. H., 93k:93047**
Ichikawa, Akira Steady-state solutions in tracking problems. **93c:93030**
Ishihara, Tadashi *see* **Wu, Min; et al.**
Kaji, K. *see* **Wong, K. H.; et al., (93d:90005)**
Kanellakopoulos, I. (*with* Kokotović, P. V.; Morse, A. Stephen) A toolkit for nonlinear feedback design. **93g:93042**

Kinnaert, Michel *see* **Peng, You Bin, 93b:93050**
Kiriakidis, K. I. *see* **Krikelis, N. J., 93k:93049**
Kokotović, P. V. *see* **Kanellakopoulos, I.; et al., 93g:93042**
Kreisselmeier, Gerhard (*with* Rietze-Augst, Gudrun) On dynamic output feedback compensator design using the Riccati equation. (English summary)
Krikelis, N. J. (*with* Kiriakidis, K. I.) Optimal feedback control of nonlinear systems. (English summary) **93k:93049**
Kučera, Vladimír *see* **Zagalak, Petr, 93k:93051**
Kumar, Panganamala Ramana *see* **Ren, Wei, (93g:93007)**
Kung, Chung Chun (*with* Lee, Chin Cheng) Optimal tracking and rejection of persistent bounded signals for MIMO continuous systems. (English summary) **93k:93050**
K'ung, Fan Chŭ *see* **Chen, Ming Shyan; et al.**
Kurek, Jerzy E. (*with* Zaremba, Marek B.) Iterative learning control synthesis based on 2-D system theory. (English summary)
Kwiatkowski, M. *see* **Frelek, B., (93g:93004)**
Laaksonen, Merja *see* **Pohjolainen, Seppo, (93i:93005)**
Lee, Chin Cheng *see* **Kung, Chung Chun, 93k:93050**
Lepschy, A. (*with* Viaro, Umberto) Complexity and feedback. (*see* **93a:93006**)
Lewis, Frank L. *see* **Syrmos, Vassilis L., 93f:93068** *and* **Liu, Kai, (93g:93004)**
Li, Wen Lin Optimum self-tuning controllers for regulation and tracking. (Chinese. English and Chinese summaries)
Li, Yong[5] *see* **Ushio, Toshimitsu; et al.**
Liu, Kai (*with* Lewis, Frank L.) Nonlinear feedback control of a nuclear reactor system. (English summary) (*see* **93g:93004**)
Lock, N. *see* **Wong, K. H.; et al., (93d:90005)**
Lund, E. J. (*with* Balchen, Jens Glad; Foss, B. A.) Multiple model estimation with inter-residual distance feedback. (English summary) (*see* **93h:93009**)
Luo, Xiao Ming (*with* Sun, You Xian; Zhou, Chun Hui) Reducing generalized predictive control dynamic iterations by using a time delay precompensator. (Chinese. English and Chinese summaries)
Luus, Rein *see* **Howitt, George D., 93m:93042**
Moog, Claude H. *see* **Glumineau, Alain, 93d:93041**
Morse, A. Stephen *see* **Kanellakopoulos, I.; et al., 93g:93042** *and* **Pait, F. M.**
Muratori, Simona (*with* Piccardi, Carlo; Rinaldi, Sergio) On the minimum phase of compartmental systems.
Neusypin, K. A. *see* **Afanas'ev, V. N.**
Omatu, Sigeru *see* **Yusof, Rubiyah**
Ott, Edward *see* **Romeiras, Filipe J.; et al., 93j:93057**
Owens, David H. *see* **Wang, Sheng Guo**
Pait, F. M. (*with* Morse, A. Stephen) Global tunability of one-dimensional SISO systems. (English summary)
Peng, You Bin (*with* Kinnaert, Michel) Explicit solution to the singular LQ regulation problem. **93b:93050**
— *see also* **Hanus, Raymond, (93g:93004)**
Piccardi, Carlo *see* **Muratori, Simona; et al.**
Pohjolainen, Seppo (*with* Laaksonen, Merja) On the optimal minimax tuning of controllers for distributed parameter systems. (English summary) (*see* **93i:93005**)
Qi, Xiang Dong (*with* Chen, Wen De) Output feedback and period assignment of discrete-event dynamic systems. (English and Chinese summaries)
Radhy, Nour-Eddine About regulation of nonlinear discrete-time systems subject to symmetrical or nonsymmetrical convex state constraints. (English summary) (*see* **93g:93004**)
Rao, Li Chang *see* **Wu, Min; et al.**
Ren, Wei (*with* Kumar, Panganamala Ramana) The convergence of self-tuning feedback control for linear stochastic systems. (English summary) (*see* **93g:93007**)
Rietze-Augst, Gudrun *see* **Kreisselmeier, Gerhard**
Rinaldi, Sergio *see* **Muratori, Simona; et al.**
Romeiras, Filipe J. (*with* Grebogi, Celso; Ott, Edward; Dayawansa, W. P.) Feedback control of chaotic systems. (English summary) **93j:93057**
Rozenvasser, E. N. Application of parametric transfer functions in problems of the synthesis of discrete control laws. I. Optimal discrete filtering of continuous dynamical processes by the mean dispersion criterion. (Russian. Russian summary) **93g:93043a**
— Application of parametric transfer functions in problems of the synthesis of discrete control laws. II. Synthesis of control laws for closed continuous-digital systems. (Russian. Russian summary) **93g:93043b**
Rugh, Wilson J. *see* **Huang, Jie, 93f:93067**
Saberi, Ali *see* **Chen, Ben M.; et al., 93k:93048**
Saeks, R. Output feedback invariants and complex breakpoints. (English summary) **93h:93031**
Safonov, Michael G. (*with* Wang, Wei Zhen) Singular value properties of LQ regulators. (English summary)
Sain, Michael K. (*with* Schrader, C. B.) Feedback, zeros, and blocking dynamics. (English summary) (*see* **93g:93005**)
Sakai, Hideaki Generalized predictive self-tuning control for tracking a periodic reference signal. (English summary)
Sannuti, Peddapullaiah *see* **Chen, Ben M.; et al., 93k:93048**
Sbarbaro, D. (*with* Hunt, K. J.; Gawthrop, P. J.) Designing nonlinear controllers using connectionist networks. (English summary) (*see* **93g:93004**)
Schättler, Heinz M. *see* **Hyslop, Gregory L.; et al., (93k:90002)**
Schrader, C. B. *see* **Sain, Michael K., (93g:93005)**
Shahruz, S. M. (*with* Behtash, S.) Design of controllers for linear parameter-varying systems by the gain scheduling technique. **93g:93044**
Shamash, Yacov *see* **Chen, Ben M.; et al., 93k:93048**
Skelton, Robert E. *see* **Xu, Ji-Han, 93i:93060**
Su, Tzu-Jeng (*with* Craig, Roy R., Jr.) Control design based on a linear state function observer. (English summary)
Sun, You Xian *see* **Luo, Xiao Ming; et al.**
Syrmos, Vassilis L. (*with* Lewis, Frank L.) State feedback design using reduced-order nonsquare descriptions. (English summary) **93f:93068**
Sznaier, Mario (*with* Damborg, M. J.) Heuristically enhanced feedback control of constrained systems: the minimum time case. (English summary)
Tan, He Liang (*with* Fan, Da Xiang; Tan, Nai Wen) Real-time tracking of time-varying time-delay. (Chinese. English and Chinese summaries)
Tan, Nai Wen *see* **Tan, He Liang; et al.**
Tarbouriech, S. (*with* Burgat, C.) Class of globally stable saturated state feedback regulators. (English summary)
Tarn, Tzyh Jong *see* **Hyslop, Gregory L.; et al., (93k:90002)**
Tsai, Jason S. H. *see* **Chen, Ming Shyan; et al.**
Tsai, Te Ping (*with* Hsu, Yen Ting) A two-degree-of-freedom LQR design of control systems. (English summary)
Ushio, Toshimitsu (*with* Li, Yong[5]; Wonham, W. Murray) Concurrency and state feedback in discrete-event systems. (English summary)
Viaro, Umberto *see* **Lepschy, A., (93a:93006)**
Voronov, A. A. Design of minimal modal controllers that act on the basis of the measurable input and output of a linear object. (Russian. Russian summary)
Vostrikov, A. S. (*with* Yurkevich, V. D.) The decoupling of multi-channel nonlinear time-varying systems by derivative feedback. (Polish summary) **93d:93042**
Wang, Sheng Guo (*with* Owens, David H.) Control parameterization and robustness of feedback systems: an asymptotic analysis. (English summary)
Wang, Wei Zhen *see* **Safonov, Michael G.**
Wong, K. H. (*with* Lock, N.; Kaji, K.) Output feedback for a class of linear-quadratic systems with jump stochastic parameters. (English summary) (*see* **93d:90005**)
Wonham, W. Murray *see* **Ushio, Toshimitsu; et al.**
Wu, Min (*with* Guo, Hai Jiao; Rao, Li Chang; Ishihara, Tadashi) A parametrization of discrete-time low-order integral controllers with computation delay. (English and Chinese summaries)
Xu, Ji-Han (*with* Skelton, Robert E.) An improved covariance assignment theory for discrete systems. (English summary) **93i:93060**
Yan, Wei Yong *see* **Anderson, Brian D. O.; et al., 93m:93041**
Yeung, L. F. (*with* Bryant, G. F.) The L-dominance concept and its applications to multivariable system designs. (English summary) **93i:93061**
Yurkevich, V. D. *see* **Vostrikov, A. S., 93d:93042**
Yusof, Rubiyah (*with* Omatu, Sigeru) A multivariable self-tuning PID controller. (English summary)
Zagalak, Petr (*with* Kučera, Vladimír) Fundamental theorem of proportional state feedback for descriptor systems. **93k:93051**
Zaremba, Marek B. *see* **Kurek, Jerzy E.**
Zhang, Qing Ling A mathematical theory of impulsive fixed modes. (Chinese. English and Chinese summaries)
Zheng, Yu Fan *see* **Cao, Li[2], (93g:93006)**
Zhou, Chun Hui *see* **Luo, Xiao Ming; et al.**

Items with secondary classifications in 93B52

Acquistapace, Paolo (*with* Terreni, Brunello) Boundary control problems for nonautonomous parabolic systems. (*see* **93c:93006**)
Agashe, S. D. *see* **Lande, B. K., (93g:93003)**
Ahmad, Shaheen *see* **Sira-Ramirez, Hebertt J.; et al., 93k:93062**
Ahmed, N. U. Partially observed optimal relaxed feedback controls for infinite-dimensional stochastic systems. (English summary) (*see* **93g:93004**)
Akizuki, Kageo *see* **Hashimoto, Hiroshi, 93h:93072**
Al-Saggaf, Ubaid M. Subsystem interconnection and near optimum control of discrete balanced systems. **93c:93033**
Anderson, Brian D. O. *see* **Er, Meng J., 93d:93086** *and* **Kennedy, R. A.; et al., (93j:93007)**
Antsaklis, Panos J. *see* **Gao, Zhiqiang, 93e:93031**
Araki, Mituhiko *see* **Choe, Yeon-Wook, 93f:93083**
Arkun, Yaman *see* **Chiu, Min-Sen**
Atherton, Derek P. (*with* Xue, Dingyu) The analysis of feedback systems with piecewise linear nonlinearities when subjected to Gaussian inputs. (English summary) **93k:93104**
Aubin, Jean-Pierre (*with* Frankowska, Halina) Viability kernel of control systems. **93c:49008**
Battilotti, Stefano A sufficient condition for nonlinear noninteracting control with stability via dynamic state-feedback: block-partitioned outputs. **93c:93038**
Benítez-Read, J. S. (*with* Jamshidi, M.; Kisner, R. A.) Advanced control designs for nuclear reactors. (English summary)
Bentsman, Joseph *see* **Lehman, Brad, 93k:93059**
Bhat, M. Seetharama *see* **Pradhan, Satyabrata, (93g:93003)**
Bhattacharyya, Shankar Prashad *see* **Chapellat, Hervé; et al., (93g:93005)**
Bitmead, Robert R. *see* **Kennedy, R. A.; et al., (93j:93007)**
Bonnard, Bernard Feedback equivalence for nonlinear systems and the time optimal control problem. **93b:93030**
Bossart, Theodore C. *see* **Singh, Sahjendra N., 93m:93026**
Brunovský, Pavol Controlling the dynamics of scalar reaction diffusion equations by finite-dimensional controllers. (*see* **93d:93006**)
Bunse-Gerstner, Angelika (*with* Mehrmann, Volker; Nichols, Nancy K.) Regularization of descriptor systems by derivative and proportional state feedback. **93a:93023**
Chabour, Rachid (*with* Ferfera, Abdelhak) Noninteracting control and disturbance decoupling with singularity for two-dimensional bilinear systems. **93f:93110**
Chapellat, Hervé (*with* Dahleh, Mohammed A.; Bhattacharyya, Shankar Prashad) Structure and optimality of multivariable periodic controllers. (English summary) (*see* **93g:93005**)
— (*with* Dahleh, Mohammed A.) Analysis of time-varying control strategies for optimal disturbance rejection and robustness. (English summary) **93j:93075**
Chase, Christopher (*with* Serrano, Joseph; Ramadge, Peter J.) Periodicity and chaos from switched flow systems: contrasting examples of discretely controlled continuous systems. (English summary) **93j:93068**
Chen, Guan Rong (*with* Dong, Xiaoning) On feedback control of chaotic nonlinear dynamic systems. (English summary) **93g:93046**
Chen, Shan Ben An optimal output feedback problem under the linear quadratic index. (Chinese. English and Chinese summaries)

Chen, Ye-Hwa Adaptive robust control of uncertain systems with measurement noise. **93g:93079**

Cheng, Dai Zhan Design of zero dynamics for a class of nonlinear systems. (English summary) (*see* **93g:93006**)

Chisci, L. (*with* Zappa, Giovanni) Mapping LQ control design on fixed-size array processors. (English summary) (*see* **93f:93005**)

Chiu, Min-Sen (*with* Arkun, Yaman) A methodology for sequential design of robust decentralized control systems. (English summary)

Choe, Yeon-Wook (*with* Araki, Mituhiko) Control of serial sampling systems. (English summary) **93f:93083**

Colaneri, P. (*with* Scattolini, Riccardo; Schiavoni, Nicola) Stabilization and regulation of multirate sampled-data systems. (English summary) (*see* **93g:93005**)

Cui, Bao Min *see* **Yuan, Zhu Zhi**

Dahleh, Mohammed A. *see* **Chapellat, Hervé**, **93j:93075** *and* (**93g:93005**)

Dahleh, Munther A. (*with* Shamma, Jeff S.) Rejection of persistent bounded disturbances: nonlinear controllers. **93g:93047**

Da Prato, Giuseppe (*with* Delfour, Michel C.) Linear quadratic control problem without stabilizability. **93i:49041**

— Spectral properties of the closed loop operator and periodic control problems. (English summary) **93j:49039**

Delfour, Michel C. *see* **Da Prato, Giuseppe**, **93i:49041**

Desai, Premal (*with* Mahalanabis, A. K.) A state space self-tuning controller with integral action. (English summary)

Di Benedetto, Maria Domenica (*with* Glumineau, Alain; Moog, Claude H.) Découplage entrée-sortie des systèmes non linéaires par retour d'état dynamique pur. (English and French summaries) [Nonlinear input-output decoupling by pure dynamic state feedback] **93j:93027**

Dong, Xiaoning *see* **Chen, Guan Rong**, **93g:93046**

Doyle, John C. (*with* Francis, Bruce Allen; Tannenbaum, Allen R.) ★ Feedback control theory. **93k:93002**

— *see also* **Packard, Andy**, **93k:93042**

Edwards, N. J. *see* **Goh, C. J.**; **et al.**

Enns, Dale F. *see* **Garrard, William L.**; **et al.**

Er, Meng J. (*with* Anderson, Brian D. O.) Performance study of multi-rate output controllers under noise disturbances. (English summary) **93d:93086**

Esfandiari, Farzad (*with* Khalil, Hassan K.) Output feedback stabilization of fully linearizable systems. (English summary) **93h:93057**

Farber, V. E. Distribution moments of amplitude-quantified processes in rounding by the use of correcting signals. (Russian. Russian summary)

Farooq, A. (*with* Owens, David H.; Lokowandt, B.; Pfeiffer, B. M.) Model-based expert system for computer aided design of feedback controllers. (English summary) (*see* **93h:93007**)

Ferfera, Abdelhak *see* **Chabour, Rachid**, **93f:93110**

Fradkov, A. *see* **Lublinsky, B.**

Francis, Bruce Allen *see* **Doyle, John C.**; **et al.**, **93k:93002**

Frankowska, Halina *see* **Aubin, Jean-Pierre**, **93e:49008**

Fu, Li Ch'êng A new robust MRAC using variable structure design for relative degree two plants. (English summary)

Fujii, Takao (*with* Tsujino, Taro) An inverse LQ based approach to the design of robust tracking system with quadratic stability. (English summary) (*see* **93f:93006**)

Fujita, Masayuki (*with* Uchida, Kenko) H^∞ state feedback with cheap control. (English summary) **93j:93041**

Gao, Zhiqiang (*with* Antsaklis, Panos J.) Reconfigurable control system design via perfect model following. (English summary) **93e:93031**

Garrard, William L. (*with* Enns, Dale F.; Snell, S. Antony) Nonlinear feedback control of highly manoeuvrable aircraft. (English summary)

Gerencsér, László Fixed gain estimation and tracking. (English summary) (*see* **93g:93007**)

Gilbert, Elmer G. *see* **Tan, Kok Tin**, (**93d:90005**)

Glover, Keith State space formulae for the multiplicative approximation of multivariable transfer functions. (English summary) **93k:93030**

Glumineau, Alain *see* **Di Benedetto, Maria Domenica**; **et al.**, **93j:93027**

Goh, C. J. (*with* Edwards, N. J.; Zomaya, A. Y.) Feedback control of minimum-time optimal control problems using neural networks. (English summary)

Gündeş, A. Nazli Stability of feedback systems with sensor or actuator failures: analysis. (English summary) **93f:93094**

Hara, Shinji (*with* Kimura, T.; Kondō, Ryōji) H_∞ control system design by a parameter space approach. (English summary) **93k:93039**

— (*with* Sugie, Toshiharu; Kondō, Ryōji) H_∞ control problem with $j\omega$-axis zeros. **93b:93033**

Hashimoto, Hiroshi (*with* Akizuki, Kageo) Global convergence of implicit STC. (English summary) **93h:93072**

Hejmo, Władysław (*with* Kloch, Jacenty) Dynamic behaviour of a planar feedback-system. (English summary) **93m:34097**

Hill, David J. A generalization of the small-gain theorem for nonlinear feedback systems. **93f:93114**

(Hinrichsen, Diederich) *see* **Control of uncertain systems**, **93i:93006**

van den Hof, Paul M. J. (*with* de Vries, Douwe K.; Schoen, Peter) Delay structure conditions for identifiability of closed loop systems. (English summary) **93f:93041**

Horowitz, Roberto *see* **Paice, A. D. B.**; **et al.**, **93d:93072**

Hotz, Anthony F. Direct variance design—a multiobjective control theory. (English summary) **93k:93105**

Hovd, Morten (*with* Skogestad, Sigurd) Simple frequency-dependent tools for control system analysis, structure selection and design. (English summary)

Huijberts, H. J. C. (*with* Nijmeijer, Henk; van der Wegen, L. L. M.) Minimality of dynamic input-output decoupling for nonlinear systems. **93d:93044**

Huseyin, K. *see* **Yu, Pei**, **93f:93091**

Hyslop, Gregory L. (*with* Schättler, Heinz M.; Tarn, Tzyh Jong) Descent algorithms for optimal periodic output feedback control. (English summary) **93m:49014**

İftar, Altuğ (*with* Özgüner, Ümit) Techniques in modeling uncertain dynamics for robust control system design. **93i:93042**

Imai, Hiroshi Simultaneous recovery of loop transfer property and disturbance attenuation property by high gain observer. (English summary) **93m:93036**

Inaba, Hiroshi (*with* Okutsu, Noriko) Reduced order stabilizing controllers via normalized coprime factorization. (English summary) (*see* **93g:93005**)

Inooka, Hikaru *see* **Ishihara, Tadashi**; **et al.**, (**93g:93005**)

Ishihara, Tadashi (*with* Watanabe, Tetsuo; Inooka, Hikaru) A partial loop recovery for discrete-time systems under feedback delays. (English summary) (*see* **93g:93005**)

(Isidori, Alberto) *see* **Systems, models and feedback: theory and applications**, **93a:93006**

Jamshidi, M. *see* **Benítez-Read, J. S.**; **et al.**

Jumarie, Guy Tracking control of nonlinear stochastic systems by using path cross-entropy and Fokker-Planck equation. (English summary) **93g:93086**

Kang, Wei (*with* Krener, Arthur J.) Extended quadratic controller normal form and dynamic state feedback linearization of nonlinear systems. (English summary) **93k:93054**

Kennedy, R. A. (*with* Anderson, Brian D. O.; Bitmead, Robert R.) Stochastic dynamics of blind decision feedback equalizer adaptation. (English summary) (*see* **93j:93007**)

Khalil, Hassan K. *see* **Esfandiari, Farzad**, **93h:93057**

Kimura, T. *see* **Hara, Shinji**; **et al.**, **93k:93039**

Kisner, R. A. *see* **Benítez-Read, J. S.**; **et al.**

Kitamori, Toshiyuki *see* **Nobuyama, Eitaku**; **et al.**, **93j:93092**

Kliem, W. R. Symmetrizable systems in mechanics and control theory. (English summary) **93d:70035**

Kloch, Jacenty *see* **Hejmo, Władysław**, **93m:34097**

Kobayashi, Hisato P. A nonlinear feedback control for multi-link manipulators. (English summary) (*see* **93g:93006**)

Kondō, Ryōji *see* **Hara, Shinji**; **et al.**, **93b:93033** *and* **93k:93039**

Kotta, Ülle Model matching of nonlinear discrete time systems via dynamic state feedback. (English, Russian and Estonian summaries) **93h:93029**

Kozák, Petr On feedback controllers. (English summary) **93i:93089**

Kramer Johnson, Kelly *see* **Sandberg, Irwin W.**

Krasovskii, A. N. Mixed-strategy control for the minimax of an integral functional. (Russian. Russian summary) **93h:90120**

Krener, Arthur J. *see* **Kang, Wei**, **93k:93054**

Krishnan, Hariharan *see* **McClamroch, N. Harris**, **93f:93086**

Kumar, Panganamala Ramana *see* **Ren, Wei**, **93d:93094**

Kupka, Ivan A. K. On feedback equivalence. **93b:93031**

Kvitko, A. N. Construction of piecewise-continuous controls for the solution of a boundary value problem for systems of ordinary differential equations. (Russian. English and Russian summaries)

Lande, B. K. (*with* Agashe, S. D.) Pole assignment using output feedback. (English summary) (*see* **93g:93003**)

Lehman, Brad (*with* Bentsman, Joseph) Vibrational control of linear time lag systems with arbitrarily large but bounded delays. (English summary) **93k:93059**

Li, Zhong Hua (*with* Zhang, Si Ying) Feedback decoupling of general nonlinear systems. (Chinese. English summary) **93g:93026**

Linnemann, Arno (*with* Wang, Qing Guo) Block decoupling with stability by unity output feedback—solution and performance limitations. (English summary) **93m:93025**

Llanes-Santiago, Orestes *see* **Sira-Ramirez, Hebertt J.**; **et al.**

Lokowandt, B. *see* **Farooq, A.**; **et al.**, (**93h:93007**)

Lublinsky, B. (*with* Fradkov, A.) A comparison of adaptive and nonadaptive feedback for discrete-time plants with dead time. (English summary)

Mahalanabis, A. K. *see* **Desai, Premal**

Marro, Giovanni (*with* Piazzi, A.) Feedback systems stabilizability in terms of invariant zeros. **93h:93061**

(Mårtensson, Bengt) *see* **Control of uncertain systems**, **93i:93006**

McClamroch, N. Harris (*with* Krishnan, Hariharan) Nonstandard singularly perturbed control systems and differential-algebraic equations. **93f:93086**

Medanić, J. V. *see* **Paz, R. A.**, **93f:93051**

Mehrmann, Volker *see* **Bunse-Gerstner, Angelika**; **et al.**, **93a:93023**

Menq, Chia-Hsiang (*with* Xia, Jack Zhijie) Characterization and compensation of discrete-time non-minimum-phase systems for precision tracking control. (English summary)

Mita, Tsutomu (*with* Ouchi, S.) H_∞/H_2 control and structures of closed loop systems. (English summary) (*see* **93g:93005**)

Moog, Claude H. *see* **Di Benedetto, Maria Domenica**; **et al.**, **93j:93027**

Moore, John Barratt *see* **Paice, A. D. B.**; **et al.**, **93d:93072**

Morse, A. Stephen High-order parameter tuners for the adaptive control of nonlinear systems. (English summary) (*see* **93f:93006**)

Nagurka, Mark L. (*with* Yen, Vincent) Development of linear quadratic control laws via control parametrization. (English summary)

Nakamura, Yoshimasa Isospectral deformations of the state-feedback matrix and integrable Hamiltonian systems. (English summary) (*see* **93g:93005**)

Nichols, Nancy K. *see* **Bunse-Gerstner, Angelika**; **et al.**, **93a:93023**

Nijmeijer, Henk *see* **Huijberts, H. J. C.**; **et al.**, **93d:93044**

Nobuyama, Eitaku (*with* Shin, Seiichi; Kitamori, Toshiyuki) Deadbeat control of continuous-time systems. (English summary) **93j:93092**

Norton, J. P. *see* **Veres, S. M.**, (**93h:93009**)

Novaković, Zoran R. ★ The principle of self-support in control systems. **93k:93005**

Obotnin, A. N. Methods for calculating potential control laws for nonlinear and time-dependent systems. (Russian. Russian summary) (*see* **93f:93004**)

Okutsu, Noriko *see* **Inaba, Hiroshi**, (**93g:93005**)

Ouchi, S. *see* **Mita, Tsutomu**, (**93g:93005**)

Owens, David H. *see* **Rogers, Eric L.**, (**93g:93006**) *and* **Farooq, A.**; **et al.**, (**93h:93007**)

Özgüner, Ümit *see* **İftar, Altuğ**, **93i:93042** *and* **Young, K. David**, **93m:93023**

Packard, Andy (*with* Doyle, John C.) The complex structured singular value. (English summary) **93k:93042**

Paice, A. D. B. (*with* Moore, John Barratt; Horowitz, Roberto) Nonlinear feedback system stability via coprime factorization analysis. **93d:93072**

Paz, R. A. (*with* Medanić, J. V.) $\mathscr{H}_\infty$ control in discrete time: state feedback control and norm bounds. **93f:93051**

Pedersen, Michael Symbolic boundary calculus and feedback operators. **93a:35029**

Pfeiffer, B. M. *see* **Farooq, A.**; **et al.**, (**93h:93007**)

Piazzi, A. *see* **Marro, Giovanni, 93h:93061**
Pradhan, Satyabrata (*with* Bhat, M. Seetharama) On the stabilizable dynamic output feedback controller. (English summary) (*see* **93g:93003**)
Qin, Kai Huai The theory of discrete Jacobi polynomial series forecasting control and an algorithm for it. (Chinese. English and Chinese summaries) **93j:93053**
Qu, Zhihua *see* **Zhang, Qi Ren, (93j:93007)**
Ramadge, Peter J. *see* **Chase, Christopher; et al., 93j:93068**
Ray, Asok *see* **Shen, Jenny H.**
Ren, Wei (*with* Kumar, Panganamala Ramana) Stochastic parallel model adaptation: theory and applications to active noise canceling, feedforward control, IIR filtering, and identification. **93d:93094**
Rogers, Eric L. (*with* Owens, David H.) 2D transfer-function based controller design for discrete linear repetitive processes. (English summary) (*see* **93g:93006**)
(Ruberti, Antonio) *see* **Systems, models and feedback: theory and applications, 93a:93006**
Rudie, Karen (*with* Wonham, W. Murray) Think globally, act locally: decentralized supervisory control. (English summary) **93i:93010**
Ryan, Eugene P. Discontinuous feedback and universal adaptive stabilization. (English summary) **93i:93108**
Sandberg, Irwin W. (*with* Kramer Johnson, Kelly) On steady-state errors in nonlinear control systems. (English summary)
Scattolini, Riccardo *see* **Colaneri, P.; et al., (93g:93005)**
Schättler, Heinz M. *see* **Hyslop, Gregory L.; et al., 93m:49014**
Schiavoni, Nicola *see* **Colaneri, P.; et al., (93g:93005)**
Schoen, Peter *see* **van den Hof, Paul M. J.; et al., 93f:93041**
Schrama, Ruud J. P. An open-loop solution to the approximate closed-loop identification problem. (English summary) (*see* **93h:93009**)
Serakos, Demetrios Stability in feedback systems with tapered and other special input spaces. (English summary) **93e:93052**
Serkov, D. A. Strongly optimal strategies. (Russian) **93h:90123**
Serrano, Joseph *see* **Chase, Christopher; et al., 93j:93068**
Shamma, Jeff S. (*with* Zhao, Rongze) Fading-memory feedback systems and robust stability. (English summary) **93j:93116**
— *see also* **Dahleh, Munther A., 93g:93047**
Shen, Jenny H. (*with* Ray, Asok) Discrete-time loop transfer recovery with multistep delays. (English summary)
Shin, Seiichi *see* **Nobuyama, Eitaku; et al., 93j:93092**
Singh, Sahjendra N. (*with* Bossart, Theodore C.) Exact feedback linearization and control of space station using CMG. (English summary) **93m:93026**
Sira-Ramirez, Hebertt J. (*with* Zribi, Mohamed; Ahmad, Shaheen) Adaptive dynamical feedback regulation strategies for linearizable uncertain systems. (English summary) **93k:93062**
— On the dynamical sliding mode control of nonlinear systems. (English summary) **93m:93021**
— (*with* Tarantino-Alvarado, Rocco; Llanes-Santiago, Orestes) Adaptive feedback stabilization in PWM-controlled DC-to-DC power supplies. (English summary)
Skogestad, Sigurd *see* **Hovd, Morten**
Skowronski, J. M. Winning controllers and regions in competitive nonlinear dynamic games with two qualitative objectives and uncertain information. (English summary) **93f:90203**
Snell, S. Antony *see* **Garrard, William L.; et al.**
Sobel, Kenneth M. *see* **Su, Wei, 93j:93081**
Solé, L. On feedback universality of discrete systems. **93b:93008**
Sonnevend, G. Application of analytic centers to feedback design for systems with uncertainties. (English summary) **93i:93057**
Sprekels, Jürgen Global existence of thermomechanical processes in nonlinear thin rods under velocity feedbacks. **93f:35230**
Su, Wei (*with* Sobel, Kenneth M.) A unified theory for the CGT approach to adaptive control. **93j:93081**
(Subbotin, A. I.) *see* **Control in dynamical systems, 93f:93004**
Sugie, Toshiharu *see* **Hara, Shinji; et al., 93b:93033**
Tan, Kok Tin (*with* Gilbert, Elmer G.) Multi-mode controllers for linear discrete-time systems with general state and control constraints. (English summary) (*see* **93d:90005**)
Tannenbaum, Allen R. *see* **Doyle, John C.; et al., 93k:93002**
Tarantino-Alvarado, Rocco *see* **Sira-Ramirez, Hebertt J.; et al.**
Tarn, Tzyh Jong *see* **Hyslop, Gregory L.; et al., 93m:49014** *and* **Systems, models and feedback: theory and applications, 93a:93006**
Terreni, Brunello *see* **Acquistapace, Paolo, (93c:93006)**
Tornambè, Antonio Simple observer-based control law for time lag systems. (English summary) **93g:93016**
Tsujino, Taro *see* **Fujii, Takao, (93f:93006)**
Uchida, Kenko *see* **Fujita, Masayuki, 93j:93041**
(Ushakov, V. N.) *see* **Control in dynamical systems, 93f:93004**
Veres, S. M. (*with* Norton, J. P.) Bound-based worst-case self-tuning controllers. (English summary) (*see* **93h:93009**)
de Vries, Douwe K. *see* **van den Hof, Paul M. J.; et al., 93f:93041**
Vu, Ky Minh Variance formulae for feedback stochastic control systems. **93b:93104**
Wang, Qing Guo *see* **Linnemann, Arno, 93m:93025**
Wang, Zi Cai *see* **Yao, Yu**
Watanabe, Tetsuo *see* **Ishihara, Tadashi; et al., (93g:93005)**
van der Wegen, L. L. M. *see* **Huijberts, H. J. C.; et al., 93d:93044**
Wonham, W. Murray *see* **Rudie, Karen, 93i:93010**
Xia, Jack Zhijie *see* **Menq, Chia-Hsiang**
Xiao, Shu Xian A dimension-reducing method for solving Lur'e's problem. (Chinese. English and Chinese summaries) **93k:93077**
Xue, Dingyu *see* **Atherton, Derek P., 93k:93104**
Yamamoto, Yutaka A function state space approach to robust tracking for sampled-data systems. (English summary) (*see* **93f:93006**)
Yao, Yu (*with* Wang, Zi Cai) New results on variable structure observers for nonlinear systems.
Yao, Yun Long Ill-posed linear quadratic optimal control. (Chinese. Chinese summary) **93k:49032**
Yen, Vincent *see* **Nagurka, Mark L.**
Young, K. David (*with* Özgüner, Ümit) Frequency shaping compensator design for sliding mode. (English summary) **93m:93023**
Yu, Pei (*with* Huseyin, K.) Sensitivity analysis of certain dynamic bifurcations. (English summary) **93f:93091**
Yuan, Zhu Zhi (*with* Cui, Bao Min) New multivariable generalized predictive self-tuning controller. (English and Chinese summaries)
Zappa, Giovanni *see* **Chisci, L., (93f:93005)**
Zhang, Qi Ren (*with* Qu, Zhihua) Unification of continuous and discrete model reference adaptive control. (English summary) (*see* **93j:93007**)
Zhang, Si Ying *see* **Li, Zhong Hua, 93g:93026**
Zhang, Weijian Sensor noise effect in rate feedback via saturating actuators: distributed parameter system. **93i:93069**
Zhao, Rongze *see* **Shamma, Jeff S., 93j:93116**
Zhu, Si Quan Perturbations of closed-loop systems in robust feedback stabilization. (English summary) **93i:93112**
Zomaya, A. Y. *see* **Goh, C. J.; et al.**
Zribi, Mohamed *see* **Sira-Ramirez, Hebertt J.; et al., 93k:93062**

Items listed otherwise than by author

Birthday:
Ruberti, Antonio ★ Systems, models and feedback: theory and applications. **93a:93006**
Bremen ★ Control of uncertain systems. **93i:93006**
Capri ★ Systems, models and feedback: theory and applications. **93a:93006**
Control in dynamical systems ★ Управление в динамических системах. (Russian) [Control in dynamical systems] **93f:93004**
Control of uncertain systems ★ Control of uncertain systems. **93i:93006**
Systems, models and feedback: theory and applications ★ Systems, models and feedback: theory and applications. **93a:93006**
Workshop:
Control of Uncertain Systems ★ Control of uncertain systems. **93i:93006**
Systems, Models and Feedback ★ Systems, models and feedback: theory and applications. **93a:93006**

93B55 Pole and zero placement problems

Adachi, Norihiko *see* **Nishioka, Katsuhiro**
Aeyels, Dirk (*with* Willems, Jacques L.) Pole assignment for linear time-invariant second-order systems by periodic static output feedback. **93a:93053**
— (*with* Willems, Jacques L.) Pole assignment for linear time-invariant systems by periodic memoryless output feedback. (English summary) **93j:93058**
Agashe, S. D. *see* **Lande, B. K., (93g:93003)**
Ailon, Amit Errata: "An approach for pole assignment by gain output feedback in square singular systems" [Kybernetika (Prague) **27** (1991), no. 4, 317–332; MR 92j:93054]. **93k:93052**
Allwright, J. C. (*with* Papavasiliou, G. C.) On linear programming and robust model-predictive control using impulse-responses. **93a:93054**
Araki, Mituhiko *see* **Hagiwara, Tomomichi; et al., (93g:93005)**
Åström, Karl Johan *see* **Lilja, Mats**
Blondel, Vincent *see* **Kinnaert, Michel, 93e:93036**
Burrows, Simon P. (*with* Patton, Ron J.) Design of a low-sensitivity, minimum norm and structurally constrained control law using eigenstructure assignment. (English summary)
— *see also* **Patel, Y.; et al., (93h:93007)**
Cai, Y. S. (*with* Hang, Chang Chieh) An experimental study of a dual-rate autotuned pole-placement controller. (English summary) (*see* **93i:93007**)
Castelan, Eugênio B. (*with* Hennet, Jean-Claude) Eigenstructure assignment for state constrained linear continuous time systems. **93a:93055**
Chai, Tian You (*with* Zheng, Li Xin) A multivariable pole-placement controller with adaptive decoupling at dynamic states. (Chinese. English and Chinese summaries)
Chen, Ji Cheng *see* **Lai, Meng Xia, 93a:93056**
Chen, Wei Tian *see* **Chu, Xue Dao**
Chiang, Hsiao-Dong *see* **Lu, Jin; et al., 93m:93043**
Chiang, Huann Keng (*with* Tsai, Jason S. H.; Sun, Yû I) Pole-placement designs via novel block canonical forms for multivariable control systems. (English summary)
Chou, Jyh Horng *see* **Horng, Ing Rong; et al., 93k:93053**
Chu, Xue Dao (*with* Chen, Wei Tian) A new adaptive pole placement algorithm for nonminimum phase stochastic systems. (Chinese. English and Chinese summaries)
Cox, Christopher L. (*with* Moss, William F.) Backward error analysis for a pole assignment algorithm. II. The complex case. (English summary) **93i:93062**
Crisalle, Oscar D. *see* **El-Khoury, Mario**
Daley, S. *see* **Wellstead, K. D., (93h:93007)**
Dion, Jean Michel *see* **Lozano Leal, Rogelio; et al., 93j:93060** *and* **Kim, Jong-Hwan**
Di Ruscio, David On the location of LQ-optimal closed-loop poles. **93e:93035**
Duan, Guang Ren A simple algorithm for robust pole assignment in linear output feedback. (*see* **93h:93007**)
— Design of control systems with poles located in a robust region. (Chinese. English summary)
— (*with* Qiang, Wen Yi) Eigenstructure assignment of decentralized output feedback for linear systems. (Chinese. English and Chinese summaries)
— (*with* Feng, Ru Peng; Qiang, Wen Yi) A parametric approach to eigenstructure assignment for linear systems via dynamical compensators. (Chinese. English and Chinese summaries)
— (*with* Liu, Rui Zhi; Lû, Hai Bo) Eigenstructure assignment via state feedback for linear systems—a case with uncontrollable modes. (Chinese. English and Chinese summaries)
— Robust eigenstructure assignment via dynamical compensators. (English summary)
— Solutions of the equation $AV + BW = VF$ and their application to eigenstructure assignment in linear systems. (English summary) **93j:93059**
Dugard, Luc *see* **Lozano Leal, Rogelio; et al., 93j:93060** *and* **Kim, Jong-Hwan**

El-Ghezawi, Omar M. A two-stage method for eigenvalue-eigenvector assignment. (English and Arabic summaries)
El-Khoury, Mario (*with* Crisalle, Oscar D.) Relative zero location for second-order sampled systems. (English summary)
Feng, Ru Peng *see* **Duan, Guang Ren; et al.**
Feng, Xi Sheng *see* **Sun, Mao Xiang; et al.**
Fessas, P. On pole placement with decentralized static feedback. (English summary)
Fletcher, L. R. (*with* Ho, Daniel W. C.) Extending partial pole placement. (English summary) (*see* **93g:93005**)
Gabelaya, A. G. A new invariance criterion for spectral values of linear autonomous systems. (Russian) **93b:93051**
Gawronski, Wlodzimierz (*with* Hadaegh, F. Y.) Balanced input-output assignment. (English summary)
(Giri, F.) *see* **Kim, Jong-Hwan**
Gopal, M. *see* **Swarup, A.**
Guan, Yu Lin *see* **Sun, Mao Xiang; et al.**
Hadaegh, F. Y. *see* **Gawronski, Wlodzimierz**
Hagiwara, Tomomichi (*with* Araki, Mituhiko; Soma, H.) Simultaneous pole assignment and stabilization by multirate digital controllers. (English summary) (*see* **93g:93005**)
Han, Zhi Jun (*with* Lu, Yuan Zhang; Huang, Ming Shen) A minimum variance self-tuning controller with fixed closed-loop holes. (Chinese. English and Chinese summaries)
Hang, Chang Chieh *see* **Cai, Y. S., (93i:93007)**
Hayton, G. E. *see* **Pugh, A. C.; et al., 93h:93033** *and* **(93g:93006)**
Hennet, Jean-Claude *see* **Castelan, Eugênio B., 93a:93055**
Ho, Daniel W. C. *see* **Fletcher, L. R., (93g:93005)**
Horng, Huey Yang *see* **Horng, Ing Rong; et al., 93k:93053**
Horng, Ing Rong (*with* Horng, Huey Yang; Chou, Jyh Horng) Eigenvalue clustering in subregions of the complex plane for interval dynamic systems. (English summary) **93k:93053**
Huang, Ming Shen *see* **Han, Zhi Jun; et al.**
Ichikawa, Akira *see* **Katayama, Hitoshi, 93h:93032**
Ito, Masami[2] *see* **Watanabe, Keiji; et al., 93h:93034**
Johnson, D. S. *see* **Pugh, A. C.; et al., 93h:93033**
Jones, E. R. Ll. *see* **Pugh, A. C.; et al., (93g:93006)**
Juang, Jer-Nan (*with* Maghami, Peiman G.) Robust eigensystem assignment for state estimators using second-order models.
Kabziński, Jacek Derivatives of eigenvalues and pole-placement problems. (English and Polish summaries)
Karcanias, Nicos *see* **Leventides, John, 93a:93057**
Katayama, Hitoshi (*with* Ichikawa, Akira) Pole assignment by state transition graph. (English summary) **93h:93032**
Kim, Jong-Hwan Comments on: "Robust pole placement direct adaptive control" [IEEE Trans. Automat. Control **34** (1989), no. 3, 356–359] by F. Giri, J.-M. Dion, L. Dugard and M. M'Saad. (English summary)
Kinnaert, Michel (*with* Blondel, Vincent) Discrete-time pole placement with stable controller. (English summary) **93e:93036**
Kitamori, Toshiyuki *see* **Watanabe, Keiji; et al., 93h:93034**
Kobayashi, Toshihiro Pole assignment problem of a distributed parameter system with unbounded feedback. **93e:93037**
Konishi, Katsunobu (*with* Yoshimura, Toshio) Adaptive pole-placement algorithm based on common factor elimination. (English summary) (*see* **93j:93007**)
Lai, Meng Xia (*with* Chen, Ji Cheng) A theory of multiple pole assignment by output feedback and its algorithm. (Chinese. English summary) **93a:93056**
Lande, B. K. (*with* Agashe, S. D.) Pole assignment using output feedback. (English summary) (*see* **93g:93003**)
Leventides, John (*with* Karcanias, Nicos) A new sufficient condition for arbitrary pole placement by real constant output feedback. **93a:93057**
Lewis, Frank L. *see* **Syrmos, Vassilis L.**
Lilja, Mats (*with* Åström, Karl Johan) Approximate pole placement approach. (English summary)
Liu, Rui Zhi *see* **Duan, Guang Ren; et al.**
Liu, Xi Yuan[1] *see* **Yang, Zhi**
Loiseau, Jean J. Pole placement and related problems. **93c:93031**
Lozano Leal, Rogelio (*with* Dion, Jean Michel; Dugard, Luc) Singularity-free adaptive pole placement using periodic controllers. (English summary) **93j:93060**
Lü, Hai Bo *see* **Duan, Guang Ren; et al.**
Lu, Jin (*with* Chiang, Hsiao-Dong; Thorp, James S.) Eigenstructure assignment by decentralized feedback control. (English summary) **93m:93043**
Lu, Yuan Zhang *see* **Han, Zhi Jun; et al.**
Maghami, Peiman G. *see* **Juang, Jer-Nan**
Magni, Jean-François A geometric approach to pole assignment by output feedback. (English summary) **93j:93061**
Mitter, Sanjoy K. (*with* Schick, Irvin C.) Point estimation, stochastic approximation, and robust Kalman filtering. **93g:93045**
Moss, William F. *see* **Cox, Christopher L., 93i:93062**
(M'Saad, M.) *see* **Kim, Jong-Hwan**
Nishioka, Katsuhiro (*with* Adachi, Norihiko) A continuation method for pole assignment by output feedback. (Japanese. English summary)
Nobuyama, Eitaku *see* **Watanabe, Keiji; et al., 93h:93034**
Okuyama, T. *see* **Watanabe, Keiji; et al., (93g:93005)**
Olbrot, Andrzej W. On robust spectrum assignability: there are limits to pole placement theorem for systems with infinitesimal perturbations. (English summary) (*see* **93g:93007**)
Ortiz Marttelo, A. *see* **Verde, C., (93h:93007)**
Papavassiliou, G. C. *see* **Allwright, J. C., 93a:93054**
Patel, Y. (*with* Patton, Ron J.; Burrows, Simon P.) Robust, low norm multirate control using eigenstructure assignment. (*see* **93h:93007**)
— (*with* Patton, Ron J.) Design of robust multirate feedback control using eigenstructure assignment. (English summary) (*see* **93g:93004**)
Patton, Ron J. *see* **Burrows, Simon P.; Patel, Y., (93g:93004); Spurgeon, S. K., (93g:93004)** *and* **Patel, Y.; et al., (93h:93007)**
Peng, Xiaolong Adaptive pole placement for system with abnormal measurement data. (English summary) (*see* **93j:93007**)
Pugh, A. C. (*with* Jones, E. R. Ll.; Hayton, G. E.) General pole structure assignment in singular systems. (English summary) (*see* **93g:93006**)
— (*with* Johnson, D. S.; Hayton, G. E.) On conditions guaranteeing two polynomial matrices possess identical zero structures. (English summary) **93h:93033**
Qiang, Wen Yi *see* **Duan, Guang Ren**
Qin, Hua Shu On the asymptotic assignment of the bounds of decreasing rate for a time-varying linear control system. (English summary) **93m:93044**
Richard, J.-P. *see* **Saadane, A., (93g:93004)**
Rodman, Leiba Pole shifting for matrices over real algebras. (English summary) **93j:93062**
Rosenthal, Joachim New results in pole assignment by real output feedback. **93b:93052**
Saadane, A. (*with* Richard, J.-P.) A note on eigenvalue assignment for periodical linear systems. (English summary) (*see* **93g:93004**)
Saeki, Masami H^∞ control with pole assignment in a specified disc. (English summary) **93e:93038**
Schick, Irvin C. *see* **Mitter, Sanjoy K., 93g:93045**
Soma, H. *see* **Hagiwara, Tomomichi; et al., (93g:93005)**
Spurgeon, S. K. (*with* Patton, Ron J.) Eigenstructure assignment techniques applied to the variable structure control system (VSCS) design problem. (English summary) (*see* **93g:93004**)
Sternby, Jan *see* **Walgama, Kirthi S.**
Sun, Mao Xiang (*with* Wang, Shu Guang; Wu, Xue Man; Feng, Xi Sheng; Guan, Yu Lin) An algorithm for generalized predictive pole-placement feedforward control. (Chinese. English and Chinese summaries)
Sun, Yü I *see* **Chiang, Huann Keng; et al.**
Swarup, A. (*with* Gopal, M.) Eigenstructure assignment in robot tracking applications. (English summary)
Świerkosz, Marek Eigenvalue assignment for 2-D singular Roesser models. (English summary) (*see* **93c:93005**)
Syrmos, Vassilis L. (*with* Lewis, Frank L.) Robust eigenvalue assignment for generalized systems. (English summary)
Thorp, James S. *see* **Lu, Jin; et al., 93m:93043**
Tsai, Jason S. H. *see* **Chiang, Huann Keng; et al.**
Verde, C. (*with* Ortiz Marttelo, A.) Sensitivity minimization with closed-loop eigenvalues assignment. (English summary) (*see* **93h:93007**)
Walerius, Peter High precision and verified computation of pole assignment by state variable feedback. (English summary) (*see* **93i:65006**)
Walgama, Kirthi S. (*with* Sternby, Jan) On the convergence properties of adaptive pole-placement controllers with antiwindup compensators. (English summary)
Wang, Shu Guang *see* **Sun, Mao Xiang; et al.**
Watanabe, Keiji (*with* Yamada, Katsuhiko; Okuyama, T.) Finite spectrum assignment of neutral delay systems. (English summary) (*see* **93g:93005**)
— (*with* Nobuyama, Eitaku; Kitamori, Toshiyuki; Ito, Masami[2]) A new algorithm for finite spectrum assignment of single-input systems with time delay. (English summary) **93h:93034**
Wellstead, K. D. (*with* Daley, S.) On finding polynomial controllers with reduced pole sensitivity using state space methods. (*see* **93h:93007**)
Willems, Jacques L. *see* **Aeyels, Dirk, 93a:93053** *and* **93j:93058**
Woodham, C. A. (*with* Zinober, A. S. I.) Eigenvalue assignment for the sliding hyperplane. (*see* **93h:93007**)
Wu, Xue Man *see* **Sun, Mao Xiang; et al.**
Yamada, Katsuhiko *see* **Watanabe, Keiji; et al., (93g:93005)**
Yang, Zhi (*with* Liu, Xi Yuan[1]) An optimal prediction algorithm for self-tuning pole assignment PID controllers of systems with time-varying fractional delays. (Chinese. English and Chinese summaries)
Yaz, Engin On the average pole distribution of systems with receding horizon controllers. (English summary)
Yoshimura, Toshio *see* **Konishi, Katsunobu, (93j:93007)**
Zheng, Li Xin *see* **Chai, Tian You**
Zinober, A. S. I. *see* **Woodham, C. A., (93h:93007)**

Items with secondary classifications in 93B55

Aicardi, Michele (*with* Casalino, G.; Minciardi, Riccardo; Zoppoli, R.) On the existence of stationary optimal receding-horizon strategies for dynamic teams with common past information structures. (English summary)
Anderson, Brian D. O. *see* **Helmke, Uwe, 93g:93071**
Barabanov, A. E. (*with* Sokolov, Andreĭ Arianovich) Optimal stabilization of a linear discrete object with irregular interference in the object and in the measurements. (Russian. English, Russian and Ukrainian summaries) **93g:93070**
Borairi, M. *see* **Porter, Brian**
Casalino, G. *see* **Aicardi, Michele; et al.**
Celentano, Giovanni (*with* De Maria, Giuseppe) Positive linear parametrization of polynomials with zeros in prescribed regions. (Polish summary) **93b:93081**
Chang, Fan Jên (*with* Wang, Chi Hui; Fang, Chün Hsiung; Wang, Shêng Tê) Solving the generalized Bezout identity by a state space approach. (English summary) **93e:93008**
Chen, Ben M. (*with* Saberi, Ali; Sannuti, Peddapullaiah) Loop transfer recovery for general nonminimum phase non-strictly proper systems. I. Analysis. **93e:93032**
— (*with* Saberi, Ali; Sannuti, Peddapullaiah) Loop transfer recovery for general nonminimum phase non-strictly proper systems. II. Design. **93e:93033**
— (*with* Saberi, Ali; Sannuti, Peddapullaiah; Shamash, Yacov) Construction and parameterization of all static and dynamic H_2-optimal state feedback solutions, optimal fixed modes, and fixed decoupling zeros. (English summary) **93k:93048**
Chen, Cha'o Kuang *see* **Chen, Chieh Li; et al.**
Chen, Chieh Li (*with* Yang, Shyi Kae; Chen, Cha'o Kuang) On determining the root locations of an interval system. (English summary)
Chen, Wen De (*with* Qi, Xiang Dong; Deng, Shu Hui) The eigen-problem and period analysis of the discrete-event system. (English summary) **93m:93058**
— *see also* **Qi, Xiang Dong**

Chou, Jyh Horng (*with* Ho, Shinn Jang; Horng, Ing Rong) Robustness of disk-stability for perturbed large-scale systems. (English summary)
De Maria, Giuseppe *see* **Celentano, Giovanni, 93b:93081**
Deng, Shu Hui *see* **Chen, Wen De; et al., 93m:93058**
Dion, Jean Michel *see* **Trofino-Neto, Alexandre; et al., 93i:93109**
Duan, Guang Ren Solution to matrix equation $AV + BW = EVF$ and eigenstructure assignment for descriptor systems. **93e:93029**
Dugard, Luc *see* **Trofino-Neto, Alexandre; et al., 93i:93109**
(Fairbairn, N. A.) *see* **Zhang, Han Quan**
Fang, Chün Hsiung *see* **Chang, Fan Jên; et al., 93e:93008**
Fikar, Miroslav (*with* Jørgensen, Sten Bay) Multivariable constrained adaptive predictive control based on pole placement design. (English summary) (*see* **93f:93005**)
Foo, Y. K. (*with* Soh, Y. C.) Characterization of zero locations of polytopes of real polynomials. (English summary) **93f:93102**
Geddes, E. J. M. *see* **Tsai, Mi Ching; et al., 93d:93034**
Golub, Gene H. (*with* Kågström, Bo; Van Dooren, Paul) Direct block tridiagonalization of single-input single-output systems. **93b:93021**
(Grimble, M. J.) *see* **Zhang, Han Quan**
Helmke, Uwe (*with* Anderson, Brian D. O.) Hermitian pencils and output feedback stabilization of scalar systems. (English summary) **93g:93071**
Hernández-Lerma, Onésimo (*with* Muñoz de Özak, Myriam) Discrete-time Markov control processes with discounted unbounded costs: optimality criteria. **93h:93085**
Hersh, M. A. Adaptive algorithms for the simultaneous stabilization and decoupling of time-varying multivariable systems. (English summary) **93d:93070**
Ho, Shinn Jang *see* **Chou, Jyh Horng; et al.**
Horng, Ing Rong *see* **Chou, Jyh Horng; et al.**
Jørgensen, Sten Bay *see* **Fikar, Miroslav, (93f:93005)**
Kågström, Bo *see* **Golub, Gene H.; et al., 93b:93021**
Kautschitsch, Hermann Rings with feedback cyclization-property. **93a:93030**
Khametov, V. M. *see* **Piunovskii, A. B., 93j:49032**
Kipnis, M. M. Symbolic and chaotic dynamics of a pulse-width control system. (Russian) **93i:93065**
Knysh, B. A. A packet criterion for optimality in a problem of the control of a discrete system by two opponents. (Russian. Russian summary) **93m:90124**
Kollár, I. *see* **Pintelon, R., (93h:93009)**
Kuijper, M. (*with* Schumacher, J. M.) State space formulas for transfer poles at infinity. (English summary) **93m:93046**
K'ung, Fan Chü *see* **Lee, Chien-Hua; et al., 93e:93046**
Kuntsevich, A. V. *see* **Kuntsevich, V. M., 93m:93072**
Kuntsevich, V. M. (*with* Kuntsevich, A. V.) Asymptotic stability of a class of difference inclusions and robust stability of variable-parameter discrete systems. (Russian. English, Russian and Ukrainian summaries) **93m:93072**
Lee, Chien-Hua (*with* Li, Tzuu Hseng S.; K'ung, Fan Chü) *D*-stability analysis for discrete systems with a time delay. (English summary) **93e:93046**
Lewis, Frank L. *see* **Syrmos, Vassilis L., 93f:93068**
Li, Tzuu Hseng S. *see* **Lee, Chien-Hua; et al., 93e:93046**
Minciardi, Riccardo *see* **Aicardi, Michele; et al.**
Muñoz de Özak, Myriam *see* **Hernández-Lerma, Onésimo, 93h:93085**
Pintelon, R. (*with* Kollár, I.) Exact discrete time representation of continuous time systems. (English summary) (*see* **93h:93009**)
Piunovskii, A. B. (*with* Khametov, V. M.) New exactly solvable examples for controllable Markov chains with discrete time. (Russian. English and Ukrainian summaries) **93j:49032**
Porter, Brian (*with* Borairi, M.) Genetic design of linear multivariable feedback control systems using eigenstructure assignment. (English summary)
Postlethwaite, Ian *see* **Tsai, Mi Ching; et al., 93d:93034**
Qi, Xiang Dong (*with* Chen, Wen De) Output feedback and period assignment of discrete-event dynamic systems. (English and Chinese summaries)
— *see also* **Chen, Wen De; et al., 93m:93058**
Rachid, A. Two necessary conditions for the optimality of single input LQR. (English summary) **93f:93052**
Saberi, Ali *see* **Chen, Ben M.; et al., 93e:93032; 93e:93033** *and* **93k:93048**
Sannuti, Peddapullaiah *see* **Chen, Ben M.; et al., 93e:93032; 93e:93033** *and* **93k:93048**
Schumacher, J. M. *see* **Kuijper, M., 93m:93046**
Shamash, Yacov *see* **Chen, Ben M.; et al., 93k:93048**
Soh, Y. C. *see* **Foo, Y. K., 93f:93102**
Sokolov, Andreĭ Arianovich *see* **Barabanov, A. E., 93g:93070**
Syrmos, Vassilis L. (*with* Lewis, Frank L.) State feedback design using reduced-order nonsquare descriptions. (English summary) **93f:93068**
Trofino-Neto, Alexandre (*with* Dion, Jean Michel; Dugard, Luc) On the robustness of LQ regulators for discrete-time systems. (English summary) **93i:93109**
Tsai, Mi Ching (*with* Geddes, E. J. M.; Postlethwaite, Ian) Pole-zero cancellations and closed-loop properties of an H^∞ mixed sensitivity design problem. **93d:93034**
Tzafestas, Spyros G. *see* **Watanabe, Keigo, 93d:93085**
Van Dooren, Paul *see* **Golub, Gene H.; et al., 93b:93021**
Wang, Chi Hui *see* **Chang, Fan Jên; et al., 93e:93008**
Wang, Shêng Tê *see* **Chang, Fan Jên; et al., 93e:93008**
Watanabe, Keigo (*with* Tzafestas, Spyros G.) Generalized fixed-interval smoothers for discrete-time systems. (English summary) **93d:93085**
Willems, Jan C. Feedback in a behavioral setting. **93i:93025**
Woodham, C. A. (*with* Zinober, A. S. I.) Eigenvalue placement in a specified sector for variable structure control systems. (English summary) **93m:93022**
Xu, Pu Quan (*with* Xu, Xin He) Stabilization and pole placement for linear discrete event dynamic systems. (Chinese. English and Chinese summaries)
Xu, Xin He *see* **Xu, Pu Quan**
Yang, Shyi Kae *see* **Chen, Chieh Li; et al.**
Zhang, Han Quan Comment on: "H_∞ robust controller for self-tuning control applications. I, II, III" [Internat. J. Control **46** (1987), no. 4, 1429–1444; ibid. **46** (1987), no. 5, 1819–1840; ibid. **52** (1990), no. 1, 15–36] by M. J. Grimble and N. A. Fairbairn. (English summary)
Zinober, A. S. I. *see* **Woodham, C. A., 93m:93022**
Zoppoli, R. *see* **Aicardi, Michele; et al.**

93B60 Eigenvalue problems

Bien, Zeungnam *see* **Kim, Jin-Hoon, 93e:93039**
Conte, Giuseppe *see* **Wyman, B. F.; et al., 93j:93063**
Di Ruscio, David Maximal imaginary eigenvalues in optimal systems. **93d:93043**
Duan, Guang Ren Sensitivity analysis of characteristic spectra of feedback systems. (Chinese. Chinese summary)
Kim, Jin-Hoon (*with* Bien, Zeungnam) Some bounds of the solution of the algebraic Riccati equation. (English summary) **93e:93039**
Lin, Wen-Guo *see* **Wang, Shun Hsiang**
Misak, R. T. Determination of a spectral equation for a matrix-regularizer of an estimate for a solution of a system of linear equations. (Ukrainian)
Perdon, Anna-Maria *see* **Wyman, B. F.; et al., 93j:93063**
Sain, Michael K. *see* **Wyman, B. F.; et al., 93j:93063**
Wang, Shun Hsiang (*with* Lin, Wen-Guo) On the analysis of eigenvalue assignment robustness. (English summary)
Wu, Qi *see* **Zhang, Lin[3]**
Wyman, B. F. (*with* Sain, Michael K.; Conte, Giuseppe; Perdon, Anna-Maria) Algebraic and system-theoretic notions of poles and zeros for matrices of rational functions. (English summary) **93j:93063**
Zhang, Lin[3] (*with* Wu, Qi) The low order approximation of dominant eigenvector alignment robust controllers in 2-dimension systems. (Chinese. English and Chinese summaries)

Items with secondary classifications in 93B60

Ackner, Reuven (*with* Kailath, Thomas) On the Pták-Young generalization of the Schur-Cohn theorem. (English summary) **93i:93030**
Auba, T. (*with* Funahashi, Yasuyuki) Upper and lower bounds of Gramian for a class of perturbed linear systems. (English summary)
Bhat, M. Seetharama *see* **Pradhan, Satyabrata; et al.**
Bryson, Arthur E., Jr. *see* **El Ghaoui, Laurent; et al., 93f:93063**
Carrier, Alain *see* **El Ghaoui, Laurent; et al., 93f:93063**
Chou, Jyh Horng *see* **Horng, Huey Yang; et al., 93m:93070**
Di Ruscio, David On the location of LQ-optimal closed-loop poles. **93e:93035**
El Ghaoui, Laurent (*with* Carrier, Alain; Bryson, Arthur E., Jr.) Linear quadratic minimax controllers. **93f:93063**
Funahashi, Yasuyuki *see* **Auba, T.**
Grasselli, Osvaldo Maria (*with* Longhi, Sauro) Invariant zeros of linear systems connected in series. **93f:93038**
Horng, Huey Yang (*with* Chou, Jyh Horng; Horng, Ing Rong) Robustness of eigenvalue clustering in various regions of the complex plane for perturbed systems. (English summary) **93m:93070**
Horng, Ing Rong *see* **Horng, Huey Yang; et al., 93m:93070**
Kailath, Thomas *see* **Ackner, Reuven, 93i:93030**
Kitamori, Toshiyuki *see* **Tsumura, K., (93g:93006)**
Kobayashi, Toshihiro Zeros and design of control systems for distributed parameter systems. (English summary) **93f:93070**
Longhi, Sauro *see* **Grasselli, Osvaldo Maria, 93f:93038**
McMillan, Christine Alicia Stabilization of the wave equation with finite range Dirichlet boundary feedback. (English summary) **93k:35158**
Modi, V. J. *see* **Pradhan, Satyabrata; et al.**
Ohmori, Hiromitsu (*with* Sano, A.) Robust adaptive control system based on extended leaky integration method. (English summary) (*see* **93i:93007**)
Pandolfi, Luciano Some properties of distributed control systems with finite-dimensional input space. **93d:93049**
Pradhan, Satyabrata (*with* Modi, V. J.; Bhat, M. Seetharama) Relationship between the controllability Grammian and closed-loop eigenvalues: the single input case. (English summary)
Sain, Michael K. (*with* Schrader, C. B.) Feedback, zeros, and blocking dynamics. (English summary) (*see* **93g:93005**)
Sano, A. *see* **Ohmori, Hiromitsu, (93i:93007)**
Schrader, C. B. *see* **Sain, Michael K., (93g:93005)**
Tsumura, K. (*with* Kitamori, Toshiyuki) Structural minor primeness in multi-variable polynomial matrices and its applications to 2-D systems. (English summary) (*see* **93g:93006**)

93B99 None of the above, but in this section

Items with secondary classifications in 93B99

Dewilde, Patrick M. A course on the algebraic Schur and Nevanlinna-Pick interpolation problems. **93c:47022**
Toma, Ileana On some connections between Lie derivatives and the linear equivalence method. **93b:34018**

93Cxx Control systems, guided systems

93C05 Linear

Agashe, S. D. *see* **Rao, Ashok, (93g:93003)**
Banaszuk, A. (*with* Kocięcki, M.; Lewis, Frank L.) Kalman decomposition for implicit linear systems. (English summary) **93h:93035**
Bernhardsson, Bo (*with* Sternad, Mikael) Feedforward control is dual to deconvolution. (English summary) **93j:93064**
Boldin, M. V. Testing hypotheses in linear control systems. (Russian) (*see* **93g:00022**)

Brunovský, Pavol Controlling the dynamics of scalar reaction diffusion equations by finite-dimensional controllers. (*see* **93d:93006**)
Camacho, E. F. Constrained generalized predictive control. (English summary)
Carrière, A. *see* **Georges, D.; et al.**
Chang, Fan Jên *see* **Liu, Chin Hsing; et al.**
Chou, Yung Shan *see* **Liu, Chin Hsing; et al.**
Cioranescu, Doïna (*with* Donato, Patrizia; Zuazua, Enrike) Approximate controllability for the wave equation with oscillating coefficients. (*see* **93b:49001**)
Conte, Giuseppe (*with* Perdon, Anna-Maria) Robust disturbance decoupling problem for parameter dependent families of linear systems. (English summary)
— *see also* **Perdon, Anna-Maria; et al., 93b:93053**
Dale, Wilbur N. (*with* Smith, Malcolm Clive) A note on eventually time-invariant systems. **93a:93058**
Deistler, Manfred Identification of linear systems. (English summary) (*see* **93g:93007**)
Dement'eva, A. M. (*with* Lusnikov, A. V.; Tronel', Zh.) Positive periodic oscillations in controlled systems. (Russian. Russian summary)
Donato, Patrizia *see* **Cioranescu, Doïna; et al., (93b:49001)**
Egupov, N. D. (*with* Lapin, S. V.) Determinant and statistical analysis of linear time-varying systems via block-pulse functions. (English summary)
Freudenberg, J. S. *see* **Zhang, Zhihong, 93m:93047**
Georges, D. (*with* Carrière, A.; Merigot, J. C.) Commande avec rejet asymptotique de biais constants: l'approche d'état et l'approche polynômiale. (English and French summaries) [Control with asymptotic rejection of perturbations constant in time: the state approach and the polynomial approach]
Georgiou, Tryphon T. (*with* Smith, Malcolm Clive) Linear systems and robustness: a graph point of view. (English summary) (*see* **93f:93006**)
Grujić, Ljubomir T. (*with* Mounfield, William Pratt, Jr.) Natural tracking control of linear systems. (English summary) (*see* **93g:93004**)
— *see also* **Mounfield, William Pratt, Jr., (93g:93004)**
Gu, Xing Yuan (*with* Mao, Zhi Zhong) A predictive controller for stable open-loop systems. (Chinese. English and Chinese summaries)
Harris, S. L. *see* **Schilling, Robert J.; et al., 93h:93036**
Hsieh, Gary C. (*with* Safonov, Michael G.) Conservatism of the gap metric. (English summary) **93m:93045**
Ibrahim, E. Y. (*with* Lovass-Nagy, Victor; Mukundan, Rangaswamy; Schilling, Robert J.) Remarks on optimal control and state estimation of a class of linear time-invariant descriptor-variable control systems. (English summary) **93j:93065**
Inaba, Hiroshi *see* **Wang, Weiben**
Jezierski, E. Local assignability of linear time-invariant systems. (English summary) (*see* **93e:00021**)
Karakostas, George Terminal controllability in cooperative systems. (*see* **93f:34004**)
Kocięcki, M. *see* **Banaszuk, A.; et al., 93h:93035**
Kratz, Werner On a certain asymptotic behaviour of time-invariant Riccati matrix differential equations. **93j:93066**
Kuijper, M. (*with* Schumacher, J. M.) State space formulas for transfer poles at infinity. (English summary) **93m:93046**
— Descriptor representations without direct feedthrough term. **93a:93059**
Kurek, Jerzy E. On singular linear systems. (English summary) (*see* **93c:93005**)
Lapin, S. V. *see* **Egupov, N. D.**
Lewis, Frank L. *see* **Banaszuk, A.; et al., 93h:93035**
Liu, Chin Hsing (*with* Chou, Yung Shan; Chang, Fan Jên) Decoupling of continuous-time linear time-invariant systems using generalized sampled-data hold functions.
Longhi, Sauro *see* **Perdon, Anna-Maria; et al., 93b:93053**
Lovass-Nagy, Victor *see* **Schilling, Robert J.; et al., 93h:93036** *and* **Ibrahim, E. Y.; et al., 93j:93065**
Lusnikov, A. V. *see* **Dement'eva, A. M.; et al.**
Mao, Zhi Zhong *see* **Gu, Xing Yuan**
Mastorakis, N. E. (*with* Theodorou, N. J.) State space model factorization in m-dimensions. Applications in stability theory.
Merigot, J. C. *see* **Georges, D.; et al.**
Mounfield, William Pratt, Jr. (*with* Grujić, Ljubomir T.) High-gain natural tracking control of linear systems. (English summary) (*see* **93g:93004**)
— *see also* **Grujić, Ljubomir T., (93g:93004)**
Mukundan, Rangaswamy *see* **Ibrahim, E. Y.; et al., 93j:93065**
Nieuwenhuis, J. W. Restricted sums of linear systems and transfer-like sums. (English summary) **93j:93067**
Perdon, Anna-Maria (*with* Conte, Giuseppe; Longhi, Sauro) Invertibility and inversion of linear periodic systems. **93b:93053**
— *see also* **Cónte, Giuseppe**
Pradeep, A. K. (*with* Shahruz, S. M.) A control law that achieves simultaneous tracking for a group of systems in finite time. (English summary)
Rao, Ashok (*with* Agashe, S. D.) Matrix polynomials—a new tool in linear system theory. (English summary) (*see* **93g:93003**)
Safonov, Michael G. *see* **Hsieh, Gary C., 93m:93045**
Schilling, Robert J. (*with* Harris, S. L.; Lovass-Nagy, Victor) Tracking control of linear time-invariant descriptor systems. (English summary) **93h:93036**
— *see also* **Ibrahim, E. Y.; et al., 93j:93065**
Schumacher, J. M. *see* **Kuijper, M., 93m:93046**
Shahruz, S. M. *see* **Pradeep, A. K.**
Smith, Malcolm Clive *see* **Dale, Wilbur N., 93a:93058** *and* **Georgiou, Tryphon T., (93f:93006)**
Sternad, Mikael *see* **Bernhardsson, Bo, 93j:93064**
Theodorou, N. J. *see* **Mastorakis, N. E.**
Tronel', Zh. *see* **Dement'eva, A. M.; et al.**
Wang, Weiben (*with* Inaba, Hiroshi) Block decoupling for linear systems over unique factorization domains. (Japanese. English summary)
Zhang, Zhihong (*with* Freudenberg, J. S.) Formulas for minimum-phase/all-pass factorization of discrete-time transfer functions. (English summary) **93m:93047**
Zuazua, Enrike *see* **Cioranescu, Doïna; et al., (93b:49001)**

Items with secondary classifications in 93C05

Aeyels, Dirk (*with* Willems, Jacques L.) Pole assignment for linear time-invariant systems by periodic memoryless output feedback. (English summary) **93j:93058**
Ailon, Amit Disturbance decoupling with stability and impulse-free response in singular systems. (English summary) **93g:93041**
Al-Saggaf, Ubaid M. Approximate balanced-truncation model reduction for large scale systems. (English summary) **93j:93010**
Anderson, Brian D. O. *see* **Mansour, Mohamed, 93j:93109**
Aplevich, J. D. ★ Implicit linear systems. **93b:93001**
Araki, Mituhiko *see* **Choe, Yeon-Wook, 93f:93083**
Arvanitis, K. G. *see* **Paraskevopoulos, P. N., 93k:93046**
Baird, C. Robert *see* **Li, X.**
Balakrishnan, V. (*with* Boyd, Stephen P.) On computing the worst-case peak gain of linear systems. (English summary) **93j:93085**
Barabanov, A. E. Controllability of multidimensional polynomial linear systems. (Russian. English summary) **93d:93013**
Barbieri, Enrique (*with* Özgüner, Ümit) A new minimum-time control law for a one-mode model of a flexible slewing structure. (English summary)
Bartlett, Andrew C. Vertex results for the steady state analysis of uncertain systems. (English summary) **93j:93100**
Başer, Ulviye (*with* Özçaldiran, Kadri) On observability of singular systems. **93d:93016**
Basile, Giuseppe (*with* Marro, Giovanni) ★ Controlled and conditioned invariants in linear system theory. **93e:93001**
Bassong-Onana, A. (*with* Darouach, Mohamed) Optimal filtering for singular systems using orthogonal transformations. (English summary) **93i:93120**
Berckmans, Daniel *see* **De Moor, Bart L. R.; et al.**
Billings, S. A. *see* **Tsang, K. M.**
Bobylëv, N. A. (*with* Burman, Yu. M.; Korovin, S. K.) Error estimation for the harmonic balance method. (Russian. Russian summary) **93f:34068**
Boichuk, L. M. The dynamic and static features of closed balance systems. (Russian. English, Russian and Ukrainian summaries) **93f:93012**
Bondaros, Yu. G. (*with* Semenov, A. V.) Optimal control according to the H^∞-criterion for continuous and discrete systems. (Russian)
Bongers, Peter M. M. (*with* Bosgra, Okko H.) Normalized coprime factorizations for systems in generalized state-space form. (English summary) **93j:93033**
Bosgra, Okko H. *see* **Bongers, Peter M. M., 93j:93033**
Boyd, Stephen P. *see* **Balakrishnan, V., 93j:93085**
Braverman, M. È. (*with* Rozonoèr, L. I.) Robustness of linear dynamical systems. I. (Russian) **93f:93098**
— (*with* Rozonoèr, L. I.) Robustness of linear dynamical systems. II. (Russian) **93f:93099**
Burman, Yu. M. *see* **Bobylëv, N. A.; et al., 93f:34068**
Castelan, Eugênio B. (*with* Hennet, Jean-Claude) Eigenstructure assignment for state constrained linear continuous time systems. **93a:93055**
Chang, Fan Jên (*with* Wang, Chi Hui; Fang, Chün Hsiung; Wang, Shêng Tê) Solving the generalized Bezout identity by a state space approach. (English summary) **93e:93008**
Chen, Ben M. (*with* Saberi, Ali; Sannuti, Peddapullaiah; Shamash, Yacov) Construction and parameterization of all static and dynamic H_2-optimal state feedback solutions, optimal fixed modes, and fixed decoupling zeros. (English summary) **93k:93048**
Chen, Lin[4] (*with* Tang, Gong You; Huang, Xiao Han) A new conclusion on the parameter stability domain of linear time-invariant large-scale systems. (English and Chinese summaries) **93i:93090**
Cheng, Chiu Pin *see* **Li, Tzuu Hseng S.; et al.**
Choe, Yeon-Wook (*with* Araki, Mituhiko) Control of serial sampling systems. (English summary) **93f:93083**
Cioranescu, Doïna (*with* Donato, Patrizia; Zuazua, Enrike) Exact boundary controllability for the wave equation in domains with small holes. (English and French summaries) **93k:35037**
Clements, David J. *see* **Wang, Yue Yun; et al., 93j:93048**
Conrad, Francis (*with* Leblond, Juliette; Marmorat, Jean-Paul) Boundary control and stabilization of the one-dimensional wave equation. **93e:93005**
Craig, Roy R., Jr. *see* **Su, Tzu-Jeng**
Cuyt, Annie (*with* Ogawa, S.; Verdonk, B.) Model reduction of multidimensional linear shift-invariant recursive systems using Padé techniques. (English summary) **93e:93009**
Dahleh, Munther A. (*with* Khammash, Mustafa H.) Controller design for plants with structured uncertainty. (English summary) **93j:93040**
ten Dam, A. A. Stable numerical integration of dynamical systems subject to equality state-space constraints. **93c:70002**
Darouach, Mohamed (*with* Zasadzinski, Michel; Mehdi, D.) State estimation of stochastic singular linear systems. (English summary)
— *see also* **Bassong-Onana, A., 93i:93120**
Dauphin-Tanguy, G. *see* **Sueur, C., 93k:93008**
David, Johan *see* **De Moor, Bart L. R.; et al.**
Delgado A., Víctor *see* **Henríquez, Hernán R.; et al., 93f:93039**
De Moor, Bart L. R. (*with* David, Johan; Vandewalle, Joos; De Moor, Maarten; Berckmans, Daniel) Trade-offs in linear control system design: a practical example. (English summary)
De Moor, Maarten *see* **De Moor, Bart L. R.; et al.**
Dewilde, Patrick M. *see* **van der Veen, Alle-Jan, (93g:93006)**
Dias Peres, Pedro Luis *see* **Geromel, J. C.; et al., 93e:93024**
Di Ruscio, David On the location of LQ-optimal closed-loop poles. **93e:93035**
Donato, Patrizia *see* **Cioranescu, Doïna; et al., 93k:35037**
Doyle, John C. (*with* Francis, Bruce Allen; Tannenbaum, Allen R.) ★ Feedback control theory. **93k:93002**
— *see also* **Packard, Andy, 93k:93042**
Duan, Guang Ren (*with* Hu, Wen Yuan) Decoupling control of linear systems via output feedback. (Chinese. English and Chinese summaries)
— Solutions of the equation $AV + BW = VF$ and their application to eigenstructure assignment in linear systems. (English summary) **93j:93059**
Egorov, S. N. Solution of a Lyapunov matrix differential equation with constant coefficients. (Russian. Russian summary) **93m:34096**

Fang, Chün Hsiung *see* **Chang, Fan Jên; et al., 93e:93008**
Fang, Hua Jing (*with* Tu, Jian) A simplification of the restrictive conditions for the l^1 optimal design problem for multivariable systems when the full rank condition is not satisfied. (Chinese. English and Chinese summaries)
Fashoro, M. (*with* Hájek, O.; Loparo, Kenneth A.) Controllability properties of constrained linear systems. **93i:93017**
Fel'dman, M. A. (*with* Shimansky, Yu. P.) Optimal control system based on a neural network. (*see* **93j:92001b**)
Fliess, Michel A remark on Willems' trajectory characterization of linear controllability. **93g:93022**
Francis, Bruce Allen *see* **Doyle, John C.; et al., 93k:93002**
Frank, Paul M. *see* **Wang, Yue Yun; et al., 93j:93048**
Gabasov, R. F. (*with* Kirillova, F. M.; Kostyukova, O. I.) Construction of optimal estimators for linear dynamical systems. (Russian. Russian summary) **93k:93020**
Georgiou, Tryphon T. (*with* Smith, Malcolm Clive) Topological approaches to robustness. (English summary) **93k:93038**
Geromel, J. C. (*with* Dias Peres, Pedro Luis; Souza, S. R.) $\mathcal{H}_2$ guaranteed cost control for uncertain continuous-time linear systems. **93e:93024**
Gu, Cai Xing Eliminating the genericity conditions in the skew Toeplitz operator algorithm for H^∞-optimization. (English summary) **93j:93042**
Hájek, O. *see* **Fashoro, M.; et al., 93i:93017**
Halanay, Aristide Advances in linear control theory and Riccati equations. (English summary) **93k:93003**
Hashim, G. (*with* Rachid, A.; Humbert, C.) Aggregation method for model reduction via Schur decomposition. (English summary) (*see* **93c:93005**)
Hennet, Jean-Claude *see* **Castelan, Eugênio B., 93a:93055**
Henríquez, Hernán R. (*with* Delgado A., Víctor; San Martín A., María E.) Invariance properties of trajectories in linear control systems. (Spanish) **93f:93039**
Herrera H., Angel N. *see* **Lafay, J. F.; et al., 93i:93031**
Hinrichsen, Diederich (*with* Pritchard, A. J.) Robustness measures for linear systems with application to stability radii of Hurwitz and Schur polynomials. **93f:93103**
van den Hof, Paul M. J. Discriminability of linear models under closed loop observations. (English summary) (*see* **93g:93005**)
— System order and structure indices of linear systems in polynomial form. **93b:93071**
Hotz, Anthony F. Direct variance design—a multiobjective control theory. (English summary) **93k:93105**
Hu, Wen Yuan *see* **Duan, Guang Ren**
Huang, Xiao Han *see* **Chen, Lin[4]; et al., 93i:93090**
Humbert, C. *see* **Hashim, G.; et al., (93c:93005)**
Imae, J. (*with* Perkins, J. E.; Moore, John Barratt) Toward time-varying balanced realization via Riccati equations. **93b:93025**
Ioannou, Petros A. *see* **Tsakalis, Kostas S., 93k:93006**
Juang, Jer-Nan *see* **Phan, Minh; et al., 93c:93054**
Kaczorek, Tadeusz General response formula, controllability and observability for singular 2-D linear systems with variable coefficients. (English summary) (*see* **93c:93005**)
— ★ Linear control systems. Vol. 1. **93k:93001**
— Invertibility of 2-D linear systems. (English summary) **93e:93041**
Kano, Hiroyuki[1] (*with* Nishimura, Toshimitsu) Generalized existence conditions for real symmetric solutions of algebraic matrix Riccati equations. (English summary) **93i:93052**
— Self-excited oscillations in periodic matrix Riccati equations. (English summary) **93j:34058**
Karamancıoğlu, A. (*with* Lewis, Frank L.) Geometric theory for the singular Roesser model. **93b:93028**
Karampetakis, N. P. (*with* Vardulakis, A. I.) Matrix fractions and full system equivalence. (English summary) **93m:93024**
Katayama, Tohru A simple state-space approach to spectral factorization for discrete-time system. (English summary) **93i:93044**
Khammash, Mustafa H. *see* **Dahleh, Munther A., 93j:93040**
Kimura, Hidenori (J, J')-lossless factorization based on conjugation. (English summary) **93j:93044**
Kimura, Morishige Conversion of discrete-time time-invariant linear systems into continuous systems. (English summary) **93k:93027**
Kirillova, F. M. *see* **Gabasov, R. F.; et al., 93k:93020**
Korovin, S. K. *see* **Bobylëv, N. A.; et al., 93f:34068**
Kostyukova, O. I. *see* **Gabasov, R. F.; et al., 93k:93020**
Koumboulis, F. N. *see* **Paraskevopoulos, P. N., 93b:93045**
Kozyakin, V. S. (*with* Pokrovskiĭ, A. V.) The role of controllability-type properties in the study of the stability of desynchronized dynamical systems. (Russian) **93i:93018**
Krut'ko, P. D. Algorithms for the control of the motion of dynamical systems with minimal information. (Russian) **93i:93053**
Kučera, Vladimír ★ Analysis and design of discrete linear control systems. **93j:93002**
Kuijper, M. (*with* Schumacher, J. M.) Minimality of descriptor representations under external equivalence. **93f:93030**
Lafay, J. F. (*with* Zagalak, Petr; Herrera H., Angel N.) Reduced form of the interactor matrix. (English summary) **93i:93031**
Lebedev, A. L. *see* **Vorokhobko, Yu. A.**
Leblond, Juliette *see* **Conrad, Francis; et al., 93e:93005**
Lee, L. (*with* Tits, André L.) On phase information in multivariable systems. (English summary) (*see* **93g:93005**)
Levkov, S. P. The solvability of the problem of synthesizing a regulator in a closed linear system. (Russian. English summary) **93b:93044**
Lewis, Frank L. A tutorial on the geometric analysis of linear time-invariant implicit systems. **93b:93005**
— *see also* **Karamancıoğlu, A., 93b:93028**
Li, Jen Hsing *see* **Li, Tzuu Hseng S., 93e:93051**
Li, Tzuu Hseng S. (*with* Cheng, Chiu Pin; Sun, Yü I) Model-following control of linear proper nonminimum-phase systems. (English summary)
— (*with* Li, Jen Hsing) Stabilization bound of discrete two-time-scale systems. **93e:93051**
Li, Wen Hua A class of dynamic input-output models with variable coefficients. (Chinese. Chinese summary)
Li, X. (*with* Baird, C. Robert) A disturbance rejection self-tuning controller for a class of MIMO nonminimum phase systems. (English summary)
Liu, G. P. Input space and output performance in the frequency domain for critical systems. (English summary)
Liu, Wan Quan (*with* Xi, Yu Geng; Zhang, Zhong Jun) A geometric characterization of generalized decentralized systems. (Chinese. English and Chinese summaries)
Liu, Yong Qing (*with* Xie, Sheng Li) On the robust stability of interval neutral type control systems with time-delays. (Polish summary) **93d:93065**
Longman, Richard W. *see* **Phan, Minh; et al., 93c:93054**
Loparo, Kenneth A. *see* **Fashoro, M.; et al., 93i:93017**
Lovass-Nagy, Victor (*with* Powers, David L.; Schilling, Robert J.) On inversion of linear descriptor-variable control systems containing input derivatives. (English summary) **93d:93025**
Luenberger, David G. A double look at duality. (English summary) **93k:49033**
Mansour, Mohamed (*with* Anderson, Brian D. O.) Kharitonov's theorem and the second method of Lyapunov. (English summary) **93j:93109**
Marmorat, Jean-Paul *see* **Conrad, Francis; et al., 93e:93005**
Marro, Giovanni *see* **Basile, Giuseppe, 93e:93001**
Martin, Clyde Franklin (*with* Stamp, Mark) Gaussian quadrature and linear systems. **93a:41054**
Mehdi, D. *see* **Darouach, Mohamed; et al.**
Moore, John Barratt *see* **Imae, J.; et al., 93b:93025**
(Mosca, Edoardo) *see* H_∞**-control theory, 93d:93005**
Nakamura, Yoshimasa Isospectral deformations of the state-feedback matrix and integrable Hamiltonian systems. (English summary) (*see* **93g:93005**)
Nazin, A. V. Informational inequalities in a problem of the adaptive control of a multidimensional linear object. (Russian. Russian summary) **93f:93075**
Neĭmark, Yu. I. The measure of robust stability and modality of linear systems. (Russian) **93i:93101**
Nguyễn Huỳnh Phán On the topology of the space of reachable skew-symmetric Hamiltonian linear systems. (Italian summary) **93b:58056**
Nikitin, S. V. (*with* Prätzel-Wolters, D.) Multiparameter polynomial adaptive stabilizers. **93e:93054**
Nishimura, Toshimitsu *see* **Kano, Hiroyuki[1], 93i:93052**
Ogawa, S. *see* **Cuyt, Annie; et al., 93e:93009**
Özçaldiran, Kadri *see* **Başer, Ulviye, 93d:93016**
Özgüler, A. Bülent *see* **Ünyelioğlu, Konur Alp, 93f:93116**
Özgüner, Ümit *see* **Barbieri, Enrique**
Packard, Andy (*with* Doyle, John C.) The complex structured singular value. (English summary) **93k:93042**
Pandolfi, Luciano Dynamic stabilization of systems with input delays. **93k:93096**
— *see also* H_∞**-control theory, 93d:93005**
Paraskevopoulos, P. N. (*with* Arvanitis, K. G.) Output feedback uniform decoupling problem of linear time-varying analytic systems. (English summary) **93k:93046**
— (*with* Koumboulis, F. N.) A new approach to the decoupling problem of linear time-invariant systems. **93b:93045**
Perkins, J. E. *see* **Imae, J.; et al., 93b:93025**
Phan, Minh (*with* Juang, Jer-Nan; Longman, Richard W.) Identification of linear multivariable systems by identification of observers with assigned real eigenvalues. **93c:93054**
Pokrovskiĭ, A. V. *see* **Kozyakin, V. S., 93i:93018**
Powers, David L. *see* **Lovass-Nagy, Victor; et al., 93d:93025**
Prätzel-Wolters, D. *see* **Nikitin, S. V., 93e:93054**
Pritchard, A. J. *see* **Hinrichsen, Diederich, 93f:93103**
Qin, Hua Shu On the asymptotic assignment of the bounds of decreasing rate for a time-varying linear control system. (English summary) **93m:93044**
Rachid, A. *see* **Hashim, G.; et al., (93c:93005)**
Ragab, M. Zaki Decoupling control problem with nonquadratic criteria. (English summary)
Rajgopal, K. *see* **Sivaramakumar, G. R., (93g:93003)**
Rao, Ming *see* **Xia, Qijun; et al.**
Rodionova, A. G. On the multivalued local synthesis of a linear system in the critical case. (Russian. Russian summary) (*see* **93m:00031**)
Rozonoèr, L. I. *see* **Braverman, M. Ė., 93f:93098** *and* **93f:93099**
Saberi, Ali *see* **Chen, Ben M.; et al., 93k:93048**
San Martín A., María E. *see* **Henríquez, Hernán R.; et al., 93f:93039**
Sannuti, Peddapullaiah *see* **Chen, Ben M.; et al., 93k:93048**
Schilling, Robert J. *see* **Lovass-Nagy, Victor; et al., 93d:93025**
Schumacher, J. M. *see* **Kuijper, M., 93f:93030**
Semenov, A. V. *see* **Bondaros, Yu. G.**
Shamash, Yacov *see* **Chen, Ben M.; et al., 93k:93048**
Shimansky, Yu. P. *see* **Fel'dman, M. A., (93j:92001b)**
Shinners, Stanley M. ★ Modern control system theory and design. **93j:93004**
Sinha, Naresh K. ★ Linear systems. **93d:93001**
Sivaramakumar, G. R. (*with* Rajgopal, K.) Multiple model matching and control system design. (English summary) (*see* **93g:93003**)
Sklyar, G. M. Exact controllability of a linear equation with an unbounded operator. (Russian) **93i:93021**
Skvortsov, L. M. Synthesis of linear systems by the method of polynomial equations. (Russian. Russian summary)
Smith, Malcolm Clive *see* **Georgiou, Tryphon T., 93k:93038**
Sobel, Kenneth M. *see* **Su, Wei, 93j:93081**
Soh, C. B. Frequency domain criteria for strict aperiodicity of linear interval systems. (English summary) **93k:93028**
Souza, S. R. *see* **Geromel, J. C.; et al., 93e:93024**
Sparmann, Uwe Derivation of high quality tests for large heterogeneous circuits: floating-point operations. (English summary) **93j:94039**
Stamp, Mark *see* **Martin, Clyde Franklin, 93a:41054**
Su, Tzu-Jeng (*with* Craig, Roy R., Jr.) Control design based on a linear state function observer. (English summary)

Su, Wei (*with* Sobel, Kenneth M.) A unified theory for the CGT approach to adaptive control. **93j:93081**
Subrahmanyam, M. B. Optimal disturbance rejection and performance robustness in linear systems. **93a:93052**
Sueur, C. (*with* Dauphin-Tanguy, G.) Grassmann algebra and bond-graph modelling. (English summary) **93k:93008**
Sugimoto, Sueo A model reduction algorithm via information theoretical approach. (English summary) **93h:93015**
Sun, You Xian *see* **Xia, Qijun; et al.**
Sun, Yū I *see* **Li, Tzuu Hseng S.; et al.**
Szczepaniak, Piotr S. A contribution to matrix equations arising in system theory. (English summary) **93k:15005**
Tang, Gong You *see* **Chen, Lin[4]; et al., 93i:93090**
Tannenbaum, Allen R. *see* **Doyle, John C.; et al., 93k:93002**
Tits, André L. *see* **Lee, L., (93g:93005)**
Tornambè, Antonio Output feedback stabilization of a class of nonminimum phase nonlinear systems. (English summary) **93h:93067**
Trzaska, Z. W. The algorithm for computing nonmonic second order multivariable systems. (English summary) **93g:93037**
Tsakalis, Kostas S. (*with* Ioannou, Petros A.) ★ Linear time-varying systems. **93k:93006**
Tsang, K. M. (*with* Billings, S. A.) Identification of multi-class linear and nonlinear systems. (English summary)
Tsui, Chia-Chi On the solution to matrix equation $TA - FT = LC$ and its applications. (English summary) **93i:65050**
Tsypkin, Ya. Z. (*with* Vishnyakov, A. N.) Robust nominal control systems with a standard model. (Russian) **93g:93033**
Tu, Jian *see* **Fang, Hua Jing**
Unbehauen, H. (*with* Vakilzadeh, I.) Feedforward technique in rendezvous problems for n identical simple-integral plants. (English summary) **93h:93018**
Ünyelioğlu, Konur Alp (*with* Özgüler, A. Bülent) Reliable decentralized stabilization of feedforward and feedback interconnected systems. (English summary) **93f:93116**
Vakilzadeh, I. *see* **Unbehauen, H., 93h:93018**
Vandewalle, Joos *see* **De Moor, Bart L. R.; et al.**
Vardulakis, A. I. *see* **Karampetakis, N. P., 93m:93024**
van der Veen, Alle-Jan (*with* Dewilde, Patrick M.) Orthogonal embedding theory for contractive time-varying systems. (English summary) (*see* **93g:93006**)
Verdonk, B. *see* **Cuyt, Annie; et al., 93e:93009**
Vishnyakov, A. N. *see* **Tsypkin, Ya. Z., 93g:93033**
Vorokhobko, Yu. A. (*with* Lebedev, A. L.) Theory of constructing optimal controllers in oscillatory systems under conditions of incomplete information. (Russian)
Voronov, A. A. Design of modal controllers that act on the basis of measured output and input of a linear plant. (Russian)
Wang, Chi Hui *see* **Chang, Fan Jēn; et al., 93e:93008**
Wang, Shêng Tê *see* **Chang, Fan Jēn; et al., 93e:93008**
Wang, Yue Yun (*with* Frank, Paul M.; Clements, David J.) The robustness properties of the linear quadratic regulators for singular systems. (English summary) **93j:93048**
Weyer, E. A recursive decentralized parameter estimator for a general linear SISO-system. (English summary) (*see* **93h:93009**)
Willems, Jacques L. *see* **Aeyels, Dirk, 93j:93058**
(Wilson, Derek R.) *see* **Kaczorek, Tadeusz, 93k:93001**
van der Woude, J. W. Almost noninteracting control for linear systems with exogenous inputs and outputs. (English summary) **93j:93055**
Xi, Yu Geng *see* **Liu, Wan Quan; et al.**
Xia, Qijun (*with* Rao, Ming; Sun, You Xian; Ying, Yiqun) New technique for decoupling control. (English summary)
Xie, Sheng Li *see* **Liu, Yong Qing, 93d:93065**
Yakovenko, G. N. Nonstationary symmetries in systems with control. (Russian) (*see* **93d:58002**)
Ying, Yiqun *see* **Xia, Qijun; et al.**
Zagalak, Petr *see* **Lafay, J. F.; et al., 93i:93031**
Zasadzinski, Michel *see* **Darouach, Mohamed; et al.**
Zaslavskiĭ, B. G. Eventually nonnegative realization of difference control systems. **93g:93020**
Zhang, Zhong Jun *see* **Liu, Wan Quan; et al.**
Zuazua, Enrike *see* **Cioranescu, Doïna; et al., 93k:35037**

Items listed otherwise than by author

Como ★ H_∞-control theory. **93d:93005**
H_∞-control theory ★ H_∞-control theory. **93d:93005**
Lecture Notes in Mathematics ★ H_∞-control theory. **93d:93005**
Session:
H_∞-Control Theory ★ H_∞-control theory. **93d:93005**

93C10 Nonlinear

Bastin, G. *see* **Jarachi, F.; et al., (93g:93004)** *and* **Dasgupta, Soura; et al., (93h:93009)**
Borne, Pierre (*with* Radhy, Nour-Eddine) On some recent results in the field of constrained dynamical systems. (English summary) (*see* **93e:00021**)
Byrnes, Christopher I. (*with* Hu, Xiao Ming) The zero dynamics algorithm for general nonlinear systems and its application in exact output tracking. (English summary) **93i:93063**
Campion, Guy *see* **Schwartz, Carla A., 93a:93061** *and* **Dasgupta, Soura; et al., (93h:93009)**
Cao, Li[2] *see* **Zheng, Yu Fan, (93g:93006)**
Chase, Christopher (*with* Serrano, Joseph; Ramadge, Peter J.) Periodicity and chaos from switched flow systems: contrasting examples of discretely controlled continuous systems. (English summary) **93j:93068**
Chen, Guan Rong (*with* Dong, Xiaoning) On feedback control of chaotic nonlinear dynamic systems. (English summary) **93g:93046**
Chen, Hua Ling (*with* Dai, De Pei) Using the theory of Volterra series to analyze the transfer functions of a hysteresis nonlinear system. (Chinese. English and Chinese summaries)
Chen, L. *see* **Dasgupta, Soura; et al., (93h:93009)**
Cheng, Dai Zhan Design of zero dynamics for a class of nonlinear systems. (English summary) (*see* **93g:93006**)
Dahleh, Munther A. (*with* Shamma, Jeff S.) Rejection of persistent bounded disturbances: nonlinear controllers. **93g:93047**
Dai, De Pei *see* **Chen, Hua Ling**
Dasgupta, Soura (*with* Gevers, Michel; Bastin, G.; Campion, Guy; Chen, L.) Identifiability of scalar linearly parametrized polynomial systems. (English summary) (*see* **93h:93009**)
Desoer, Charles A. *see* **Sheikholeslam, Shahab, (93g:93006)**
Di Benedetto, Maria Domenica (*with* Sastry, S. Shankar) Adaptive linearization and model reference control of a class of MIMO nonlinear systems. (English summary) **93j:93069**
Dong, Xiaoning *see* **Chen, Guan Rong, 93g:93046**
Egupov, N. D. *see* **Lapin, S. V.**
Fliess, Michel (*with* Lévine, Jean; Martin, Philippe; Rouchon, Pierre) Défaut d'un système non linéaire et commande haute fréquence. (English and French summaries) [Defect of a nonlinear system and high-frequency control] **93j:93070**
Fossard, A. J. Some reflexions about nonlinear control. (English summary) (*see* **93g:93004**)
Fuchs, Andreas *see* **Varghese, Matthew; et al., 93i:93066**
Gauthier, Jean-Paul *see* **Hammouri, H., 93i:93064**
Gevers, Michel *see* **Dasgupta, Soura; et al., (93h:93009)**
Gheorghe, C. *see* **Popescu, Dumitru; et al., (93e:00021)**
Giurescu, N. *see* **Popescu, Dumitru; et al., (93e:00021)**
Goh, C. J. On the nonlinear optimal regulator problem. (English summary)
Goto, Tsutomu *see* **Ichikawa, Satoshi**
Grujić, Ljubomir T. *see* **Mounfield, William Pratt, Jr., 93a:93060**
Hammouri, H. (*with* Gauthier, Jean-Paul) Global time-varying linearization up to output injection. (English summary) **93i:93064**
Han, Zheng Zhi (*with* Pan, Dan Jie; Zhang, Zhong Jun; Zheng, Yu Fan) A new observer form for nonlinear systems and its transformation. (English summary) (*see* **93g:93006**)
— (*with* Pan, Dan Jie) The Yokoyama form and the largest linearizable subsystems of nonlinear control systems. (Chinese. English and Chinese summaries) **93e:93040**
Hu, Xiao Ming Output tracking through singularities for nonlinear systems. (English summary) (*see* **93g:93006**)
— *see also* **Byrnes, Christopher I., 93i:93063**
Huijberts, H. J. C. (*with* Nijmeijer, Henk; van der Wegen, L. L. M.) Minimality of dynamic input-output decoupling for nonlinear systems. **93d:93044**
Hunt, K. J. (*with* Šebek, Michael) Polynomial LQ optimization for the standard control structure: scalar solution. (English summary)
Ichikawa, Satoshi (*with* Goto, Tsutomu) An analysis for steady-state response of nonlinear systems with sinusoidal inputs. (English summary)
Ishijima, Shintaro (*with* Zheng, Yu Fan) Dynamic decomposition of nonlinear control systems. (English summary) (*see* **93g:93006**)
Jarachi, F. (*with* Bastin, G.; Wertz, V.) On predictive control of nonlinear recursive systems. (English summary) (*see* **93g:93004**)
Jones, John, Jr. Nonlinear control theory. (*see* **93a:41001**)
Kang, Wei (*with* Krener, Arthur J.) Extended quadratic controller normal form and dynamic state feedback linearization of nonlinear systems. (English summary) **93k:93054**
Kipnis, M. M. Symbolic and chaotic dynamics of a pulse-width control system. (Russian) **93i:93065**
— Chaotic phenomena in a deterministic single-dimensional pulse-width control system. (Russian. Russian summary) **93g:93048**
Kramer Johnson, Kelly *see* **Sandberg, Irwin W., 93k:93055**
Krener, Arthur J. *see* **Kang, Wei, 93k:93054**
Lapin, S. V. (*with* Egupov, N. D.) Analysis of continuous time-varying nonlinear systems using block-pulse expansions. (English summary)
Leondes, Cornelius T. *see* **Wang, Dau Chung, 93i:93067**
Lévine, Jean *see* **Fliess, Michel; et al., 93j:93070**
Li, Zhong Hua (*with* Zhang, Si Ying) Noninteracting control for nonlinear systems possessing symmetries. (*see* **93a:93005**)
Liu, Xiao Ping[2] Symmetric structures and disturbance decoupling of nonlinear control systems. (Chinese. English and Chinese summaries)
Martin, Philippe *see* **Fliess, Michel; et al., 93j:93070**
Mounfield, William Pratt, Jr. (*with* Grujić, Ljubomir T.) High-gain PI natural control for exponential tracking of linear single-output systems with state-space description. (French summary) **93a:93060**
Mukundan, Rangaswamy *see* **Varghese, Matthew; et al., 93i:93066**
Nijmeijer, Henk *see* **Huijberts, H. J. C.; et al., 93d:93044**
Okubo, Shigenori A design of nonlinear MRACS and the proof of stability. (English summary) (*see* **93j:93007**)
Pan, Dan Jie *see* **Han, Zheng Zhi, 93e:93040** *and* **(93g:93006)**
Park, Jooyoung (*with* Sandberg, Irwin W.) Criteria for the approximation of nonlinear systems. (English summary) **93j:93071**
Popescu, Dumitru (*with* Giurescu, N.; Gheorghe, C.) Control with gradient systems. (English summary) (*see* **93e:00021**)
Radhy, Nour-Eddine *see* **Borne, Pierre, (93e:00021)**
Ramadge, Peter J. *see* **Chase, Christopher; et al., 93j:93068**
Rouchon, Pierre *see* **Fliess, Michel; et al., 93j:93070**
Sandberg, Irwin W. Structure theorems for nonlinear systems. (English summary) (*see* **93g:93006**)
— (*with* Kramer Johnson, Kelly) Steady-state errors in nonlinear control systems. (English summary) **93k:93055**
— (*with* Kramer Johnson, Kelly) On steady-state errors in nonlinear control systems. (English summary)
— *see also* **Park, Jooyoung, 93j:93071**
Sastry, S. Shankar *see* **Di Benedetto, Maria Domenica, 93j:93069**
Schwartz, Carla A. (*with* Campion, Guy) Zero dynamics—another oxymoron? Or en route to adaptive control of nonlinear systems. **93a:93061**
Šebek, Michael *see* **Hunt, K. J.**
Serrano, Joseph *see* **Chase, Christopher; et al., 93j:93068**

Shamma, Jeff S. *see* **Dahleh, Munther A., 93g:93047**
Sheikholeslam, Shahab (*with* Desoer, Charles A.) Control of a string of nonlinear systems. (English summary) (*see* **93g:93006**)
Tcvetkov, Dimitar P. Asymptotic bifurcation in systems for control with delay. (English summary) **93m:93048**
Varghese, Matthew (*with* Fuchs, Andreas; Mukundan, Rangaswamy) New perspectives on zero dynamics: complicated behavior in redundant links. (English summary) **93i:93066**
Vassiliadis, Dimitris A method for adaptive control and learning in chaotic systems. (English summary) (*see* **93i:58004**)
Wang, Dau Chung (*with* Leondes, Cornelius T.) Robust tracking control of nonlinear systems with uncertain dynamics. **93i:93067**
Wang, Zi Cai *see* **Yao, Yu**
van der Wegen, L. L. M. *see* **Huijberts, H. J. C.; et al., 93d:93044**
Wertz, V. *see* **Jarachi, F.; et al., (93g:93004)**
Yao, Yu (*with* Wang, Zi Cai) New results on variable structure observers for nonlinear systems.
Zhang, Si Ying *see* **Zhao, Jun** *and* **Li, Zhong Hua, (93a:93005)**
Zhang, Zhong Jun *see* **Han, Zheng Zhi; et al., (93g:93006)**
Zhao, Jun (*with* Zhang, Si Ying) On symmetries, reachability and controllability of nonlinear systems. (Chinese. English and Chinese summaries)
Zheng, Yu Fan (*with* Cao, Li[2]) The rankings and relevant invariants of control systems. (English summary) (*see* **93g:93006**)
— *see also* **Ishijima, Shintaro, (93g:93006)** *and* **Han, Zheng Zhi; et al., (93g:93006)**
Zimmer, Gerta A new algorithm for approximating the state of nonlinear systems. (English summary) **93j:93072**

Items with secondary classifications in 93C10

Abed, Eyad H. *see* **Fu, Jyun-Horng, 93k:93073**
Abu el Ata-Doss, S. (*with* Coïc, A.; Fliess, Michel) Nonlinear predictive control by inversion: discontinuities for critical behaviour.
Afanas'ev, V. N. (*with* Neusypin, K. A.) A method for the compensation of dynamic errors of inertial systems. (Russian. Russian summary)
Agrachëv, A. A. (*with* Gamkrelidze, R. V.) Volterra series and permutation groups. (Russian) **93m:58099**
(Andersson, Åke E.) *see* **Theory & control of dynamical systems, 93d:92001**
(Andersson, Stig I.) *see* **Theory & control of dynamical systems, 93d:92001**
Astolfi, Alessandro *see* **Isidori, Alberto, 93a:93041** *and* **93i:93043**
Atadan, S. Periodic behaviour in nonlinear discrete-time systems and its application to a digital control system. (English summary) **93j:93087**
Bakan, G. M. Synthesizing nonlinear control systems optimal with respect to an error- and error derivative-dependent functional. (Russian. English, Russian and Ukrainian summaries) **93f:93059**
Ball, Joseph A. (*with* Helton, J. William) Inner-outer factorization of nonlinear operators. **93e:47099**
Bandekas, D. V. *see* **Papadopoulos, D. P.**
Banks, S. P. (*with* Mhana, K. J.) Optimal control and stabilization for nonlinear systems. (English summary)
Barkin, A. I. *see* **Naumov, B. N.; et al., 93d:93060**
Bars, R. *see* **Haber, Robert, (93g:93004)**
Bastin, G. (*with* Campion, Guy) Indirect adaptive control of linearly parametrized nonlinear systems. (English summary) (*see* **93j:93007**)
— (*with* Bitmead, Robert R.; Campion, Guy; Gevers, Michel) Identification of linearly-overparametrized nonlinear systems. **93g:93027**
Billings, S. A. *see* **Tsang, K. M.**
Bitmead, Robert R. *see* **Bastin, G.; et al., 93g:93027**
Bonnard, Bernard (*with* Kupka, Ivan A. K.) Théorie des singularités de l'application entrée/sortie et optimalité des trajectoires singulières dans le problème du temps minimal. (English and French summaries) [Theory of the singularities of the input/output mapping and optimality of singular trajectories in the minimal-time problem] **93m:49009**
Bossart, Theodore C. *see* **Singh, Sahjendra N., 93m:93026**
Briskin, M. (*with* Yomdin, Y.) Critical and near-critical values in polynomial control problems. I. One-dimensional case. (English summary) **93j:49020**
Brogliato, Bernard (*with* Trofino-Neto, Alexandre; Lozano Leal, Rogelio) Robust adaptive control of a class of nonlinear first order systems.
Bromberg, Shirley (*with* Suárez, R.) Stabilization of two-dimensional C^k control systems. (English summary) **93m:93083**
Busvelle, Éric *see* **Deza, François; et al., 93b:93106**
Campion, Guy *see* **Bastin, G.; et al., 93g:93027** *and* **(93j:93007)**
Čelikovský, Sergej On the global linearization of nonhomogeneous bilinear systems. (English summary) **93h:93017**
Chabour, Rachid (*with* Ferfera, Abdelhak) Noninteracting control and disturbance decoupling with singularity for two-dimensional bilinear systems. **93f:93110**
Chappell, M. J. (*with* Godfrey, K. R.) Structural identifiability of nonlinear systems: application to a batch reactor. (English summary) (*see* **93h:93009**)
Chen, Ye-Hwa *see* **Han, M. C., 93a:93048**
Cheng, Dai Zhan (*with* Martin, Clyde Franklin; Tarn, Tzyh Jong) On Morgan's problem for a class of nonlinear systems. (English summary) (*see* **93g:93006**)
Chernyshev, K. R. *see* **Pashchenko, F. F., 93e:93021**
Chou, Jyh Horng Feedback control for uncertain saturating systems. **93b:93048**
Chukwu, E. N. (*with* Underwood, Robert G.; Kovari, Louis D.) Global constrained null-controllability of nonlinear neutral systems. **93b:93014**
Chung, S.-T. (*with* Grizzle, J. W.) Internally exponentially stable nonlinear discrete-time noninteracting control via static feedback. **93b:93096**
Ciccarella, G. (*with* Dalla Mora, M.; Germani, Alfredo) A Luenberger-like observer for nonlinear systems. (English summary) **93k:93019**
Coïc, A. *see* **Abu el Ata-Doss, S.; et al.**
Colonius, Fritz (*with* Kliemann, Wolfgang) Remarks on ergodic theory of stochastic flows and control flows. (English summary) **93i:60110**
Conte, Giuseppe *see* **Wyman, B. F.; et al., 93j:93063** *and* **Moog, Claude H.; et al., (93g:93006)**
Dalla Mora, M. *see* **Ciccarella, G.; et al., 93k:93019**
Dayawansa, W. P. *see* **Romeiras, Filipe J.; et al., 93j:93057**
Desoer, Charles A. *see* **Sheikholeslam, Shahab, 93m:93056**
Deza, François (*with* Busvelle, Éric; Gauthier, Jean-Paul; Rakotopara, Daniel) High gain estimation for nonlinear systems. **93b:93106**
Douce, J. L. *see* **Warwick, Kevin; et al., (93j:93007)**
Dzyuba, S. M. Some properties of trajectories of dynamical systems. (Russian) **93d:34083**
Elmali, Hakan (*with* Olgac, Nejat) Sliding mode control with perturbation estimation (SMCPE): a new approach. (English summary)
Everitt, W. N. (*with* Markus, Lawrence) Nonlinear quasi-differential control systems. **93a:93015**
Fang, Chong Zhi *see* **Jin, Yi Hui; et al., 93h:93039**
Ferfera, Abdelhak *see* **Chabour, Rachid, 93f:93110**
Fliess, Michel Reversible linear and nonlinear discrete-time dynamics. (English summary) **93f:93037**
— *see also* **Abu el Ata-Doss, S.; et al.**
Fornasini, E. (*with* Marchesini, Giovanni) Topics in 2D systems theory. (*see* **93a:93006**)
Frelek, B. (*with* Kwiatkowski, M.) PD controllers for nonlinear systems. (English summary) (*see* **93g:93004**)
Fu, Jyun-Horng (*with* Abed, Eyad H.) Families of Lyapunov functions for nonlinear systems in critical cases. (English summary) **93k:93073**
Fukuda, Toshio *see* **Watanabe, Keigo; et al., 93h:93016**
Gaiduk, A. R. Analytical synthesis of controls for nonlinear objects of a certain class. (Russian. Russian summary)
Galias, Z. *see* **Ogorzałek, Maciej J., (93g:93006)**
Gamkrelidze, R. V. *see* **Agrachëv, A. A., 93m:58099**
Gardner, Robert B. The geometry of nonlinear control systems. **93e:93016**
Gauthier, Jean-Paul *see* **Deza, François; et al., 93b:93106**
Gawthrop, P. J. *see* **Hunt, K. J.; et al., 93i:93002**
George, Raju K. *see* **Joshi, Mohan C., 93f:93023**
Germani, Alfredo *see* **Ciccarella, G.; et al., 93k:93019**
Gevers, Michel *see* **Bastin, G.; et al., 93g:93027**
Godfrey, K. R. *see* **Chappell, M. J., (93h:93009)**
Goodwin, Graham C. *see* **Morse, A. Stephen; et al., 93h:93043**
Grasselli, Osvaldo Maria (*with* Longhi, Sauro) Invariant zeros of linear systems connected in series. **93f:93038**
Grebogi, Celso *see* **Romeiras, Filipe J.; et al., 93j:93057**
Grizzle, J. W. *see* **Chung, S.-T., 93b:93096**
Grossman, Robert Evaluation of expressions involving higher order derivations. **93a:93031**
Gu, Zhong Bi *see* **Wang, Wei, 93b:93065**
Guardabassi, Guido O. Nicely nonlinear modelling and control. (*see* **93a:93006**)
Gurov, I. R. (*with* Ohta, Yuzo; Haneda, H.) Robust stabilization of a class of uncertain nonlinear systems. (English summary) (*see* **93g:93005**)
Haber, Robert (*with* Bars, R.) One-step-ahead adaptive predictive control of nonlinear processes. (English summary) (*see* **93g:93004**)
Han, M. C. (*with* Chen, Ye-Hwa) Polynomial robust control design for uncertain systems. **93a:93048**
Haneda, H. *see* **Gurov, I. R.; et al., (93g:93005)**
Harris, S. L. (*with* Ibrahim, E. Y.; Lovass-Nagy, Victor; Schilling, Robert J.) Minimum energy control of linear time-invariant systems with input derivatives. (English summary)
Helton, J. William *see* **Ball, Joseph A., 93e:47099**
Hermes, Henry Stabilization via optimization. **93a:93092**
Horowitz, Roberto *see* **Paice, A. D. B.; et al., 93d:93072**
Huijberts, H. J. C. A nonregular solution of the nonlinear dynamic disturbance decoupling problem with an application to a complete solution of the nonlinear model matching problem. **93b:93049**
Hunt, K. J. (*with* Sbarbaro, D.; Żbikowski, R.; Gawthrop, P. J.) Neural networks for control systems—a survey. (English summary) **93i:93002**
Ibrahim, E. Y. *see* **Harris, S. L.; et al.**
Isidori, Alberto Attenuation of disturbances in nonlinear control systems. **93f:93047**
— Topics in nonlinear control theory. (English summary) (*see* **93d:92001**)
— (*with* Astolfi, Alessandro) Disturbance attenuation and H_∞-control via measurement feedback in nonlinear systems. (English summary) **93i:93043**
— (*with* Astolfi, Alessandro) Nonlinear H_∞-control via measurement feedback. **93a:93041**
— *see also* **Systems, models and feedback: theory and applications, 93a:93006** *and* **Schwartz, Carla A., 93b:93063**
Ivanov, A. G. Uniform local controllability of a nonlinear system in a class of generalized controls. (Russian. Russian summary) (*see* **93m:00031**)
Jin, Yi Hui (*with* Sun, Xi; Fang, Chong Zhi) Minimum variance control of a class of bilinear systems and its application. (Chinese. English and Chinese summaries) **93h:93039**
Joó, István (*with* Nguyen Minh Tuan) On controllability of bilinear systems. I. Controllability in finite dimensions. **93j:93016**
— (*with* Nguyen Minh Tuan) On controllability of bilinear systems. II. Controllability in two dimensions. **93j:93017**
Joshi, Mohan C. (*with* George, Raju K.) On the controllability of predator-prey systems. **93f:93023**
Kaczorek, Tadeusz Local controllability, reachability, and reconstructibility of the general singular model of 2-D systems. (English summary) **93j:93018**
Kanellakopoulos, I. (*with* Kokotović, P. V.; Morse, A. Stephen) Adaptive output-feedback control of systems with output nonlinearities. (English summary) **93h:93041**
— *see also* **Kokotović, P. V.; et al., 93h:93040**
Kappos, Efthimios A global geometrical input-output linearization theory. (English summary) **93f:93034**
Kerbelev, A. M. *see* **Tsypkin, Ya. Z., 93m:93079**
Khalil, Hassan K. ★ Nonlinear systems. **93k:34001**
Khritonenko, N. V. Controllability of nonlinear dynamical systems with respect to the Hamiltonian. (Russian. Russian summary) (*see* **93m:00017**)
(Kimura, Hidenori) *see* **Recent advances in mathematical theory of systems, control, networks and signal processing, 93g:93005** *and* **93g:93006**
Kiriakidis, K. I. *see* **Krikelis, N. J., 93k:93049**

Kliemann, Wolfgang *see* **Colonius, Fritz, 93i:60110**
(Kodama, Shinzo) *see* **Recent advances in mathematical theory of systems, control, networks and signal processing, 93g:93005** *and* **93g:93006**
Kokotović, P. V. (*with* Kanellakopoulos, I.; Morse, A. Stephen) Adaptive feedback linearization of nonlinear systems. (English summary) **93h:93040**
— *see also* **Kanellakopoulos, I.; et al., 93h:93041**
Kotta, Ülle Dynamic disturbance decoupling for discrete time nonlinear systems: the nonsquare and noninvertible case. (Russian and Estonian summaries) **93a:93072**
— Model matching of nonlinear discrete time systems via dynamic state feedback. (English, Russian and Estonian summaries) **93h:93029**
Koumboulis, F. N. *see* **Paraskevopoulos, P. N., 93b:93045**
Kovari, Louis D. *see* **Chukwu, E. N.; et al., 93b:93014**
Krastanov, M. I. A necessary condition for small time local controllability. **93b:93018**
Krikelis, N. J. (*with* Kiriakidis, K. I.) Optimal feedback control of nonlinear systems. (English summary) **93k:93049**
Kuc, Tae-Yong (*with* Lee, Jin S.; Nam, Kwanghee) An iterative learning control theory for a class of nonlinear dynamic systems. (English summary) **93i:93135**
Kupka, Ivan A. K. *see* **Bonnard, Bernard, 93m:49009**
Kurzhanskiĭ, A. B. (*with* Vályi, I.) Ellipsoidal techniques for dynamic systems: the problem of control synthesis. **93a:93012**
Kwiatkowski, M. *see* **Frelek, B., (93g:93004)**
Lee, Jin S. *see* **Kuc, Tae-Yong; et al., 93i:93135**
Lewkowicz, Izchak (*with* Sivan, Raphael) Stability robustness of almost linear state equations. (English summary) **93j:93108**
Li, Zhong Hua (*with* Zhang, Si Ying) Feedback decoupling of general nonlinear systems. (Chinese. English summary) **93g:93026**
Lin, Wei[2] (*with* Yong, Jiong Min) Direct adaptive control of a class of MIMO nonlinear systems. (English summary) **93j:93078**
Liu, Chin Hsing Robustness of optimal nonlinear regulators under actuator and additive perturbations. (English summary) **93i:93106**
Liu, Xiao Ping[2] (*with* Wang, Jing Cai; Zhang, Si Ying) The canonical form of uncontrollable nonlinear control systems. (English summary) **93i:93024**
— *see also* **Zhang, Si Ying; et al.**
Longhi, Sauro *see* **Grasselli, Osvaldo Maria, 93f:93038**
Lovass-Nagy, Victor *see* **Harris, S. L.; et al.**
Lozano Leal, Rogelio *see* **Brogliato, Bernard; et al.**
Lub, Yih Ping *see* **Psiaki, Mark L., 93j:93114**
Marchesini, Giovanni *see* **Fornasini, E., (93a:93006)**
Mareels, Iven M. Y. *see* **Schwartz, Carla A., 93b:93063** *and* **(93h:93009)**
Marino, Riccardo (*with* Tomei, Patrizio) Global adaptive observers and output-feedback stabilization for a class of nonlinear systems. (English summary) **93h:93060**
— (*with* Tomei, Patrizio) Global adaptive observers for a class of nonlinear systems. (English summary) (*see* **93g:93006**)
— (*with* Tomei, Patrizio) Observer-based adaptive stabilization for a class of nonlinear systems. **93a:93099**
— (*with* Tomei, Patrizio) Global adaptive observers for nonlinear systems via filtered transformations. (English summary) **93i:93029**
Markus, Lawrence *see* **Everitt, W. N., 93a:93015**
Martin, Clyde Franklin *see* **Cheng, Dai Zhan; et al., (93g:93006)**
Mayne, David Q. *see* **Morse, A. Stephen; et al., 93h:93043**
Meilakhs, A. M. Stabilization of nonlinear systems. (Russian. Russian summary) **93h:93062**
Mhana, K. J. *see* **Banks, S. P.**
Molchanov, A. P. (*with* Morozov, M. V.) Absolute stability of nonlinear time-dependent control systems with a periodic linear part. (Russian. Russian summary) **93f:93096**
Moog, Claude H. (*with* Perdon, Anna-Maria; Conte, Giuseppe) Structure of general nonlinear systems. (English summary) (*see* **93g:93006**)
Moore, John Barratt *see* **Paice, A. D. B.; et al., 93d:93072**
Morozov, M. V. *see* **Molchanov, A. P., 93f:93096**
Morse, A. Stephen (*with* Mayne, David Q.; Goodwin, Graham C.) Applications of hysteresis switching in parameter adaptive control. (English summary) **93h:93043**
— *see also* **Kokotović, P. V.; et al., 93h:93040** *and* **Kanellakopoulos, I.; et al., 93h:93041**
Nam, Kwanghee *see* **Kuc, Tae-Yong; et al., 93i:93135**
Naumov, B. N. (*with* Barkin, A. I.; Sinitsyn, I. N.) Nonlinear control systems: frequency analysis of absolute stability and performance. **93d:93060**
Neusypin, K. A. *see* **Afanas'ev, V. N.**
Nguyen Minh Tuan *see* **Joó, István, 93j:93016** *and* **93j:93017**
Ogorzałek, Maciej J. (*with* Galias, Z.) Limit sets of trajectories in a nonlinear digital system. (English summary) (*see* **93g:93006**)
Ohta, Yuzo *see* **Gurov, I. R.; et al., (93g:93005)**
Okubo, Shigenori A design of nonlinear model reference adaptive control and the application to the link mechanism. (English summary) (*see* **93i:93007**)
Olgac, Nejat *see* **Elmali, Hakan**
Ott, Edward *see* **Romeiras, Filipe J.; et al., 93j:93057**
(Ottoson, Ulf) *see* **Theory & control of dynamical systems, 93d:92001**
Paice, A. D. B. (*with* Moore, John Barratt; Horowitz, Roberto) Nonlinear feedback system stability via coprime factorization analysis. **93d:93072**
Pajunen, Grazyna Adaptive control of Wiener type nonlinear systems.
Papadopoulos, D. P. (*with* Bandekas, D. V.) Routh approximation method applied to order reduction of linear MIMO systems. (English summary)
Paraskevopoulos, P. N. (*with* Koumboulis, F. N.) A new approach to the decoupling problem of linear time-invariant systems. **93b:93045**
Pashchenko, F. F. (*with* Chernyshev, K. R.) Application of the method of functional transformations in the identification of nonlinear systems. (Russian. Russian summary) **93e:93021**
Perdon, Anna-Maria *see* **Wyman, B. F.; et al., 93j:93063** *and* **Moog, Claude H.; et al., (93g:93006)**
Petrov, Nikolai Nikolaevich Completely controllable dynamical polysystems. (Russian. Russian summary) **93j:93077**
Picard, Jean A nonlinear filter with two time scales. **93g:93084**
Psiaki, Mark L. (*with* Luh, Yih Ping) Nonlinear system stability boundary approximation by polytopes in state space. (English summary) **93j:93114**
Rakotopara, Daniel *see* **Deza, François; et al., 93b:93106**
Romeiras, Filipe J. (*with* Grebogi, Celso; Ott, Edward; Dayawansa, W. P.) Feedback control of chaotic systems. (English summary) **93j:93057**
Rotella, F. (*with* Zambettakis, I.) Generating series for analytic systems. **93f:93035**
(Ruberti, Antonio) *see* **Systems, models and feedback: theory and applications, 93a:93006**
Runkle, D. E. *see* **Young, P. C., (93j:93007)**
Sachkov, Yu. L. Controllability of three-dimensional bilinear systems. (Russian. Russian summary)
Sain, Michael K. *see* **Wyman, B. F.; et al., 93j:93063**
Samarskiĭ, A. A. Problems of mathematical modelling of nonlinear processes. (*see* **93d:93006**)
(Sastry, S. Shankar) *see* **Schwartz, Carla A., 93b:93063**
Sbarbaro, D. *see* **Hunt, K. J.; et al., 93i:93002**
van der Schaft, A. J. L_2-gain analysis of nonlinear systems and nonlinear state feedback H_∞ control. **93e:93027**
Schättler, Heinz M. *see* **Venkatasubramanian, V.; et al., 93f:93040**
Schilling, Robert J. *see* **Harris, S. L.; et al.**
Schwartz, Carla A. (*with* Mareels, Iven M. Y.) Limitations of the use of linearizing control for adaptive control of nonlinear systems. (English summary) (*see* **93h:93009**)
— (*with* Mareels, Iven M. Y.) Comments on: "Adaptive control of linearizable systems" [IEEE Trans. Automat. Control **34** (1989), no. 11, 1123–1131; MR 91b:93101] by S. S. Sastry and A. Isidori. **93b:93063**
Seidman, Thomas I. The dynamics of some systems with hysteretic nonlinearities. **93i:34121**
Sheikholeslam, Shahab (*with* Desoer, Charles A.) Indirect adaptive control of a class of interconnected nonlinear dynamical systems. (English summary) **93m:93056**
Shi, Song Jiao *see* **Sun, Hao; et al.**
Singh, Sahjendra N. (*with* Bossart, Theodore C.) Exact feedback linearization and control of space station using CMG. (English summary) **93m:93026**
Sinitsyn, I. N. *see* **Naumov, B. N.; et al., 93d:93060**
Sira-Ramirez, Hebertt J. On the sliding mode control of nonlinear systems. (English summary) **93g:93023**
Sivan, Raphael *see* **Lewkowicz, Izchak, 93j:93108**
Sontag, Eduardo D. Universal nonsingular controls. (English summary) **93f:93024**
de Souza, Carlos E. *see* **Wang, You Yi; et al., 93f:93109**
Suárez, R. *see* **Bromberg, Shirley, 93m:93083**
Sukavanam, N. Approximate controllability of semilinear control systems with growing nonlinearity. (English summary) (*see* **93g:93003**)
Sun, Hao (*with* Xi, Yu Geng; Shi, Song Jiao; Zhang, Zhong Jun) Predictive control of extended linearization for nonlinear systems. (Chinese. English and Chinese summaries)
Sun, Xi *see* **Jin, Yi Hui; et al., 93h:93039**
Takagi, Yasuo A modeling and control system design theory for nonlinear systems. (Japanese)
Tarn, Tzyh Jong *see* **Cheng, Dai Zhan; et al., (93g:93006)** *and* **Systems, models and feedback: theory and applications, 93a:93006**
Tesi, Alberto (*with* Vicino, Antonio; Zappa, Giovanni) A class of nonlinear control systems absolutely stable in the Hurwitz angle. (English summary) (*see* **93g:93004**)
Tomei, Patrizio *see* **Marino, Riccardo, 93a:93099; 93h:93060; 93i:93029** *and* **(93g:93006)**
Tornambè, Antonio Output feedback stabilization of a class of nonminimum phase nonlinear systems. (English summary) **93h:93067**
Tret'yak, A. I. Sufficient conditions for local controllability. (Russian. Russian summary) **93k:93017**
Trofino-Neto, Alexandre *see* **Brogliato, Bernard; et al.**
Tsang, K. M. (*with* Billings, S. A.) Identification of multi-class linear and nonlinear systems. (English summary)
Tsinias, John A local stabilization theorem for interconnected systems. **93d:93075**
— An extension of Artstein's theorem on stabilization by using ordinary feedback integrators. (English summary) **93k:93098**
Tsypkin, Ya. Z. (*with* Kerbelev, A. M.) Robust nonlinear discrete control systems. (Russian) **93m:93079**
Tzafestas, Spyros G. *see* **Watanabe, Keigo; et al., 93h:93016**
Unbehauen, H. Adaptive control of time-varying and nonlinear systems using a multi-model approach. (English summary) (*see* **93i:93006**)
Underwood, Robert G. *see* **Chukwu, E. N.; et al., 93b:93014**
Vályi, I. *see* **Kurzhanskiĭ, A. B., 93a:93012**
Venkatasubramanian, V. (*with* Schättler, Heinz M.; Zaborszky, J.) Stability regions for differential-algebraic systems. **93f:93040**
Vicino, Antonio *see* **Tesi, Alberto; et al., (93g:93004)**
Wang, Jing Cai *see* **Liu, Xiao Ping[2]; et al., 93i:93024** *and* **Zhang, Si Ying; et al.**
Wang, Wei (*with* Gu, Zhong Bi) Generalized predictive control for a class of nonlinear systems. (Chinese. English summary) **93b:93065**
Wang, You Yi (*with* Xie, Lihua; de Souza, Carlos E.) Robust control of a class of uncertain nonlinear systems. (English summary) **93f:93109**
Warwick, Kevin (*with* Zhu, Q.-M.; Douce, J. L.) An adaptive controller for nonlinear systems. (English summary) (*see* **93j:93007**)
Watanabe, Keigo (*with* Fukuda, Toshio; Tzafestas, Spyros G.) Sliding mode control and variable structure system observer as a dual problem for systems with nonlinear uncertainties. (English summary) **93h:93016**
Wu, Han Sheng A class of differential game problems for descriptor systems. (English summary) **93f:90205**
Wyman, B. F. (*with* Sain, Michael K.; Conte, Giuseppe; Perdon, Anna-Maria) Algebraic and system-theoretic notions of poles and zeros for matrices of rational functions. (English summary) **93j:93063**
Xi, Yu Geng *see* **Sun, Hao; et al.**
Xie, Lihua *see* **Wang, You Yi; et al., 93f:93109**
Yakubovich, V. A. Nonoscillation of linear periodic Hamiltonian equations and related problems. (Russian. Russian summary) **93m:34049**
Yomdin, Y. *see* **Briskin, M., 93j:49020**

Yong, Jiong Min *see* **Lin, Wei[2], 93j:93078**
Young, P. C. (*with* Runkle, D. E.) Recursive estimation and modelling of nonstationary and nonlinear time-series. (English summary) (*see* **93j:93007**)
Zaborszky, J. *see* **Venkatasubramanian, V.; et al., 93f:93040**
Zambettakis, I. *see* **Rotella, F., 93f:93035**
Zappa, Giovanni *see* **Tesi, Alberto; et al., (93g:93004)**
Żbikowski, R. *see* **Hunt, K. J.; et al., 93i:93002**
Zhang, Si Ying (*with* Wang, Jing Cai; Liu, Xiao Ping[2]) Differential geometry algorithms and nonlinear control systems. V. (Chinese. English summary)
— *see also* **Li, Zhong Hua, 93g:93026** *and* **Liu, Xiao Ping[2]; et al., 93i:93024**
Zhang, Zhong Jun *see* **Sun, Hao; et al.**
Zhirabok, A. N. An algebraic criterion for the observability of nonlinear discrete systems. (Russian. Russian summary) **93k:93021**
Zhu, Q.-M. *see* **Warwick, Kevin; et al., (93j:93007)**

Items listed otherwise than by author

Birthday:
Ruberti, Antonio ★ Systems, models and feedback: theory and applications. **93a:93006**
Capri ★ Systems, models and feedback: theory and applications. **93a:93006**
Huddinge ★ Theory & control of dynamical systems. **93d:92001**
Kobe ★ Recent advances in mathematical theory of systems, control, networks and signal processing. I. **93g:93005**
— ★ Recent advances in mathematical theory of systems, control, networks and signal processing. II. **93g:93006**
Meeting:
Theory & Control of Dynamical Systems ★ Theory & control of dynamical systems. **93d:92001**
Recent advances in mathematical theory of systems, control, networks and signal processing ★ Recent advances in mathematical theory of systems, control, networks and signal processing. I. **93g:93005**
— ★ Recent advances in mathematical theory of systems, control, networks and signal processing. II. **93g:93006**
Symposium:
Mathematical Theory of Networks and Systems ★ Recent advances in mathematical theory of systems, control, networks and signal processing. I. **93g:93005**
— ★ Recent advances in mathematical theory of systems, control, networks and signal processing. II. **93g:93006**
Systems, models and feedback: theory and applications ★ Systems, models and feedback: theory and applications. **93a:93006**
Theory & control of dynamical systems ★ Theory & control of dynamical systems. **93d:92001**
Workshop:
Systems, Models and Feedback ★ Systems, models and feedback: theory and applications. **93a:93006**

93C15 Systems governed by ordinary differential equations

Bressan, Aldo (*with* Favretti, Marco) On motions with bursting characters for Lagrangian mechanical systems with a scalar control. I. Existence of a wide class of Lagrangian systems capable of motions with bursting characters. (Italian summary) **93b:93054**
— (*with* Favretti, Marco) On motions with bursting characters for Lagrangian mechanical systems with a scalar control. II. A geodesic property of motions with bursting characters for Lagrangian systems. (Italian summary) **93d:93045**
Favretti, Marco *see* **Bressan, Aldo, 93b:93054** *and* **93d:93045**
Hassad, H. (*with* Mehdi, D.; Humbert, C.) On the stability of the generalized predictive control. (English summary) (*see* **93g:93004**)
Humbert, C. *see* **Hassad, H.; et al., (93g:93004)**
Macken, Catherine A. (*with* Perelson, Alan S.) ★ Stem cell proliferation and differentiation.
Mehdi, D. *see* **Hassad, H.; et al., (93g:93004)**
Perelson, Alan S. *see* **Macken, Catherine A.**

Items with secondary classifications in 93C15

Avgerinos, Evgenios P. (*with* Flytzanis, E.; Papageorgiou, Nikolaos S.) On $U(\cdot)$-invariance for finite- and infinite-dimensional control systems. **93f:93014**
Beck, Anatole (*with* Beck, Micah) The revenge of the linear search problem. **93f:90098**
Beck, Micah *see* **Beck, Anatole, 93f:90098**
Bobylëv, N. A. (*with* Burman, Yu. M.; Shubin, A. B.) Control algorithms with a minimal number of switchings. (Russian. Russian summary) **93h:93012**
Bogatyrev, S. V. (*with* Fridman, L. M.) Singular correction of the method of equivalent control. (Russian. Russian summary) **93k:34039**
Briskin, M. (*with* Yomdin, Y.) Critical and near-critical values in polynomial control problems. I. One-dimensional case. (English summary) **93j:49020**
Burman, Yu. M. *see* **Bobylëv, N. A.; et al., 93h:93012**
Chen, Lin[4] (*with* Tang, Gong You; Huang, Xiao Han) A new conclusion on the parameter stability domain of linear time-invariant large-scale systems. (English and Chinese summaries) **93i:93090**
Dauphin-Tanguy, G. *see* **Sueur, C., 93k:93008**
Dorsey, John F. *see* **Qu, Zhihua, 93c:93046**
Drakunov, S. V. (*with* Utkin, Vadim I.) Sliding mode control in dynamic systems. **93f:93018**
Fashoro, M. (*with* Hájek, O.; Loparo, Kenneth A.) Controllability properties of constrained linear systems. **93i:93017**
Faulkenberry, Richard E. The continuous kernel of a nonsquare rational matrix function. **93e:93014**
Flytzanis, E. *see* **Avgerinos, Evgenios P.; et al., 93f:93014**
Fridman, L. M. *see* **Bogatyrev, S. V., 93k:34039**
Gouzé, Jean-Luc Transformation of polynomial differential systems in the positive orthant. (English summary) (*see* **93g:93006**)
Hájek, O. *see* **Fashoro, M.; et al., 93i:93017**
Huang, Xiao Han *see* **Chen, Lin[4]; et al., 93i:93090**
Kalaba, Robert (*with* Udwadia, Firdaus E.) Associative memory approach to the identification of structural and mechanical systems. (English summary) **93i:93034**
Kang, Wei (*with* Krener, Arthur J.) Extended quadratic controller normal form and dynamic state feedback linearization of nonlinear systems. (English summary) **93k:93054**
Kipnis, M. M. Symbolic and chaotic dynamics of a pulse-width control system. (Russian) **93i:93065**
Krener, Arthur J. *see* **Kang, Wei, 93k:93054**
Kryazhimskiĭ, A. V. Order optimal real-time observers for completely observable control systems. **93b:93020**
Leondes, Cornelius T. *see* **Wang, Dau Chung, 93i:93067**
Liu, Xiao Ping[2] (*with* Wang, Jing Cai; Zhang, Si Ying) The canonical form of uncontrollable nonlinear control systems. (English summary) **93i:93024**
Loparo, Kenneth A. *see* **Fashoro, M.; et al., 93i:93017**
Miller, B. M. Conditions for optimality in generalized control problems. I. Necessary conditions for optimality. (Russian. Russian summary) **93h:49031**
Papageorgiou, Nikolaos S. *see* **Avgerinos, Evgenios P.; et al., 93f:93014**
Pommaret, J.-F. Controllability and turbulence. (English summary) (*see* **93m:00044**)
Qu, Zhihua (*with* Dorsey, John F.) Robust control by two Lyapunov functions. **93c:93046**
Shi, Jin Lin Sufficient and necessary conditions for reducibility of nonlinear systems. (English summary) **93k:34082**
Shubin, A. B. *see* **Bobylëv, N. A.; et al., 93h:93012**
Subrahmanyam, M. B. ★ Optimal control with a worst-case performance criterion and applications. **93g:49002**
Sueur, C. (*with* Dauphin-Tanguy, G.) Grassmann algebra and bond-graph modelling. (English summary) **93k:93008**
Tang, Gong You *see* **Chen, Lin[4]; et al., 93i:93090**
Tchoń, K. Nongenericity of a realization problem for observed dynamics. **93f:93032**
Tret'yak, A. I. Sufficient conditions for local controllability. (Russian. Russian summary) **93k:93017**
Udwadia, Firdaus E. *see* **Kalaba, Robert, 93i:93034**
Utkin, Vadim I. *see* **Drakunov, S. V., 93f:93018**
Vel'ov, V. M. Approximations of control/uncertain differential systems by means of discrete-time systems. (English summary) **93h:49050**
Wang, Dau Chung (*with* Leondes, Cornelius T.) Robust tracking control of nonlinear systems with uncertain dynamics. **93i:93067**
Wang, Jing Cai *see* **Liu, Xiao Ping[2]; et al., 93i:93024**
Yomdin, Y. *see* **Briskin, M., 93j:49020**
Zhang, Si Ying *see* **Liu, Xiao Ping[2]; et al., 93i:93024**

93C20 Systems governed by partial differential equations

Acquistapace, Paolo (*with* Terreni, Brunello) Boundary control problems for nonautonomous parabolic systems. (*see* **93c:93006**)
Avdonin, S. A. (*with* Belishev, M. I.; Ivanov, S. A.) Dirichlet boundary control in a capture region for the multidimensional wave equation. (Russian. English summary) **93f:93069**
Bagchi, Arunabha (*with* ten Brummelhuis, P.) Parameter identification in hyperbolic systems with boundary noise. (English summary) (*see* **93h:93009**)
Balakrishnan, A. V. Stochastic partial differential equations in control of structures. **93h:93037**
Banks, H. T. Computational issues in parameter estimation and feedback control problems for partial differential equation systems. (English summary) **93j:93073**
Bartolomeo, Jerry (*with* Lasiecka, Irena; Triggiani, Roberto) Uniform exponential energy decay of Euler-Bernoulli equations by suitable boundary feedback operators. (Italian summary) **93d:93046**
Belishev, M. I. *see* **Avdonin, S. A.; et al., 93f:93069**
Borkovskaya, I. M. (*with* Maslowski, Bohdan; Pasik-Duncan, Bożenna) On modal control in systems with distributed delay. (Russian. English and Russian summaries)
ten Brummelhuis, P. *see* **Bagchi, Arunabha, (93h:93009)**
Cannarsa, Piermarco (*with* Da Prato, Giuseppe; Zolésio, Jean-Paul) Riccati equations in noncylindrical domains. (*see* **93c:93006**)
Carotenuto, L. (*with* Muraca, P.; Pugliese, P.) Optimization of input structure for discrete time linear systems with application to distributed parameter systems. (English summary) (*see* **93g:93004**)
Chen, Goong (*with* Zhou, Jian-Xin) Some boundary control problems and computation for the linear elastostatic Kirchhoff plate on an exterior domain. (*see* **93b:49001**)
Conrad, Francis (*with* Rao, Bopeng) Decay of solutions of the wave equation with nonlinear boundary feedback. (English summary) (*see* **93i:93005**)
Da Prato, Giuseppe (*with* Zolésio, Jean-Paul) Boundary control for inverse free boundary problems. (*see* **93b:49001**)
— *see also* **Cannarsa, Piermarco; et al., (93c:93006)**
Duncan, Tyrone E. (*with* Maslowski, Bohdan; Pasik-Duncan, Bożenna) On boundary control of unknown linear stochastic distributed parameter systems. (*see* **93e:90003**)
Èmanuilov, O. Yu. *see* **Fursikov, A. V.**
Franke, Dieter Shaping the reference input response of linear distributed parameter systems via output feedback. (*see* **93b:49002**)
Fursikov, A. V. (*with* Èmanuilov, O. Yu.) ε-controllability of the Stokes problem with distributed control concentrated in a subdomain. (Russian)
Gawthrop, P. J. (*with* Nihtilä, M. T.) Identification of distributed parameter systems using polynomial identification techniques. (English summary) (*see* **93h:93009**)
Gevers, Michel *see* **Goodwin, Graham C.; et al., (93h:93009)**
Goodwin, Graham C. (*with* Gevers, Michel; Mayne, David Q.) Bias and variance distribution in transfer function estimation. (English summary) (*see* **93h:93009**)
Helmicki, A. J. (*with* Jacobson, C. A.; Nett, C. N.) On zero-order hold equivalents of distributed parameter systems. **93a:93062a**
— (*with* Jacobson, C. A.; Nett, C. N.) Correction to: "On zero-order hold equivalents of distributed parameter systems". **93a:93062b**
Ivanenko, V. I. The problem of controlling quasi-linear objects with a priori indeterminacy. (Russian. English, Russian and Ukrainian summaries)
Ivanov, S. A. *see* **Avdonin, S. A.; et al., 93f:93069**
Jacobson, C. A. *see* **Helmicki, A. J.; et al., 93a:93062a** *and* **93a:93062b**

Ji, Xin Hua *see* **Zhu, Guang Tian; et al., 93m:93050**
Khapalov, A. Yu. Optimal measurement trajectories for distributed parameter systems. **93b:93055**
— *see also* **Kurzhanskii, A. B., 93b:93057**
Kobayashi, Toshihiro Zeros and design of control systems for distributed parameter systems. (English summary) **93f:93070**
Kukhta, K. Ya. The solution of a nonlinear nonstationary continuous-discrete boundary problem in control theory. (Russian. English summary) **93b:93056**
— Some qualitative properties of a controllable continuous-discrete dynamical system. (Russian. Russian summary) **93d:93047**
Kurzhanskii, A. B. (*with* Khapalov, A. Yu.) The state estimation problem for parabolic systems. **93b:93057**
Kurzhanskii, M. A. A finite-dimensional approximation of an observation and control problem for a hyperbolic system. (Russian. Russian summary) **93m:93049**
Lasiecka, Irena Finite-dimensional compensator for flexible structures. (*see* **93b:49001**)
— (*with* Triggiani, Roberto) Uniform convergence of the solutions to Riccati equations arising in boundary/point control problems. **93k:93057**
— (*with* Triggiani, Roberto) Algebraic Riccati equations with unbounded input → solution operator: applications to boundary control for wave and plate problems. (*see* **93e:90003**)
— (*with* Triggiani, Roberto) Optimal regularity, exact controllability and uniform stabilization of Schrödinger equations with Dirichlet control. **93d:93048**
— (*with* Tătaru, Daniel) Uniform boundary stabilization of semilinear wave equation with nonlinear boundary damping. (English summary) **93k:93056**
— *see also* **Bartolomeo, Jerry; et al., 93d:93046**
Leugering, G. On control and stabilization of a rotating beam by applying moments at the base only. (English summary) (*see* **93b:49002**)
Liang, Ben Zhong *see* **Zhu, Guang Tian; et al., 93m:93050**
Littman, Walter Remarks on boundary control for polyhedral domains and related results. (*see* **93b:49001**)
Maksimov, V. I. On dynamical reconstruction in nonlinear parabolic systems. (*see* **93e:90003**)
Marchenko, Vladimir Matveevich *see* **Borkovskaya, I. M.**
Maslowski, Bohdan *see* **Duncan, Tyrone E.; et al., (93e:90003)**
Mayne, David Q. *see* **Goodwin, Graham C.; et al., (93h:93009)**
Morgül, Ömer Dynamic boundary control of the Timoshenko beam. (English summary) **93l:93068**
Muraca, P. *see* **Carotenuto, L.; et al., (93g:93004)**
Nett, C. N. *see* **Helmicki, A. J.; et al., 93a:93062a** *and* **93a:93062b**
Nihtilă, M. T. *see* **Gawthrop, P. J., (93h:93009)**
Pandolfi, Luciano Some properties of distributed control systems with finite-dimensional input space. **93d:93049**
Pasik-Duncan, Bożenna *see* **Duncan, Tyrone E.; et al., (93e:90003)**
Pugliese, P. *see* **Carotenuto, L.; et al., (93g:93004)**
Rao, Bopeng *see* **Conrad, Francis, (93i:93005)**
Sokołowski, Jan (*with* Sprekels, Jürgen) Dynamical shape control of nonlinear thin rods. (*see* **93b:49002**)
Sprekels, Jürgen *see* **Sokołowski, Jan, (93b:49002)**
Svobodny, Thomas P. Control of the wave equation at a rational point. **93a:93063**
Taldykin, A. T. (*with* Ulanova, T. A.) Control in linear and quasilinear boundary value problems by means of systems of functions. (Russian) (*see* **93b:34004**)
Tătaru, Daniel *see* **Lasiecka, Irena, 93k:93056**
Taylor, L. W., Jr. Parameter estimation for distributed parameter models of complex, flexible structures. (English summary) (*see* **93h:93009**)
Terreni, Brunello *see* **Acquistapace, Paolo, (93c:93006)**
Triggiani, Roberto Regularity with interior point control. I. Wave and Euler-Bernoulli equations. **93f:93071**
— *see also* **Bartolomeo, Jerry; et al., 93d:93046**; **Lasiecka, Irena, 93d:93048**; **93k:93057** *and* **(93e:90003)**
Ulanova, T. A. *see* **Taldykin, A. T., (93b:34004)**
Wu, Jin Gang *see* **Zhu, Guang Tian; et al., 93m:93050**
Yang, Xue Shi *see* **Zhu, Guang Tian; et al., 93m:93050**
Zhang, Weijian Sensor noise effect in rate feedback via saturating actuators: distributed parameter system. **93i:93069**
Zhou, Jian-Xin *see* **Chen, Goong, (93b:49001)**
Zhu, Guang Tian (*with* Wu, Jin Gang; Liang, Ben Zhong; Ji, Xin Hua; Yang, Xue Shi) Existence of solution to transpiration control problem. (English summary) **93m:93050**
Zolésio, Jean-Paul Identification of coefficients with bounded variation in the wave equation. (*see* **93c:93006**)
— *see also* **Da Prato, Giuseppe, (93b:49001)** *and* **Cannarsa, Piermarco; et al., (93c:93006)**

Items with secondary classifications in 93C20

Ahmed, N. U. Optimal control of hydrodynamic flow with possible application to artificial heart. **93e:49053**
Aihara, Shin'ichi Parameter identification for stochastic parabolic systems. (English summary) **93j:93140**
Alpay, Daniel (*with* Baratchart, Laurent; Leblond, Juliette) Some extremal problems linked with identification from partial frequency data. (English summary) (*see* **93i:93005**)
Altman, Mieczyslaw ★ A theory of optimization and optimal control for nonlinear evolution and singular equations. **93e:49002**
Aoki, Takeshi *see* **Sunahara, Yoshifumi; et al., (93g:93005)**
Audounet, J. *see* **Montseny, G.; et al., (93i:93005)**
Avdonin, S. A. (*with* Gorshkova, O. Ya.) Controllability and quasicontrollability of parabolic systems with delay. (Russian. Russian summary) **93k:93011**
Banks, H. T. (*with* Ito, Kazufumi; Wang, Chunming) Exponentially stable approximations of weakly damped wave equations. **93f:35132**
— *see also* **Control and estimation in distributed parameter systems, 93h:93006**
Banks, S. P. Infinite-dimensional Carleman linearization, the Lie series and optimal control of nonlinear partial differential equations. **93f:49022**
Baratchart, Laurent *see* **Alpay, Daniel; et al., (93i:93005)**
Barbu, Viorel ★ Analysis and control of nonlinear infinite-dimensional systems. **93j:49002**
— (*with* Stojanovic, Srdjan) Controlling the moving boundary of the parabolic obstacle problem. (English summary) **93k:93012**
Bardos, Claude High frequency asymptotic approach for incomplete spectral and local controllability. (English summary) (*see* **93i:93005**)
Bensoussan, Alain Some remarks on the exact controllability of Maxwell's equations. **93d:93014**
— *see also* **Analysis and optimization of systems: state and frequency domain approaches for infinite-dimensional systems, 93i:93005**
Bontsema, Jan (*with* Curtain, Ruth F.) Robust stabilization of a flexible beam model using a normalized coprime factorization approach. (English summary) **93m:93082**
— (*with* Curtain, Ruth F.; Kuiper, C. R.; Osinga, H. M.) Comparison of robustly stabilizing controllers for a flexible beam model with additive, multiplicative and stable factor perturbations. (English summary) (*see* **93i:93005**)
Borkar, Vivek S. A modified self-tuner for controlled diffusions with an unknown parameter. (English summary) (*see* **93g:93003**)
Bosov, A. A. (*with* Zaitsev, V. G.) Optimal estimation in a problem of heat conduction. (Russian. Russian summary) (*see* **93k:00023**)
Bowers, Kenneth L. *see* **Lund, John; et al., 93b:65144**
Burns, John A. (*with* Kang, Sungkwon) A stabilization problem for Burgers' equation with unbounded control and observation. **93a:93091**
Burq, Nicolas Contrôle de l'équation de Schrödinger en présence d'obstacles strictement convexes. [Control of the Schrödinger equation in the presence of strictly convex obstacles] **93a:35035**
Byrnes, Christopher I. (*with* Jhemi, Ali) Shock waves for Riccati partial differential equations arising in nonlinear optimal control. **93e:49026**
Carlson, Timothy S. *see* **Lund, John; et al., 93b:65144**
Cheng, Mian *see* **Song, Yong Duan; et al.**
Cioranescu, Doïna (*with* Donato, Patrizia; Zuazua, Enrike) Strong convergence on the exact boundary controllability of the wave equation in perforated domains. **93b:93015**
— (*with* Donato, Patrizia; Zuazua, Enrike) Approximate controllability for the wave equation with oscillating coefficients. (*see* **93b:49001**)
Conrad, Francis (*with* Leblond, Juliette; Marmorat, Jean-Paul) Energy decay estimates for a beam with nonlinear boundary feedback. (English summary) (*see* **93c:93006**)
— (*with* Leblond, Juliette; Marmorat, Jean-Paul) Boundary control and stabilization of the one-dimensional wave equation. **93e:93005**
— (*with* Pierre, Michel) Stabilisation de problèmes d'évolution du second ordre par des feedbacks non linéaires et non bornés. (English and French summaries) [Stabilization of second-order evolution equations by unbounded nonlinear feedback] **93j:93125**
Curtain, Ruth F. (*with* van Keulen, B. A. M.) Robust control with respect to coprime factors of infinite-dimensional positive real systems. **93a:93098**
— *see also* **Bontsema, Jan, 93m:93082**; **(93i:93005)** *and* **Analysis and optimization of systems: state and frequency domain approaches for infinite-dimensional systems, 93i:93005**
Da Prato, Giuseppe (*with* Zolésio, Jean-Paul) Existence and optimal control for wave equation in moving domain. (English summary) **93g:49006**
— Some results on boundary periodic control problems. **93k:49034**
Datko, R. Two examples of ill-posedness with respect to small time delays in stabilized elastic systems. (English summary) **93k:93093**
Donato, Patrizia *see* **Cioranescu, Doïna; et al., 93b:93015** *and* **(93b:49001)**
Dupont, T. (*with* Glowinski, Roland; Kinton, W.; Wheeler, Mary Fanett) Mixed finite-element methods for time-dependent problems: application to control. **93h:65122**
El Jaï, A. Actuators and controllability of distributed systems. (English summary) (*see* **93c:93006**)
— (*with* Pritchard, A. J.) Regional controllability of distributed systems. (English summary) **93m:93010**
Ellis, J. E. (*with* Kandamby, N. H.; Roberts, P. D.) Rationalization and application of algorithms for integrated system optimization and parameter estimation. (English summary)
Fabre, Caroline A problem of exact controllability of distributed system: boundary control obtained as limit of internal control. **93f:93019**
— Résultats de contrôlabilité exacte interne pour l'équation de Schrödinger et leurs limites asymptotiques: application à certaines équations de plaques vibrantes. (English summary) [Results on exact internal controllability for the Schrödinger equation and their asymptotic limits: application to some vibrating-plate equations] **93d:35031**
— (*with* Puel, Jean-Pierre; Zuazua, Enrike) Contrôlabilité approchée de l'équation de la chaleur semi-linéaire. (English and French summaries) [Approximate controllability for the semilinear heat equation] **93f:93020**
— Exact boundary controllability of the wave equation as the limit of internal controllability. (English summary) **93k:93015**
— (*with* Puel, Jean-Pierre; Zuazua, Enrike) Boundary approximate controllability for semilinear heat equations. (*see* **93i:93005**)
Fattorini, H. O. (*with* Frankowska, Halina) Infinite-dimensional control problems with state constraints. (English summary) (*see* **93d:93006**)
Fitzpatrick, Ben G. *see* **Yin, Gang George, (93g:93005)**
Flamm, David S. (*with* Klipec, Kathy) Numerical methods for H^∞ control of distributed parameter systems. (English summary) (*see* **93i:93005**)
Frankowska, Halina *see* **Fattorini, H. O., (93d:93006)**
Fujii, Seizo *see* **Sasaki, Motofumi; et al.**
Gao, Wei Bing *see* **Song, Yong Duan; et al.**
Gątarek, Dariusz (*with* Sokołowski, Jan) Shape sensitivity analysis for stochastic evolution equations. (*see* **93b:49001**)
Geymayer, G. *see* **Kunisch, K., (93d:93006)**
Glowinski, Roland *see* **Dupont, T.; et al., 93h:65122**
Gnedin, A. V. Stabilization of Euler-Bernoulli beam by a boundary control. (English summary) **93j:93128**
Gorshkova, O. Ya. *see* **Avdonin, S. A., 93k:93011**
Grīnbergs, A. (*with* Lototskii, V. A.; Shklyar, B. Sh.) Identification of systems with distributed parameters. (Russian. Russian summary) **93i:93033**
Grisvard, Pierre Singularities in boundary value problems and exact controllability of hyperbolic systems. (*see* **93m:00044**)
Gunzburger, Max D. (*with* Hou, LiSheng; Svobodny, Thomas P.) Heating and cooling

control of temperature distributions along boundaries of flow domains. (English summary) **93m:35178**

Guyon, F. (*with* Yvon, J. P.; Henry, Jacques) On a weighting method improving identifiability of distributed parameter systems. **93g:93028**

Hannsgen, Kenneth B. (*with* Wheeler, Robert L.) A representation formula for one-dimensional viscoelasticity with stabilizing boundary feedback. **93f:93113**

— (*with* Staffans, Olof J.; Wheeler, Robert L.) Rational approximation of the transfer function of a viscoelastic rod. (English summary) (*see* **93i:93005**)

Hayakawa, Yoshikazu *see* **Sasaki, Motofumi; et al.**

Henry, Jacques *see* **Guyon, F.; et al., 93g:93028**

(Hoffmann, Karl-Heinz[1] *see* **Optimal control of partial differential equations, 93b:49002**

Horn, Mary Ann Uniform decay rates for the solutions to the Euler-Bernoulli plate equation with boundary feedback acting via bending moments. **93h:35054**

Hou, LiSheng *see* **Gunzburger, Max D.; et al., 93m:35178**

Hulkó, G. (*with* Sapák, L.; Navračič, I.; Janíková, D.; Kovalcik, J.) Methods of identification of lumped input and distributed output systems. (English summary) (*see* **93h:93009**)

Ichikawa, Akira Steady-state solutions in tracking problems. **93c:93030**

Ishikawa, Masaaki *see* **Sunahara, Yoshifumi; et al., (93g:93005)**

Ito, Kazufumi *see* **Banks, H. T.; et al., 93f:35132**

Iwaki, Toshihiro *see* **Sasaki, Motofumi; et al.**

Janíková, D. *see* **Hulkó, G.; et al., (93h:93009)**

Jhemi, Ali *see* **Byrnes, Christopher I., 93e:49026**

Joó, István On the control of a circular membrane and related problems. **93m:73028**

— On the control of a rectangular membrane. **93j:35035**

— On the control of a net of strings. **93m:93012**

Kandamby, N. H. *see* **Ellis, J. E.; et al.**

Kang, Sungkwon *see* **Burns, John A., 93a:93091**

Karrakchou, J. (*with* Namir, A.) A new approach for a linear quadratic optimal-control problem of distributed systems with delays in the control. (English summary) **93k:49021**

van Keulen, B. A. M. *see* **Curtain, Ruth F., 93a:93098**

Khapalov, A. Yu. Observability of hyperbolic systems with interior moving sensors. (*see* **93i:93005**)

Kim, Jong Uhn Exact semi-internal control of an Euler-Bernoulli equation. (English summary) **93h:35026**

Kinton, W. *see* **Dupont, T.; et al., 93h:65122**

Klipec, Kathy *see* **Flamm, David S., (93i:93005)**

Koizumi, Kunio *see* **Sasaki, Motofumi; et al.**

Komornik, Vilmos Stabilisation non linéaire de l'équation des ondes et d'un modèle de plaque. (English summary) [Nonlinear stabilization of the wave equation and of a plate model] **93f:35025**

— Estimation d'énergie pour quelques systèmes dissipatifs semilinéaires. (English summary) [Energy estimates for some semilinear dissipative systems] **93i:34117**

— On the exact internal controllability of a Petrowsky system. **93j:93019**

Korbicz, Józef (*with* Zgurovskiĭ, M. Z.) ★ Estymacja i sterowanie stochastyczne układami o parametrach rozłożonych. (Polish) [Estimation and control of stochastic systems with distributed parameters] **93f:93001**

Kovalcik, J. *see* **Hulkó, G.; et al., (93h:93009)**

Krabs, W. Controllability of a rotating beam. (*see* **93i:93005**)

— *see also* **Optimal control of partial differential equations, 93b:49002**

Kuiper, C. R. *see* **Bontsema, Jan; et al., (93i:93005)**

Kunisch, K. (*with* Geymayer, G.) Convergence rates for regularized nonlinear ill-posed problems. (English summary) (*see* **93d:93006**)

— (*with* White, Luther W.) Stability and identifiability of parameters in Galerkin approximation of distributed systems under multiple inputs. (English summary) **93i:93036**

Laaksonen, Merja *see* **Pohjolainen, Seppo, (93i:93005)**

Lagnese, John E. Modelling and stabilization of nonlinear plates. **93e:93050**

— The Hilbert uniqueness method: a retrospective. **93j:93020**

— (*with* Leugering, G.; Schmidt, E. J. P. G.) Modelling and controllability of networks of thin beams. **93i:93013**

Lasiecka, Irena (*with* Triggiani, Roberto) Uniform stabilization of the wave equation with Dirichlet-feedback control without geometrical conditions. (*see* **93c:93006**)

— (*with* Triggiani, Roberto) Further results on exact controllability of the Euler-Bernoulli equation with controls on the Dirichlet and Neumann boundary conditions. (*see* **93c:93006**)

— Exponential stabilization, via Riccati operator, of hyperbolic systems with uncontrolled, unbounded perturbations. (*see* **93d:93006**)

— (*with* Triggiani, Roberto) Exact controllability and uniform stabilization of Kirchhoff plates with boundary control only on $\Delta w|_\Sigma$ and homogeneous boundary displacement. **93e:93006**

— (*with* Triggiani, Roberto) Differential Riccati equations with unbounded coefficients: applications to boundary control/boundary observation hyperbolic problems. **93a:47083**

— (*with* Triggiani, Roberto) Uniform stabilization of the wave equation with Dirichlet or Neumann feedback control without geometrical conditions. **93b:93099**

Lebeau, Gilles Control for hyperbolic equations. **93m:58112**

— Contrôle analytique. I. Estimations a priori. [Analytic control. I. A priori estimates] **93i:93019**

Leblond, Juliette *see* **Conrad, Francis; et al., 93e:93005**; **(93c:93006)** *and* **Alpay, Daniel; et al., (93i:93005)**

Leugering, G. A decomposition method for integro-partial differential equations and applications. (English summary) **93i:45012**

— *see also* **Lagnese, John E.; et al., 93i:93013**

Lévine, Jean Finite-dimensional realizations of stochastic PDEs and application to filtering. **93d:93023**

Lions, Jacques-Louis ★ Sentinelles pour les systèmes distribués à données incomplètes. (French) [Sentinels for distributed systems with incomplete data] **93j:35002**

— *see also* **Analysis and optimization of systems: state and frequency domain approaches for infinite-dimensional systems, 93i:93005**

Littman, Walter Recent work on the SCOLE model. (*see* **93c:93006**)

Lototskiĭ, V. A. *see* **Grīnbergs, A.; et al., 93i:93033**

Lund, John (*with* Bowers, Kenneth L.; Carlson, Timothy S.) Fully sinc-Galerkin computation for boundary feedback stabilization. **93b:65144**

Mäkinen, R. A. E. *see* **Tiba, D.; et al., 93f:93025**

Maksimov, V. I. Stable restoration of controls from measurements results. II. (Russian. English summary) **93f:35240**

Marano, Salvatore A. Controllability of partial differential inclusions depending on a parameter and distributed parameter control processes. **93b:93019**

Marmorat, Jean-Paul *see* **Conrad, Francis; et al., 93e:93005** *and* **(93c:93006)**

Mbodje, B. *see* **Montseny, G.; et al., (93i:93005)**

McMillan, Christine Alicia (*with* Triggiani, Roberto) Min-max game theory for a class of boundary control problems. (*see* **93i:93005**)

Miyasato, Y. Model reference adaptive control for distributed parameter systems of hyperbolic type by finite-dimensional controllers. (English summary) (*see* **93g:93006**)

Montseny, G. (*with* Audounet, J.; Mbodje, B.) A simple viscoelastic damper model—application to a vibrating string. (English summary) (*see* **93i:93005**)

Morgül, Ömer On the stabilization of the wave equation. (*see* **93i:93005**)

Moshfegh, Allen Discrete state-space modeling for linear nth-order constant coefficient distributed-parameter systems. (English summary)

Muñoz Rivera, Jaime Edilberto Remarks on the optimal control problem for a strongly nonlinear hyperbolic system. **93d:49026**

— Differentiability of the optimal cost function in pointwise control. **93f:49020**

Nambu, Takao Continuous dependence of solutions to the Lyapunov equation relative to an elliptic differential operator of order 2. **93b:93101**

— Robustness of a feedback control scheme for one-dimensional diffusion equations: perturbation to the Sturm-Liouville operator. (English summary) **93h:93063**

Namir, A. *see* **Karrakchou, J., 93k:49021**

Navračič, I. *see* **Hulkó, G.; et al., (93h:93009)**

Neittaanmäki, Pekka *see* **Tiba, D.; et al., 93f:93025**

Nicaise, Serge Exact controllability of a pluridimensional coupled problem. (English summary) **93j:93021**

Országhová, Zuzana *see* **Rohál-Ilkiv, Boris; et al., (93h:93009)**

Osinga, H. M. *see* **Bontsema, Jan; et al., (93i:93005)**

Osipov, Yu. S. Inverse problem of dynamics for systems described by parabolic inequality. (*see* **93d:93006**)

Ourada, N. (*with* Triggiani, Roberto) Uniform stabilization of the Euler-Bernoulli equation with feedback operator only in the Neumann boundary condition. **93d:93071**

Özbay, Hitay (*with* Smith, Malcolm Clive; Tannenbaum, Allen R.) Mixed-sensitivity optimization for a class of unstable infinite-dimensional systems. (English summary) **93j:93045**

Pedersen, Michael Symbolic boundary calculus and feedback operators. **93a:35029**

— State space representation of nonlocal boundary value problems. **93i:47122**

Picci, Giorgio (*with* Taylor, T. J.) Stochastic aggregation of distributed parameter systems. (English summary) (*see* **93g:93006**)

Pierre, Michel *see* **Conrad, Francis, 93j:93125**

Plotnikov, A. V. A problem on the control of systems with distributed parameters under conditions of uncertainty. (Russian. English and Ukrainian summaries) **93i:49031**

Pohjolainen, Seppo (*with* Laaksonen, Merja) On the optimal minimax tuning of controllers for distributed parameter systems. (English summary) (*see* **93i:93005**)

Pommaret, J.-F. Intrinsic differential algebra. **93b:93029**

Pritchard, A. J. *see* **El Jaï, A., 93m:93010**

Puel, Jean-Pierre Some regularity properties for the wave equation related to an exact controllability problem. **93i:35019**

— (*with* Zuazua, Enrike) Controllability of a multidimensional system of Schrödinger equations: application to a system of plate and beam equations. (English summary) (*see* **93i:93005**)

— *see also* **Fabre, Caroline; et al., 93f:93020** *and* **(93i:93005)**

Rao, Bopeng Stabilisation uniforme d'un système hybride en élasticité. (English and French summaries) [Uniform stabilization of a hybrid system in elasticity] **93m:73029**

Rebarber, Richard Frequency domain methods for proving the uniform stability of vibrating systems. (*see* **93i:93005**)

Richter, Roman *see* **Rohál-Ilkiv, Boris; et al., (93h:93009)**

Roberts, P. D. *see* **Ellis, J. E.; et al.**

Rohál-Ilkiv, Boris (*with* Richter, Roman; Sroka, I.; Országhová, Zuzana; Zelinka, Peter) Adaptive control of distributed parameter systems with restricted spline input signals. (English summary) (*see* **93h:93009**)

Rosen, I. G. (*with* Wang, Chunming) On the continuous dependence with respect to sampling of the linear quadratic regulator problem for distributed parameter systems. **93e:49029**

Rubio, J. E. The global control of nonlinear elliptic equations. (English summary) **93i:35050**

Sallet, Gauthier *see* **Xu, Cheng-Zhong, (93i:93005)**

Sapák, L. *see* **Hulkó, G.; et al., (93h:93009)**

Sasaki, Motofumi (*with* Hayakawa, Yoshikazu; Fujii, Seizo; Koizumi, Kunio; Iwaki, Toshihiro) Finite-dimensional model reference adaptive control of a class of nonlinear distributed systems with quasi-sliding mode. (English summary)

Schmidt, E. J. P. G. *see* **Lagnese, John E.; et al., 93i:93013**

Serovaiskiĭ, S. Ya. Approximate conditions for optimality for a system described by a nonlinear parabolic equation. (Russian) **93i:35078**

Shklyar, B. Sh. *see* **Grīnbergs, A.; et al., 93i:93033**

Sklyar, M. V. *see* **Zgurovskiĭ, M. Z., 93f:93121**

Skogestad, Sigurd *see* **Wang, Zi Qin, (93i:93005)**

Smith, Malcolm Clive *see* **Özbay, Hitay; et al., 93j:93045**

Sokołowski, Jan *see* **Gątarek, Dariusz, (93b:49001)**

Song, Yong Duan (*with* Gao, Wei Bing; Cheng, Mian) Asymptotically stabilizing strategy for a class of disturbed-uncertain linear systems. (English and Polish summaries)

Sroka, I. *see* **Rohál-Ilkiv, Boris; et al., (93h:93009)**

Staffans, Olof J. *see* **Hannsgen, Kenneth B.; et al., (93i:93005)**

Stojanovic, Srdjan *see* **Barbu, Viorel, 93k:93012**

Sunahara, Yoshifumi (*with* Ishikawa, Masaaki; Aoki, Takeshi) On the suboptimal control for a class of stochastic distributed parameter systems with nonlinear boundary

conditions. (English summary) (*see* **93g:93005**)
Svobodny, Thomas P. *see* **Gunzburger, Max D.; et al., 93m:35178**
Tannenbaum, Allen R. *see* **Özbay, Hitay; et al., 93j:93045**
Taylor, T. J. *see* **Picci, Giorgio, (93g:93006)**
Tessitore, Gianmario Some remarks on the Riccati equation arising in an optimal control problem with state- and control-dependent noise. **93c:49022**
Tiba, D. (*with* Neittaanmäki, Pekka; Mäkinen, R. A. E.) Controllability-type properties for elliptic systems and applications. **93f:93025**
Townley, Stuart Robust stability radii for distributed parameter systems: a survey. (English summary) **93m:93077**
Triggiani, Roberto Regularity of wave and plate equations with interior point control. (Italian summary) **93a:35023**
— *see also* **Lasiecka, Irena, 93a:47083; 93b:93099; Ourada, N., 93d:93071; Lasiecka, Irena, 93e:93006; (93c:93006); (93c:93006)** *and* **McMillan, Christine Alicia, (93i:93005)**
Tsachev, Tsvetomir J. Optimal control of linear parabolic equation: the constrained right-hand side as control function. (English summary) **93i:49029**
Tucsnak, Marius Exact controllability for a hyperbolic equation with time-dependent coefficients. **93g:93061**
Wang, Chunming *see* **Rosen, I. G., 93e:49029** *and* **Banks, H. T.; et al., 93f:35132**
Wang, Zi Qin (*with* Skogestad, Sigurd) Robust controller design for uncertain time delay systems. (English summary) (*see* **93i:93005**)
Wheeler, Mary Fanett *see* **Dupont, T.; et al., 93h:65122**
Wheeler, Robert L. *see* **Hannsgen, Kenneth B., 93f:93113** *and* **(93i:93005)**
White, Luther W. *see* **Kunisch, K., 93i:93036**
Xu, Cheng-Zhong (*with* Sallet, Gauthier) Boundary stabilization of rotating flexible systems. (English summary) (*see* **93i:93005**)
Yan, Jin Hai Contrôlabilité exacte pour des systèmes à mémoire. (English summary) [Exact controllability for systems with memory] **93h:93014**
Yin, Gang George (*with* Fitzpatrick, Ben G.) Sample distributions of identification algorithms for distributed parameter systems. (English summary) (*see* **93g:93005**)
You, Yun Cheng Pointwise boundary stabilizability of hyperbolic evolution equations: two-dimensional hybrid elastic structures. **93a:93095**
Yvon, J. P. *see* **Guyon, F.; et al., 93g:93028**
Zaĭtsev, V. G. *see* **Bosov, A. A., (93k:00023)**
Zelinka, Peter *see* **Rohál-Ilkiv, Boris; et al., (93h:93009)**
Zgurovskiĭ, M. Z. (*with* Sklyar, M. V.) ★ Оценивание состояний и параметров стохастических сингулярно возмущенных по времени систем с распределенными параметрами. (Russian) [Estimation of the states and parameters of stochastic systems, singularly perturbed with respect to time, with distributed parameters] **93f:93121**
— *see also* **Korbicz, Józef, 93f:93001**
Zolésio, Jean-Paul *see* **Da Prato, Giuseppe, 93g:49006** *and* **Boundary control and boundary variation, 93b:49001**
Zuazua, Enrike *see* **Cioranescu, Doïna; et al., 93b:93015; Fabre, Caroline; et al., 93f:93020; Cioranescu, Doïna; et al., (93b:49001); Puel, Jean-Pierre, (93i:93005)** *and* **Fabre, Caroline; et al., (93i:93005)**
Zwart, H. J. Open loop stabilizability of the undamped beam equation. (English summary) (*see* **93g:93005**)

Items listed otherwise than by author

Analysis and optimization of systems: state and frequency domain approaches for infinite-dimensional systems ★ Analysis and optimization of systems: state and frequency domain approaches for infinite-dimensional systems. **93i:93005**
Boundary control and boundary variation ★ Boundary control and boundary variation. **93b:49001**
Conference:
Analysis and Optimization of Systems ★ Analysis and optimization of systems: state and frequency domain approaches for infinite-dimensional systems. **93i:93005**
Control and estimation in distributed parameter systems ★ Control and estimation in distributed parameter systems. **93h:93006**
IFIP Conference:
Boundary Control and Boundary Variation ★ Boundary control and boundary variation. **93b:49001**
Optimal Control of Partial Differential Equations ★ Optimal control of partial differential equations. **93b:49002**
Irsee ★ Optimal control of partial differential equations. **93b:49002**
Lecture Notes in Control and Information Sciences ★ Optimal control of partial differential equations. **93b:49002**
— ★ Boundary control and boundary variation. **93b:49001**
— ★ Analysis and optimization of systems: state and frequency domain approaches for infinite-dimensional systems. **93i:93005**
Optimal control of partial differential equations ★ Optimal control of partial differential equations. **93b:49002**
Sophia-Antipolis ★ Boundary control and boundary variation. **93b:49001**
— ★ Analysis and optimization of systems: state and frequency domain approaches for infinite-dimensional systems. **93i:93005**

93C22 Systems governed by integral equations

Items with secondary classifications in 93C22

Fitzpatrick, Ben G. Approximation and control in integral equations of nonlinear viscoelasticity. **93d:73042**
Kuijper, A. B. The state space method for integro-differential equations of Wiener-Hopf type with rational matrix symbols. (English summary) **93g:47067**
Yatsenko, Yu. P. ★ Интегральные модели систем с управляемой памятью. (Russian) [Integral models of systems with controllable memory] **93g:93002**

93C25 Systems in abstract spaces

Ahmed, N. U. Partially observed optimal relaxed feedback controls for infinite-dimensional stochastic systems. (English summary) (*see* **93g:93004**)
Balakrishnan, A. V. Semigroup theory and control theory. (English summary) **93j:93074**
Bonnet, Catherine Réduction de systèmes linéaires discrets de dimension infinie: étude de filtres fractionnaires. (English and French summaries) [Approximation of infinite-dimensional systems: an application to fractional filters] **93k:93058**
Callier, Frank M. (*with* Winkin, J.) On the computation of an LQ-optimal gain by approximate spectral factorization. (English summary) (*see* **93g:93005**)
Chapellat, Hervé (*with* Dahleh, Mohammed A.) Analysis of time-varying control strategies for optimal disturbance rejection and robustness. (English summary) **93j:93075**
Chen, Shu Ping The existence of solutions to the infinite-dimensional algebraic Riccati equations with indefinite coefficients. **93a:93064**
Dahleh, Mohammed A. *see* **Chapellat, Hervé, 93j:93075**
Henríquez, Hernán R. Finite-dimensional compensators for linear distributed control systems with delays in outputs. (English summary) **93i:93070**
Inaba, Hiroshi *see* **Otsuka, Naohisa; et al., (93i:93005)**
Kuiper, C. R. (*with* Zwart, H. J.) Solutions of the ARE in terms of the Hamiltonian for Riesz-spectral systems. (English summary) **93m:93051**
Morris, K. A. The well-posedness of accelerometer control systems. (English summary) (*see* **93i:93005**)
Otsuka, Naohisa (*with* Inaba, Hiroshi; Toraichi, Kazuo) Simultaneous triangular-decoupling, disturbance-rejection and stabilization problem for infinite-dimensional systems. (English summary) (*see* **93i:93005**)
Pritchard, A. J. Introduction to semigroup theory. (English summary) **93m:93052**
Toraichi, Kazuo *see* **Otsuka, Naohisa; et al., (93i:93005)**
Weiss, George Two conjectures on the admissibility of control operators. **93a:93065**
Winkin, J. *see* **Callier, Frank M., (93g:93005)**
Zwart, H. J. *see* **Kuiper, C. R., 93m:93051**

Items with secondary classifications in 93C25

Avgerinos, Evgenios P. (*with* Flytzanis, E.; Papageorgiou, Nikolaos S.) On $U(\cdot)$-invariance for finite- and infinite-dimensional control systems. **93f:93014**
Barbu, Viorel (*with* Da Prato, Giuseppe) A representation formula for the solutions to operator Riccati equation. **93k:49031**
Basin, M. V. *see* **Orlov, Yu. V., (93i:93005)**
Bensoussan, Alain Exact controllability for linear dynamic systems with skew symmetric operators. **93f:93016**
— *see also* **Analysis and optimization of systems: state and frequency domain approaches for infinite-dimensional systems, 93i:93005**
Bonnet, Catherine Approximation of infinite-dimensional discrete time linear systems via balanced realizations and an application to fractional filters. (English summary) (*see* **93i:93005**)
Curtain, Ruth F. Robust controllers for infinite-dimensional systems. (English summary) **93m:93030**
— The strict bounded real lemma in infinite dimensions. (English summary) **93k:93037**
— *see also* **van Keulen, B. A. M.; et al., 93i:93045; (93g:93005)** *and* **Analysis and optimization of systems: state and frequency domain approaches for infinite-dimensional systems, 93i:93005**
Da Prato, Giuseppe *see* **Barbu, Viorel, 93k:49031**
Flytzanis, E. *see* **Avgerinos, Evgenios P.; et al., 93f:93014**
Gotoh, Yasuhisa *see* **Zwart, H. J.; et al., (93i:93005)**
Gozzi, Fausto Some results for an optimal control problem with a semilinear state equation. (Italian summary) **93c:49005**
Hara, Shinji *see* **Yamamoto, Yutaka, 93a:93090**
Jetto, L. A numerical method for computing the approximate solution of the infinite-dimensional discrete-time optimal linear filtering problem. (English summary) (*see* **93f:93005**)
van Keulen, B. A. M. (*with* Peters, Marc; Curtain, Ruth F.) H_∞-optimal control with state feedback for infinite-dimensional systems. (English summary) (*see* **93g:93005**)
— (*with* Peters, Marc; Curtain, Ruth F.) H_∞-control with state-feedback: the infinite-dimensional case. (English summary) **93i:93045**
Klamka, Jerzy Controllability of infinite-dimensional dynamical systems. (*see* **93e:90003**)
— Approximate controllability of second order dynamical systems. **93b:93017**
(Lions, Jacques-Louis) *see* **Analysis and optimization of systems: state and frequency domain approaches for infinite-dimensional systems, 93i:93005**
Louis, J.-Cl. (*with* Wexler, D.) The Hilbert space regulator problem and operator Riccati equation under stabilizability. (English summary) **93h:93059**
Maïzi, Nadia A "relaxation" approach for the Hankel approximation of some vibrating structures. (English summary) (*see* **93i:93005**)
Nishikawa, Toshitami (*with* Takahara, Yasuhiko) Topological approach for abstract systems. **93c:93007**
Orlov, Yu. V. (*with* Basin, M. V.) On filtering of the Hilbert space-valued stochastic process over discrete-continuous observations. (English summary) (*see* **93i:93005**)
Papageorgiou, Nikolaos S. *see* **Avgerinos, Evgenios P.; et al., 93f:93014**
Partington, Jonathan R. Worst-case identification in Banach spaces. **93e:93020**
Peters, Marc *see* **van Keulen, B. A. M.; et al., 93i:93045** *and* **(93g:93005)**
Rodman, Leiba Pole shifting for matrices over real algebras. (English summary) **93j:93062**
Takahara, Yasuhiko *see* **Nishikawa, Toshitami, 93c:93007**
Tarn, Tzyh Jong (*with* Yang, Tongzeng; Zeng, Xiaoming) Simultaneous and robust stabilization of infinite-dimensional systems by periodic output feedback. (English summary) (*see* **93g:93005**)
Triggiani, Roberto Constructive steering control functions for linear systems and abstract rank conditions. **93f:93026**
Wexler, D. *see* **Louis, J.-Cl., 93h:93059**
Yamamoto, Yutaka (*with* Hara, Shinji) Internal and external stability and robust stability condition for a class of infinite-dimensional systems. **93a:93090**
— *see also* **Zwart, H. J.; et al., (93i:93005)**
Yang, Tongzeng *see* **Tarn, Tzyh Jong; et al., (93g:93005)**
Yao, Yun Long Some results on singular indefinite quadratic optimal control in Hilbert spaces. (Chinese. Chinese summary) **93i:49043**
Zeng, Xiaoming *see* **Tarn, Tzyh Jong; et al., (93g:93005)**

Zwart, H. J. (*with* Yamamoto, Yutaka; Gotoh, Yasuhisa) On the stability uniformity of infinite-dimensional systems. (English summary) (*see* **93i:93005**)

Items listed otherwise than by author

Analysis and optimization of systems: state and frequency domain approaches for infinite-dimensional systems ★ Analysis and optimization of systems: state and frequency domain approaches for infinite-dimensional systems. **93i:93005**

Conference:
Analysis and Optimization of Systems ★ Analysis and optimization of systems: state and frequency domain approaches for infinite-dimensional systems. **93i:93005**

Lecture Notes in Control and Information Sciences ★ Analysis and optimization of systems: state and frequency domain approaches for infinite-dimensional systems. **93i:93005**

Sophia-Antipolis ★ Analysis and optimization of systems: state and frequency domain approaches for infinite-dimensional systems. **93i:93005**

93C30 Systems governed by functional relations other than differential or integral equations

Bentsman, Joseph *see* **Lehman, Brad**, **93k:93059**

Chen, Chin Shaw *see* **Wang, Wên Chün; et al.**, **93b:93058**

Chisci, L. *see* **Mosca, Edoardo; et al.**, **93i:93071**

Fortuna, L. (*with* Gallo, Antonio; Muscato, G.; Nunnari, G.) Multivariable adaptive control by a transputer based architecture. (English summary) (*see* **93h:93009**)

Gallo, Antonio *see* **Fortuna, L.; et al.**, **(93h:93009)**

Garg, Vijay Kumar *see* **Kumar, Ratnesh; et al.**, **93j:93076**

Giarré, L. *see* **Mosca, Edoardo; et al.**, **93i:93071**

Kao, Chien Chung *see* **Wang, Wên Chün; et al.**, **93b:93058**

Kumar, Ratnesh (*with* Garg, Vijay Kumar; Marcus, Steven I.) On supervisory control of sequential behaviors. (English summary) **93j:93076**

Lehman, Brad (*with* Bentsman, Joseph) Vibrational control of linear time lag systems with arbitrarily large but bounded delays. (English summary) **93k:93059**

Mäkilä, Pertti M. Worst-case input-output identification. (English summary) **93f:93072**

Marcus, Steven I. *see* **Kumar, Ratnesh; et al.**, **93j:93076**

Marino, Riccardo (*with* Peresada, Sergei; Valigi, Paolo) Adaptive input-output linearizing control of induction motors. (English summary)

Morimoto, Hiroaki A stochastic extension of model reference adaptive control. (English summary) **93f:93073**

Morse, A. Stephen High-order parameter tuners for the adaptive control of linear and nonlinear systems. (*see* **93a:93006**)

Mosca, Edoardo (*with* Chisci, L.; Giarré, L.) Sidestepping the certainty equivalence in 2-DOF adaptive control via multiple implicit identifiers. (English summary) **93i:93071**

Muscato, G. *see* **Fortuna, L.; et al.**, **(93h:93009)**

Nunnari, G. *see* **Fortuna, L.; et al.**, **(93h:93009)**

Özveren, Cüneyt M. (*with* Willsky, Alan S.) Tracking and restrictability in discrete event dynamic systems. (English summary) **93h:93038**

Pandolfi, Luciano The Hankel singular values of a distributed delay line: a Fredholm equation approach. (English summary) (*see* **93i:93005**)

Peresada, Sergei *see* **Marino, Riccardo; et al.**

Pottmann, M. (*with* Unbehauen, H.; Seborg, D. E.) Application of a general multi-model approach for identification of highly nonlinear processes—a case study. (English summary)

Seborg, D. E. *see* **Pottmann, M.; et al.**

de la Sen, Manuel On the stabilizability, controllability and observability of linear hereditary systems with distributed commensurate delays. (English summary) **93m:93053**

Sheen, Yuh Tay *see* **Su, Yaw Terng**, **93k:93060**

Su, Yaw Terng (*with* Sheen, Yuh Tay) Neural network for system identification. (English summary) **93k:93060**

Toropov, V. V. Multipoint approximation method in optimization problems with expensive function values. (English summary) (*see* **93e:00021**)

Unbehauen, H. *see* **Pottmann, M.; et al.**

Valigi, Paolo *see* **Marino, Riccardo; et al.**

Wang, Wên Chün (*with* Kao, Chien Chung; Chen, Chin Shaw) Stabilization, estimation and robustness for large scale time-delay systems. **93b:93058**

Willsky, Alan S. *see* **Özveren, Cüneyt M.**, **93h:93038**

Items with secondary classifications in 93C30

Aihara, Shin'ichi Regularized maximum likelihood estimate for an infinite-dimensional parameter in stochastic parabolic systems. **93e:93059**

Andreeva, E. A. (*with* Kolmanovskiĭ, V. B.; Shaĭkhet, L. E.) ★ Управление системами с последействием. (Russian. English and Russian summaries) [Control of systems with aftereffect] **93i:49001**

Brave, Yitzhak (*with* Heymann, Michael) On optimal attraction in discrete-event processes. (English summary) **93j:93124**

Camacho, E. F. Constrained generalized predictive control. (English summary)

Dahleh, Munther A. (*with* Ohta, Yoshito) L^1 sensitivity minimization for plants with commensurate delays. **93d:93027**

Furuta, Katsuhisa *see* **Phoojaruenchanachai, Suthee**, **93j:93130**

Habets, L. C. G. J. M. ★ Stabilization of time-delay systems: an overview of the algebraic approach. **93j:93006**

Heymann, Michael *see* **Brave, Yitzhak**, **93j:93124**

Jamshidi, M. *see* **Lee, Soo R.**, **93h:34139**

Jiang, Zhi Hua (*with* Schaufelberger, W.) Recursive computational algorithms for a set of block pulse operational matrices. (English summary)

Kojima, Akira (*with* Uchida, Kenko; Shimemura, Etsujiro) Robust stabilization of time delay systems based on Riccati type operator equation arising in differential games. (English summary) **93j:93133**

— (*with* Uchida, Kenko; Shimemura, Etsujiro) Robust stabilization of uncertain time delay systems via combined internal-external approach. (English summary) **93j:93134**

(Kokotović, P. V.) *see* **Foundations of adaptive control**, **93c:93004**

Kolmanovskiĭ, V. B. *see* **Andreeva, E. A.; et al.**, **93i:49001**

Kučera, Vladimír *see* **Zagalak, Petr**, **93k:93051**

Lee, Soo R. (*with* Jamshidi, M.) Stability analysis for large-scale time delay systems via the matrix Lyapunov function. (English summary) **93h:34139**

Nikitin, S. V. (*with* Prätzel-Wolters, D.) Multiparameter polynomial adaptive stabilizers. **93e:93054**

Nikol'skiĭ, M. S. Heavy parametrization of continuous multivalued mappings. (Russian) **93e:49033**

Ohta, Yoshito *see* **Dahleh, Munther A.**, **93d:93027**

Pandolfi, Luciano Dynamic stabilization of systems with input delays. **93k:93096**

Phoojaruenchanachai, Suthee (*with* Furuta, Katsuhisa) Memoryless stabilization of uncertain linear systems including time-varying state delays. **93j:93130**

Prätzel-Wolters, D. *see* **Nikitin, S. V.**, **93e:93054**

Schaufelberger, W. *see* **Jiang, Zhi Hua**

de la Sen, Manuel Relations between the stabilization properties of two classes of hereditary linear systems with commensurate delays. (English summary) **93h:93066**

Shaĭkhet, L. E. *see* **Andreeva, E. A.; et al.**, **93i:49001**

Shimemura, Etsujiro *see* **Kojima, Akira; et al.**, **93j:93133** *and* **93j:93134**

Tornambè, Antonio Feedback stabilization of nonlinear time lag systems. (English summary) (*see* **93h:93007**)

— Simple observer-based control law for time lag systems. (English summary) **93g:93016**

Uchida, Kenko *see* **Kojima, Akira; et al.**, **93j:93133** *and* **93j:93134**

Udwadia, Firdaus E. New developments in the identification and control of structural and mechanical systems. (*see* **93g:93003**)

Wu, Yung Ch'un *see* **Yen, Nie Zen**, **93m:93040**

Yen, Nie Zen (*with* Wu, Yung Ch'un) A multirate controller design of linear periodic time delay systems. (English summary) **93m:93040**

Zagalak, Petr (*with* Kučera, Vladimír) Fundamental theorem of proportional state feedback for descriptor systems. **93k:93051**

Zuev, M. A. On the observability of a second-order system with retarded argument. (Russian. Russian summary) (*see* **93m:00017**)

Items listed otherwise than by author

Foundations of adaptive control ★ Foundations of adaptive control. **93c:93004**

Lecture Notes in Control and Information Sciences ★ Foundations of adaptive control. **93c:93004**

Lectures:
Grainger ★ Foundations of adaptive control. **93c:93004**

Urbana, IL ★ Foundations of adaptive control. **93c:93004**

93C35 Multivariable, multidimensional systems

Abe, Ken-ichi *see* **Xu, L.; et al.**, **(93g:93006)**

Boichuk, L. M. Balance dynamical systems and investigation of their statistical stability and homeostatism based on solution of R. Bellman's problem. (Russian. English summary)

Bose, N. K. Directions in multidimensional systems research. (English summary) (*see* **93g:93006**)

Cui, Bao Min *see* **Yuan, Zhu Zhi**

Kaczorek, Tadeusz Invertibility of 2-D linear systems. (English summary) **93e:93041**

Larin, V. B. Optimization in a Hardy space and a problem of parametrization of controllers (a survey). (Russian. English and Ukrainian summaries) **93g:93049**

Lee, L. (*with* Tits, André L.) On phase information in multivariable systems. (English summary) (*see* **93g:93005**)

Leithead, W. E. (*with* O'Reilly, John) New roles for feedforward in multivariable control by individual channel design. (English summary)

O'Reilly, John *see* **Leithead, W. E.**

Petrov, Nikolai Nikolaevich Completely controllable dynamical polysystems. (Russian. Russian summary) **93j:93077**

Rosenthal, Joachim A compactification of the space of multivariable linear systems using geometric invariant theory. **93b:93059**

Saito, Osami *see* **Xu, L.; et al.**, **(93g:93006)**

Sheirah, M. A. *see* **Wahba, A. M.**

Tits, André L. *see* **Lee, L.**, **(93g:93005)**

Wahba, A. M. (*with* Sheirah, M. A.) Adaptive decoupler for multivariable systems. (English summary)

Xu, L. (*with* Saito, Osami; Abe, Ken-ichi) On 2D bilateral polynomial matrix equations. (English summary) (*see* **93g:93006**)

Yuan, Zhu Zhi (*with* Cui, Bao Min) New multivariable generalized predictive self-tuning controller. (English and Chinese summaries)

Items with secondary classifications in 93C35

Akhmetzyanov, A. V. *see* **Meerov, M. V.; et al.**, **93a:93003**

Bar-Itzhack, I. Y. *see* **Goshen-Meskin, Drora**, **93j:93023** *and* **93j:93024**

Barreiro Blas, Antonio Recursive independent state-space and matrix fraction realizations. **93a:93025**

Bershchanskiĭ, Ya. M. *see* **Meerov, M. V.; et al.**, **93a:93003**

Bloch, Gérard *see* **Mielcarek, Didier; et al.**, **(93c:93005)**

Bodson, Marc *see* **Willner, Yosef; et al.**, **93g:93051**

Böhm, Josef *see* **Kárný, Miroslav; et al.**, **93m:93055**

Bryant, G. F. *see* **Yeung, L. F.**, **93i:93061**

Chai, Tian You A direct multivariable adaptive decoupling control algorithm. (Chinese. English and Chinese summaries) **93i:93133**

Chen, Ben M. (*with* Saberi, Ali; Sannuti, Peddapullaiah) On blocking zeros and strong stabilizability of linear multivariable systems. (English summary) **93f:93111**

Chen, Yaobin Structure of the time-optimal control law for multiple arms handling a common object along specified paths. (English summary) **93k:93069**

Chuang, Chêng I Multivariable generalization of Ackermann's formula. (English and Chinese summaries) **93m:93059**

Conte, Giuseppe (*with* Perdon, Anna-Maria) Robust disturbance decoupling problem for parameter dependent families of linear systems. (English summary)

Cuyt, Annie (*with* Ogawa, S.; Verdonk, B.) Model reduction of multidimensional linear shift-invariant recursive systems using Padé techniques. (English summary) **93e:93009**
Ding, Feng (*with* Xie, Xin Min) An instrumental model identification algorithm for multivariable systems. (Chinese. English and Chinese summaries)
Faulkenberry, Richard E. The continuous kernel of a nonsquare rational matrix function. **93e:93014**
Freudenberg, J. S. *see* **Zhang, Zhihong**, **93m:93047**
Gibbard, M. J. *see* **Stefanidis, P.; et al.**, **93a:93004**
Goshen-Meskin, Drora (*with* Bar-Itzhack, I. Y.) Observability analysis of piecewise constant systems. I. Theory. (English summary) **93j:93023**
— (*with* Bar-Itzhack, I. Y.) Observability analysis of piecewise constant systems. II. Application to inertial navigation in-flight alignment. (English summary) **93j:93024**
Halousková, Alena *see* **Kárný, Miroslav; et al.**, **93m:93055**
Hamada, Nozomu (*with* Kato, T.) Stability conditions of 2-D system in terms of its line spectrum pair. (English summary) (*see* **93g:93006**)
Hara, Shinji *see* **Yamamoto, Yutaka**, **93a:93090**
Heymann, Michael *see* **Willner, Yosef; et al.**, **93g:93051**
Kaczorek, Tadeusz ★ Linear control systems. Vol. 1. **93k:93001**
Kárný, Miroslav (*with* Halousková, Alena; Böhm, Josef) MIMO—a set of SISO? Multivariate system adaptively controlled as a set of single-input single-output models. (English summary) **93m:93055**
Kato, T. *see* **Hamada, Nozomu**, (**93g:93006**)
Lastman, G. J. (*with* Sinha, Naresh K.) Identification of linear multivariable time-invariant systems from samples of input-output data. (English summary) (*see* **93h:93009**)
Lin, Wei[2] (*with* Yong, Jiong Min) Direct adaptive control of a class of MIMO nonlinear systems. (English summary) **93j:93078**
Liu, Xiao Ping[2] Output regulation of strongly coupled symmetric composite systems. (English summary) **93f:93011**
Loffler, Cristophe *see* **Mielcarek, Didier; et al.**, (**93c:93005**)
Meerov, M. V. (*with* Akhmetzyanov, A. V.; Bershchanskii, Ya. M.; et al.) ★ Многосвязные системы управления. (Russian) [Multivariable control systems] **93a:93003**
Mielcarek, Didier (*with* Loffler, Cristophe; Ragot, José; Bloch, Gérard) A comparative study of some recursive parameters estimation algorithms for multivariable systems. (English summary) (*see* **93c:93005**)
Nazin, A. V. Informational inequalities in a problem of the adaptive control of a multidimensional linear object. (Russian. Russian summary) **93f:93075**
Ogawa, S. *see* **Cuyt, Annie; et al.**, **93e:93009**
Papliński, A. P. *see* **Stefanidis, P.; et al.**, **93a:93004**
Perdon, Anna-Maria *see* **Conte, Giuseppe**
Plotnikov, A. V. A problem on the control of systems with distributed parameters under conditions of uncertainty. (Russian. English and Ukrainian summaries) **93i:49031**
Ragot, José *see* **Mielcarek, Didier; et al.**, (**93c:93005**)
Saberi, Ali *see* **Chen, Ben M.; et al.**, **93f:93111**
Sannuti, Peddapullaiah *see* **Chen, Ben M.; et al.**, **93f:93111**
Scattolini, Riccardo Multirate self-tuning control of multivariable systems. (English summary) (*see* **93j:93007**)
Sebastian, Hans-Jürgen Discrete-time control problems with uncertain information. **93f:93078**
Shaked, U. *see* **Yaesh, I.**, **93f:93054**
Sinha, Naresh K. *see* **Lastman, G. J.**, (**93h:93009**)
Sobel, Kenneth M. *see* **Su, Wei**, **93j:93081**
Stefanidis, P. (*with* Papliński, A. P.; Gibbard, M. J.) ★ Numerical operations with polynomial matrices. **93a:93004**
Su, Wei (*with* Sobel, Kenneth M.) A unified theory for the CGT approach to adaptive control. **93j:93081**
Trzaska, Z. W. The algorithm for computing nonmonic second order multivariable systems. (English summary) **93g:93037**
Verdonk, B. *see* **Cuyt, Annie; et al.**, **93e:93009**
Vostrikov, A. S. (*with* Yurkevich, V. D.) The decoupling of multi-channel nonlinear time-varying systems by derivative feedback. (Polish summary) **93d:93042**
Willems, Jan C. Feedback in a behavioral setting. **93i:93025**
Willner, Yosef (*with* Heymann, Michael; Bodson, Marc) Parameter convergence and uniqueness in nonminimal parameterizations for multivariable adaptive control. **93g:93051**
(Wilson, Derek R.) *see* **Kaczorek, Tadeusz**, **93k:93001**
Xie, Xin Min *see* **Ding, Feng**
Yaesh, I. (*with* Shaked, U.) H_∞-optimal one-step-ahead output feedback control of discrete-time systems. (English summary) **93f:93054**
Yamamoto, Yutaka (*with* Hara, Shinji) Internal and external stability and robust stability condition for a class of infinite-dimensional systems. **93a:93090**
Yeung, L. F. (*with* Bryant, G. F.) The *L*-dominance concept and its applications to multivariable system designs. (English summary) **93i:93061**
Yong, Jiong Min *see* **Lin, Wei[2]**, **93j:93078**
Yurkevich, V. D. *see* **Vostrikov, A. S.**, **93d:93042**
Zaslavskii, B. G. Eventually nonnegative realization of difference control systems. **93g:93020**
Zhang, Zhihong (*with* Freudenberg, J. S.) Formulas for minimum-phase/all-pass factorization of discrete-time transfer functions. (English summary) **93m:93047**

93C40 Adaptive control systems

Agu, M. (*with* Yamanaka, Kazuo) A mode of adaptive motion of a particle in an unknown field. (English summary) (*see* **93g:93006**)
Ahmad, Shaheen *see* **Sira-Ramirez, Hebertt J.; et al.**, **93k:93062**
Anderson, Brian D. O. *see* **Kennedy, R. A.; et al.**, (**93j:93007**)
Arkhipov, M. V. (*with* Bukov, V. N.) Estimation in an adaptive optimal control system. (Russian. Russian summary) **93e:93042**
Badr, Ahmed Z. Adaptive controller for minimum phase multi-input multi-output systems. (English summary)
Bahnasawi, Ahmed A. (*with* Mahmoud, Magdi S.) Reduced-order adaptive control scheme.
Bakhtizin, R. N. (*with* Latypov, A. R.) Estimation of the order of linear objects from experimental information. (Russian. Russian summary)
Bars, R. *see* **Haber, Robert**, (**93g:93004**)
Bastin, G. (*with* Campion, Guy) Indirect adaptive control of linearly parametrized nonlinear systems. (English summary) (*see* **93j:93007**)
Batur, C. (*with* Kasparian, V.) Fuzzy adaptive control. (English summary)
Berkan, R. C. (*with* Upadhyaya, B. R.; Kisner, R. A.; Fitzpatrick, Ben G.) Inverse dynamics paradigm: adaptive nonlinear control and identification of large-scale power systems. (English summary)
Bitmead, Robert R. *see* **Kennedy, R. A.; et al.**, (**93j:93007**)
Bodson, Marc *see* **Willner, Yosef; et al.**, **93g:93051**
Bodyanskii, E. V. (*with* Boryachok, M. D.) Locally optimal pseudodual control of objects with unknown parameters. (Russian. Russian summary)
Böhm, Josef *see* **Kárný, Miroslav; et al.**, **93m:93055**
Borkar, Vivek S. (*with* Ghosh, Mrinal K.) Correction: "Ergodic and adaptive control of nearest-neighbor motions" [Math. Control Signals Systems **4** (1991), no. 1, 81–98; MR 92e:93026]. **93i:93072**
Boryachok, M. D. *see* **Bodyanskii, E. V.**
Bukov, V. N. *see* **Arkhipov, M. V.**, **93e:93042**
Butler, H. (*with* Krijgsman, A. J.) Model reference adaptive control of coupled systems. (English summary) (*see* **93g:93004**)
Caines, Peter E. *see* **Meyn, Sean P.**, (**93j:93007**)
Campion, Guy *see* **Bastin, G.**, (**93j:93007**)
Casalino, G. (*with* Ferrara, A.; Minciardi, Riccardo) On stability analysis of equilibrium points of variational adaptive control schemes. (English summary) (*see* **93j:93007**)
Chang, Yau-Zen (*with* Daniel, Ron W.) On the adaptive control of flexible joint robots. (English summary)
Chen, C. H. *see* **Lin, S. F.; et al.**, (**93g:93006**)
Chen, Fu Chuang (*with* Khalil, Hassan K.) Adaptive control of nonlinear systems using neural networks. **93f:93074**
Chen, Han Fu (*with* Zhang, Ji Feng) Adaptive regulation for deterministic systems. **93a:93066**
Ch'ên, Po Hsien *see* **P'êng, Hua Chieh**, **93j:93079**
Chen, Shen (*with* Jiang, Jing Ping; Yuan, Hui Gen) Nonlinear self-adaptive control of a CSTR. (Chinese. Chinese summary)
Chotai, A. *see* **Young, P. C.; et al.**, (**93h:93009**)
Chu, Xue Dao *see* **Wang, Jian**
Corless, Martin Simple adaptive controllers for systems which are stabilizable via high gain feedback. **93b:93060**
Dahhou, B. *see* **Zeng, F. Y.; et al.**
Daniel, Ron W. *see* **Chang, Yau-Zen**
Delyon, Bernard (*with* Yuditskii, A. B.) Stable adaptive control for a plant with randomly varying parameters. (English summary) **93i:93073**
— (*with* Izmailov, R. N.; Yuditskii, A. B.) On the projection algorithm and delay of peaking in adaptive control. (English summary) **93m:93054**
Demircioğlu, H. *see* **Gawthrop, P. J.**, (**93j:93007**)
Desoer, Charles A. *see* **Sheikholeslam, Shahab**, **93m:93056**
Dion, Jean Michel *see* **Giri, F.; et al.**, (**93j:93007**)
Douce, J. L. *see* **Warwick, Kevin; et al.**, (**93j:93007**)
Dugard, Luc *see* **Giri, F.; et al.**, (**93j:93007**)
Evans, Robin J. *see* **Mareels, Iven M. Y.; et al.**
(Fairbairn, N. A.) *see* **Zhang, Han Quan**
Fang, Chong Zhi *see* **Jin, Yi Hui; et al.**, **93h:93039** *and* **Sun, Xi; et al.**
Fatmi, H. A. *see* **Resconi, G.; et al.**, (**93h:93007**) *and* **Lee, Ching-Cheng**, (**93h:93007**)
Ferrara, A. *see* **Casalino, G.; et al.**, (**93j:93007**)
Fikar, Miroslav (*with* Jørgensen, Sten Bay) Multivariable constrained adaptive predictive control based on pole placement design. (English summary) (*see* **93f:93005**)
Fitzpatrick, Ben G. *see* **Berkan, R. C.; et al.**
Fradkov, A. *see* **Lublinsky, B.**
Fratini, A. *see* **Jetto, L.; et al.**, (**93g:93004**)
Fujii, Seizo *see* **Sasaki, Motofumi; et al.**
Fukuda, Toshio *see* **Watanabe, Keigo; et al.** *and* (**93g:93004**)
Gawthrop, P. J. (*with* Demircioğlu, H.) Continuous-time generalized predictive control (CGPC). (English summary) (*see* **93j:93007**)
Ghosh, Mrinal K. *see* **Borkar, Vivek S.**, **93i:93072**
Giri, F. (*with* M'Saad, M.; Dugard, Luc; Dion, Jean Michel) A direct adaptive controller for a class of stable and time-varying plants. (English summary) (*see* **93j:93007**)
Goodwin, Graham C. (*with* Mayne, David Q.; Salgado, M. E.) Uncertainty, information and estimation. (English summary) (*see* **93j:93007**)
— *see also* **Morse, A. Stephen; et al.**, **93h:93043**
(Grimble, M. J.) *see* **Zhang, Han Quan**
Gu, Zhong Bi *see* **Wang, Wei**, **93b:93065** *and* **93g:93050**
Guan, Jian (*with* Wang, L.; Owens, David H.) Internal model adaptive control systems. (English summary) (*see* **93j:93007**)
Haber, Robert (*with* Bars, R.) One-step-ahead adaptive predictive control of nonlinear processes. (English summary) (*see* **93g:93004**)
Halousková, Alena *see* **Kárný, Miroslav; et al.**, **93m:93055**
Han, Zhi Gang A dual adaptive control algorithm for parameter estimation. (Chinese. English and Chinese summaries) **93i:93074**
Hayakawa, Yoshikazu *see* **Sasaki, Motofumi; et al.**
Helmke, Uwe (*with* Prätzel-Wolters, D.; Schmid, S.) Adaptive tracking for scalar minimum phase systems. (English summary) (*see* **93i:93006**)
Heymann, Michael *see* **Willner, Yosef; et al.**, **93g:93051**
Hill, David J. *see* **Wen, Changyun**, **93j:93082**
Hoàng Hòng So'n *see* **Thoa, P. H.; et al.**, (**93i:93007**)
Hu, Jun (*with* Wu, Hong Xin; Xie, Yong Chun) A simple practical multivariable self-adaptive control algorithm suitable for higher-dimensional variables and its application. (Chinese. Chinese summary)
Hu, Qing Yong *see* **Mu, Chun Di; et al.**

Ichikawa, K. Adaptive control based on exact model matching. (English summary) (*see* **93j:93007**)
Ilchmann, Achim (*with* Owens, David H.) Threshold switching functions in high-gain adaptive control. **93b:93061**
Isermann, Rolf *see* **Jordan, M.**, (**93j:93007**) *and* **Peter, K.**, (**93j:93007**)
(Isidori, Alberto) *see* **Schwartz, Carla A.**, **93b:93063**
Iwai, Z. (*with* Mizumoto, I.) Robust and simple adaptive control systems.
Iwaki, Toshihiro *see* **Sasaki, Motofumi; et al.**
Izmailov, R. N. *see* **Vladimirov, A. A.**, **93f:93076** *and* **Delyon, Bernard; et al.**, **93m:93054**
Jetto, L. (*with* Longhi, Sauro; Fratini, A.) Adaptive deadbeat trajectory tracking for robotic manipulators. (English summary) (*see* **93g:93004**)
Jiang, Jing Ping *see* **Chen, Shen; et al.**
Jin, Yi Hui (*with* Sun, Xi; Fang, Chong Zhi) Minimum variance control of a class of bilinear systems and its application. (Chinese. English and Chinese summaries) **93h:93039**
— *see also* **Sun, Xi; et al.**
Job Flores, J. *see* **Tang, Yu**, (**93i:93007**)
Johnson, Helen M. Model reference adaptive control of a nonlinear oscillator. (English summary) **93k:93061**
Jordan, M. (*with* Isermann, Rolf) Adaptive control with linear nonparametric models. (English summary) (*see* **93j:93007**)
Jørgensen, Sten Bay *see* **Fikar, Miroslav**, (**93f:93005**)
Kanellakopoulos, I. (*with* Kokotović, P. V.; Morse, A. Stephen) Adaptive output-feedback control of systems with output nonlinearities. (English summary) **93h:93041**
— *see also* **Kokotović, P. V.; et al.**, **93h:93040**
Karakaşoğlu, Ahmet *see* **Sundareshan, Malur K.**
Kárný, Miroslav (*with* Halousková, Alena; Böhm, Josef) MIMO—a set of SISO? Multivariate system adaptively controlled as a set of single-input single-output models. (English summary) **93m:93055**
Kasparian, V. *see* **Batur, C.**
Kayalar, S. *see* **Sinha, A. S. C.; et al.**, **93a:93068**
Kennedy, R. A. (*with* Anderson, Brian D. O.; Bitmead, Robert R.) Stochastic dynamics of blind decision feedback equalizer adaptation. (English summary) (*see* **93j:93007**)
Khalil, Hassan K. *see* **Chen, Fu Chuang**, **93f:93074**
Kim, Jong-Hwan Direct adaptive control using specially structured nonminimal model. (English summary) (*see* **93g:93006**)
Kisner, R. A. *see* **Berkan, R. C.; et al.**
Koivo, H. N. (*with* Tanttu, J. T.) Tuning of PID controllers: survey of SISO and MIMO techniques. (English summary) (*see* **93i:93007**)
Koizumi, Kunio *see* **Sasaki, Motofumi; et al.**
Kokotović, P. V. (*with* Kanellakopoulos, I.; Morse, A. Stephen) Adaptive feedback linearization of nonlinear systems. (English summary) **93h:93040**
— *see also* **Kanellakopoulos, I.; et al.**, **93h:93041**
Konovalov, M. G. (*with* Sinitsin, I. A.) ★ К теории адаптивного управления. (Russian) [On the theory of adaptive control] **93b:93062**
Krijgsman, A. J. *see* **Butler, H.**, (**93g:93004**)
Kumar, Panganamala Ramana *see* **Naik, Sanjeev M.; et al.**, **93i:93076**
Landau, I. D. Adaptive control—robustness and performance enhancement. (English summary) (*see* **93j:93007**)
Latypov, A. R. *see* **Bakhtizin, R. N.**
Ledwich, G. F. *see* **Teng, F. C.; et al.**
Lee, Ching-Cheng (*with* Fatmi, H. A.) An adaptive control model for parallel program scheduling. (*see* **93h:93007**)
Lee, T. H. *see* **Nungam, S.**, (**93i:93007**)
Li, Zheng (*with* Unbehauen, H.) Adaptive control of systems subject to deterministic time-varying disturbances via an additional measurement. (*see* **93h:93007**)
— (*with* Unbehauen, H.) Adaptive control of fast time-varying systems. (English summary) (*see* **93h:93009**)
Lin, S. F. (*with* Sheu, W. Y.; Chen, C. H.) A linear model tracker using adaptive indirect D-step-ahead control with saturating input. (English summary) (*see* **93g:93006**)
Lin, Wei² (*with* Yong, Jiong Min) Direct adaptive control of a class of MIMO nonlinear systems. (English summary) **93j:93078**
Longhi, Sauro *see* **Jetto, L.; et al.**, (**93g:93004**)
Lublinsky, B. (*with* Fradkov, A.) A comparison of adaptive and nonadaptive feedback for discrete-time plants with dead time. (English summary)
Mahmoud, Magdi S. *see* **Bahnasawi, Ahmed A.**
Mareels, Iven M. Y. (*with* Penfold, H. B.; Evans, Robin J.) Controlling nonlinear time-varying systems via Euler approximations.
— *see also* **Schwartz, Carla A.**, **93b:93063** *and* (**93h:93009**)
Marino, Riccardo (*with* Peresada, Sergei; Valigi, Paolo) Adaptive nonlinear control of induction motors via extended matching. (English summary) (*see* **93c:93004**)
— (*with* Tomei, Patrizio) Global adaptive observers for a class of nonlinear systems. (English summary) (*see* **93g:93006**)
Matko, D. Continuous-time generalized predictive adaptive control. (English summary) (*see* **93i:93007**)
Mayne, David Q. *see* **Morse, A. Stephen; et al.**, **93h:93043** *and* **Goodwin, Graham C.; et al.**, (**93j:93007**)
Meyn, Sean P. (*with* Caines, Peter E.) Mean exit times and rates of convergence for stochastic systems with applications to adaptive control. (English summary) (*see* **93j:93007**)
Minciardi, Riccardo *see* **Casalino, G.; et al.**, (**93j:93007**)
Mirkin, B. M. Proportional-integral-lagging adaptation algorithms. (Russian. English, Russian and Ukrainian summaries) **93i:93075**
Miyasato, Y. Model reference adaptive control for nonminimum phase system by periodic feedback. (English summary) (*see* **93i:93007**)
— Model reference adaptive control for distributed parameter systems of hyperbolic type by finite-dimensional controllers. (English summary) (*see* **93g:93006**)
Mizumoto, I. *see* **Iwai, Z.**
Moore, John Barratt (*with* Tay, T. T.) Adaptive control within the class of stabilizing controllers for a time varying nominal plant. (English summary) (*see* **93j:93007**)
Morse, A. Stephen A conceptual framework for parameter adaptive control. (English summary) **93h:93042**
— A conceptual framework for parameter adaptive control—a summary. (*see* **93g:93006**)
— Towards a unified theory of parameter adaptive control. II. Certainty equivalence and implicit tuning. **93a:93067a**
— Correction to: "Towards a unified theory of parameter adaptive control. II. Certainty equivalence and implicit tuning". **93a:93067b**
— (*with* Mayne, David Q.; Goodwin, Graham C.) Applications of hysteresis switching in parameter adaptive control. (English summary) **93h:93043**
— *see also* **Kokotović, P. V.; et al.**, **93h:93040** *and* **Kanellakopoulos, I.; et al.**, **93h:93041**
M'Saad, M. (*with* Sanchez, G.) Partial state reference model adaptive control of multivariable systems. (English summary)
— *see also* **Giri, F.; et al.**, (**93j:93007**)
Mu, Chun Di (*with* Hu, Qing Yong; Wu, Xu Dong) An adaptive control algorithm for optimal model matching based on the H_∞-norm. (Chinese. English and Chinese summaries)
Naik, Sanjeev M. (*with* Kumar, Panganamala Ramana; Ydstie, B. Erik) Robust continuous-time adaptive control by parameter projection. (English summary) **93i:93076**
Narendra, K. S. The maturing of adaptive control. **93e:93043**
Nazin, A. V. Informational inequalities in a problem of the adaptive control of a multidimensional linear object. (Russian. Russian summary) **93f:93075**
Nguyen Thuc Loan *see* **Thoa, P. H.; et al.**, (**93i:93007**)
Nihtilä, M. T. Input delay systems: adaptive control and lumped approximations. (English summary) (*see* **93g:93004**)
— *see also* **Zeng, F. Y.; et al.**
Norton, J. P. *see* **Veres, S. M.**, (**93i:93007**)
Nungam, S. (*with* Lee, T. H.) Investigative studies for a knowledge-based intelligent adaptive generalised predictive controller. (English summary) (*see* **93i:93007**)
Ohkawa, F. (*with* Tomizuka, Masayoshi) Model reference adaptive control of a class of nonlinear systems. (English summary) (*see* **93i:93007**)
Ohkubo, K. (*with* Ohmori, Hiromitsu; Sano, A.) Adaptive control for partial model matching in frequency domain for non-minimum phase systems. (English summary) (*see* **93j:93007**)
Ohmori, Hiromitsu (*with* Sano, A.) Robust adaptive control system based on extended leaky integration method. (English summary) (*see* **93i:93007**)
— *see also* **Ohkubo, K.; et al.**, (**93j:93007**)
Okubo, Shigenori A design of nonlinear model reference adaptive control and the application to the link mechanism. (English summary) (*see* **93i:93007**)
Oral, Ö. *see* **Yu, Run Yi; et al.**, (**93g:93006**)
Országhová, Zuzana *see* **Rohál-Ilkiv, Boris; et al.**, (**93f:93005**) *and* (**93h:93009**)
Ortega, Romeo On periodic adaptive stabilization of non-minimum phase systems. (English summary) (*see* **93g:93006**)
Owens, David H. *see* **Ilchmann, Achim**, **93b:93061**; **Townley, Stuart**, **93b:93064** *and* **Guan, Jian; et al.**, (**93j:93007**)
Pajunen, Grazyna Adaptive control of Wiener type nonlinear systems.
Penfold, H. B. *see* **Mareels, Iven M. Y.; et al.**
P'ěng, Hua Chieh (*with* Ch'ěn, Po Hsien) A robust discrete-time adaptive control with control input constraints. (English and Chinese summaries) **93j:93079**
Peresada, Sergei *see* **Marino, Riccardo; et al.**, (**93c:93004**)
Pessa, G. *see* **Resconi, G.; et al.**, (**93h:93007**)
Peter, K. (*with* Isermann, Rolf) Parameter-adaptive PID-control based on continuous-time process models. (English summary) (*see* **93j:93007**)
Peterka, V. Self-tuning control with alternative sets of uncertain process models. (English summary) (*see* **93j:93007**)
Prätzel-Wolters, D. *see* **Helmke, Uwe; et al.**, (**93i:93006**)
Qu, Zhihua *see* **Zhang, Qi Ren**, (**93j:93007**)
Resconi, G. (*with* Pessa, G.; Fatmi, H. A.) A computational field theory for adaptive control of neural networks and systems. (*see* **93h:93007**)
Richter, Roman *see* **Rohál-Ilkiv, Boris; et al.**, (**93f:93005**) *and* (**93h:93009**)
Rohál-Ilkiv, Boris (*with* Richter, Roman; Sroka, I.; Országhová, Zuzana; Zelinka, Peter) Adaptive control of distributed parameter systems with restricted spline input signals. (English summary) (*see* **93h:93009**)
— (*with* Országhová, Zuzana; Richter, Roman; Zelinka, Peter) Predictive control with constrained spline input signal. (English summary) (*see* **93f:93005**)
Salgado, M. E. *see* **Goodwin, Graham C.; et al.**, (**93j:93007**)
Sanchez, G. *see* **M'Saad, M.**
Sano, A. *see* **Ohkubo, K.; et al.**, (**93j:93007**) *and* **Ohmori, Hiromitsu**, (**93i:93007**)
Sasaki, Motofumi (*with* Hayakawa, Yoshikazu; Fujii, Seizo; Koizumi, Kunio; Iwaki, Toshihiro) Finite-dimensional model reference adaptive control of a class of nonlinear distributed systems with quasi-sliding mode. (English summary)
(Sastry, S. Shankar) *see* **Schwartz, Carla A.**, **93b:93063**
Scattolini, Riccardo Multirate self-tuning control of multivariable systems. (English summary) (*see* **93j:93007**)
Schmid, S. *see* **Helmke, Uwe; et al.**, (**93i:93006**)
Schumann, A. Input-output representation of predictive control algorithms. (English summary) (*see* **93j:93007**)
Schwartz, Carla A. (*with* Mareels, Iven M. Y.) Limitations of the use of linearizing control for adaptive control of nonlinear systems. (English summary) (*see* **93h:93009**)
— (*with* Mareels, Iven M. Y.) Comments on: "Adaptive control of linearizable systems" [IEEE Trans. Automat. Control **34** (1989), no. 11, 1123–1131; MR 91b:93101] by S. S. Sastry and A. Isidori. **93b:93063**
de la Sen, Manuel A robust discrete adaptive control scheme with a forgetting factor admitting saturated inputs. (English summary) **93j:93080**
Sezer, M. Erol *see* **Yu, Run Yi; et al.**, (**93g:93006**)
Shannon, G. *see* **Teng, F. C.; et al.**
Sheikholeslam, Shahab (*with* Desoer, Charles A.) Indirect adaptive control of a class of interconnected nonlinear dynamical systems. (English summary) **93m:93056**
Sheu, W. Y. *see* **Lin, S. F.; et al.**, (**93g:93006**)
Shi, Lin² (*with* Singh, Sunil K.) Decentralized adaptive controller design for large-scale systems with higher order interconnections. (English summary) **93h:93044**

Shin, Seiichi A design of hybrid adaptive control having computational delays. (English summary) (*see* **93i:93007**)
Singh, Sahjendra N. (*with* Wells, William R.) Adaptive control of decouplable systems and nonlinear flight control systems. (English and Polish summaries)
Singh, Sunil K. *see* **Shi, Lin², 93h:93044**
Sinha, A. S. C. (*with* Kayalar, S.; Yurtseven, H. O.) State-space approach to nonlinear model reference adaptive control. **93a:93068**
Sinitsin, I. A. *see* **Konovalov, M. G., 93b:93062**
Sira-Ramirez, Hebertt J. (*with* Zribi, Mohamed; Ahmad, Shaheen) Adaptive dynamical feedback regulation strategies for linearizable uncertain systems. (English summary) **93k:93062**
Sobel, Kenneth M. *see* **Su, Wei, 93j:93081**
Sroka, I. *see* **Rohál-Ilkiv, Boris; et al., (93h:93009)**
Stotskii, A. A. Lyapunov design for convergence rate improvement in adaptive control. (English summary) **93i:93077**
Su, Wei (*with* Sobel, Kenneth M.) A unified theory for the CGT approach to adaptive control. **93j:93081**
Sun, Xi (*with* Jin, Yi Hui; Fang, Chong Zhi) Globally convergent adaptive control of linear systems with dead-zone nonlinearity. (Chinese. English and Chinese summaries)
— *see also* **Jin, Yi Hui; et al., 93h:93039**
Sundareshan, Malur K. (*with* Karakaşoğlu, Ahmet) A neural network-based approach for the intelligent adaptive control of robotic manipulators. (English and Polish summaries)
Suzuki, Takashi (*with* Tanaka, Kanya) Expression of generalized adaptive law using delta operator. (English summary) (*see* **93j:93007**)
Tanaka, Kanya *see* **Suzuki, Takashi, (93j:93007)**
Tang, Yu (*with* Job Flores, J.) Adaptive frequency response compensation: experiments on a heat exchanger. (English summary) (*see* **93i:93007**)
Tanttu, J. T. *see* **Koivo, H. N., (93i:93007)**
Tay, T. T. *see* **Moore, John Barratt, (93j:93007)**
Teixeira, Marcelo Carvalho Minhoto Output control with dynamical compensators and strictly positive real systems. (English summary) **93m:93057**
Teng, F. C. (*with* Ledwich, G. F.; Shannon, G.) Adaptive control scheme for a robot manipulator: direct decoupler and PID controller. (English summary)
Thoa, P. H. (*with* Nguyen Thuc Loan; Hoàng Hồng So'n) Self-tuning adaptive control based on a new parameter estimation method. (English summary) (*see* **93i:93007**)
Tomei, Patrizio *see* **Marino, Riccardo, (93g:93006)**
Tomizuka, Masayoshi *see* **Ohkawa, F., (93i:93007)**
Townley, Stuart (*with* Owens, David H.) A note on the problem of multivariable adaptive tracking. **93b:93064**
Truchi, C. Adaptive optics—shape control of an adaptive mirror. (English summary) (*see* **93c:93006**)
Tych, W. *see* **Young, P. C.; et al., (93h:93009)**
Tzafestas, Spyros G. *see* **Watanabe, Keigo; et al.** *and* **(93g:93004)**
Unbehauen, H. Adaptive control of time-varying and nonlinear systems using a multi-model approach. (English summary) (*see* **93i:93006**)
— *see also* **Xiong, Y. F., (93g:93004); Li, Zheng, (93h:93007); (93h:93009)** *and* **Xiong, Y. F., (93h:93009)**
Upadhyaya, B. R. *see* **Berkan, R. C.; et al.**
Valigi, Paolo *see* **Marino, Riccardo; et al., (93c:93004)**
Veres, S. M. (*with* Norton, J. P.) Bound-based worst-case predictive controller. (English summary) (*see* **93i:93007**)
Vladimirov, A. A. (*with* Izmailov, R. N.) Transients in the case of adaptive control of a deterministic autoregression process. (Russian. Russian summary) **93f:93076**
Walsh, A. The adaptive deadbeat controller. (English summary) (*see* **93j:93007**)
Wang, Jian (*with* Chu, Xue Dao) A self-adaptive control algorithm based on correcting the predictive output of a system. (Chinese. English summary)
Wang, L. *see* **Guan, Jian; et al., (93j:93007)**
Wang, Wei (*with* Gu, Zhong Bi) Generalized predictive control for a class of nonlinear systems. (Chinese. English summary) **93b:93065**
— (*with* Gu, Zhong Bi) A self-adaptive generalized predictive control algorithm for nonlinear systems. (Chinese. English and Chinese summaries) **93g:93050**
Warwick, Kevin (*with* Zhu, Q.-M.; Douce, J. L.) An adaptive controller for nonlinear systems. (English summary) (*see* **93j:93007**)
Watanabe, Keigo (*with* Fukuda, Toshio; Tzafestas, Spyros G.) An adaptive control for CARMA systems using linear neural networks. (English summary) (*see* **93g:93004**)
— (*with* Fukuda, Toshio; Tzafestas, Spyros G.) An adaptive control for CARMA systems using linear neural networks. (English summary)
Wells, William R. *see* **Singh, Sahjendra N.**
Wellstead, P. E. Self-adaptive algorithms for two-dimensional signal sources. (English summary) (*see* **93j:93007**)
Wen, Changyun (*with* Hill, David J.) Global boundedness of discrete-time adaptive control just using estimator projection. (English summary) **93j:93082**
Willner, Yosef (*with* Heymann, Michael; Bodson, Marc) Parameter convergence and uniqueness in nonminimal parameterizations for multivariable adaptive control. **93g:93051**
Wu, Hong Xin *see* **Hu, Jun; et al.**
Wu, Xu Dong *see* **Mu, Chun Di; et al.**
Xie, Yong Chun *see* **Hu, Jun; et al.**
Xiong, Y. F. (*with* Unbehauen, H.) Adaptive control of systems with a class of direction-dependent nonlinearities. (English summary) (*see* **93h:93009**)
— (*with* Unbehauen, H.) Adaptive control of systems with unknown dead zone nonlinearities. (English summary) (*see* **93g:93004**)
Yamamoto, S. Industrial developments in intelligent and adaptive control. (English summary) (*see* **93i:93007**)
Yamanaka, Kazuo *see* **Agu, M., (93g:93006)**
Yastrebov, A. I. On the choice of input signal for bilinear MIMO dynamic system identification. (*see* **93a:60004**)
Ydstie, B. Erik Transient performance and robustness of direct adaptive control. (English summary) **93f:93077**
— *see also* **Naik, Sanjeev M.; et al., 93i:93076**
Yong, Jiong Min *see* **Lin, Wei², 93j:93078**
Young, P. C. (*with* Chotai, A.; Tych, W.) Adaptive true digital control (TDC) of continuous-time systems using δ operator models. (English summary) (*see* **93h:93009**)
Yu, Run Yi (*with* Sezer, M. Erol; Oral, Ô.) On decentralized adaptive control of interconnected systems. (English summary) (*see* **93g:93006**)
Yuan, Hui Gen *see* **Chen, Shen; et al.**
Yuditskii, A. B. *see* **Delyon, Bernard, 93i:93073** *and* **93m:93054**
Yurtseven, H. O. *see* **Sinha, A. S. C.; et al., 93a:93068**
Zelinka, Peter *see* **Rohál-Ilkiv, Boris; et al., (93f:93005)** *and* **(93h:93009)**
Zeng, F. Y. (*with* Dahhou, B.; Nihtilä, M. T.) Adaptive control of a nonlinear fermentation process via MRAC technique. (English summary)
Zhang, Han Quan Comment on: "H_∞ robust controller for self-tuning control applications. I, II, III" [Internat. J. Control **46** (1987), no. 4, 1429–1444; ibid. **46** (1987), no. 5, 1819–1840; ibid. **52** (1990), no. 1, 15–36] by M. J. Grimble and N. A. Fairbairn. (English summary)
Zhang, Ji Feng *see* **Chen, Han Fu, 93a:93066**
Zhang, Qi Ren (*with* Qu, Zhihua) Unification of continuous and discrete model reference adaptive control. (English summary) (*see* **93j:93007**)
Zhu, Q.-M. *see* **Warwick, Kevin; et al., (93j:93007)**
Zribi, Mohamed *see* **Sira-Ramirez, Hebertt J.; et al., 93k:93062**

Items with secondary classifications in 93C40

Adomaitis, R. A. *see* **Frouzakis, C. E.; et al., 93k:58205**
Åström, Karl Johan Adaptive control—a perspective. (English summary) (*see* **93j:93007**)
Aubin, Jean-Pierre (*with* Seube, Nicolas) Apprentissage adaptatif de lois de rétroaction de systèmes contrôlés par réseaux de neurones. (English summary) [Adaptive learning of feedback control laws by neural networks] **93e:68108**
Bakošová, M. *see* **Prokop, R.; et al., (93f:93005)**
Bastin, G. *see* **Praly, L.; et al., 93j:93135** *and* **Jarachi, F.; et al., (93g:93004)**
(Borne, Pierre) *see* **Mathematics of the analysis and design of process control, 93g:93004**
Božin, A. S. (*with* Zarrop, M. B.) The convergence of a modified ELS algorithm. (English summary) (*see* **93j:93007**)
Campion, Guy *see* **Schwartz, Carla A., 93a:93061**
Canudas de Wit, Carlos Adaptive control of robot manipulators using only position feedback. (*see* **93a:93005**)
Chen, Han Fu (*with* Zhang, Ji Feng) Convergence analysis for adaptive control systems with unknown orders, delay and coefficients. (Polish summary) **93b:93115**
— (*with* Guo, Lei; Zhang, Ji Feng) Identification and adaptive control for ARMAX systems. **93a:93002**
Chen, J. S. *see* **Chen, Ye-Hwa, 93h:93070**
Chen, Xin Hai *see* **Zhou, De Yun; et al.**
Chen, Ye-Hwa (*with* Chen, J. S.) Adaptive robust control of uncertain systems. **93h:93070**
— Adaptive robust control of uncertain systems with measurement noise. **93g:93079**
Chiang, Chiang Cheng Decentralized variable-structure adaptive controller synthesis of large-scale systems subjected to bounded disturbances. (English summary)
Datta, Aniruddha *see* **Ioannou, Petros A., 93k:93103**
Delyon, Bernard *see* **Fuchs, Jean-Jacques, 93f:93148**
(Devanathan, Rajagopalan) *see* **Intelligent tuning and adaptive control, 93i:93007**
Di Benedetto, Maria Domenica (*with* Sastry, S. Shankar) Adaptive linearization and model reference control of a class of MIMO nonlinear systems. (English summary) **93j:93069**
(Dion, Jean Michel) *see* **Kim, Jong-Hwan**
(Dugard, Luc) *see* **Kim, Jong-Hwan**
Dumont, G. A. (*with* Fu, Ye; Elshafei, A.-L.) Orthonormal functions in identification and adaptive control. (English summary) (*see* **93i:93007**)
(Duncan, Tyrone E.) *see* **Stochastic theory and adaptive control, 93g:93007**
(Durrani, T. S.) *see* **Adaptive systems in control and signal processing, 93j:93007**
Elshafei, A.-L. *see* **Dumont, G. A.; et al., (93i:93007)**
Feng, Gang (*with* Palaniswami, M.) Adaptive control of robot manipulators in task space. (English summary) **93k:93071**
Frouzakis, C. E. (*with* Adomaitis, R. A.; Kevrekidis, I. G.; Golden, M. P.; Ydstie, B. Erik) The structure of basin boundaries in a simple adaptive control system. (English summary) **93k:58205**
Fu, Ye *see* **Dumont, G. A.; et al., (93i:93007)**
Fuchs, Jean-Jacques (*with* Delyon, Bernard) Adaptive control of a simple time-varying system. **93f:93148**
Funahashi, Yasuyuki (*with* Katoh, Hisao) Input/output deadbeat control. (English summary) **93f:93064**
Gambardella, Lucia A continuous state feedback control for uncertain dynamical systems. (English summary) (*see* **93g:00030**)
van Gils, Stephan A. *see* **Salam, Fathi M. A.; et al., 93a:34048**
(Giri, F.) *see* **Kim, Jong-Hwan**
Golden, M. P. *see* **Frouzakis, C. E.; et al., 93k:58205**
(Grimble, M. J.) *see* **Adaptive systems in control and signal processing, 93j:93007**
Gunnarsson, S. Robustness in adaptive control from a frequency domain system identification perspective. (English summary) (*see* **93j:93007**)
Guo, Lei *see* **Chen, Han Fu; et al., 93a:93002**
Ham, Woonchul Adaptive control based on explicit model of robot manipulator. (English summary)
Harris, Christopher J. *see* **Moore, C. G.**
Hersh, M. A. A robust adaptive algorithm in delta-operator formulation. (*see* **93a:93005**)
Imura, J. (*with* Sugie, Toshiharu; Yoshikawa, Tsuneo) Adaptive robust control of robot manipulators. (English summary) (*see* **93g:93006**)
Ioannou, Petros A. (*with* Datta, Aniruddha) Robust adaptive control: design, analysis and robustness bounds. (English summary) **93k:93103**
— *see also* **Tsakalis, Kostas S., 93k:93006**
(Isermann, Helge) *see* **Isermann, Rolf, 93b:93002**
Isermann, Rolf ★ Digital control systems. Vol. 2. **93b:93002**
Janickienė, D. *see* **Kaminskas, V.; et al., (93j:93007)**
Jarachi, F. (*with* Bastin, G.; Wertz, V.) On predictive control of nonlinear recursive systems. (English summary) (*see* **93g:93004**)

Jiang, Z. P. *see* **Praly, L.; et al., 93j:93135**
(Johnson, Michael A.) *see* **Adaptive systems in control and signal processing, 93j:93007**
Kaminskas, V. (*with* Janickienė, D.; Vitkutė, D.) Self-tuning control of a stochastic nonlinear object. (*see* **93j:93007**)
Katoh, Hisao *see* **Funahashi, Yasuyuki, 93f:93064**
Kevrekidis, I. G. *see* **Frouzakis, C. E.; et al., 93k:58205**
Khargonekar, Pramod P. *see* **Krause, James M.; et al., 93b:93043**
Kim, Jong-Hwan Comments on: "Robust pole placement direct adaptive control" [IEEE Trans. Automat. Control **34** (1989), no. 3, 356–359] by F. Giri, J.-M. Dion, L. Dugard and M. M'Saad. (English summary)
Krause, James M. (*with* Khargonekar, Pramod P.; Stein, Gunter) Robust adaptive control: stability and asymptotic performance. **93b:93043**
Krivonos, I. Yu. (*with* Pokotilo, V. G.) ★ Построение оптимальных динамических наблюдателей. (Russian) [Construction of optimal dynamic observers] **93d:49023**
Kumar, Panganamala Ramana *see* **Naik, Sanjeev M.; et al., 93b:93032** *and* **93m:93101**
Kuntsevich, V. M. (*with* Lychak, M.) ★ Guaranteed estimates, adaptation and robustness in control systems. **93b:93004**
Lasiecka, Irena (*with* Triggiani, Roberto) Riccati differential equations with unbounded coefficients and nonsmooth terminal condition—the case of analytic semigroups. **93c:47090**
Laušmanová, Monika *see* **Mandl, Petr, (93g:93007)**
Lee, K. S. *see* **Mohler, R. R., (93g:93003)**
Lychak, M. *see* **Kuntsevich, V. M., 93b:93004**
Mandl, Petr (*with* Laušmanová, Monika) Discounted estimation and discretization in adaptive control. (*see* **93g:93007**)
Marino, Riccardo (*with* Tomei, Patrizio) Global adaptive observers for nonlinear systems via filtered transformations. (English summary) **93i:93029**
Mohler, R. R. (*with* Lee, K. S.) Nonlinear adaptive control in immunology and cancer. (English summary) (*see* **93g:93003**)
Moore, C. G. (*with* Harris, Christopher J.) Indirect adaptive fuzzy control. (English summary)
(M'Saad, M.) *see* **Kim, Jong-Hwan**
Murad, H. A. *see* **Sebakhy, O. A., (93h:93009)**
Naik, Sanjeev M. (*with* Kumar, Panganamala Ramana) Extended least squares based adaptive control: robustness analysis. (English summary) **93m:93101**
— (*with* Kumar, Panganamala Ramana; Ydstie, B. Erik) Robust continuous-time adaptive control by parameter projection. **93b:93032**
Novaković, Zoran R. ★ The principle of self-support in control systems. **93k:93005**
Okubo, Shigenori A design of nonlinear MRACS and the proof of stability. (English summary) (*see* **93j:93007**)
(Owens, David H.) *see* **Adaptive systems in control and signal processing, 93j:93007**
Palaniswami, M. *see* **Feng, Gang, 93k:93071**
Park, Sangil Real-time implementation of a frequency-domain adaptive detection scheme with the DSP56001. (English and Polish summaries)
(Pasik-Duncan, Bożenna) *see* **Stochastic theory and adaptive control, 93g:93007**
Pokotilo, V. G. *see* **Krivonos, I. Yu., 93d:49023**
Pomet, J.-B. *see* **Praly, L.; et al., 93j:93135**
Praly, L. (*with* Bastin, G.; Pomet, J.-B.; Jiang, Z. P.) Adaptive stabilization of nonlinear systems. (English summary) **93j:93135**
Prätzel-Wolters, D. *see* **Schmid, S., 93i:93011**
Prokop, R. (*with* Bakošová, M.; Turisová, Z.) Decentralized hybrid adaptive control based on polynomial approach. (English summary) (*see* **93f:93005**)
Qin, Kai Huai The theory of discrete Jacobi polynomial series forecasting control and an algorithm for it. (Chinese. English and Chinese summaries) **93j:93053**
(Radhy, Nour-Eddine) *see* **Mathematics of the analysis and design of process control, 93g:93004**
Reshetnyak, E. P. An adaptive discrete automatic system of variable structure. (Russian. Russian summary)
Rohrs, Charles E. *see* **Younce, Richard C., 93a:93038**
Salam, Fathi M. A. (*with* van Gils, Stephan A.; Zhang, Zhi Fen) Global bifurcation analysis of an adaptive control system. **93a:34048**
Sastry, S. Shankar *see* **Di Benedetto, Maria Domenica, 93j:93069**
Schmid, S. (*with* Prätzel-Wolters, D.) Synchronization through system interconnections. (English summary) **93i:93011**
Schwartz, Carla A. (*with* Campion, Guy) Zero dynamics—another oxymoron? Or en route to adaptive control of nonlinear systems. **93a:93061**
Sebakhy, O. A. (*with* Murad, H. A.) Design of restricted complexity adaptive regulators using explicit criterion minimization. (English summary) (*see* **93h:93009**)
Seube, Nicolas *see* **Aubin, Jean-Pierre, 93e:68108**
Sheirah, M. A. *see* **Wahba, A. M.**
Stein, Gunter *see* **Krause, James M.; et al., 93b:93043**
Stepanenko, Yu. *see* **Yuan, Jing**
Stettner, Łukasz On nearly self-optimizing strategies for a discrete-time uniformly ergodic adaptive model. (English summary) **93k:93120**
Stokić, D. *see* **Vukobratović, M., 93d:93057**
Sugie, Toshiharu *see* **Imura, J.; et al., (93g:93006)**
Tertychnyĭ, V. Yu. Design of an adaptive system for the stabilization of nonlinear dynamical objects using integral transformations. (Russian. Russian summary) **93d:93074**
Tomei, Patrizio *see* **Marino, Riccardo, 93i:93029**
Tong, Ming An *see* **Zhou, De Yun; et al.**
Triggiani, Roberto *see* **Lasiecka, Irena, 93c:47090**
Tsakalis, Kostas S. (*with* Ioannou, Petros A.) ★ Linear time-varying systems. **93k:93006**
Tsypkin, Ya. Z. Adaptive-invariant discrete control systems. (English summary) (*see* **93c:93004**)
Tu, Jian (*with* Yang, Fu Wen) An algebraic Riccati equation approach to H^∞ state feedback control problems. (Chinese. English and Chinese summaries)
Turisová, Z. *see* **Prokop, R.; et al., (93f:93005)**
(Tzafestas, Spyros G.) *see* **Mathematics of the analysis and design of process control, 93g:93004**
Vitkutė, D. *see* **Kaminskas, V.; et al., (93j:93007)**
Vukobratović, M. (*with* Stokić, D.) Is adaptive control necessary for manipulation robots, and if so, to what degree? (Russian) **93d:93057**
Wahba, A. M. (*with* Sheirah, M. A.) Adaptive decoupler for multivariable systems. (English summary)
Wertz, V. *see* **Jarachi, F.; et al., (93g:93004)**
Yang, Fu Wen *see* **Tu, Jian**
Ydstie, B. Erik Stability of the direct self-tuning regulator. (English summary) **93g:93078**
— *see also* **Naik, Sanjeev M.; et al., 93b:93032** *and* **Frouzakis, C. E.; et al., 93k:58205**
Yoshikawa, Tsuneo *see* **Imura, J.; et al., (93g:93006)**
Younce, Richard C. (*with* Rohrs, Charles E.) Identification with nonparametric uncertainty. **93a:93038**
Yuan, Jing (*with* Stepanenko, Yu.) Composite adaptive control of flexible joint robots. (English summary)
Zarrop, M. B. *see* **Božin, A. S., (93j:93007)**
Zhang, Ji Feng *see* **Chen, Han Fu; et al., 93a:93002** *and* **93b:93115**
Zhang, Zhi Fen *see* **Salam, Fathi M. A.; et al., 93a:34048**
Zhou, De Yun (*with* Chen, Xin Hai; Tong, Ming An) A model-following generalized predictive robust self-adaptive controller. (Chinese. English and Chinese summaries)

Items listed otherwise than by author

Adaptive systems in control and signal processing ★ Adaptive systems in control and signal processing. 1989. **93j:93007**
Conference:
Modelling and Control of Technological Systems ★ Mathematics of the analysis and design of process control. **93g:93004**
Congress:
Modelling and Control of Technological Systems ★ Mathematics of the analysis and design of process control. **93g:93004**
Dublin ★ Mathematics of the analysis and design of process control. **93g:93004**
Glasgow ★ Adaptive systems in control and signal processing. 1989. **93j:93007**
IFAC Symposium:
Adaptive Systems in Control and Signal Processing ★ Adaptive systems in control and signal processing. 1989. **93j:93007**
Intelligent Tuning and Adaptive Control ★ Intelligent tuning and adaptive control. **93i:93007**
Intelligent tuning and adaptive control ★ Intelligent tuning and adaptive control. **93i:93007**
Lawrence, KS ★ Stochastic theory and adaptive control. **93g:93007**
Lecture Notes in Control and Information Sciences ★ Stochastic theory and adaptive control. **93g:93007**
Lille ★ Mathematics of the analysis and design of process control. **93g:93004**
Mathematics of the analysis and design of process control ★ Mathematics of the analysis and design of process control. **93g:93004**
Singapore ★ Intelligent tuning and adaptive control. **93i:93007**
Stochastic theory and adaptive control ★ Stochastic theory and adaptive control. **93g:93007**
Workshop:
Stochastic Theory and Adaptive Control ★ Stochastic theory and adaptive control. **93g:93007**

93C41 Problems with incomplete information

Blanchini, Franco Constrained control for systems with unknown disturbances. **93i:93078**
Knobloch, Hans-W. Control under uncertain dynamics. **93i:93079**
Sebastian, Hans-Jürgen Discrete-time control problems with uncertain information. **93f:93078**
Zaremba, Leszek S. Step-guided strategies for control problems with uncertain dynamics. **93f:93079**

Items with secondary classifications in 93C41

Barreiro Blas, Antonio Recursive independent state-space and matrix fraction realizations. **93a:93025**
Basin, M. V. (*with* Orlov, Yu. V.) Guaranteed estimation of linear dynamical systems based on discrete-continuous observations. (Russian. Russian summary)
Bocharov, V. Yu. (*with* Melikyan, A. A.) Guaranteed speed problem with target point search in a polygonal uncertainty domain. (Russian) **93b:49006**
(Brykalov, S. A.) *see* **Control problems with guaranteed result, 93h:93008**
Bushenkov, V. A. (*with* Smirnov, G. V.) Regulation under conditions of uncertainty. (Russian) **93b:93041**
Cendra, H. *see* **Robledo, C.; et al., 93b:93090**
Dargeiko, M. M. *see* **Gorin, V. V., 93g:00020**
Desages, Alfredo *see* **Robledo, C.; et al., 93b:93090**
Drăgan, Vasile Optimal stabilizing compensator for linear systems under white noise perturbations. (English summary) **93j:93126**
— (*with* Morozan, Toader; Halanay, Aristide) Optimal stabilizing compensator for linear systems with state-dependent noise. (English summary) **93j:93127**
Filippova, T. F. *see* **Kurzhanskiĭ, A. B., 93a:34022**
Fukuda, Toshio *see* **Watanabe, Keigo; et al., 93h:93016**
Gabasov, R. F. (*with* Kirillova, F. M.) Optimization of dynamical systems with identification of input perturbations. (Russian summary) **93c:49021**
Gabelaya, A. G. A new invariance criterion for spectral values of linear autonomous systems. (Russian) **93b:93051**
Gorin, V. V. (*with* Dargeiko, M. M.) Investigation of the feasibility of calculating the motion of a dynamic system without loss of accuracy. (Russian. English summary) **93g:00020**
Gurov, I. R. *see* **Ohta, Yuzo; et al., 93h:93064**
Halanay, Aristide *see* **Drăgan, Vasile; et al., 93j:93127**
Haneda, H. *see* **Ohta, Yuzo; et al., 93h:93064**
Hu, Ting Shu (*with* Shi, Song Jiao) Robust stability analysis of an interval matrix. (Chinese. English and Chinese summaries) **93g:93064**
Israilov, I. *see* **Kirin, N. E., 93b:93003**
Kirillova, F. M. *see* **Gabasov, R. F., 93c:49021**

Kirin, N. E. (*with* Israilov, I.) ★ Оценочные системы в задачах теории управления. (Russian) [Evaluative systems in problems in control theory] **93b:93003**
Kolobov, M. G. State estimation of a dynamical system in the presence of uncertain state and noise measurement components. (Russian) **93b:93107**
Kurzhanskiĭ, A. B. (*with* Filippova, T. F.) The method of singular perturbations for differential inclusions. (Russian) **93a:34022**
Leondes, Cornelius T. *see* **Wang, Dau Chung, 93i:93067**
Melikyan, A. A. *see* **Bocharov, V. Yu., 93b:49006**
Morozan, Toader *see* **Drăgan, Vasile; et al., 93j:93127**
Ohta, Yuzo (*with* Gurov, I. R.; Haneda, H.) Quadratic stabilization of uncertain Lur'e-Postnikov systems via linear state feedback. (English summary) **93h:93064**
Onishchenko, S. M. Design by the second method of Lyapunov of nonlinear systems of strict stabilization and observation under conditions of uncertainty. (Russian) **93c:93040**
Orlov, Yu. V. *see* **Basin, M. V.**
Robledo, C. (*with* Desages, Alfredo; Cendra, H.) On the distance to the instability border of Hurwitz polynomials with coefficients that depend affinely on m parameters and a particular convexity property of H^*. **93b:93090**
Sagara, Setsuo *see* **Zhao, Zhen-Yu; et al.**
Shi, Song Jiao *see* **Hu, Ting Shu, 93g:93064**
Smirnov, G. V. *see* **Bushenkov, V. A., 93b:93041**
(Subbotin, A. I.) *see* **Control problems with guaranteed result, 93h:93008**
Tomizuka, Masayoshi *see* **Zhao, Zhen-Yu; et al.**
Tzafestas, Spyros G. *see* **Watanabe, Keigo; et al., 93h:93016**
Wang, Dau Chung (*with* Leondes, Cornelius T.) Robust tracking control of nonlinear systems with uncertain dynamics. **93i:93067**
Watanabe, Keigo (*with* Fukuda, Toshio; Tzafestas, Spyros G.) Sliding mode control and variable structure system observer as a dual problem for systems with nonlinear uncertainties. (English summary) **93h:93016**
Zhao, Zhen-Yu (*with* Sagara, Setsuo; Tomizuka, Masayoshi) A new bias-compensating LS method for continuous system identification in the presence of coloured noise. (English summary)

Items listed otherwise than by author

Control problems with guaranteed result ★ Проблемы управления с гарантированным результатом. (Russian) [Control problems with guaranteed result] **93h:93008**

93C42 Fuzzy control

Alang-Rashid, N. K. (*with* Heger, A. S.) A method for transforming operators' skill to fuzzy logic controllers. (English summary)
Angelov, Plamen *see* **Filev, Dimiter, 93d:93050** *and* **93i:93080**
Bouslama, Faouzi (*with* Ichikawa, Akira) Fuzzy control rules and their natural control laws. **93k:93063**
— (*with* Ichikawa, Akira) Application of limit fuzzy controllers to stability analysis. (English summary)
Buckley, James J. Universal fuzzy controllers. (English summary) **93j:93083**
— Theory of the fuzzy controller: an introduction. (English summary) **93h:93045**
— Nonlinear fuzzy controller. **93a:93069**
— Controllable processes and the fuzzy controller. (English summary)
Cao, Zhi Qiang *see* **Kandel, Abraham; et al.**
Chae, Seog *see* **Lee, Jihong**
Chen, Shou Yu (*with* Zhao, Ying Qi) Fuzzy optimum selection theory and models. (Chinese. English and Chinese summaries)
Cheng, Biao Grey spectrum of grey system. (English summary)
Delgado, Miguel (*with* González Muñoz, Antonio) An inductive learning procedure to identify fuzzy systems. (English summary)
Filev, Dimiter (*with* Angelov, Plamen) Fuzzy optimal control. **93d:93050**
— (*with* Angelov, Plamen) Optimal control in a fuzzy environment. (English summary) **93i:93080**
— (*with* Yager, Ronald R.) Three models of fuzzy logic controllers. (English summary)
Galán, R. *see* **Matía, F.; et al.**
González Muñoz, Antonio *see* **Delgado, Miguel**
Gu, Zhong Wen *see* **Yu, Jing Jiang; et al.**
Gulyanitskiĭ, L. F. (*with* Sergienko, I. V.) Construction of mathematical models of optimization problems using expert estimates. (English summary) (*see* **93e:00021**)
Hagino, Kojiro (*with* Ohbayashi, Tokuji) A design method of LQ regulator by fuzzy set theory.
Hang, Chang Chieh *see* **He, Shi Zhong; et al.**
Harris, Christopher J. *see* **Moore, C. G.**
He, Shi Zhong (*with* Tan, Shao Hua; Hang, Chang Chieh; Wang, Pei Zhuang) Control of dynamical processes using an on-line rule-adaptive fuzzy control system. (English summary)
— (*with* Tan, Shao Hua; Xu, Feng Lan; Wang, Pei Zhuang) Fuzzy self-tuning of PID controllers. (English summary)
Heger, A. S. *see* **Alang-Rashid, N. K.**
Hirota, Kaoru *see* **Yoshinari, Y.; et al.**
Hoang Tien Fuzzy system and fuzzy logic theory in the decision support systems and artificial inteligence. (English summary) (*see* **93b:93006**)
Hu, Shao Hua *see* **Liu, Shao Min**
Huang, Han Pang (*with* Lin, Wei Ming) Development of a simplified fuzzy controller and its relation to PID controller. (English and Chinese summaries)
Hwang, Guang Chyan (*with* Lin, Shih Ch'ang) A stability approach to fuzzy control design for nonlinear systems. (English summary) **93f:93080**
Ichihashi, Hidetomo Fuzzy control and modeling. (Japanese)
Ichikawa, Akira *see* **Bouslama, Faouzi, 93k:93063**
Iokibe, T. Fuzzy clustering method by an arbitrary fuzzy performance function: automatic generation of the fuzzy rule and membership functions. (English summary)
Isaka, Satoru (*with* Sebald, A. V.) An optimization approach for fuzzy controller design. (English summary)
Jiménez, A. *see* **Matía, F.; et al.**
Kandel, Abraham (*with* Li, Lihong; Cao, Zhi Qiang) Fuzzy inference and its applicability to control systems.
Kibzun, A. I. *see* **Zabelin, S. A., 93j:93084**
Klawonn, F. (*with* Kruse, Rudolf) Equality relations as a basis for fuzzy control. (English summary)
Kruse, Rudolf *see* **Klawonn, F.**
Kurano, Masami (*with* Yasuda, Masami; Nakagami, Junichi; Yoshida, Yuji) A limit theorem in some dynamic fuzzy systems. (English summary) **93g:93052**
Kussul', N. N. Estimation of the phase state of linear dynamic objects using families of ellipsoidal sets. (Russian. English summary) **93b:93066**
Lee, Jihong (*with* Chae, Seog) Analysis on function duplicating capabilities of fuzzy controllers. (English summary)
Li, Lihong *see* **Kandel, Abraham; et al.**
Lin, Shih Ch'ang *see* **Hwang, Guang Chyan, 93f:93080**
Lin, Wei Ming *see* **Huang, Han Pang**
Linkens, D. A. (*with* Nie, Jun Hong) Constructing rule-bases for multivariable fuzzy control by self-learning. I. System structure and learning algorithms. (English summary)
— (*with* Nie, Jun Hong) Constructing rule-bases for multivariable fuzzy control by self-learning. II. Rule-base formation and blood pressure control application. (English summary)
Liu, Shao Min (*with* Hu, Shao Hua) A method of generating control rule model and its application. (English summary)
Liu, Si Feng The three axioms of buffer operator and their application to GM(1, 1) prediction. (English summary)
Liu, Xiao Xian Stability of grey symmetric systems. (English summary)
Matía, F. (*with* Jiménez, A.; Galán, R.; Sanz, R.) Fuzzy controllers: lifting the linear-nonlinear frontier. (English summary)
Moore, C. G. (*with* Harris, Christopher J.) Indirect adaptive fuzzy control. (English summary)
Nakagami, Junichi *see* **Kurano, Masami; et al., 93g:93052**
van Nauta Lemke, H. R. Fuzzy control of systems, a bird's-eye view. (English summary) (*see* **93g:93004**)
Nie, Jun Hong *see* **Linkens, D. A.**
Ohbayashi, Tokuji *see* **Hagino, Kojiro**
Pedrycz, Witold *see* **Yoshinari, Y.; et al.**
Rahmani, Karim *see* **Shoureshi, Rahmat**
Raju, G. V. S. (*with* Zhou, Jun) Fuzzy logic adaptive algorithm to improve robustness in a steam generator level controller. (English summary)
Rommelfanger, Heinrich Fuzzy-Logik basierte Verarbeitung von Expertenregeln. (English and German summaries) [Processing of expert rules based on fuzzy logic]
Sanz, R. *see* **Matía, F.; et al.**
Sastri, K. S. *see* **Sastry, V. Narsimha; et al., 93k:93064**
Sastry, V. Narsimha (*with* Sastri, K. S.; Tiwari, R. N.) Spline membership function and its application in multiple objective fuzzy control problem. (English summary) **93k:93064**
Sebald, A. V. *see* **Isaka, Satoru**
Sergienko, I. V. *see* **Gulyanitskiĭ, L. F., (93e:00021)**
Shoureshi, Rahmat (*with* Rahmani, Karim) Derivation and application of an expert fuzzy optimal control system. (English summary)
Singer, Dennis Fuzzy Mason graphs. (English summary) **93f:93081**
Song, Shou Shan *see* **Wu, Zhi Qiao; et al.**
Sugeno, Michio *see* **Tanaka, Kazuo, 93a:93070**
Tan, Shao Hua *see* **He, Shi Zhong; et al.**
Tanaka, Kazuo (*with* Sugeno, Michio) Stability analysis and design of fuzzy control systems. **93a:93070**
Teh, Hoon Heng *see* **Wu, Zhi Qiao; et al.**
Tiwari, R. N. *see* **Sastry, V. Narsimha; et al., 93k:93064**
Ul'yanov, S. V. Fuzzy models of intelligent control systems: theoretical and applied aspects (a survey). (Russian. Russian summary) **93c:93032**
Vrba, J. Peak-pattern concept and max-min inverse problem in fuzzy control modelling.
Wang, Pei Zhuang *see* **Wu, Zhi Qiao; et al.; He, Shi Zhong; et al.**
Wu, Xue Mou Pansystems philosophy, pansystems mathematics (PPPM) and applications to APTMS: affairology, physics, technology, medicine and strategics. II. (Chinese. English and Chinese summaries)
Wu, Zhi Qiao (*with* Wang, Pei Zhuang; Teh, Hoon Heng; Song, Shou Shan) A rule self-regulating fuzzy controller.
Xu, Feng Lan *see* **He, Shi Zhong; et al.**
Yager, Ronald R. Implementing fuzzy logic controllers using a neural network framework.
— *see also* **Filev, Dimiter**
Yasuda, Masami *see* **Kurano, Masami; et al., 93g:93052**
Ying, Hao A nonlinear fuzzy controller with linear control rules is the sum of a global two-dimensional multilevel relay and a local nonlinear proportional-integral controller. (English summary)
Yoshida, Yuji *see* **Kurano, Masami; et al., 93g:93052**
Yoshinari, Y. (*with* Pedrycz, Witold; Hirota, Kaoru) Construction of fuzzy models through clustering techniques. (English summary)
Yu, Jing Jiang (*with* Gu, Zhong Wen; Zhou, Chun Hui) Construction of fuzzy reference sets and identification of fuzzy models. (Chinese. English summary)
Zabelin, S. A. Control of discrete systems under fuzzy conditions. (Russian) (*see* **93g:00022**)
— (*with* Kibzun, A. I.) Control of a linear scalar fuzzy system. (Russian. Russian summary) **93j:93084**
Zhao, Ying Qi *see* **Chen, Shou Yu**
Zhou, Chun Hui *see* **Yu, Jing Jiang; et al.**
Zhou, Jun *see* **Raju, G. V. S.**

Items with secondary classifications in 93C42

Araki, S. (*with* Nomura, H.; Hayashi, Isao; Wakami, N.) Fuzzy modeling with an iterative generation mechanism for fuzzy inference rules. (English summary)
Batur, C. (*with* Kasparian, V.) Fuzzy adaptive control. (English summary)

Deng, Ju Long The comparability of representation in grey system theory. (English summary)
— Grey units. (English summary)
Filev, Dimiter (*with* Yager, Ronald R.) An adaptive approach to defuzzification based on level sets. (English summary) **93m:04011**
Hayashi, Isao *see* **Araki, S.; et al.**
Jia, Li Min (*with* Zhang, Xi Di) Intelligent multiobjective optimal control. (English summary) (*see* **93i:93007**)
Kasparian, V. *see* **Batur, C.**
Long, Yu Grey relational method for discriminating system factors. (English summary)
Luo, Xiao *see* **Peng, Xiao Lin**, **93a:93079**
Morioka, M. Definition of a fuzzy complement and its influence on fuzzy control. (English summary) **93h:04005**
Murofushi, Toshiaki (*with* Sugeno, Michio) Hierarchical decomposition of Choquet integral systems. (English summary)
Nomura, H. *see* **Araki, S.; et al.**
Ohnishi, T. Fuzzy reasoning based on an ordinal structure model and its application to fuzzy control systems. (English summary)
Peng, Xiao Lin (*with* Luo, Xiao) Algebraic criteria for stability and instability of grey discrete systems. (Chinese. English summary) **93a:93079**
Sugeno, Michio *see* **Murofushi, Toshiaki**
Wakami, N. *see* **Araki, S.; et al.**
Wang, Feng Song *see* **Wang, Qing Yin**
Wang, Qing Yin (*with* Wang, Feng Song) The central grey target method for situational decision and its application. (English summary)
Yager, Ronald R. An alternative procedure for calculation of fuzzy logic controller values. (English summary) **93h:03027**
— *see also* **Filev, Dimiter**, **93m:04011**
Zhang, Xi Di *see* **Jia, Li Min**, (**93i:93007**)

93C45 Time-invariant

Cheng, Biao Complementarity grey number and dispelling superfluity control. (English summary)

Items with secondary classifications in 93C45

Balakrishnan, V. (*with* Boyd, Stephen P.) On computing the worst-case peak gain of linear systems. (English summary) **93j:93085**
Boyd, Stephen P. *see* **Balakrishnan, V.**, **93j:93085**
Chuang, Chêng I Multivariable generalization of Ackermann's formula. (English and Chinese summaries) **93m:93059**
Chuprina, V. E. Controllability of a linear time-independent discrete system on a subspace with retention. (Russian) **93j:93013**
Cioranescu, Doïna (*with* Donato, Patrizia; Zuazua, Enrike) Strong convergence on the exact boundary controllability of the wave equation in perforated domains. **93b:93015**
Donato, Patrizia *see* **Cioranescu, Doïna; et al.**, **93b:93015**
Freudenberg, J. S. *see* **Zhang, Zhihong**, **93m:93047**
Ibrahim, E. Y. (*with* Lovass-Nagy, Victor; Mukundan, Rangaswamy; Schilling, Robert J.) Remarks on optimal control and state estimation of a class of linear time-invariant descriptor-variable control systems. (English summary) **93j:93065**
Lovass-Nagy, Victor *see* **Ibrahim, E. Y.; et al.**, **93j:93065**
Mukundan, Rangaswamy *see* **Ibrahim, E. Y.; et al.**, **93j:93065**
Poljak, Svatopluk On the gap between the structural controllability of time-varying and time-invariant systems. (English summary) **93k:93016**
Schilling, Robert J. *see* **Ibrahim, E. Y.; et al.**, **93j:93065**
de la Sen, Manuel Relations between the stabilization properties of two classes of hereditary linear systems with commensurate delays. (English summary) **93h:93066**
— On the stabilizability, controllability and observability of linear hereditary systems with distributed commensurate delays. (English summary) **93m:93053**
Zhang, Zhihong (*with* Freudenberg, J. S.) Formulas for minimum-phase/all-pass factorization of discrete-time transfer functions. (English summary) **93m:93047**
Zuazua, Enrike *see* **Cioranescu, Doïna; et al.**, **93b:93015**

93C50 Time-dependent

Hjalmarsson, Håkan Estimation of the variability of time-varying systems. (English summary) (*see* **93h:93009**)
Webb, G. F. A nonlinear cell population model of periodic chemotherapy treatment. (English summary) (*see* **93e:34005**)

Items with secondary classifications in 93C50

Arvanitis, K. G. *see* **Paraskevopoulos, P. N.**, **93k:93046**
Ball, Joseph A. (*with* Gohberg, Israel; Kaashoek, Marinus A.) Nevanlinna-Pick interpolation for time-varying input-output maps: the discrete case. (*see* **93d:47148**)
— (*with* Gohberg, Israel; Kaashoek, Marinus A.) Nevanlinna-Pick interpolation for time-varying input-output maps: the continuous time case. (*see* **93d:47148**)
Bar-Itzhack, I. Y. *see* **Goshen-Meskin, Drora**, **93j:93023** *and* **93j:93024**
Chapellat, Hervé (*with* Dahleh, Mohammed A.) Analysis of time-varying control strategies for optimal disturbance rejection and robustness. (English summary) **93j:93075**
Dahleh, Mohammed A. *see* **Chapellat, Hervé**, **93j:93075**
Da Prato, Giuseppe Spectral properties of the closed loop operator and periodic control problems. (English summary) **93j:49039**
Delyon, Bernard *see* **Fuchs, Jean-Jacques**, **93f:93148**
Egupov, N. D. *see* **Lapin, S. V.**
Feintuch, Avraham Graphs of time varying linear systems and coprime factorizations. **93h:93019**
Fuchs, Jean-Jacques (*with* Delyon, Bernard) Adaptive control of a simple time-varying system. **93f:93148**
Fujita, Masayuki *see* **Uchida, Kenko**, **93j:93047**
Gohberg, Israel *see* **Ball, Joseph A.; et al.**, (**93d:47148**); (**93d:47148**) *and* **Time-variant systems and interpolation**, **93d:47148**
Goshen-Meskin, Drora (*with* Bar-Itzhack, I. Y.) Observability analysis of piecewise constant systems. I. Theory. (English summary) **93j:93023**
— (*with* Bar-Itzhack, I. Y.) Observability analysis of piecewise constant systems. II. Application to inertial navigation in-flight alignment. (English summary) **93j:93024**
Gu, Keqin (*with* Loh, Nan K.) Direct computation of stability bound for systems with polytopic uncertainties. (English summary) **93j:93105**
Halanay, Aristide Advances in linear control theory and Riccati equations. (English summary) **93k:93003**
Imae, J. (*with* Perkins, J. E.; Moore, John Barratt) Toward time-varying balanced realization via Riccati equations. **93b:93025**
Ioannou, Petros A. *see* **Tsakalis, Kostas S.**, **93k:93006**
Ivanov, A. G. (*with* Tonkov, E. L.) On the controllability set of a linear almost periodic system. (Russian) **93a:93017**
Jiang, Zhi Hua (*with* Schaufelberger, W.) ★ Block pulse functions and their applications in control systems. **93d:93003**
Kaashoek, Marinus A. *see* **Ball, Joseph A.; et al.**, (**93d:47148**) *and* (**93d:47148**)
Lapin, S. V. (*with* Egupov, N. D.) Analysis of continuous time-varying nonlinear systems using block-pulse expansions. (English summary)
Li, Wen Hua A class of dynamic input-output models with variable coefficients. (Chinese. Chinese summary)
Loh, Nan K. *see* **Gu, Keqin**, **93j:93105**
Molchanov, A. P. (*with* Morozov, M. V.) Absolute stability of nonlinear time-dependent control systems with a periodic linear part. (Russian. Russian summary) **93f:93096**
Moore, John Barratt *see* **Imae, J.; et al.**, **93b:93025**
Morozov, M. V. *see* **Molchanov, A. P.**, **93f:93096**
Paraskevopoulos, P. N. (*with* Arvanitis, K. G.) Output feedback uniform decoupling problem of linear time-varying analytic systems. (English summary) **93k:93046**
Perkins, J. E. *see* **Imae, J.; et al.**, **93b:93025**
Poljak, Svatopluk On the gap between the structural controllability of time-varying and time-invariant systems. (English summary) **93k:93016**
Schaufelberger, W. *see* **Jiang, Zhi Hua**, **93d:93003**
Toivonen, H. T. Sampled-data H_∞ optimal control of time-varying systems. **93c:93036**
Tonkov, E. L. *see* **Ivanov, A. G.**, **93a:93017**
Tsakalis, Kostas S. (*with* Ioannou, Petros A.) ★ Linear time-varying systems. **93k:93006**
Uchida, Kenko (*with* Fujita, Masayuki) Controllers attenuating disturbances and initial-uncertainties for time-varying systems. (English summary) **93j:93047**
Wu, Yung Ch'un *see* **Yen, Nie Zen**, **93m:93040**
Yen, Nie Zen (*with* Wu, Yung Ch'un) A multirate controller design of linear periodic time delay systems. (English summary) **93m:93040**

Items listed otherwise than by author

Time-variant systems and interpolation ★ Time-variant systems and interpolation. **93d:47148**

93C55 Discrete-time

Al-Saggaf, Ubaid M. Subsystem interconnection and near optimum control of discrete balanced systems. **93c:93033**
Andersland, Mark S. (*with* Teneketzis, Demosthenis) Information structures, causality, and nonsequential stochastic control. I. Design-independent properties. (English summary) **93i:93081**
Aslanova, N. Kh. (*with* Faradzhev, R. G.) On the block approach to problems in the theory of sequential machines. (Russian) **93b:93067**
Balakrishnan, V. (*with* Boyd, Stephen P.) On computing the worst-case peak gain of linear systems. (English summary) **93j:93085**
Bauer, Peter H. (*with* Leclerc, Louis-Jérôme) Bounded-input–bounded-output properties of nonlinear discrete difference equations—applications to fixed-point digital filters. (English summary)
Baushev, V. S. (*with* Zhusubaliev, Zh. T.; Kolokolov, Yu. V.; Terekhin, I. V.) On the calculation of local stability of periodic regimes in automatic control impulse systems. (Russian. Russian summary)
Bittanti, Sergio (*with* De Nicolao, Giuseppe) Spectral factorization of linear periodic systems with application to the optimal prediction of periodic ARMA models. (English summary)
Boyd, Stephen P. *see* **Balakrishnan, V.**, **93j:93085**
Casiello, Francisco A. *see* **Tsai, Yweting A.; et al.**, **93f:93082**
Chen, Wen De (*with* Qi, Xiang Dong; Deng, Shu Hui) The eigen-problem and period analysis of the discrete-event system. (English summary) **93m:93058**
Chizeck, Howard Jay *see* **Ji, Yuandong; et al.**, **93a:93071**
Chuang, Chêng I Multivariable generalization of Ackermann's formula. (English and Chinese summaries) **93m:93059**
Dahleh, Munther A. *see* **Diaz-Bobillo, Ignacio J.**
Deng, Shu Hui *see* **Chen, Wen De; et al.**, **93m:93058**
De Nicolao, Giuseppe *see* **Bittanti, Sergio**
Deskov, V. P. (*with* Dimirovski, G. M.; Gough, N. E.) On the ordering of characteristic input-output modes in MIMO discrete-time systems. (English summary) (*see* **93f:93005**)
Diaz-Bobillo, Ignacio J. (*with* Dahleh, Munther A.) State feedback l_1-optimal controllers can be dynamic. (English summary)
Dimirovski, G. M. *see* **Deskov, V. P.; et al.**, (**93f:93005**)
Estruch, Vicente D. *see* **Pedroso de Lima, Teresa; et al.**, (**93j:00009**)
Faradzhev, R. G. *see* **Aslanova, N. Kh.**, **93b:93067**
Feng, Xiangbo *see* **Ji, Yuandong; et al.**, **93a:93071**
Fornasini, E. (*with* Marchesini, Giovanni) Topics in 2D systems theory. (*see* **93a:93006**)
Gao, Wei Bing *see* **Li, Yong Hua**
Gnativ, L. A. (*with* Kozhukhovskiĭ, A. D.; Litvin, A. I.) Organizing vector calculations of orthogonal Walsh transformations. (Russian. English, Russian and Ukrainian summaries)
Gough, N. E. *see* **Deskov, V. P.; et al.**, (**93f:93005**)

Grasselli, Osvaldo Maria (*with* Longhi, Sauro) Block decoupling of linear periodic discrete-time systems. (English summary) (*see* **93g:93005**)
Hernández, Vicente G. *see* **Pedroso de Lima, Teresa; et al., (93j:00009)**
Hori, Noriyuki (*with* Mori, Takahiko; Nikiforuk, Peter N.) A new perspective for discrete-time models of a continuous-time system. **93c:93034**
Inooka, Hikaru *see* **Ishihara, Tadashi; et al., (93g:93005)**
Ishihara, Tadashi (*with* Watanabe, Tetsuo; Inooka, Hikaru) A partial loop recovery for discrete-time systems under feedback delays. (English summary) (*see* **93g:93005**)
Janickienė, D. *see* **Kaminskas, V.; et al., (93j:93007)**
Ji, Yuandong (*with* Chizeck, Howard Jay; Feng, Xiangbo; Loparo, Kenneth A.) Stability and control of discrete-time jump linear systems. **93a:93071**
Kalogeropoulos, Grigoris (*with* Stratis, Ioannis G.) On a generalised linear discrete-time boundary value problem. (English summary)
Kaminskas, V. (*with* Janickienė, D.; Vitkutė, D.) Self-tuning control of a stochastic nonlinear object. (*see* **93j:93007**)
Katayama, Tohru A spectral factorization for discrete-time system via state-space method. (English summary) (*see* **93g:93005**)
Kolokolov, Yu. V. *see* **Baushev, V. S.; et al.**
Kotta, Ülle Dynamic disturbance decoupling for discrete time nonlinear systems: the nonsquare and noninvertible case. (Russian and Estonian summaries) **93a:93072**
Kozhukhovskii, A. D. *see* **Gnativ, L. A.; et al.**
Leclerc, Louis-Jérôme *see* **Bauer, Peter H.**
Lewis, Frank L. (*with* Mertzios, B. G.) On the analysis of two-dimensional discrete singular systems. **93d:93051**
Li, Yong Hua (*with* Gao, Wei Bing) Heuristic supervision of discrete event systems. (English summary)
Litvin, A. I. *see* **Gnativ, L. A.; et al.**
Longhi, Sauro *see* **Grasselli, Osvaldo Maria, (93g:93005)**
Loparo, Kenneth A. *see* **Ji, Yuandong; et al., 93a:93071** *and* **Tsai, Yweting A.; et al., 93f:93082**
Marchesini, Giovanni *see* **Fornasini, E., (93a:93006)**
Menq, Chia-Hsiang (*with* Xia, Jack Zhijie) Characterization and compensation of discrete-time non-minimum-phase systems for precision tracking control. (English summary)
Mertzios, B. G. *see* **Lewis, Frank L., 93d:93051**
Mori, Takahiko *see* **Hori, Noriyuki; et al., 93c:93034**
Mutoh, Yasuhiko (*with* Ortega, Romeo) Interactor structure estimation for adaptive control of discrete-time multivariable nondecouplable systems. (English summary)
Nikiforuk, Peter N. *see* **Hori, Noriyuki; et al., 93c:93034**
Ortega, Romeo *see* **Mutoh, Yasuhiko**
Owens, David H. *see* **Rogers, Eric L., (93g:93006)**
Pal, Jayanta (*with* Prasad, Rajendra) Biased reduced order models for discrete-time systems. (English and Polish summaries)
Pedroso de Lima, Teresa (*with* Estruch, Vicente D.; Hernández, Vicente G.) Discrete periodic linear systems in implicit form. (Spanish) (*see* **93j:00009**)
Prasad, Rajendra *see* **Pal, Jayanta**
Qi, Xiang Dong *see* **Chen, Wen De; et al., 93m:93058**
Ray, Asok *see* **Shen, Jenny H.**
Rogers, Eric L. (*with* Owens, David H.) 2D transfer-function based controller design for discrete linear repetitive processes. (English summary) (*see* **93g:93006**)
Shen, Jenny H. (*with* Ray, Asok) Discrete-time loop transfer recovery with multistep delays. (English summary)
— (*with* Ray, Asok) Extended discrete-time LTR synthesis of delayed control systems. (English summary)
Stanomir, D. A theory of discrete-time systems. A functional approach. II. Fundamental concepts. (English summary) **93i:93082a**
— A theory of discrete-time systems. A functional approach. III. Some applications. (English summary) **93i:93082b**
Stratis, Ioannis G. *see* **Kalogeropoulos, Grigoris**
Sun, Fu Chun (*with* Sun, Zeng Qi) The discrete-time controller design based on sliding mode for manipulators. (English and Chinese summaries)
Sun, Zeng Qi *see* **Sun, Fu Chun**
Tarczyński, Andrzej Simple discrete-time regulator minimizing sensitivity. (English summary)
Teneketzis, Demosthenis *see* **Andersland, Mark S., 93i:93081**
Terekhin, I. V. *see* **Baushev, V. S.; et al.**
Tsai, Yweting A. (*with* Casiello, Francisco A.; Loparo, Kenneth A.) Discrete-time entropy formulation of optimal and adaptive control problems. **93f:93082**
Tsypkin, Ya. Z. Adaptive-invariant discrete control systems. (English summary) (*see* **93c:93004**)
Ushio, Toshimitsu Controllability of predicates and languages in discrete-event systems. (English summary)
Varaiya, Pravin Process models for discrete event systems. **93a:93073**
Vitkutė, D. *see* **Kaminskas, V.; et al., (93j:93007)**
Wang, Hong Yu² (*with* Yin, Fu Liang) The Z transform of a transforming series. (Chinese. English and Chinese summaries)
Watanabe, Tetsuo *see* **Ishihara, Tadashi; et al., (93g:93005)**
Wimmer, Harald K. Monotonicity and maximality of solutions of discrete-time algebraic Riccati equations. **93b:93068**
— Geometry of the discrete-time algebraic Riccati equation. **93c:93035**
Xia, Jack Zhijie *see* **Menq, Chia-Hsiang**
Yin, Fu Liang *see* **Wang, Hong Yu²**
Zhusubaliev, Zh. T. *see* **Baushev, V. S.; et al.**

Items with secondary classifications in 93C55

Anderson, Brian D. O. *see* **White, Langford B., 93g:93038**
Antsaklis, Panos J. *see* **Gao, Zhiqiang, 93j:93103**
Atadan, S. Periodic behaviour in nonlinear discrete-time systems and its application to a digital control system. (English summary) **93j:93087**
Bassong-Onana, A. (*with* Darouach, Mohamed) Optimal filtering for singular systems using orthogonal transformations. (English summary) **93i:93120**
Belhouari, A. (*with* Tissir, E.; Hmamed, A.) Stability of interval matrix polynomial in continuous and discrete cases. **93g:93062**
Bhatt, R. K. P. Gradient based interpretation of two stochastic approximation methods and their modifications. (English summary) (*see* **93g:93003**)
Bitmead, Robert R. *see* **Yan, Wei Yong, 93g:93009**
Bittanti, Sergio (*with* Bolzern, P.; De Nicolao, Giuseppe) Comments on: "Stabilizability and detectability of discrete-time time-varying systems" [IEEE Trans. Automat. Control **35** (1990), no. 4, 425–429] by J. C. Engwerda. (English summary)
Blondel, Vincent *see* **Kinnaert, Michel, 93c:93036**
Bolzern, P. *see* **Bittanti, Sergio; et al.**
Bordyug, B. A. (*with* Larin, V. B.) An algorithm for solving Riccati equations arising in H^∞-optimization problems. (Russian. English summary) **93i:93050**
Brémaud, Pierre Maximal coupling and rare perturbation sensitivity analysis. (English summary) **93j:93039**
Brockett, Roger W. Pulse driven dynamical systems. (*see* **93a:93006**)
Brown, David P. Stability of n-order discrete systems with overflow arithmetic. **93d:93058**
Brú, Rafael *see* **Sánchez, Elena; et al., 93a:93027**
Campbell, L. A. *see* **Wiberg, D. M., (93h:93009)**
Chen, Guan Rong (*with* Dong, Xiaoning) On feedback control of chaotic nonlinear dynamic systems. (English summary) **93g:93046**
Chen, Hui (*with* Chen, Zhao Kuan; Zhang, Yan Ping) A study on the controllable region of a discrete linear system with a constraint on the control fuel. (Chinese. English and Chinese summaries) **93h:93013**
Chen, Tongwen A simple derivation of the $\mathscr{H}_2$-optimal sampled-data controllers. (English summary) **93j:93089**
Chen, Zhao Kuan *see* **Chen, Hui; et al., 93h:93013**
Cheng, Chiu Pin (*with* Li, Tzuu Hseng S.; Sun, Yü I) Stability margins of singularly perturbed discrete-time systems based on state feedback and linear quadratic optimal control. (English summary) **93j:93095**
Chentsov, A. G. (*with* Yafrakov, M. F.) Programmed approach and evasion problems in discrete systems with combined constraints. (Russian. English and Ukrainian summaries) **93c:90117**
Chung, S.-T. (*with* Grizzle, J. W.) Internally exponentially stable nonlinear discrete-time noninteracting control via static feedback. **93b:93096**
Chuprina, V. E. Controllability of a linear time-independent discrete system on a subspace with retention. (Russian) **93j:93013**
Conte, Giuseppe *see* **Perdon, Anna-Maria; et al., 93b:93053**
Dai, Guan Zhong *see* **Qin, Chao Ying**
Darouach, Mohamed *see* **Bassong-Onana, A., 93i:93120**
De Nicolao, Giuseppe *see* **Bittanti, Sergio; et al.**
Denker, Ahmet *see* **Kaynak, Okyay, 93m:93019**
Deodhare, Girish (*with* Vidyasagar, M.) Control system design via infinite linear programming. **93g:93040**
Dias Peres, Pedro Luis (*with* Geromel, J. C.) $\mathscr{H}_2$ control for discrete-time systems optimality and robustness. (English summary)
Dong, Xiaoning *see* **Chen, Guan Rong, 93g:93046**
Drakunov, S. V. (*with* Utkin, Vadim I.) Sliding mode control in dynamic systems. **93f:93018**
Durgaprasad, G. (*with* Prasada Rao, Ganti; Patra, Amit; Mukhopadhyay, Siddhartha) Indirect methods of parameter estimation of discrete-time models. (English summary) (*see* **93h:93009**)
Dymkov, M. P. Necessary conditions for optimality in a linear 2-D control system with constraints. (Russian. English and Russian summaries) **93i:49032**
Emel'yanov, S. V. (*with* Zhivoglyadov, P. V.; Korovin, S. K.) A method for stabilizing discrete objects with compact uncertainty. (Russian) **93c:93044**
(Engwerda, Jacob C.) *see* **Bittanti, Sergio; et al.**
Farison, James B. (*with* Kolla, Sri R.) Stability robustness bounds for discrete-time linear regulators. **93f:93100**
— (*with* Kolla, Sri R.) Techniques in stability robustness bounds for linear discrete-time systems. **93h:93054**
Fêng, I Kang *see* **Wu, Chin Fu; et al., 93e:93055**
Figwer, J. (*with* Niederliński, A.; Kasprzyk, J.) A new approach to the identification of linear discrete-time MISO systems. (English summary) (*see* **93h:93009**)
Fliess, Michel Reversible linear and nonlinear discrete-time dynamics. (English summary) **93f:93037**
Fomin, V. N. ★ Discrete linear control systems. **93d:93002**
Freudenberg, J. S. *see* **Zhang, Zhihong, 93m:93047**
Fu, Minyue (*with* de Souza, Carlos E.; Xie, Lihua) Quadratic stabilization and H_∞ control of discrete-time uncertain systems. (English summary) (*see* **93g:93005**)
Funahashi, Yasuyuki (*with* Yamada, Manabu) Explicit parametrization of state deadbeat controllers. (English summary) **93g:93013**
Gabasov, R. F. (*with* Gaishun, P. V.; Kirillova, F. M.) Optimal estimator for linear systems. (Russian and Lithuanian summaries) **93c:93025**
Gaishun, I. V. (*with* Hoang Van Quang) Conditions for complete controllability and observability of discrete two-parameter systems. (Russian) **93a:93016**
— (*with* Hoang Van Quang) Controllability of Roesser systems in a global state space. (Russian. Russian summary) **93m:93011**
— Topological properties of two-parameter discrete control systems. (Russian. English and Russian summaries) **93j:93015**
Gaishun, P. V. *see* **Gabasov, R. F.; et al., 93c:93025**
Gao, Zhiqiang (*with* Antsaklis, Panos J.) Explicit asymmetric bounds for robust stability of continuous and discrete-time systems. (English summary) **93j:93103**
Georgiou, Christos G. (*with* Krikelis, N. J.) Constrained regulation design of linear discrete-time descriptor systems. (English summary)
Gerasimov, O. I. (*with* Yunger, I. B.) A matrix criterion for the absolute stability of impulse automatic control systems. (Russian. Russian summary)
Geromel, J. C. *see* **Dias Peres, Pedro Luis**
Gilbert, Elmer G. *see* **Tan, Kok Tin, (93d:90005)**
Grizzle, J. W. *see* **Chung, S.-T., 93b:93096**
Gu, Guoxiang (*with* Khargonekar, Pramod P.) Linear and nonlinear algorithms for

identification in $\mathscr{H}_\infty$ with error bounds. **93f:93046**

Guan, Xiaohong (*with* Luh, Peter B.) A new parallel algorithm for optimal control problems of interconnected systems. (English summary) **93k:49028**

Gudmundsson, Thorkell (*with* Kenney, Charles; Laub, Alan J.) Scaling of the discrete-time algebraic Riccati equation to enhance stability of the Schur solution method. **93b:93042**

Guo, Hai Jiao *see* **Wu, Min; et al.**

Gurman, V. Extensions and global estimates for evolutionary discrete control systems. (English summary) (*see* **93d:93006**)

Halanay, Aristide (*with* Ionescu, Vlad) Generalized discrete-time Popov-Yakubovich theory. (English summary) **93m:93081**

Halpern, Mark E. *see* **Hill, Robin D., 93k:93045**

Han, Qing Long (*with* Wu, Qi Bin) Erratum: "Stability robustness analysis of discrete linear systems" [Internat. J. System Sci. **22** (1991), no. 1, 165–172; MR 91j:93076]. **93k:93084**

Haussmann, U. G. (*with* Zhang, Qing[1]) Discrete-time stochastic adaptive control with small observation noise. **93f:93149**

He, Guan Yu A recursive filter for linear discrete systems with delayed observations. (Chinese. English summary) **93e:93063**

— A recursive filter for nonlinear discrete-time systems with linear observations. (Chinese. English and Chinese summaries) **93e:93064**

Heh, Jia Sheng *see* **Wu, Chin Fu; et al., 93e:93055**

Hernández, Vicente G. *see* **Sánchez, Elena; et al., 93a:93027**

Hill, Robin D. (*with* Halpern, Mark E.) Minimum overshoot design for SISO discrete-time systems. (English summary) **93k:93045**

Hinrichsen, Diederich (*with* Pritchard, A. J.) On the robustness of stable discrete-time linear systems. **93b:93083**

Hmamed, A. *see* **Belhouari, A.; et al., 93g:93062**

Hoang Van Quang *see* **Gaishun, I. V., 93a:93016** *and* **93m:93011**

van den Hof, Paul M. J. System order and structure indices of linear systems in polynomial form. **93b:93071**

Hu, Jian Sheng (*with* Yang, Cheng Wu) A discrete pulse orthogonal function method for the analysis of discrete systems and parameter estimation. (Chinese. Chinese summary)

Inooka, Hikaru *see* **Zheng, Liang-An; et al.**

Ionescu, Vlad (*with* Weiss, Martin) State-space solution for the discrete-time H^∞-control problem. **93b:93034**

— (*with* Weiss, Martin) On computing the stabilizing solution of the discrete-time Riccati equation. (English summary) **93h:93025**

— (*with* Weiss, Martin) The l^2-control problem for time-varying discrete systems. (English summary) **93f:93061**

— (*with* Weiss, Martin) Two-Riccati formulae for the discrete-time H^∞-control problem. (English summary) **93k:93040**

— *see also* **Halanay, Aristide, 93m:93081**

Ishihara, Tadashi *see* **Zheng, Liang-An; et al.** *and* **Wu, Min; et al.**

Johnson, Alan On the sampled-data linear quadratic tracking problem. (English summary) **93j:93090**

Jonckheere, Edmond A. *see* **Wu, Bing-Fei, 93i:93094**

Jury, Eliahu I. *see* **Kraus, Frantisek J.; et al., 93a:93083**

Kaczorek, Tadeusz Local controllability, reachability, and reconstructibility of the general singular model of 2-D systems. (English summary) **93j:93018**

Kaminer, Isaac (*with* Khargonekar, Pramod P.; Rotea, Mario A.) Mixed $\mathscr{H}_2/\mathscr{H}_\infty$ control for discrete-time systems via convex optimization. (English summary) **93j:93043**

Kasprzyk, J. *see* **Figwer, J.; et al., (93h:93009)**

Katayama, Tohru A simple state-space approach to spectral factorization for discrete-time system. (English summary) **93i:93044**

Kaynak, Okyay (*with* Denker, Ahmet) Discrete-time sliding mode control in the presence of system uncertainty. (English summary) **93m:93019**

Kenney, Charles *see* **Gudmundsson, Thorkell; et al., 93b:93042**

Kerbelev, A. M. *see* **Tsypkin, Ya. Z., 93m:93079**

Khammash, Mustafa H. (*with* Pearson, J. Boyd, Jr.) Analysis and design for robust performance with structured uncertainty. (English summary) **93k:93085**

Khargonekar, Pramod P. *see* **Gu, Guoxiang, 93f:93046** *and* **Kaminer, Isaac; et al., 93j:93043**

Kibzun, A. I. *see* **Zabelin, S. A., 93j:93084**

Kimura, Morishige Conversion of discrete-time time-invariant linear systems into continuous systems. (English summary) **93k:93027**

Kinnaert, Michel (*with* Blondel, Vincent) Discrete-time pole placement with stable controller. (English summary) **93e:93036**

Kirillova, F. M. *see* **Gabasov, R. F.; et al., 93c:93025**

Kirin, N. E. (*with* Saukhanova, Zh.) Two-sided estimates in the problem of predicting the components of discrete systems. (Russian) (*see* **93m:00028**)

Kitamori, Toshiyuki *see* **Shin, Seiichi, (93j:93007)**

Kliokys, E. (*with* Kulhavý, Rudolf) Bayesian filtering for discrete-time systems with random structure. (English summary) (*see* **93j:93007**)

Kodama, Shinzo *see* **Takai, Shigemasa; et al.**

Kolla, Sri R. *see* **Farison, James B., 93f:93100** *and* **93h:93054**

Kornoushenko, E. K. Reconstruction of a scalar signal at the input of a discrete linear system for an admissible specification of its parameters. (Russian. Russian summary)

Korovin, S. K. *see* **Emel'yanov, S. V.; et al., 93c:93044**

Kotta, Ülle Model matching of nonlinear single-input single-output discrete-time systems: formal and local solutions. (Russian and Estonian summaries) **93a:93049**

— Model matching of nonlinear discrete time systems via dynamic state feedback. (English, Russian and Estonian summaries) **93h:93029**

Kraus, Frantisek J. (*with* Mansour, Mohamed; Jury, Eliahu I.) Robust Schur stability of interval polynomials. **93a:93083**

Krikelis, N. J. *see* **Georgiou, Christos G.**

Kučera, Vladimír ★ Analysis and design of discrete linear control systems. **93j:93002**

Kul'chitskii, O. Yu. *see* **Vishnevskii, B. L., 93d:93061**

Kulhavý, Rudolf *see* **Kliokys, E., (93j:93007)**

K'ung, Fan Chû *see* **Lee, Chien-Hua; et al., 93e:93046**

Kuntsevich, V. M. Reconstruction of the state vector of linear discrete systems from measurements of scalar output. (Russian. Russian summary)

Kuo, Tê Shêng *see* **Wu, Chin Fu; et al., 93e:93055**

Kurek, Jerzy E. (*with* Zaremba, Marek B.) Iterative learning control synthesis based on 2-D system theory. (English summary)

Larin, V. B. *see* **Bordyug, B. A., 93i:93050**

Laub, Alan J. *see* **Gudmundsson, Thorkell; et al., 93b:93042**

Lee, Chien-Hua (*with* Li, Tzuu Hseng S.; K'ung, Fan Chû) *D*-stability analysis for discrete systems with a time delay. (English summary) **93e:93046**

Lewis, Frank L. A tutorial on the geometric analysis of linear time-invariant implicit systems. **93b:93005**

Li, Jen Hsing *see* **Li, Tzuu Hseng S., 93e:93051**

Li, Tzuu Hseng S. (*with* Li, Jen Hsing) Stabilization bound of discrete two-time-scale systems. **93e:93051**

— *see also* **Lee, Chien-Hua; et al., 93e:93046** *and* **Cheng, Chiu Pin; et al., 93j:93095**

Li, Zhong Hua Comments on: "Linearization of discrete-time nonlinear systems and a canonical structure" [IEEE Trans. Automat. Control **34** (1989), no. 1, 119–122; MR 89k:93031] by K. Nam. (English summary) **93k:93023**

Lin, Chin E. *see* **Yeh, Fang Bo; et al., 93j:93050**

Lin, Lin *see* **Wang, Le Yi, 93g:93034**

Lin, Wei[2] (*with* Yong, Jiong Min) Direct adaptive control of a class of MIMO nonlinear systems. (English summary) **93j:93078**

Liu, G. P. Mean controllers for discrete systems. (English summary) **93k:93117**

Liu, Xiao Ping[2] (*with* Zhang, Si Ying) Three-level Stackelberg strategies in linear-quadratic descriptor system. (English, Russian and Polish summaries)

Liu, Yong Qing *see* **Tang, Gong You, 93i:93093**

Longhi, Sauro *see* **Perdon, Anna-Maria; et al., 93b:93053**

Luh, Peter B. *see* **Guan, Xiaohong, 93k:49028**

Mansour, Mohamed *see* **Kraus, Frantisek J.; et al., 93a:93083**

Medanić, J. V. *see* **Paz, R. A., 93f:93051**

Monaco, Salvatore (*with* Normand-Cyrot, D.) Canonical representations of nonlinear discrete-time systems. **93g:93018**

Mosca, Edoardo (*with* Zhang, Jing Xin) Stable redesign of predictive control. (English summary)

Mukhopadhyay, Siddhartha *see* **Durgaprasad, G.; et al., (93h:93009)**

Mutoh, Yasuhiko (*with* Nikiforuk, Peter N.) A method for verifying sector conditions in nonlinear discrete-time control systems. (English summary) **93h:93050**

(Nam, Kwanghee) *see* **Li, Zhong Hua, 93k:93023**

Niederliński, A. *see* **Figwer, J.; et al., (93h:93009)**

Nikiforuk, Peter N. *see* **Mutoh, Yasuhiko, 93h:93050**

Normand-Cyrot, D. *see* **Monaco, Salvatore, 93g:93018**

Nurges, Ülo Robust control for a class of linear systems. (English, Russian and Estonian summaries)

Özveren, Cüneyt M. (*with* Willsky, Alan S.) Aggregation and multi-level control in discrete event dynamic systems. **93a:93010**

— (*with* Willsky, Alan S.) Invertibility of discrete-event dynamic systems. (English summary) **93i:93087**

— (*with* Willsky, Alan S.) Tracking and restrictability in discrete event dynamic systems. (English summary) **93h:93038**

Pak, H. A. (*with* Shieh, Rowmau) On MIMO optimal preview tracking control for known trajectory models. (English summary)

Pakshin, P. V. The asymptotic properties of linear discrete controls. I. Asymptotic solutions of an algebraic Riccati equation. (Russian. Russian summary) **93k:93044**

Park, Jooyoung (*with* Sandberg, Irwin W.) Criteria for the approximation of nonlinear systems. (English summary) **93j:93071**

Patra, Amit *see* **Durgaprasad, G.; et al., (93h:93009)**

Paz, R. A. (*with* Medanić, J. V.) $\mathscr{H}_\infty$ control in discrete time: state feedback control and norm bounds. **93f:93051**

Pearson, J. Boyd, Jr. *see* **Khammash, Mustafa H., 93k:93085**

Perdon, Anna-Maria (*with* Conte, Giuseppe; Longhi, Sauro) Invertibility and inversion of linear periodic systems. **93b:93053**

Piccardi, Carlo Finite-horizon optimal control with pointwise cost functional. (English summary) **93h:49047**

Potts, Renfrey B. *see* **Yu, Xinghuo, 93e:93011**

Prasada Rao, Ganti *see* **Durgaprasad, G.; et al., (93h:93009)**

Pritchard, A. J. *see* **Hinrichsen, Diederich, 93b:93083**

Pytlak, R. A variational approach to the discrete maximum principle. (English summary) **93k:49018**

Qin, Chao Ying (*with* Dai, Guan Zhong) State estimation of generalized discrete stochastic linear systems. (Chinese. English and Chinese summaries)

Radhy, Nour-Eddine About regulation of nonlinear discrete-time systems subject to symmetrical or nonsymmetrical convex state constraints. (English summary) (*see* **93g:93004**)

Rao, Li Chang *see* **Wu, Min; et al.**

Rao, Ming *see* **Xia, Qijun; et al.**

Regalia, Phillip A. On finite precision Lyapunov functions for companion matrices. (English summary) **93h:93051**

Rempała, Ryszarda Forecast horizon in a dynamic family of one-dimensional control problems. **93e:49003**

Rotea, Mario A. *see* **Kaminer, Isaac; et al., 93j:93043**

Rozenvasser, E. N. Systems characteristics of linear periodic pulse operators. (Russian) **93a:93034**

— Application of parametric transfer functions in problems of the synthesis of discrete control laws. I. Optimal discrete filtering of continuous dynamical processes by the mean dispersion criterion. (Russian. Russian summary) **93g:93043a**

— Application of parametric transfer functions in problems of the synthesis of discrete control laws. II. Synthesis of control laws for closed continuous-digital systems. (Russian. Russian summary) **93g:93043b**

Sal'nikov, N. N. *see* **Volosov, V. V., 93i:93023**

Sánchez, Elena (*with* Hernández, Vicente G.; Brú, Rafael) Minimal realizations for discrete-time linear periodic systems. **93a:93027**

Sandberg, Irwin W. *see* **Park, Jooyoung, 93j:93071**

Saukhanova, Zh. *see* **Kirin, N. E., (93m:00028)**
Schmid, Beat F. *see* **Skulimowski, Andrzej M. J., 93g:93008**
Sebastian, Hans-Jürgen Discrete-time control problems with uncertain information. **93f:93078**
de la Sen, Manuel A robust discrete adaptive control scheme with a forgetting factor admitting saturated inputs. (English summary) **93j:93080**
Shaked, U. *see* **Yaesh, I., 93b:93039; 93f:93054** *and* **93j:93143**
Shen, Xuemin *see* **Xia, Qijun; et al.**
Shieh, Rowmau *see* **Pak, H. A.**
Shin, Seiichi (*with* Kitamori, Toshiyuki) Model reference learning control for discrete-time nonlinear system. (English summary) (*see* **93j:93007**)
Sinha, Naresh K. ★ Linear systems. **93d:93001**
Sirotin, A. N. Analysis of problems of programmed control, optimal with respect to probability, of a linear system with discrete time. (Russian) **93e:93070**
Skelton, Robert E. *see* **Xu, Ji-Han, 93i:93060**
Skulimowski, Andrzej M. J. (*with* Schmid, Beat F.) Redundance-free description of partitioned complex systems. (English summary) **93g:93008**
Sokolov, V. F. Preservation of a guaranteed result in the control of a discrete object with unknown parameters. (Russian. Russian summary) (*see* **93m:00034**)
Solé, L. On feedback universality of discrete systems. **93b:93008**
de Souza, Carlos E. *see* **Fu, Minyue; et al., (93g:93005)**
Staffans, Olof J. MIMO l^1-optimization with a scalar control. (English summary) **93h:93022**
Sternby, Jan *see* **Walgama, Kirthi S.**
Sun, Jian Zhong *see* **Yang, Cheng Wu; et al.**
Sun, Yü I *see* **Cheng, Chiu Pin; et al., 93j:93095**
Sznaier, Mario Norm based robust control of state-constrained discrete-time linear systems. **93d:93066**
Takai, Shigemasa (*with* Ushio, Toshimitsu; Kodama, Shinzo) Decentralized state feedback control of large-scale discrete event systems. (Japanese. English summary)
Tan, Kok Tin (*with* Gilbert, Elmer G.) Multi-mode controllers for linear discrete-time systems with general state and control constraints. (English summary) (*see* **93d:90005**)
Tang, Gong You (*with* Liu, Yong Qing) Stability of time-varying discrete large-scale systems. (Chinese. English and Chinese summaries) **93i:93093**
Tissir, E. *see* **Belhouari, A.; et al., 93g:93062**
Tsvirkun, A. D. (*with* Yakovenko, S. Yu.) Nonlinear semigroups and infinite horizon optimization. (Polish summary) **93d:49031**
Tsypkin, Ya. Z. Optimal discrete systems for the control of non-minimal-phase objects. (Russian) **93d:93038**
— Stabilizing nonlinear discrete systems under nonparametric uncertainty conditions. (Russian. English, Russian and Ukrainian summaries) **93g:93069**
— (*with* Kerbelev, A. M.) Robust nonlinear discrete control systems. (Russian) **93m:93079**
Ushio, Toshimitsu *see* **Takai, Shigemasa; et al.**
Utkin, Vadim I. *see* **Drakunov, S. V., 93f:93018**
Vidal, René Victor Valqui The generalized maximum principle: an introduction. (English and Spanish summaries)
Vidyasagar, M. *see* **Deodhare, Girish, 93g:93040**
Vishnevskii, B. L. (*with* Kul'chitskii, O. Yu.) Sufficient conditions for stability of discrete systems with tunable dynamics. (Russian. Russian summary) **93d:93061**
Volosov, V. V. (*with* Sal'nikov, N. N.) An observer for a class of nonlinear discrete control objects. (Russian. Russian summary) **93i:93023**
Walgama, Kirthi S. (*with* Sternby, Jan) On the convergence properties of adaptive pole-placement controllers with antiwindup compensators. (English summary)
Wang, En Ping Local maximum principle for singular discrete-time linear systems. **93h:49041**
Wang, Hai Yan² Pole assignment in a specified region and robustness. (Chinese. English and Chinese summaries) **93j:93121**
Wang, Le Yi (*with* Lin, Lin) On metric dimensions of discrete-time systems. (English summary) **93g:93034**
Wang, Wên Chün (*with* Wu, Gin Hol) Variable structure control design on discrete-time systems from another viewpoint. **93d:93021**
Weiss, Martin *see* **Ionescu, Vlad, 93b:93034; 93f:93061; 93h:93025** *and* **93k:93040**
White, Langford B. (*with* Anderson, Brian D. O.) Stationary discrete-time covariance factorization using Newton-Raphson iteration. **93g:93038**
Wiberg, D. M. (*with* Campbell, L. A.) A discrete-time convergent approximation of the optimal recursive parameter estimator. (English summary) (*see* **93h:93009**)
Willsky, Alan S. *see* **Özveren, Cüneyt M., 93a:93010; 93h:93038** *and* **93i:93087**
Wu, Bing-Fei (*with* Jonckheere, Edmond A.) A simplified approach to Bode's theorem for continuous-time and discrete-time systems. (English summary) **93i:93094**
Wu, Chin Fu (*with* Heh, Jia Sheng; Fêng, I Kang; Kuo, Tê Shêng) Optimal pi-coefficients of second-order systems. **93e:93055**
Wu, Gin Hol *see* **Wang, Wên Chün, 93d:93021**
Wu, Min (*with* Guo, Hai Jiao; Rao, Li Chang; Ishihara, Tadashi) A parametrization of discrete-time low-order integral controllers with computation delay. (English and Chinese summaries)
Wu, Qi Bin *see* **Han, Qing Long, 93k:93084**
Xia, Qijun (*with* Shen, Xuemin; Ying, Yiqun; Rao, Ming) Near-optimum steady-state regulator for discrete singularly perturbed systems with a prescribed degree of stability. (English summary)
Xie, Lihua *see* **Fu, Minyue; et al., (93g:93005)**
Xu, Ji-Han (*with* Skelton, Robert E.) An improved covariance assignment theory for discrete systems. (English summary) **93i:93060**
Yaesh, I. (*with* Shaked, U.) H_∞-optimal estimation—the discrete time case. (English summary) **93j:93143**
— (*with* Shaked, U.) H_∞-optimal one-step-ahead output feedback control of discrete-time systems. (English summary) **93f:93054**
— (*with* Shaked, U.) Game theory approach to state estimation of linear discrete-time processes and its relation to H_∞-optimal estimation. **93b:93039**
Yafrakov, M. F. *see* **Chentsov, A. G., 93c:90117**
Yakovenko, S. Yu. *see* **Tsvirkun, A. D., 93d:49031**
Yamada, Manabu *see* **Funahashi, Yasuyuki, 93g:93013**
Yan, Wei Yong (*with* Bitmead, Robert R.) Control of linear discrete-time periodic systems: a decentralized control approach. (English summary) **93g:93009**
Yang, Cheng Wu (*with* Sun, Jian Zhong; Zou, Yun) A Lyapunov method for asymptotic stability of general two-dimensional discrete linear state-space models with constant coefficients. (Chinese. English and Chinese summaries)
— *see also* **Hu, Jian Sheng**
Yeh, Fang Bo (*with* Young, Jieh Shian; Lin, Chin E.) State-space formulae for the parametrization of discrete-time H^∞ control problem. (English summary) **93j:93050**
Ying, Yiqun *see* **Xia, Qijun; et al.**
Yong, Jiong Min *see* **Lin, Wei², 93j:93078**
Young, Jieh Shian *see* **Yeh, Fang Bo; et al., 93j:93050**
Yu, Xinghuo (*with* Potts, Renfrey B.) Analysis of discrete variable structure systems with pseudo-sliding modes. **93e:93011**
— Discrete variable structure control systems. (English summary)
Yunger, I. B. *see* **Gerasimov, O. I.**
Zabelin, S. A. Control of discrete systems under fuzzy conditions. (Russian) (*see* **93g:00022**)
— (*with* Kibzun, A. I.) Control of a linear scalar fuzzy system. (Russian. Russian summary) **93j:93084**
Zaremba, Marek B. *see* **Kurek, Jerzy E.**
Zaslavskii, B. G. Eventually nonnegative realization of difference control systems. **93g:93020**
Zhang, Jing Xin *see* **Mosca, Edoardo**
Zhang, Qing¹ *see* **Haussmann, U. G., 93f:93149**
Zhang, Si Ying *see* **Liu, Xiao Ping²**
Zhang, Yan Ping *see* **Chen, Hui; et al., 93h:93013**
Zhang, Zhihong (*with* Freudenberg, J. S.) Formulas for minimum-phase/all-pass factorization of discrete-time transfer functions. (English summary) **93m:93047**
Zheng, Liang-An (*with* Ishihara, Tadashi; Inooka, Hikaru) On prediction-type reduced-order observers for discrete-time systems. (English summary)
Zhivoglyadov, P. V. *see* **Emel'yanov, S. V.; et al., 93c:93044**
Zou, Yun *see* **Yang, Cheng Wu; et al.**

93C57 Sampled-data

Abe, Ken-ichi *see* **Su, Laiping; et al., 93j:93091**
Anderson, Brian D. O. Optimizing the discretization of continuous-time controllers. (English summary) **93j:93086**
Araki, Mituhiko *see* **Choe, Yeon-Wook, 93f:93083**
Atadan, S. Periodic behaviour in nonlinear discrete-time systems and its application to a digital control system. (English summary) **93j:93087**
Bai, Er Wei Uncertainty bound of sampled data systems. (English summary)
Bamieh, Bassam A. (*with* Dahleh, Munther A.; Pearson, J. Boyd, Jr.) Rejection of persistent, bounded disturbances for sampled-data systems. (English summary) (*see* **93f:93006**)
— (*with* Pearson, J. Boyd, Jr.) The $\mathscr{H}^2$ problem for sampled-data systems. **93d:93052**
Bingulac, S. (*with* VanLandingham, H. F.) A unified approach to the discretization and "continualization" of MIMO systems. (English summary) **93j:93088**
Chait, Yossi *see* **Yaniv, Oded**
Chen, Tongwen A simple derivation of the $\mathscr{H}_2$-optimal sampled-data controllers. (English summary) **93j:93089**
Chen, Wen De (*with* Qi, Xiang Dong) Theory and algorithms on period assignment of discrete-event dynamic systems. **93d:93053**
Choe, Yeon-Wook (*with* Araki, Mituhiko) Control of serial sampling systems. (English summary) **93f:93083**
Colaneri, P. (*with* Scattolini, Riccardo; Schiavoni, Nicola) Stabilization and regulation of multirate sampled-data systems. (English summary) (*see* **93g:93005**)
Dahleh, Munther A. *see* **Bamieh, Bassam A.; et al., (93f:93006)**
Dullerud, Geir E. (*with* Francis, Bruce Allen) $\mathscr{L}_1$-performance in sampled-data systems. (English summary) (*see* **93g:93005**)
— (*with* Francis, Bruce Allen) $\mathscr{L}_1$ analysis and design of sampled-data systems. **93a:93074**
Farber, V. E. Distribution moments of amplitude-quantified processes in rounding by the use of correcting signals. (Russian. Russian summary)
Francis, Bruce Allen *see* **Dullerud, Geir E., 93a:93074** *and* **(93g:93005)**
Galkina, V. G. (*with* Shalyapina, O. V.) Construction of impulse controls in systems with delay. (Russian. English and Russian summaries) **93m:93060**
Gostev, V. I. A formula for optimal control of an object (system) in the case of a linearly varying action. (Russian. Russian summary)
Hovestädt, E. State space analysis of sampled-data systems—extension of Kalman and Bertram's method. (English summary) (*see* **93g:93004**)
Johnson, Alan On the sampled-data linear quadratic tracking problem. (English summary) **93j:93090**
Kazlauskas, Kazys A unified view on block and scalar impulse responses. (English, Russian and Lithuanian summaries)
Khargonekar, Pramod P. *see* **Sivashankar, N.**
Kiyota, Takanori *see* **Kondo, Eiji; et al., 93m:93061**
Kondo, Eiji (*with* Kiyota, Takanori; Sunaga, Teruo) Closed-loop expressions of minimum energy control for single-input linear digital systems. (English summary) **93m:93061**
Linnemann, Arno $\mathscr{L}_\infty$-induced optimal performance in sampled-data systems. **93b:93069**
Meyer, David G. Cost translation and a lifting approach to the multirate LQG problem. (English summary) **93f:93084**
Miwa, Tetsuya *see* **Su, Laiping; et al., 93j:93091**
Pearson, J. Boyd, Jr. *see* **Bamieh, Bassam A., 93d:93052** *and* **(93f:93006)**
Qi, Xiang Dong *see* **Chen, Wen De, 93d:93053**
Qu, Zhihua The positive-real and strictly positive-real property of sampled system. (English summary) (*see* **93j:93007**)
Rozenvasser, E. N. Decomposition of discrete transfer functions of open continuous-digital systems. (Russian) **93g:93053**

— Determination of the characteristics of multistage digital control systems. (Russian) **93i:93083**

Samoilenko, A. M. (*with* Teplinskiĭ, Yu. V.) A periodic control problem for countable impulse systems with a small parameter. (Russian. English and Russian summaries) **93d:93054**

Scattolini, Riccardo (*with* Schiavoni, Nicola) On the output control of multirate systems subject to arbitrary exogenous signals. (English summary)

— *see also* **Colaneri, P.; et al.**, (**93g:93005**)

Schiavoni, Nicola *see* **Scattolini, Riccardo** *and* **Colaneri, P.; et al.**, (**93g:93005**)

Shalyapina, O. V. *see* **Galkina, V. G., 93m:93060**

Sivashankar, N. (*with* Khargonekar, Pramod P.) Induced norms for sampled-data systems. (English summary)

Su, Laiping (*with* Miwa, Tetsuya; Abe, Ken-ichi) Intersample behavior optimization for linear time-invariant systems with piecewise constant sampled-data hold functions. (English summary) **93j:93091**

Sunaga, Teruo *see* **Kondo, Eiji; et al., 93m:93061**

Teplinskiĭ, Yu. V. *see* **Samoilenko, A. M., 93d:93054**

Toivonen, H. T. Sampled-data H_∞ optimal control of time-varying systems. **93c:93036**

VanLandingham, H. F. *see* **Bingulac, S., 93j:93088**

Yamamoto, Yutaka A new approach to linear quadratic regulators of sampled-data systems. (English summary) (*see* **93g:93005**)

— A function state space approach to robust tracking for sampled-data systems. (English summary) (*see* **93f:93006**)

Yaniv, Oded (*with* Chait, Yossi) Direct control design in sampled-data uncertain systems. (English summary)

Zhang, Cishen A dual rate digital compensator for zero assignment. (English summary)

Items with secondary classifications in 93C57

Anderson, Brian D. O. (*with* Li, Gang; Gevers, Michel) Optimal FWL design of state-space digital systems with weighted sensitivity minimization and sparseness consideration. (English summary) (*see* **93g:93005**)

Araki, Mituhiko (*with* Hagiwara, Tomomichi) Robust stability of sampled data systems. (English summary) (*see* **93f:93006**)

— *see also* **Hagiwara, Tomomichi; et al.**, (**93g:93005**)

Bamieh, Bassam A. (*with* Pearson, J. Boyd, Jr.; Francis, Bruce Allen; Tannenbaum, Allen R.) A lifting technique for linear periodic systems with applications to sampled-data control. **93c:93018**

— (*with* Pearson, J. Boyd, Jr.) General framework for linear periodic systems with applications to $\mathscr{H}^\infty$ sampled-data control. **93d:93031**

Barb, Florin Dan (*with* Weiss, Martin) Model reduction techniques for sampled-data systems. (English summary) **93k:93024**

Chang, Fan Jên *see* **Liu, Chin Hsing; et al.**

Chase, Christopher (*with* Serrano, Joseph; Ramadge, Peter J.) Periodicity and chaos from switched flow systems: contrasting examples of discretely controlled continuous systems. (English summary) **93j:93068**

Chen, Tongwen (*with* Francis, Bruce Allen) Linear time-varying $\mathscr{H}_2$-optimal control of sampled-data systems. **93a:93040**

Chou, Yung Shan *see* **Liu, Chin Hsing; et al.**

Crisalle, Oscar D. *see* **El-Khoury, Mario**

El-Khoury, Mario (*with* Crisalle, Oscar D.) Relative zero location for second-order sampled systems. (English summary)

Francis, Bruce Allen *see* **Chen, Tongwen, 93a:93040** *and* **Bamieh, Bassam A.; et al., 93c:93018**

Gevers, Michel *see* **Anderson, Brian D. O.; et al.**, (**93g:93005**)

Goddard, Peter *see* **Sreeram, V.**

Hagiwara, Tomomichi (*with* Araki, Mituhiko; Soma, H.) Simultaneous pole assignment and stabilization by multirate digital controllers. (English summary) (*see* **93g:93005**)

— *see also* **Araki, Mituhiko**, (**93f:93006**)

Hara, Shinji (*with* Kabamba, Pierre T.) Robust control system design for sampled-data feedback systems. (*see* **93f:93006**)

Isermann, Rolf ★ Digital control systems. Vol. I. (English. English summary) **93h:93001**

Ishitobi, Mitsuaki Conditions for stable zeros of sampled systems. (English summary)

Jacobson, C. A. (*with* Nett, C. N.; Partington, Jonathan R.) Worst case system identification in l_1: optimal algorithms and error bounds. (English summary) **93j:93037**

Kabamba, Pierre T. *see* **Hara, Shinji**, (**93f:93006**)

Khargonekar, Pramod P. (*with* Sivashankar, N.) $\mathscr{H}_2$ optimal control for sampled-data systems. **93f:93048**

Kienitz, K. H. Stabilization of uncertain sampled-data systems. (English summary) **93i:93105**

Kipnis, M. M. Local stability of impulse systems and the stability of the zero solution of quasilinear discrete convolution equations. (Russian. Russian summary) **93g:93058**

— Chaotic phenomena in a deterministic single-dimensional pulse-width control system. (Russian. Russian summary) **93g:93048**

Li, Gang *see* **Anderson, Brian D. O.; et al.**, (**93g:93005**)

Liu, Chin Hsing (*with* Chou, Yung Shan; Chang, Fan Jên) Decoupling of continuous-time linear time-invariant systems using generalized sampled-data hold functions.

Miller, B. M. (*with* Rubinovich, E. Ya.) Optimal impulse control problem with constrained number of impulses. (English summary) **93i:49045**

Nett, C. N. *see* **Jacobson, C. A.; et al., 93j:93037**

Partington, Jonathan R. *see* **Jacobson, C. A.; et al., 93j:93037**

Păstrăvanu, O. (*with* Voicu, Mihail) Effects of sampled and quantized control on the geometry of reachability sets of linear continuous systems. (English summary) (*see* **93e:00021**)

Pearson, J. Boyd, Jr. *see* **Bamieh, Bassam A.; et al., 93c:93018** *and* **93d:93031**

Ramadge, Peter J. *see* **Chase, Christopher; et al., 93j:93068**

Rosen, I. G. (*with* Wang, Chunming) On stabilizability and sampling for infinite-dimensional systems. (English summary) **93g:93077**

Rubinovich, E. Ya. *see* **Miller, B. M., 93i:49045**

Seidman, Thomas I. Switching systems. I. (Russian and Polish summaries) **93i:34029**

Serrano, Joseph *see* **Chase, Christopher; et al., 93j:93068**

Shinners, Stanley M. ★ Modern control system theory and design. **93j:93004**

Sivashankar, N. *see* **Khargonekar, Pramod P., 93f:93048**

Soma, H. *see* **Hagiwara, Tomomichi; et al.**, (**93g:93005**)

Sreeram, V. (*with* Goddard, Peter) Model reduction using impulse-response gramians: a frequency-domain approach. (English summary)

Tadmor, Gilead H_∞ optimal sampled-data control in continuous time systems. **93d:93033**

Tannenbaum, Allen R. *see* **Bamieh, Bassam A.; et al., 93c:93018**

Voicu, Mihail *see* **Păstrăvanu, O., (93e:00021)**

Wang, Chunming *see* **Rosen, I. G., 93g:93077**

Weiss, Martin *see* **Barb, Florin Dan, 93k:93024**

Wu, Yung Ch'un *see* **Yen, Nie Zen, 93m:93040**

Yen, Nie Zen (*with* Wu, Yung Ch'un) A multirate controller design of linear periodic time delay systems. (English summary) **93m:93040**

Zhang, Qing Ling A mathematical theory of impulsive fixed modes. (Chinese. English and Chinese summaries)

93C60 Continuous-time

Kitamori, Toshiyuki *see* **Nobuyama, Eitaku; et al., 93j:93092**

Kollár, I. *see* **Pintelon, R., (93h:93009)**

Nobuyama, Eitaku (*with* Shin, Seiichi; Kitamori, Toshiyuki) Deadbeat control of continuous-time systems. (English summary) **93j:93092**

Pintelon, R. (*with* Kollár, I.) Exact discrete time representation of continuous time systems. (English summary) (*see* **93h:93009**)

Shin, Seiichi *see* **Nobuyama, Eitaku; et al., 93j:93092**

Items with secondary classifications in 93C60

Anderson, Brian D. O. *see* **Limebeer, David J. N.; et al., 93c:93022**

Antsaklis, Panos J. *see* **Gao, Zhiqiang, 93j:93103**

Bingulac, S. (*with* Cooper, D. L.) Identification of first-order hold continuous-time systems. (English summary) (*see* **93h:93009**)

Chen, Ming Shyan *see* **Tsai, Jason S. H.; et al., 93g:93039**

Cooper, D. L. *see* **Bingulac, S., (93h:93009)**

Demircioğlu, H. (*with* Gawthrop, P. J.) Multivariable continuous-time generalized predictive control (MCGPC).

Dorsey, John F. *see* **Qu, Zhihua, 93c:93046**

Freudenberg, J. S. *see* **Zhang, Zhihong, 93m:93047**

Gabasov, R. F. (*with* Gaĭshun, P. V.; Kirillova, F. M.) Optimal estimator for linear systems. (Russian and Lithuanian summaries) **93c:93025**

Gaĭshun, P. V. *see* **Gabasov, R. F.; et al., 93c:93025**

Gao, Zhiqiang (*with* Antsaklis, Panos J.) Explicit asymmetric bounds for robust stability of continuous and discrete-time systems. (English summary) **93j:93103**

Gawthrop, P. J. *see* **Demircioğlu, H.**

Green, Michael *see* **Limebeer, David J. N.; et al., 93c:93022**

Hmamed, A. *see* **Tissir, E., 93e:93053**

(Isidori, Alberto) *see* **Schwartz, Carla A., 93b:93063**

Jonckheere, Edmond A. *see* **Wu, Bing-Fei, 93i:93094**

Khargonekar, Pramod P. *see* **Limebeer, David J. N.; et al., 93c:93022**

Kirillova, F. M. *see* **Gabasov, R. F.; et al., 93c:93025**

Kramer Johnson, Kelly *see* **Sandberg, Irwin W., 93k:93055**

Kumar, Panganamala Ramana *see* **Naik, Sanjeev M.; et al., 93i:93076**

K'ung, Fan Chû *see* **Tsai, Jason S. H.; et al., 93g:93039**

Limebeer, David J. N. (*with* Anderson, Brian D. O.; Khargonekar, Pramod P.; Green, Michael) A game-theoretic approach to $\mathscr{H}^\infty$ control for time-varying systems. **93c:93022**

Mareels, Iven M. Y. *see* **Schwartz, Carla A., 93b:93063**

Mukhopadhyay, Siddhartha *see* **Prasada Rao, Ganti; et al., (93h:93009)**

Naik, Sanjeev M. (*with* Kumar, Panganamala Ramana; Ydstie, B. Erik) Robust continuous-time adaptive control by parameter projection. (English summary) **93i:93076**

Pandolfi, Luciano Dynamic stabilization of systems with input delays. **93k:93096**

Patra, Amit *see* **Prasada Rao, Ganti; et al., (93h:93009)**

Prasada Rao, Ganti (*with* Unbehauen, H.; Mukhopadhyay, Siddhartha; Patra, Amit) From calculus to algebra in models of continuous-time systems. (*see* **93h:93009**)

Qu, Zhihua (*with* Dorsey, John F.) Robust control by two Lyapunov functions. **93c:93046**

Sagara, Setsuo (*with* Zhao, Zhen-Yu) Filtering approaches to identification of continuous systems. (English summary) (*see* **93h:93009**)

— (*with* Yang, Zi-Jiang; Wada, Kiyoshi) Identification of continuous systems from noisy sampled input-output data. (English summary) (*see* **93h:93009**)

Sandberg, Irwin W. (*with* Kramer Johnson, Kelly) Steady-state errors in nonlinear control systems. (English summary) **93k:93055**

(Sastry, S. Shankar) *see* **Schwartz, Carla A., 93b:93063**

Schwartz, Carla A. (*with* Mareels, Iven M. Y.) Comments on: "Adaptive control of linearizable systems" [IEEE Trans. Automat. Control **34** (1989), no. 11, 1123–1131; MR 91b:93101] by S. S. Sastry and A. Isidori. **93b:93063**

Tissir, E. (*with* Hmamed, A.) Further results on the stabilization of time delay systems containing saturating actuators. **93e:93053**

Tsai, Jason S. H. (*with* Chen, Ming Shyan; K'ung, Fan Chû) Optimal design and optimal digital redesign for continuous-time input time-delay systems. (English summary) **93g:93039**

Unbehauen, H. *see* **Prasada Rao, Ganti; et al., (93h:93009)**

Wada, Kiyoshi *see* **Sagara, Setsuo; et al., (93h:93009)**

Wu, Bing-Fei (*with* Jonckheere, Edmond A.) A simplified approach to Bode's theorem for continuous-time and discrete-time systems. (English summary) **93i:93094**

Yang, Zi-Jiang *see* **Sagara, Setsuo; et al., (93h:93009)**

Ydstie, B. Erik *see* **Naik, Sanjeev M.; et al., 93i:93076**

Zhang, Zhihong (*with* Freudenberg, J. S.) Formulas for minimum-phase/all-pass factorization of discrete-time transfer functions. (English summary) **93m:93047**

Zhao, Zhen-Yu *see* **Sagara, Setsuo, (93h:93009)**

93C62 Digital systems

Feuer, Arie *see* **Goodwin, Graham C., 93f:93085**
Galias, Z. *see* **Ogorzałek, Maciej J., (93g:93006)**
Goodwin, Graham C. (*with* Feuer, Arie) Linear periodic control: a frequency domain viewpoint. (English summary) **93f:93085**
Hara, Shinji (*with* Nakajima, Masayuki; Kabamba, Pierre T.) Robust stabilization in digital control systems. (English summary) (*see* **93g:93005**)
Iwazumi, Tetsuo *see* **Kando, Hisashi; et al.**
Kabamba, Pierre T. *see* **Hara, Shinji; et al., (93g:93005)**
Kando, Hisashi (*with* Yonemoto, Yosifumi; Iwazumi, Tetsuo) Multi-rate regulator design of two-time-scale systems via digital redesign method. (English summary)
Mohamed, S. S. *see* **Porter, Brian**
Nagar, S. K. *see* **Pal, Jayanta; et al.**
Nakajima, Masayuki *see* **Hara, Shinji; et al., (93g:93005)**
Nurges, Ülo On the digital controller design with a free parameter. (Russian and Estonian summaries)
Ogorzałek, Maciej J. (*with* Galias, Z.) Limit sets of trajectories in a nonlinear digital system. (English summary) (*see* **93g:93006**)
Pal, Jayanta (*with* Nagar, S. K.; Sharma, J. D.) Digital controller design for systems with transport lag. (English summary)
Porter, Brian (*with* Mohamed, S. S.) Digital iterative learning control of compensated linear multivariable plants. (English summary)
Sharma, J. D. *see* **Pal, Jayanta; et al.**
Tadmor, Gilead Robust sampled data control in continuous time systems. (English summary) (*see* **93g:93005**)
Yonemoto, Yosifumi *see* **Kando, Hisashi; et al.**
Yoshikawa, Tsuneo Digital control of robot manipulators by computed torque method. (*see* **93f:93007**)

Items with secondary classifications in 93C62

Allwright, J. C. (*with* Papavasiliou, G. C.) On linear programming and robust model-predictive control using impulse-responses. **93a:93054**
Anderson, Brian D. O. Optimizing the discretization of continuous-time controllers. (English summary) **93j:93086**
Chen, Ming Shyan *see* **Tsai, Jason S. H.; et al., 93g:93039**
Isermann, Rolf ★ Digital control systems. Vol. 1. (English. English summary) **93h:93001**
K'ung, Fan Chü *see* **Tsai, Jason S. H.; et al., 93g:93039**
Mohamed, S. S. *see* **Porter, Brian**
Papavasiliou, G. C. *see* **Allwright, J. C., 93a:93054**
Porter, Brian (*with* Mohamed, S. S.) Learning rates in the digital iterative learning control of linear multivariable plants. (English summary)
Tadmor, Gilead Robust control with temporally-local information. (English summary) (*see* **93g:93005**)
Tsai, Jason S. H. (*with* Chen, Ming Shyan; K'ung, Fan Chü) Optimal design and optimal digital redesign for continuous-time input time-delay systems. (English summary) **93g:93039**

93C70 Time-scale analysis and related topics

Drăgan, Vasile Discrete implementation of a stabilizing linear control for a system with two time scales. **93b:93070**
Gajic, Zoran *see* **Su, Wu Chung; et al., 93a:93075**; **Qureshi, Muhammad T., 93b:93072** *and* **Petkovski, Dj., (93b:93006)**
van den Hof, Paul M. J. System order and structure indices of linear systems in polynomial form. **93b:93071**
Ohse, Nagato On a suboptimal model reduction for a refrigerator system. (English summary) (*see* **93f:93007**)
Petkovski, Dj. (*with* Gajic, Zoran) Recursive reduced-order solution of linear-quadratic output control problems with small parameters. (English summary) (*see* **93b:93006**)
Qureshi, Muhammad T. (*with* Gajic, Zoran) A new version of the Chang transformation. **93b:93072**
Rao, Ming *see* **Xia, Qijun; et al.**
Shen, Xuemin *see* **Su, Wu Chung; et al., 93a:93075** *and* **Xia, Qijun; et al.**
Su, Wu Chung (*with* Gajic, Zoran; Shen, Xuemin) The recursive reduced-order solution of an open-loop control problem of linear singularly perturbed systems. **93a:93075**
Xia, Qijun (*with* Shen, Xuemin; Ying, Yiqun; Rao, Ming) Near-optimum steady-state regulator for discrete singularly perturbed systems with a prescribed degree of stability. (English summary)
Ying, Yiqun *see* **Xia, Qijun; et al.**

Items with secondary classifications in 93C70

Biryukov, V. F. ★ Научные и терминологические аспекты теорий корректности, грубости и примыкающих к ним вопросов. (Russian. Russian summary) [Scientific and terminological aspects of the theories of well-posedness and robustness and of related problems] **93g:34099**
Chen, Fu Chuang *see* **Khalil, Hassan K.**
Cheng, Chiu Pin (*with* Li, Tzuu Hseng S.; Sun, Yü I) Stability margins of singularly perturbed discrete-time systems based on state feedback and linear quadratic optimal control. (English summary) **93j:93095**
Chiu, Tai Yih *see* **Lin, C. A., 93f:93031**
Curtain, Ruth F. Finite-dimensional robust controller designs for distributed parameter systems: a survey. (*see* **93f:93006**)
Dontchev, Asen L. Time-scale decomposition of the reachable set of constrained linear systems. **93d:93011**
Fasol, K. H. (*with* Gehre, H. G.) Order reduction, model approximation, and controller design. A survey on some known methods and recommendation of a new approach. (English summary) (*see* **93b:93006**)
Gaitsgori, V. G. ★ Управление системами с быстрыми и медленными движениями. (Russian) [Control of systems with fast and slow motions] **93f:49001**
Gehre, H. G. *see* **Fasol, K. H., (93b:93006)**
Hsieh, Gary C. (*with* Safonov, Michael G.) Conservatism of the gap metric. (English summary) **93m:93045**
Iwazumi, Tetsuo *see* **Kando, Hisashi; et al.**
Kando, Hisashi (*with* Yonemoto, Yosifumi; Iwazumi, Tetsuo) Multi-rate regulator design of two-time-scale systems via digital redesign method. (English summary)
Khalil, Hassan K. (*with* Chen, Fu Chuang) H_∞ control of two-time-scale systems.
Khoang Zyong Tuan On the controllability of a class of nonlinear and singularly perturbed systems. (Russian. English and Ukrainian summaries) **93m:93015**
Kurina, G. A. Complete controllability of singularly perturbed systems with slow and fast modes. (Russian) **93m:93014**
Langari, G. *see* **Shahruz, S. M.; et al., 93c:34137**
Li, Jen Hsing *see* **Li, Tzuu Hseng S., 93e:93051**
Li, Tzuu Hseng S. (*with* Li, Jen Hsing) Stabilization bound of discrete two-time-scale systems. **93e:93051**
— *see also* **Cheng, Chiu Pin; et al., 93j:93095**
Lin, C. A. (*with* Chiu, Tai Yih) Model reduction via frequency weighted balanced realization. (English summary) **93f:93031**
Picard, Jean A nonlinear filter with two time scales. **93g:93084**
Rao, Ming *see* **Shen, Xuemin; et al.**
Safonov, Michael G. *see* **Hsieh, Gary C., 93m:93045**
Shahruz, S. M. (*with* Langari, G.; Tomizuka, Masayoshi) Optimal damping ratio for linear second-order systems. **93c:34137**
Shen, Xuemin (*with* Rao, Ming; Ying, Yiqun) Decomposition method for solving Kalman filter gains in singularly perturbed systems. (English summary)
Sun, Yü I *see* **Cheng, Chiu Pin; et al., 93j:93095**
Tomizuka, Masayoshi *see* **Shahruz, S. M.; et al., 93c:34137**
Ying, Yiqun *see* **Shen, Xuemin; et al.**
Yonemoto, Yosifumi *see* **Kando, Hisashi; et al.**

93C73 Perturbations in control systems

Drăgan, Vasile (*with* Halanay, Aristide) Asymptotic expansions for singular values associated to singularly perturbed control systems. (English summary) **93k:93065**
— (*with* Halanay, Aristide) Uniform controllability for systems with two time-scales. (English summary) **93k:93066**
Halanay, Aristide *see* **Drăgan, Vasile, 93k:93065** *and* **93k:93066**
Krishnan, Hariharan *see* **McClamroch, N. Harris, 93f:93086**
Kryazhimskii, A. V. The problem of optimization of the ensured result: unimprovability of full-memory strategies. **93a:93076**
McClamroch, N. Harris (*with* Krishnan, Hariharan) Nonstandard singularly perturbed control systems and differential-algebraic equations. **93f:93086**
Obradovic, Dragan (*with* Valavani, Lena) Stability and performance in the presence of magnitude bounded real uncertainty: Riccati equation based state space approaches. **93g:93054**
Valavani, Lena *see* **Obradovic, Dragan, 93g:93054**

Items with secondary classifications in 93C73

Al-Saggaf, Ubaid M. Approximate balanced-truncation model reduction for large scale systems. (English summary) **93j:93010**
Blanchini, Franco Constrained control for systems with unknown disturbances. **93i:93078**
Brandt, Robert D. *see* **Lin, Feng; et al.**
Cendra, H. *see* **Robledo, C.; et al., 93b:93090**
Chen, Han Fu (*with* Zhang, Ji Feng) Convergence analysis for adaptive control systems with unknown orders, delay and coefficients. (Polish summary) **93b:93115**
Ch'ên, Po Hsien *see* **Lin, Chün Liang, 93k:93095**
Chentsov, A. G. Relaxations of admissible sets, and constructions of extensions. (Russian. English and Ukrainian summaries) **93m:93007**
Dahleh, Mohammed A. *see* **Khammash, Mustafa H.**
Desages, Alfredo *see* **Robledo, C.; et al., 93b:93090**
Duan, Guang Ren Sensitivity analysis of characteristic spectra of feedback systems. (Chinese. Chinese summary)
Haddad, Abraham H. *see* **Tsai, Ching-Chih, 93g:93081**
Hu, Ting Shu (*with* Shi, Song Jiao) Robust stability analysis of an interval matrix. (Chinese. English and Chinese summaries) **93g:93064**
Khammash, Mustafa H. (*with* Dahleh, Mohammed A.) Time-varying control and the robust performance of systems with structured norm-bounded perturbations.
Kumar, Panganamala Ramana *see* **Naik, Sanjeev M., 93m:93101**
Lin, Chün Liang (*with* Ch'ên, Po Hsien) On the design of stabilizing controllers for singularly perturbed systems. (English summary) **93k:93095**
Lin, Feng (*with* Brandt, Robert D.; Sun, Jing) Robust control of nonlinear systems: compensating for uncertainty. (English summary)
Naik, Sanjeev M. (*with* Kumar, Panganamala Ramana) Extended least squares based adaptive control: robustness analysis. (English summary) **93m:93101**
Olas, A. Optimal quadratic Lyapunov functions for robust stability problem. **93e:93048**
Robledo, C. (*with* Desages, Alfredo; Cendra, H.) On the distance to the instability border of Hurwitz polynomials with coefficients that depend affinely on m parameters and a particular convexity property of H^n. **93b:93090**
Shi, Song Jiao *see* **Hu, Ting Shu, 93g:93064**
Stettner, Łukasz On adaptive control of a singularly perturbed diffusion model. (English summary) **93i:93131**
Sun, Jing *see* **Lin, Feng; et al.**
Tsai, Ching-Chih (*with* Haddad, Abraham H.) Approximation and decomposition of singularly perturbed stochastic hybrid systems. **93g:93081**
Voskresenskii, E. V. Asymptotic behavior of solutions with respect to a small parameter, and control systems. (Russian) **93b:34068**
Wimmer, Harald K. Monotonicity and maximality of solutions of discrete-time algebraic Riccati equations. **93b:93068**
Zaremba, Łukasz S. Step-guided strategies for control problems with uncertain dynamics. **93f:93079**
Zhang, Ji Feng *see* **Chen, Han Fu, 93b:93115**

Zhang, Qing[1] Controlled diffusions with rapidly oscillating unknown parameter processes. (English summary) (*see* **93g:93007**)

93C80 Frequency-response methods

Eguchi, Miyoichi (*with* Wada, Kiyoshi) Over-determined estimation of pulse transfer function model by least-squares method. (English summary) (*see* **93h:93009**)
Fu, Minyue Robust positive realness of functions with dependent parameter uncertainty in numerator and denominator. **93b:93073**
Gevers, Michel *see* **Goodwin, Graham C.; et al., 93c:93037**
Goodwin, Graham C. (*with* Gevers, Michel; Ninness, Brett) Quantifying the error in estimated transfer functions with application to model order selection. **93c:93037**
Hovd, Morten (*with* Skogestad, Sigurd) Simple frequency-dependent tools for control system analysis, structure selection and design. (English summary)
Huang, Mao Kang (*with* Ruan, Rong Yao) Self-adaptive control for tracking reference signals directly. II. (Chinese. English and Chinese summaries)
Leyva-Ramos, J. A new look at partial fraction expansion of transfer function matrices from a computational viewpoint. (English summary)
Lucas, T. N. New matrix method for multipoint Padé approximation of transfer functions. (English summary) **93k:93067**
Nemura, Antanas (*with* Plukaitė, Danutė) Properties of linear continuous dynamical system transfer function parameters estimates obtained by the method of auxiliary variables. (English, Russian and Lithuanian summaries)
Ninness, Brett *see* **Goodwin, Graham C.; et al., 93c:93037**
Plukaitė, Danutė *see* **Nemura, Antanas**
Ruan, Rong Yao *see* **Huang, Mao Kang**
Skogestad, Sigurd *see* **Hovd, Morten**
Wada, Kiyoshi *see* **Eguchi, Miyoichi, (93h:93009)**

Items with secondary classifications in 93C80

Abe, Ken-ichi *see* **Xu, L.; et al., (93g:93006)**
Antoniou, George E. *see* **Glentis, George Othon; et al.** *and* **Friedland, Bernard; et al.**
Charef, A. (*with* Sun, H. H.; Tsao, Y.-Y.; Onaral, B.) Fractal system as represented by singularity function. (English summary) **93g:58132**
Chen, Han Fu (*with* Zhang, Ji Feng) Adaptive stabilization. **93c:93045**
Chen, Qiu Gui *see* **Lü, Bi Hu; et al., 93k:45001**
Dahleh, Munther A. (*with* Theodosopoulos, Theodore V.; Tsitsiklis, John N.) The sample complexity of worst-case identification of FIR linear systems. (English summary) **93k:93114**
Davison, Edward J. *see* **Qiu, Li, 93b:93089**
Dement'eva, A. M. (*with* Lusnikov, A. V.; Tronel', Zh.) Positive periodic oscillations in controlled systems. (Russian. Russian summary)
De Moor, Bart L. R. (*with* Gevers, Michel; Goodwin, Graham C.) Overbiased, underbiased and unbiased estimation of transfer functions. (English summary) (*see* **93h:93009**)
Eren, Murat (*with* Higgins, Walter T.) A new algorithm for computing modified z-transforms. (English summary)
Fan, Michael K. H. (*with* Tits, André L.) A measure of worst-case H_∞ performance and of largest acceptable uncertainty. **93g:93030**
Freudenberg, J. S. Algebraic versus analytic design limitations imposed by ill-conditioned plants. (English summary)
Friedland, Bernard (*with* Mentzelopoulou, Sophia E.; Antoniou, George E.) On a property of compensators designed by the separation principle. (English summary)
Gevers, Michel *see* **De Moor, Bart L. R.; et al., (93h:93009)**
Glentis, George Othon (*with* Antoniou, George E.; Mentzelopoulou, Sophia E.) Determination of the transfer matrix of multidimensional-singular systems. (English summary)
Glover, Keith State space formulae for the multiplicative approximation of multivariable transfer functions. (English summary) **93k:93030**
Goodwin, Graham C. *see* **De Moor, Bart L. R.; et al., (93h:93009)**
Grasselli, Osvaldo Maria (*with* Longhi, Sauro) Invariant zeros of linear systems connected in series. **93f:93038**
Higgins, Walter T. *see* **Eren, Murat**
Hippe, Peter Design of MIMO compensators for systems with unmeasurable disturbances: the polynomial approach. (English summary) **93f:93066**
Hollot, Christopher V. *see* **Padmanabhan, Prasad, 93g:93066**
Jonckheere, Edmond A. (*with* Li, Rong Sheng[1]) Inner functions and bounded real lemma over simply-connected domain. (English summary) (*see* **93g:93005**)
Kerbelev, A. M. *see* **Tsypkin, Ya. Z., 93m:93079**
Kodama, Shinzo *see* **Ohta, Yoshito; et al., (93f:93006)**
Kokame, Hideki *see* **Mori, Takehiro, 93b:93086**
Li, Rong Sheng[1] *see* **Jonckheere, Edmond A., (93g:93005)**
Ljung, Lennart *see* **Wahlberg, B., 93f:93053**
Logemann, Hartmut (*with* Zwart, H. J.) On robust PI-control of infinite-dimensional systems. **93d:93077**
Longhi, Sauro *see* **Grasselli, Osvaldo Maria, 93f:93038**
Lü, Bi Hu (*with* Yin, Bao Qun; Chen, Qiu Gui; Yang, Xiao Xian) Transfer functions of nonlinear integro-differential equations. (Chinese. English and Chinese summaries) **93k:45001**
Lusnikov, A. V. *see* **Dement'eva, A. M.; et al.**
Maeda, Hajime *see* **Ohta, Yoshito; et al., (93f:93006)**
Mentzelopoulou, Sophia E. *see* **Glentis, George Othon; et al.** *and* **Friedland, Bernard; et al.**
Moore, John Barratt *see* **Yan, Wei Yong, (93g:93003)**
Mori, Takehiro (*with* Kokame, Hideki) Boundary implications for stability of Lur'e systems with interval plants. **93b:93086**
Ohta, Yoshito (*with* Maeda, Hajime; Kodama, Shinzo) Rational approximation of L_1-optimal controller. (English summary) (*see* **93f:93006**)
Onaral, B. *see* **Charef, A.; et al., 93g:58132**
Padmanabhan, Prasad (*with* Hollot, Christopher V.) Complete instability of a box of polynomials. (English summary) **93g:93066**
Pintelon, R. *see* **Schoukens, J., 93i:93004**
Qiu, Li (*with* Davison, Edward J.) Pointwise gap metrics on transfer matrices. **93b:93089**
Saito, Osami *see* **Xu, L.; et al., (93g:93006)**
Schoukens, J. (*with* Pintelon, R.) ★ Identification of linear systems. **93i:93004**
Skorodinskiĭ, V. I. Iterative methods for testing frequency criteria for the absolute stability of continuous control systems. I. (Russian) **93g:93059**
Sun, H. H. *see* **Charef, A.; et al., 93g:58132**
Theodosopoulos, Theodore V. *see* **Dahleh, Munther A.; et al., 93k:93114**
Tits, André L. *see* **Fan, Michael K. H., 93g:93030**
Tronel', Zh. *see* **Dement'eva, A. M.; et al.**
Tsao, Y.-Y. *see* **Charef, A.; et al., 93g:58132**
Tsitsiklis, John N. *see* **Dahleh, Munther A.; et al., 93k:93114**
Tsypkin, Ya. Z. (*with* Kerbelev, A. M.) Robust nonlinear discrete control systems. (Russian) **93m:93079**
Wahlberg, B. (*with* Ljung, Lennart) Hard frequency-domain model error bounds from least-squares like identification techniques. **93f:93053**
Wang, Hong Yu[2] (*with* Yin, Fu Liang) The Z transform of a transforming series. (Chinese. English and Chinese summaries)
Xu, L. (*with* Saito, Osami; Abe, Ken-ichi) On 2D bilateral polynomial matrix equations. (English summary) (*see* **93g:93006**)
Yan, Wei Yong (*with* Moore, John Barratt) On stable matrix linear fractional transformations. (English summary) (*see* **93g:93003**)
Yang, Xiao Xian *see* **Lü, Bi Hu; et al., 93k:45001**
Yin, Bao Qun *see* **Lü, Bi Hu; et al., 93k:45001**
Yin, Fu Liang *see* **Wang, Hong Yu[2]**
Zhang, Ji Feng *see* **Chen, Han Fu, 93c:93045**
Zwart, H. J. *see* **Logemann, Hartmut, 93d:93077**

93C83 Control problems involving computers (process control, etc.)

Al-Rahmani, Hamed M. (*with* Franklin, Gene F.) Multirate control: a new approach. **93b:93074**
Apostolakis, Ioannis S. An estimation algorithm for multirate sampled digital control systems. (English summary)
Åström, Karl Johan Directions in intelligent control. (English summary) (*see* **93i:93007**)
Caines, Peter E. *see* **Wang, Suning, (93g:93006)**
Chen, Yao-Chon Solving robot trajectory planning problems with uniform cubic B-splines. (English summary)
Chisci, L. (*with* Zappa, Giovanni) Mapping LQ control design on fixed-size array processors. (English summary) (*see* **93f:93005**)
Christodoulou, Manolis A. Neural networks in control. (English summary) (*see* **93f:93005**)
— *see also* **Rovithakis, G. A., (93f:93005)**
Di Massimo, C. *see* **Willis, M. J.; et al., 93i:93084**
Fanti, M. P. (*with* Maione, B.; Piscitelli, G.; Turchiano, B.) System approach to a generic software specification for flexible manufacturing system job flow management. (English summary)
Franklin, Gene F. *see* **Al-Rahmani, Hamed M., 93b:93074**
Garg, Vijay Kumar *see* **Kumar, Ratnesh; et al., (93g:93003)**
Grigoriadis, Karolos *see* **Liu, Ketao; et al., 93f:93087**
Hang, Chang Chieh (*with* Tay, T. T.; Vasnani, V. U.) Auto-tuning of multivariable decoupling controllers. (English summary) (*see* **93i:93007**)
Hangos, K. M. Complexity of dynamic models for intelligent control. (English summary) (*see* **93f:93005**)
Ichikawa, Atsunobu Petri net representation and control of discrete event systems. (English summary) (*see* **93f:93007**)
Kumar, Ratnesh (*with* Garg, Vijay Kumar; Marcus, Steven I.) Stable behavior and stabilizing supervisor for discrete event dynamical systems. (English summary) (*see* **93g:93003**)
Linkens, D. A. (*with* Nie, Jun Hong) A unified real-time approximate reasoning approach for use in intelligent control. I. Theoretical development. (English summary)
— (*with* Nie, Jun Hong) A unified real-time approximate reasoning approach for use in intelligent control. II. Application to multivariable blood pressure control. (English summary)
— *see also* **Nie, Jun Hong**
Liu, Ketao (*with* Skelton, Robert E.; Grigoriadis, Karolos) Optimal controllers for finite wordlength implementation. (English summary) **93f:93087**
Maione, B. *see* **Fanti, M. P.; et al.**
Marcus, Steven I. *see* **Kumar, Ratnesh; et al., (93g:93003)**
Montague, G. A. (*with* Willis, M. J.; Tham, Ming T.; Morris, A. Julian) Artificial neural network based control. (English summary) (*see* **93h:93007**)
— *see also* **Willis, M. J.; et al., 93i:93084**
Morris, A. Julian *see* **Willis, M. J.; et al., 93i:93084** *and* **Montague, G. A.; et al., (93h:93007)**
Nedoma, Petr Extensions of standard CADCS environment for parallel computation and real time control. (English summary) (*see* **93f:93005**)
Nie, Jun Hong (*with* Linkens, D. A.) Neural network-based approximate reasoning: principles and implementation. (English summary)
— *see also* **Linkens, D. A.**
Pao, Yoh-Han (*with* Phillips, Stephen M.; Sobajic, Dejan J.) Neural-net computing and the intelligent control of systems. (English summary) **93h:93046**
Phillips, Stephen M. *see* **Pao, Yoh-Han; et al., 93h:93046**
Piscitelli, G. *see* **Fanti, M. P.; et al.**
Rovithakis, G. A. (*with* Christodoulou, Manolis A.) Noninteracting control of unknown plants using dynamical neural networks. (English summary) (*see* **93f:93005**)
Rozenvasser, E. N. The method of parametric transfer functions in problems of the analysis of closed digital control systems. (Russian. Russian summary) **93m:93062**
Satovskaya, O. L. The dynamics of a manipulator with an elastic extended load. (Russian. Russian summary)
Skelton, Robert E. *see* **Liu, Ketao; et al., 93f:93087**
Sobajic, Dejan J. *see* **Pao, Yoh-Han; et al., 93h:93046**
Spong, Mark W. On the robust control of robot manipulators. (English summary)

— *see also* **Yaz, Engin**
Tay, T. T. *see* **Hang, Chang Chieh; et al.,** (93i:93007)
Tebbutt, Colin D. A microcomputer implementation of multivariable factorization theory. (English summary)
Tham, Ming T. *see* **Willis, M. J.; et al.,** 93i:93084 *and* **Montague, G. A.; et al.,** (93h:93007)
Turchiano, B. *see* **Fanti, M. P.; et al.**
Ushio, Toshimitsu A necessary and sufficient condition for the existence of finite state supervisors in discrete-event systems. (English summary) **93k:93068**
Vasnani, V. U. *see* **Hang, Chang Chieh; et al.,** (93i:93007)
Wang, Suning (*with* Caines, Peter E.) On a conditional observer and controller logic (COCOLOG) for finite machines and its automatic reasoning methodology. (English summary) (*see* **93g:93006**)
Willis, M. J. (*with* Montague, G. A.; Di Massimo, C.; Tham, Ming T.; Morris, A. Julian) Artificial neural networks in process estimation and control. (English summary) **93i:93084**
— *see also* **Montague, G. A.; et al.,** (93h:93007)
Xu, Jian Min *see* **Zhou, Qi Jie**
Yaz, Engin Comments on: "On the robust control of robot manipulators" [IEEE Trans. Automat. Control **37** (1992), no. 11, 1782–1786] by M. W. Spong. (English summary)
Zappa, Giovanni *see* **Chisci, L.,** (93f:93005)
Zhou, Qi Jie (*with* Xu, Jian Min) A survey on neural network control systems. (Chinese. English and Chinese summaries)

Items with secondary classifications in 93C83

Borisenko, I. I. (*with* Kazakov, I. E.) Synthesis of control and data processing strategies on the basis of decomposition and reduction of multidimensional dynamical systems (a survey). (Russian. Russian summary) **93i:93009**
Caines, Peter E. *see* **Wang, Suning,** (93a:93005)
Damborg, M. J. *see* **Sznaier, Mario**
(Devanathan, Rajagopalan) *see* **Intelligent tuning and adaptive control, 93i:93007**
DiCesare, Frank *see* **Zhou, Meng Chu; et al.**
Fa, Jing Huai (*with* Yang, Xiao Jun; Zheng, Ying Ping) Formulas for a class of controllable and observable sublanguages larger than the supremal controllable and normal sublanguage. (English summary) **93i:93055**
Feng, Dagan *see* **Wang, Zhi Zhong**
Fortuna, L. (*with* Gallo, Antonio; Muscato, G.; Nunnari, G.) Multivariable adaptive control by a transputer based architecture. (English summary) (*see* **93h:93009**)
Gallo, Antonio *see* **Fortuna, L.; et al.,** (93h:93009)
Gaston, F. M. F. *see* **Kadlec, Jan; et al.,** (93f:93005)
Gawthrop, P. J. *see* **Hunt, K. J.; et al.,** 93i:93002
Hunt, K. J. (*with* Sbarbaro, D.; Żbikowski, R.; Gawthrop, P. J.) Neural networks for control systems—a survey. (English summary) **93i:93002**
Irwin, G. W. *see* **Kadlec, Jan; et al.,** (93f:93005)
Jia, Li Min (*with* Zhang, Xi Di) Intelligent multiobjective optimal control. (English summary) (*see* **93i:93007**)
Kadlec, Jan (*with* Gaston, F. M. F.; Irwin, G. W.) Regularised lattice-ladder adaptive filter. (English summary) (*see* **93f:93005**)
(Kárný, Miroslav) *see* **Mutual impact of computing power and control theory, 93f:93005**
Kazakov, I. E. *see* **Borisenko, I. I.,** 93i:93009
Muscato, G. *see* **Fortuna, L.; et al.,** (93h:93009)
Nunnari, G. *see* **Fortuna, L.; et al.,** (93h:93009)
Rozenvasser, E. N. Determination of the characteristics of multistage digital control systems. (Russian) **93i:93083**
Rudolph, Daryl L. *see* **Zhou, Meng Chu; et al.**
Sbarbaro, D. *see* **Hunt, K. J.; et al.,** 93i:93002
Sznaier, Mario (*with* Damborg, M. J.) Heuristically enhanced feedback control of constrained systems: the minimum time case. (English summary)
Wang, Suning (*with* Caines, Peter E.) Automated reasoning with function evaluation for COCOLOG. (*see* **93a:93005**)
Wang, Zhi Zhong (*with* Feng, Dagan) Continuous-time system modelling using the weighted-parabola-overlapping numerical integration method. (English summary)
(Warwick, Kevin) *see* **Mutual impact of computing power and control theory, 93f:93005**
Yamamoto, S. Industrial developments in intelligent and adaptive control. (English summary) (*see* **93i:93007**)
Yang, Xiao Jun *see* **Fa, Jing Huai; et al.,** 93i:93055
Żbikowski, R. *see* **Hunt, K. J.; et al.,** 93i:93002
Zhang, Cishen A dual rate digital compensator for zero assignment. (English summary)
Zhang, Xi Di *see* **Jia, Li Min,** (93i:93007)
Zheng, Ying Ping *see* **Fa, Jing Huai; et al.,** 93i:93055
Zhou, Meng Chu (*with* DiCesare, Frank; Rudolph, Daryl L.) Design and implementation of a Petri net based supervisor for a flexible manufacturing system. (English summary)

Items listed otherwise than by author

IFAC Symposium:
Intelligent Tuning and Adaptive Control ★ Intelligent tuning and adaptive control. **93i:93007**
IFAC Workshop:
Mutual Impact of Computing Power and Control Theory ★ Mutual impact of computing power and control theory. **93f:93005**
Intelligent tuning and adaptive control ★ Intelligent tuning and adaptive control. **93i:93007**
Mutual impact of computing power and control theory ★ Mutual impact of computing power and control theory. **93f:93005**
Prague ★ Mutual impact of computing power and control theory. **93f:93005**
Singapore ★ Intelligent tuning and adaptive control. **93i:93007**

93C85 Automated systems (robots, etc.)

Ahmad, Shaheen (*with* Zribi, Mohamed) Lyapunov based control design for multiple robots handling a common object. **93b:93075**
— (*with* Zribi, Mohamed) Lyapunov-based control design for multiple robots handling a common object. (English summary) **93i:93085**
Ardema, M. D. (*with* Skowronski, J. M.) Dynamic game applied to coordination control of two arm robotic system. (English summary) **93f:93088**
Baranov, A. A. *see* **Gostev, V. I.**
Bastin, G. *see* **Raucent, B.; et al.**
Belan, V. V. (*with* Ryzhkov, M. I.; Tunik, A. A.) Design of optimal digital systems for the stabilization of stochastically perturbed unstable dynamic objects. (Russian. Russian summary)
Berbyuk, V. E. (*with* Yanchak, Ya. I.) Speed optimization of transport motion of a portal robot. (Russian) **93d:93055**
Berghuis, Harry (*with* Nijmeijer, Henk; Löhnberg, Peter) An addendum on: "Robust control of robots by the computed torque method [law]" [Systems Control Lett. **16** (1991), no. 1, 25–32; MR 91j:93066] by Z. Qu, J. F. Dorsey, X. Zhang and D. M. Dawson. (English summary) **93g:93055**
Boullart, L. *see* **Ramon, H.; et al.,** (93c:93005)
Brogliato, Bernard *see* **Lozano Leal, Rogelio, 93g:93057**
Brown, H. Benjamin, Jr. *see* **Feliu, Vincente; et al.**
Burdakov, S. F. Decentralized robot motion control with dynamical compensation and high gain. (Russian. Russian summary)
Campion, Guy *see* **Raucent, B.; et al.**
Canudas de Wit, Carlos Adaptive control of robot manipulators using only position feedback. (*see* **93a:93005**)
— (*with* Sørdalen, O. J.) Exponential stabilization of mobile robots with nonholonomic constraints. (English summary) **93i:93086**
— (*with* Fixot, N.) Adaptive control of robot manipulators via velocity estimated feedback. (English summary)
— (*with* Sørdalen, O. J.) Exponential stabilization of mobile robots with nonholonomic constraints.
Casavola, Alessandro (*with* Mosca, Edoardo) H_∞ and H_2 simple controllers for robotic applications. **93g:93056**
Cavallaro, Joseph R. *see* **Deo, Arati S.; et al.,** (93g:65178)
Chan, S. P. *see* **Yao, B.; et al.**
Chen, Yaobin Structure of the time-optimal control law for multiple arms handling a common object along specified paths. (English summary) **93k:93069**
— (*with* Chien, Stanley Y.-P.; Desrochers, Alan A.) General structure of time-optimal control of robotic manipulators moving along prescribed paths. (English summary) **93f:93089**
— (*with* Desrochers, Alan A.) Minimum-time control laws for robotic manipulators. (English summary) **93k:93070**
Cheng, Mian *see* **Yao, B.; et al.**
Cheshankov, B. (*with* Józefczyk, J.; Martowski, K.; Slavkova, M.) A control algorithm for the manipulator of the industrial robot IRb-6. (Polish summary)
Chien, Stanley Y.-P. (*with* Xue, Qing) Configuration space approach for planning feasible collision-free path of coordinated planar robots. (English and Polish summaries)
— *see also* **Chen, Yaobin; et al., 93f:93089**
(Dawson, Darren M.) *see* **Berghuis, Harry; et al., 93g:93055**
De Baerdemaeker, J. *see* **Ramon, H.; et al.,** (93c:93005)
Deo, Arati S. (*with* Cavallaro, Joseph R.; Walker, Ian D.) New real-time robot motion algorithms using parallel VLSI architectures. (English summary) (*see* **93g:65178**)
Desrochers, Alan A. *see* **Chen, Yaobin; et al., 93f:93089** *and* **93k:93070**
Di Benedetto, Maria Domenica (*with* Lucibello, P.) An inversion procedure for nonlinear time-varying systems. (English summary) **93e:93044**
(Dorsey, John F.) *see* **Berghuis, Harry; et al., 93g:93055**
Dugard, Luc *see* **M'Saad, M.; et al.**
Ebine, T. *see* **Hashimoto, K.; et al.,** (93g:93006)
Feliu, Vincente (*with* Rattan, Kuldip S.; Brown, H. Benjamin, Jr.) Tip position control of flexible arms. (English and Polish summaries)
Feng, Gang (*with* Palaniswami, M.) Adaptive control of robot manipulators in task space. (English summary) **93k:93071**
Fixot, N. *see* **Canudas de Wit, Carlos**
Furuta, Katsuhisa Intelligent control in robotics. (English summary) (*see* **93g:93006**)
Gao, Wei Bing *see* **Yao, B.; et al.**
Garg, Devendra P. Supervisory control for coordination of multiple robots. (English summary)
Gostev, V. I. (*with* Baranov, A. A.) Multimode control in multistage automatic control systems. (Russian. English, Russian and Ukrainian summaries)
Grigoriadis, Karolos *see* **Smith, M. J.; et al., 93d:93056**
Gukasyan, A. A. On the optimal stabilization of the motions of a manipulator with electromechanical drives. (Russian. Russian summary)
Ham, Woonchul Adaptive control based on explicit model of robot manipulator. (English summary)
Hammad, Sh. *see* **M'Saad, M.; et al.**
Hashimoto, K. (*with* Kimoto, T.; Ebine, T.; Kimura, Hidenori) Image-based dynamic visual servo for a hand-eye manipulator. (English summary) (*see* **93g:93006**)
Hodgson, S. P. *see* **Stoten, D. P.**
Hong, G. S. *see* **Zhu, H. A.; et al.**
Hu, Hong Xing (*with* Loh, Nan K.) Active suspension design via frequency-shaping optimal parametric control theory. (English and Polish summaries)
Huang, Han Pang (*with* Lin, Marlon) Robust force control for robotic manipulators. (English summary)
Imura, J. (*with* Sugie, Toshiharu; Yoshikawa, Tsuneo) Adaptive robust control of robot manipulators. (English summary) (*see* **93g:93006**)
Işik, Can *see* **Simon, Dan**
Isobe, Toyosaku (*with* Nagasaka, Kengo; Yamamoto, Shinji) A new approach to kinematic control of simple manipulators. (English summary)
Itoh, T. *see* **Sampei, M.; et al.,** (93g:93006)
Józefczyk, J. *see* **Cheshankov, B.; et al.**
Kawaguchi, Y. (*with* Kikuta, T.; Miyazaki, F.) Map aided flexible trajectory generation for a mobile robot. (English summary) (*see* **93g:93006**)

Kia, Omid *see* **Sparmo, Joseph R.; et al.**
Kikuta, T. *see* **Kawaguchi, Y.; et al., (93g:93006)**
Kimoto, T. *see* **Hashimoto, K.; et al., (93g:93006)**
Kimura, Hidenori *see* **Hashimoto, K.; et al., (93g:93006)**
Ko, Kwang-Soob (*with* Read, Russell K.) Stochastic robot forward dynamics with spatially distributed measurement noise. (English summary)
Kobayashi, Hisato P. A nonlinear feedback control for multi-link manipulators. (English summary) (*see* **93g:93006**)
Kolnogorov, A. V. On the justification of two heuristic methods in the problem of appropriate behavior in a stationary environment. (Russian. Russian summary)
Kostin, G. V. Modeling the controlled motions of an electromechanical manipulation robot with elastic links. (Russian. Russian summary)
Kozák, Petr Discrete events and general systems theory. (English summary) **93i:93088**
— On feedback controllers. (English summary) **93i:93089**
Kozlowski, Krzysztof Identification of model parameters of robotic manipulators. (English and Polish summaries)
Krak, Yu. V. (*with* Semenyuk, Yu. V.) An algorithm for minimizing the complexity of equations of the dynamics of a manipulator. (Russian. Russian summary)
Kreutz-Delgado, Kenneth *see* **Wen, John T.**
Kruglov, V. V. Averaged transients in a digital control system under an asynchronous computer operating mode. (Russian. Russian summary)
Kyriakopoulos, K. J. (*with* Saridis, G. N.) An integrated collision prediction and avoidance scheme for mobile robots in nonstationary environments. (English summary)
Lanari, Leonardo (*with* Wen, John T.) Asymptotically stable set point control laws for flexible robots. (English summary)
Lanusse, P. *see* **Oustaloup, A., (93g:93004)**
Larcombe, P. J. On the control of a two-dimensional multi-link inverted pendulum: the form of the dynamic equations from choice of coordinate system. (English summary) **93m:93063**
— (*with* Torsney, Ben) On the control of a two-dimensional uniform multi-link inverted pendulum: the enumeration and identification of equilibrium states. (English summary) **93m:93064**
Lee, Allan Y. Solving constrained minimum-time robot problems using the sequential gradient restoration algorithm. (English summary)
Li, Chang-Jin (*with* Sankar, T. S.) Systematic methods for efficient modeling and dynamics computation of flexible robot manipulators. (English summary)
Li, Shu Rong *see* **Qin, Hua Shu; et al.**
Lin, Marlon *see* **Huang, Han Pang**
Loh, Nan K. *see* **Hu, Hong Xing**
Löhnberg, Peter *see* **Berghuis, Harry; et al., 93g:93055**
Lozano Leal, Rogelio (*with* Brogliato, Bernard) Adaptive hybrid force-position control for redundant manipulators. (English summary) **93g:93057**
Lü, Bing Chao A design of adaptive control algorithms for robot manipulator systems. (Chinese. English and Chinese summaries) **93h:93047**
Lu, Gui Zhang *see* **Wang, Guo Li**
Lucibello, P. *see* **Di Benedetto, Maria Domenica, 93e:93044**
Ma, L. Y. X. *see* **Tso, S. K.**
Martowski, K. *see* **Cheshankov, B.; et al.**
Mayeda, Hirokazu *see* **Osuka, K.; et al., (93g:93006)**
Mayr, Herwig Different alternatives to formulate the robotics collision problem as an LP model. (English summary) (*see* **93e:90003**)
Middleton, R. H. *see* **Song, Yong Duan**
Miyazaki, F. *see* **Kawaguchi, Y.; et al., (93g:93006)**
Mosca, Edoardo *see* **Casavola, Alessandro, 93g:93056**
M'Saad, M. (*with* Dugard, Luc; Hammad, Sh.) A suitable generalized predictive adaptive controller case study: control of a flexible arm. (English summary)
Nagasaka, Kengo *see* **Isobe, Toyosaku; et al.**
Nakamichi, M. *see* **Sampei, M.; et al., (93g:93006)**
Nguyen, Charles C. *see* **Sparmo, Joseph R.; et al.**
Nicosia, S. (*with* Tornambè, Antonio; Valigi, Paolo) Observers in the control of rigid robots. (English summary) (*see* **93d:70002**)
Nijmeijer, Henk *see* **Berghuis, Harry; et al., 93g:93055**
Ono, Toshiro *see* **Osuka, K.; et al., (93g:93006)**
Osuka, K. (*with* Ono, Toshiro; Mayeda, Hirokazu) Further results on the identification method for serial manipulators. (English summary) (*see* **93g:93006**)
Oustaloup, A. (*with* Lanusse, P.) New trends in CRONE control: generalized template and complex noninteger derivation. (English summary) (*see* **93g:93004**)
— The CRONE control: template and real noninteger derivation. (English summary) (*see* **93g:93004**)
Özveren, Cüneyt M. (*with* Willsky, Alan S.) Invertibility of discrete-event dynamic systems. (English summary) **93i:93087**
Palaniswami, M. *see* **Feng, Gang, 93k:93071**
Perevozchikov, A. G. A method for the optimization of the construction of a robot that is based on finite-dimensional approximation of function spaces. (Russian) (*see* **93k:00021**)
Poo, A. N. *see* **Zhu, H. A.; et al.**
Qin, Hua Shu (*with* Li, Shu Rong; Song, Qian) Precise tracking in a robot arm control. (Polish summary)
(Qu, Zhihua) *see* **Berghuis, Harry; et al., 93g:93055**
Ramon, H. (*with* Boullart, L.; De Baerdemaeker, J.) A generalized mathematical modelling technique for complex mechanical systems seen from the viewpoint of control engineering. (English summary) (*see* **93c:93005**)
Rattan, Kuldip S. *see* **Feliu, Vincente; et al.**
Raucent, B. (*with* Campion, Guy; Bastin, G.; Samin, J.-C.; Willems, P. Y.) Identification of the barycentric parameters of robot manipulators from external measurements. (English summary)
Read, Russell K. *see* **Ko, Kwang-Soob**
Roy, Marie-Françoise Géométrie algébrique réelle et robotique: la complexité du déménagement des pianos. [Real algebraic geometry and robotics: the complexity of the piano mover's problem] **93f:93090**
Ryzhkov, M. I. *see* **Belan, V. V.; et al.**
Samin, J.-C. *see* **Raucent, B.; et al.**
Sampei, M. (*with* Itoh, T.; Nakamichi, M.) Application of linearization technique and time scale transformation to trajectory control of tricycle-type mobile robot. (English summary) (*see* **93g:93006**)
Sankar, T. S. *see* **Li, Chang-Jin**
Saridis, G. N. *see* **Kyriakopoulos, K. J.**
Semenyuk, Yu. V. *see* **Krak, Yu. V.**
de Silva, Clarence W. Recursive linearizing and decoupling control of robots. (English summary)
Simon, Dan (*with* Işik, Can) A trigonometric trajectory generator for robotic arms. (English summary)
Skelton, Robert E. *see* **Smith, M. J.; et al., 93d:93056**
Skoropad, S. V. Synthesizing algorithms for the control of electric drives of robots from nonlinear models. (Russian. Russian summary)
Skowronski, J. M. *see* **Ardema, M. D., 93f:93088**
Slavkova, M. *see* **Cheshankov, B.; et al.**
Smith, M. J. (*with* Grigoriadis, Karolos; Skelton, Robert E.) Optimal mix of passive and active control in structures. **93d:93056**
Song, Qian *see* **Qin, Hua Shu; et al.**
Song, Yong Duan (*with* Middleton, R. H.) Dealing with the time-varying parameter problem of robot manipulators performing path tracking tasks. (English summary)
Sørdalen, O. J. *see* **Canudas de Wit, Carlos, 93i:93086**
Sparmo, Joseph R. (*with* Nguyen, Charles C.; Kia, Omid; Zhou, Zhen-Lei) Force control of robot manipulators using on-line scheduling and path-dependent linearization. (English and Polish summaries)
Stavrakakis, G. S. A multiprocessor scheme for manipulator autonomous trajectory generation and control. (English summary) (*see* **93f:93005**)
Stepanenko, Yu. *see* **Yuan, Jing**
Stokić, D. *see* **Vukobratović, M., 93d:93057**
Stoten, D. P. (*with* Hodgson, S. P.) The application of the minimal control synthesis algorithm to the hybrid control of a class 1 manipulator. (English summary)
Su, Chun Yi *see* **Zhou, Qi Jie**
Sugie, Toshiharu *see* **Imura, J.; et al., (93g:93006)**
Tao, Gang On robust adaptive control of robot manipulators. **93a:93077**
Teo, C. L. *see* **Zhu, H. A.; et al.**
Tornambè, Antonio *see* **Nicosia, S.; et al., (93d:70002)**
Torsney, Ben *see* **Larcombe, P. J., 93m:93064**
Tso, S. K. (*with* Ma, L. Y. X.) Discrete learning control for robots: strategy, convergence and robustness. (English summary)
Tunik, A. A. *see* **Belan, V. V.; et al.**
Ushio, Toshimitsu The augmented language and its application in supervisory control. (English summary) (*see* **93g:93006**)
Valigi, Paolo *see* **Nicosia, S.; et al., (93d:70002)**
Vukobratović, M. (*with* Stokić, D.) Is adaptive control necessary for manipulation robots, and if so, to what degree? (Russian) **93d:93057**
— Modeling robot constituents of flexible manufacturing systems. (Russian. Russian summary)
Walker, Ian D. *see* **Deo, Arati S.; et al., (93g:65178)**
Wang, Guo Li (*with* Lu, Gui Zhang) Modelling and control of nonslender flexible robot links. (English summary)
Wen, John T. (*with* Kreutz-Delgado, Kenneth) Motion and force control of multiple robotic manipulators.
— *see also* **Lanari, Leonardo**
Willems, P. Y. *see* **Raucent, B.; et al.**
Willsky, Alan S. *see* **Özveren, Cüneyt M., 93i:93087**
Xie, Li Li (*with* Zhou, Feng Qi) Variable structure robust self-adaptive control for uncertain systems and its application to manipulators. (Chinese. English and Chinese summaries)
Xue, Qing *see* **Chien, Stanley Y.-P.**
Yamamoto, Shinji *see* **Isobe, Toyosaku; et al.**
Yanchak, Ya. I. *see* **Berbyuk, V. E., 93d:93055**
Yao, B. (*with* Gao, Wei Bing; Chan, S. P.; Cheng, Mian) VSC coordinated control of two manipulator arms in the presence of environmental constraints. (English summary)
Yoshikawa, Tsuneo *see* **Imura, J.; et al., (93g:93006)**
Yuan, Jing (*with* Stepanenko, Yu.) Composite adaptive control of flexible joint robots. (English summary)
Yun, Xiao Ping Dynamic state feedback control of two cooperative manipulators. (English summary) **93k:93072**
(Zhang, Xinfan) *see* **Berghuis, Harry; et al., 93g:93055**
Zhou, Feng Qi *see* **Xie, Li Li**
Zhou, Qi Jie (*with* Su, Chun Yi) An adaptive sliding mode control scheme for robot manipulators. (English summary)
Zhou, Zhen-Lei *see* **Sparmo, Joseph R.; et al.**
Zhu, H. A. (*with* Teo, C. L.; Hong, G. S.; Poo, A. N.) An enhanced scheme for the model-based control of robot manipulators. (English summary)
Zribi, Mohamed *see* **Ahmad, Shaheen, 93b:93075** *and* **93i:93085**

Items with secondary classifications in 93C85

d'Andréa-Novel, B. *see* **Campion, Guy; et al., 93f:70030**
Arimoto, Suguru Passivity of robot dynamics implies capability of motor program learning. (English summary) (*see* **93d:70002**)
Bastin, G. *see* **Campion, Guy; et al., 93f:70030**
Bloch, Anthony M. (*with* Reyhanoglu, Mahmut; McClamroch, N. Harris) Control and stabilization of nonholonomic dynamic systems. (English summary) **93j:93123**
Campion, Guy (*with* d'Andréa-Novel, B.; Bastin, G.) Controllability and state feedback stabilizability of nonholonomic mechanical systems. (English summary) **93f:70030**
Canudas de Wit, Carlos (*with* Fixot, N.) Adaptive control of robot manipulators via velocity estimated feedback. (English summary) **93f:70031**
— *see also* **Nielsen, Lars; et al., 93f:70035** *and* **Advanced robot control, 93d:70002**

Chang, Yau-Zen (*with* Daniel, Ron W.) On the adaptive control of flexible joint robots. (English summary)
Chiaverini, Stefano (*with* Sciavicco, Lorenzo; Siciliano, Bruno) Control of robotic systems through singularities. (English summary) **93f:70032**
Chisci, L. *see* **Mosca, Edoardo; et al., 93i:93071**
Daniel, Ron W. *see* **Chang, Yau-Zen**
Edwards, N. J. *see* **Goh, C. J.; et al.**
Feng, Zu Ren *see* **Jiang, Fan; et al., 93b:70032**
Fitzmorris, Alan *see* **Ghorbel, Fathi; et al., 93f:70033**
Fixot, N. *see* **Canudas de Wit, Carlos, 93f:70031**
Fliegner, Thomas *see* **Steigenberger, Joachim, 93i:70007**
Fratini, A. *see* **Jetto, L.; et al., (93g:93004)**
Gewali, Laxmi P. (*with* Venkatasubramanian, R.) The external grazing problem. (English summary) **93k:90107**
Ghorbel, Fathi (*with* Fitzmorris, Alan; Spong, Mark W.) Robustness of adaptive control of robots: theory and experiment. (English summary) **93f:70033**
Giarré, L. *see* **Mosca, Edoardo; et al., 93i:93071**
Goh, C. J. (*with* Edwards, N. J.; Zomaya, A. Y.) Feedback control of minimum-time optimal control problems using neural networks. (English summary)
González-López, M. J. (*with* Recio Muñiz, Tomás J.) The modified Laumond algorithm for planning tasks for robots. (Spanish) (*see* **93b:68004**)
Gopal, M. *see* **Swarup, A.**
Hagander, Per *see* **Nielsen, Lars; et al., 93f:70035**
Haldar, Chandan (*with* Patnaik, L. M.) On movable separability and isotheticity. **93i:68172**
Hamam, Y. *see* **Khoukhi, A., (93m:00044)**
Holloway, Lawrence E. (*with* Krogh, Bruce H.) On closed-loop liveness of discrete-event systems under maximally permissive control. **93e:68087**
İftar, Altuğ (*with* Özgüner, Ümit) Techniques in modeling uncertain dynamics for robust control system design. **93i:93042**
Jetto, L. (*with* Longhi, Sauro; Fratini, A.) Adaptive deadbeat trajectory tracking for robotic manipulators. (English summary) (*see* **93g:93004**)
Jiang, Fan (*with* Feng, Zu Ren; Shi, Ren) A study on adaptive impedance control of robots. (Chinese. English summary) **93b:70032**
Kalaba, Robert (*with* Udwadia, Firdaus E.) Associative memory approach to the identification of structural and mechanical systems. (English summary) **93i:93034**
Karakaşoğlu, Ahmet *see* **Sundareshan, Malur K.**
Khoukhi, A. (*with* Hamam, Y.) Optimal control for robot manipulators. (English summary) (*see* **93m:00044**)
Koganov, A. V. Inductor spaces and processes. (Russian) **93i:93008**
Krogh, Bruce H. *see* **Holloway, Lawrence E., 93e:68087**
Krut'ko, P. D. Adaptive algorithms for the control of rotational motions and spatial orientation of a rigid body. (Russian) **93i:70029**
Kumaravel, A. *see* **Natarajan, Ponnamal**
Ledwich, G. F. *see* **Teng, F. C.; et al.**
Leondes, Cornelius T. *see* **Wang, Dau Chung, 93i:93067**
Llanes-Santiago, Orestes *see* **Sira-Ramirez, Hebertt J.**
Longhi, Sauro *see* **Jetto, L.; et al., (93g:93004)**
Luo, Zheng Hua On existence and uniqueness of solutions of a class of perturbed second order evolution equations. **93h:34104**
Ma, Xian (*with* Peng, Hong Cai; Yang, Hua) Variable structure control for a robot's A.C. servo system. (Chinese. English and Chinese summaries)
McClamroch, N. Harris *see* **Bloch, Anthony M.; et al., 93j:93123**
Mertzios, B. G. Shape discrimination and classification in robotic vision using scaled normalized central moments. (English summary) (*see* **93f:93005**)
Mosca, Edoardo (*with* Chisci, L.; Giarré, L.) Sidestepping the certainty equivalence in 2-DOF adaptive control via multiple implicit identifiers. (English summary) **93i:93071**
Mukherjee, Ranjan *see* **Nakamura, Yoshihiko, 93f:70034**
Nakamura, Yoshihiko (*with* Mukherjee, Ranjan) Nonlinear control for the nonholonomic motion of space robot systems. (English summary) **93f:70034**
Natarajan, Ponnamal (*with* Kumaravel, A.) Construction of a finite state automation escaping from a dynamic labyrinth. (English summary)
Nielsen, Lars (*with* Canudas de Wit, Carlos; Hagander, Per) Controllability issues of robots near singular configurations. (English summary) **93f:70035**
Novaković, Zoran R. ★ The principle of self-support in control systems. **93k:93005**
Özgüner, Ümit *see* **İftar, Altuğ, 93i:93042**
Patnaik, L. M. *see* **Haldar, Chandan, 93i:68172**
Peng, Hong Cai *see* **Ma, Xian; et al.**
Pradeep, A. K. (*with* Shahruz, S. M.) A control law that achieves simultaneous tracking for a group of systems in finite time. (English summary)
Recio Muñiz, Tomás J. *see* **González-López, M. J., (93b:68004)**
Reyhanoglu, Mahmut *see* **Bloch, Anthony M.; et al., 93j:93123**
Samson, Claude Velocity and torque feedback control of a nonholonomic cart. (English summary) **93g:70032**
Sciavicco, Lorenzo *see* **Chiaverini, Stefano; et al., 93f:70032**
Shahruz, S. M. *see* **Pradeep, A. K.**
Shannon, G. *see* **Teng, F. C.; et al.**
Shi, Ren *see* **Jiang, Fan; et al., 93b:70032**
Siciliano, Bruno *see* **Chiaverini, Stefano; et al., 93f:70032**
Sira-Ramirez, Hebertt J. (*with* Llanes-Santiago, Orestes) Pulse-width-modulation control of some mechanical systems. (English summary)
Smol'nikov, B. A. ★ Проблемы механики и оптимизации роботов. (Russian) [Problems in the mechanics and optimization of robots] **93a:70003**
Spong, Mark W. *see* **Ghorbel, Fathi; et al., 93f:70033**
Steigenberger, Joachim (*with* Fliegner, Thomas) Stability of a disturbance decoupled rigid body. (English summary) **93i:70007**
Su, Chun Yi (*with* Zhou, Qi Jie) An adaptive force/position scheme for constrained robot manipulators. (Chinese. English and Chinese summaries)
Sun, Fu Chun (*with* Sun, Zeng Qi) The discrete-time controller design based on sliding mode for manipulators. (English and Chinese summaries)
Sun, Zeng Qi *see* **Sun, Fu Chun**
Sundareshan, Malur K. (*with* Karakaşoğlu, Ahmet) A neural network-based approach for the intelligent adaptive control of robotic manipulators. (English and Polish summaries)
Swarup, A. (*with* Gopal, M.) Eigenstructure assignment in robot tracking applications. (English summary)
Teng, F. C. (*with* Ledwich, G. F.; Shannon, G.) Adaptive control scheme for a robot manipulator: direct decoupler and PID controller. (English summary)
Udwadia, Firdaus E. *see* **Kalaba, Robert, 93i:93034**
Venkatasubramanian, R. *see* **Gewali, Laxmi P., 93k:90107**
Wang, Dau Chung (*with* Leondes, Cornelius T.) Robust tracking control of nonlinear systems with uncertain dynamics. **93i:93067**
Wang, He Xiang *see* **Yin, Yi Can; et al.**
Wei, Jin Duo *see* **Yin, Yi Can; et al.**
Yang, B. Eigenvalue inclusion principles for distributed gyroscopic systems. (English summary) **93i:70020**
Yang, Hua *see* **Ma, Xian; et al.**
Yin, Yi Can (*with* Wang, He Xiang; Wei, Jin Duo) Control of a moving flexible robot arm with variable sections. (Chinese. English and Chinese summaries)
Yoshikawa, Tsuneo Digital control of robot manipulators by computed torque method. (*see* **93f:93007**)
Zhou, Qi Jie *see* **Su, Chun Yi**
Zomaya, A. Y. *see* **Goh, C. J.; et al.**

Items listed otherwise than by author

Advanced robot control ★ Advanced robot control. **93d:70002**
Grenoble ★ Advanced robot control. **93d:70002**
Lecture Notes in Control and Information Sciences ★ Advanced robot control. **93d:70002**
Workshop:
Nonlinear and Adaptive Control: Issues in Robotics ★ Advanced robot control. **93d:70002**

93C90 Random disturbances in control systems

Huseyin, K. *see* **Yu, Pei, 93f:93091**
Yu, Pei (*with* Huseyin, K.) Sensitivity analysis of certain dynamic bifurcations. (English summary) **93f:93091**

Items with secondary classifications in 93C90

Chiang, R. Y. (*with* Safonov, Michael G.; Haiges, K.; Madden, K.; Tekawy, Jonathan A.) A fixed H^∞ controller for a supermaneuverable fighter performing the Herbst maneuver. (English summary)
Chisci, L. *see* **Mosca, Edoardo; et al., 93i:93071**
Giarré, L. *see* **Mosca, Edoardo; et al., 93i:93071**
Haiges, K. *see* **Chiang, R. Y.; et al.**
Madden, K. *see* **Chiang, R. Y.; et al.**
Mosca, Edoardo (*with* Chisci, L.; Giarré, L.) Sidestepping the certainty equivalence in 2-DOF adaptive control via multiple implicit identifiers. (English summary) **93i:93071**
Safonov, Michael G. *see* **Chiang, R. Y.; et al.**
Tekawy, Jonathan A. *see* **Chiang, R. Y.; et al.**

93C95 Applications of control theory

Aarna, O. *see* **Fathi, Zohreh; et al.**
Al-Saggaf, Ubaid M. Robust digital control of a high-performance engine. (English summary)
Asakura, Toshiyuki On self-tuning control of a double-walled thermostatic container. (English summary) (*see* **93f:93007**)
Azarenkov, S. V. Solving the problem of controlling a stationary acoustic field in the presence of nonstochastic interference. (Russian. English, Russian and Ukrainian summaries)
Beklemishev, N. N. (*with* Liberzon, M. R.) Investigation of the dynamical properties of systems for the control of technological processes using the electromagnetic field effect. (Russian. Russian summary) (*see* **93m:93005**)
Benítez-Read, J. S. (*with* Jamshidi, M.; Kisner, R. A.) Advanced control designs for nuclear reactors. (English summary)
Bhat, M. Seetharama *see* **Vittal, R. Vijaya, (93g:93003)**
Bolotnik, N. N. (*with* Gorbachëv, N. V.; Shukhov, A. G.) Combined suboptimal control of an electromechanical system. (Russian. Russian summary)
Botkin, N. D. (*with* Zhukov, S. P.; Krasov, A. I.) A combined method for the control of the landing of an aircraft. (Russian. Russian summary) (*see* **93f:93004**)
Buddie, Scott A. (*with* Georgiou, Tryphon T.; Özgüner, Ümit; Smith, Malcolm Clive) Flexible structure experiments at JPL and WPAFB: H_∞ controller designs. (English summary)
Burnham, K. J. *see* **Goodhart, S. G.; et al.**
Canudas de Wit, Carlos Robust control for servo-mechanisms under inexact friction compensation. (English summary)
Carroll, Robert L. *see* **Geng, Zheng; et al.**
Chao, K. H. *see* **Liao, Ts'ung Ming**
Chen, Lin[3] *see* **Gao, Long; et al.**
Chen, Seng Chi *see* **Tung, Pi Cheng**
Coleman, N. P. *see* **Zhang, Jian Liang; et al., (93m:00047)**
Dahleh, Mohammed A. *see* **Warren, Warren S.; et al., 93j:93094**
Daley, S. *see* **Wang, H.**
(Di Benedetto, Maria Domenica) *see* **Fossen, Thor I.**
Enns, Dale F. *see* **Garrard, William L.; et al.**
Fan, Yu Shun *see* **Gao, Long; et al.**
Fathi, Zohreh (*with* Ramirez, W. Fred; Aarna, O.) Joint state and parameter estimation for a nuclear reactor with fast and slow modes. (English summary)
Fossard, A. J. Helicopter control law based on sliding mode with model following. (English summary)

Fossen, Thor I. Comments on: "Hamiltonian adaptive control of spacecraft" [IEEE Trans. Automat. Control **35** (1990), no. 7, 848–852] by J.-J. E. Slotine and M. D. Di Benedetto. (English summary)
Fujita, Masayuki *see* **Matsumura, F.; et al., (93g:93006)**
Gao, Long (*with* Chen, Lin[3]; Fan, Yu Shun; Ma, Hai Wu) A nonlinear control design for power systems. (English summary)
Garrard, William L. (*with* Enns, Dale F.; Snell, S. Antony) Nonlinear feedback control of highly manoeuvrable aircraft. (English summary)
Geng, Zheng (*with* Carroll, Robert L.; Jamshidi, M.; Kisner, R. A.) An adaptive learning control approach with application to water tank level control. (English summary)
Georgiou, Tryphon T. *see* **Buddie, Scott A.; et al.**
Goodhart, S. G. (*with* Burnham, K. J.; James, D. J. G.) Self-tuning control for industrial heating plant: a bilinear approach. (English and Polish summaries)
Gorbachëv, N. V. *see* **Bolotnik, N. N.; et al.**
Halousková, Alena (*with* Kárný, Miroslav; Nagy, Ivan) Adaptive cross-direction control of paper basis weight. (English summary)
Isaka, K. *see* **Matsushita, Kunio; et al., (93g:93006)**
James, D. J. G. *see* **Goodhart, S. G.; et al.**
Jamshidi, M. *see* **Benítez-Read, J. S.; et al.** *and* **Geng, Zheng; et al.**
Kalanovich, V. D. (*with* Popovich, B. D.) Control of an above-knee prosthesis. (Russian. Russian summary)
Kárný, Miroslav *see* **Halousková, Alena; et al.**
Kein, V. M. (*with* Patsko, V. S.; Turova, V. L.) The problem of landing an aircraft under windshear conditions. (Russian. Russian summary) (*see* **93f:93004**)
Kisner, R. A. *see* **Benítez-Read, J. S.; et al.** *and* **Geng, Zheng; et al.**
Krasov, A. I. *see* **Botkin, N. D.; et al., (93f:93004)**
Kravchenko, A. B. (*with* Simaranov, S. Yu.) Optimization of multi-channel triangulation in airborne target tracking systems. (Russian. Russian summary)
Kulikov, A. I. Optimal control of ship separation accounting for their dynamic capabilities. (Russian. Russian summary) **93f:93092**
Lee, K. S. *see* **Mohler, R. R., (93g:93003)**
Leitmann, George (*with* Reithmeier, Eduard) Semiactive control of a vibrating system by means of electrorheological fluids. (English summary)
Liao, Ts'ung Ming Design of a two-degree-of-freedom controller for motor drives. (English summary)
— (*with* Chao, K. H.) On the design of an optimal automatic generation controller for interconnected power systems. (English summary)
Liberzon, M. R. *see* **Beklemishev, N. N., (93m:93005)**
Linkens, D. A. (*with* Mahfouf, M.) Generalized predictive control with feedforward (GPCF) for multivariable anaesthesia. (English summary)
Litvintsev, A. I. (*with* Pyatnitskii, E. S.) The dynamics and control of a multilink transportation mechanism. (Russian. Russian summary)
Liu, Gengshen Application of EKF technique to ship resistance measurement. (English summary)
Llanes-Santiago, Orestes *see* **Sira-Ramirez, Hebertt J.**
Ma, Hai Wu *see* **Gao, Long; et al.**
Mahfouf, M. *see* **Linkens, D. A.**
Matsumura, F. (*with* Fujita, Masayuki; Zhou, T.) Robust control of a MIMO flexible magnetic suspension system—an experimental case study for magnetic bearing. (English summary) (*see* **93g:93006**)
Matsushita, Kunio (*with* Omatu, Sigeru; Isaka, K.) Power generator control by variable structure control theory. (English summary) (*see* **93g:93006**)
Mohler, R. R. (*with* Lee, K. S.) Nonlinear adaptive control in immunology and cancer. (English summary) (*see* **93g:93003**)
Morgül, Ömer Dynamic boundary control of a rotating flexible spacecraft. (English summary) (*see* **93g:93006**)
Nagy, Ivan *see* **Halousková, Alena; et al.**
Nakao, T. *see* **Oguro, R.; et al., (93g:93006)**
Nicosia, S. (*with* Tomei, Patrizio) Attitude control of spacecraft by using only angular positions. (English summary) (*see* **93g:93006**)
Niwa, Yuji (*with* Ukai, Hiroyuki) Output regulator problem of a nuclear reactor system. (English summary)
Oguro, R. (*with* Tsuji, T.; Nakao, T.; Takahashi, K.) A control of a magnetic levitation system. (English summary) (*see* **93g:93006**)
Omatu, Sigeru *see* **Matsushita, Kunio; et al., (93g:93006)**
Özgüner, Ümit *see* **Buddie, Scott A.; et al.**
Park, Sangil Real-time implementation of a frequency-domain adaptive detection scheme with the DSP56001. (English and Polish summaries)
Patsko, V. S. *see* **Kein, V. M.; et al., (93f:93004)**
Popovich, B. D. *see* **Kalanovich, V. D.**
Pyatnitskii, E. S. *see* **Litvintsev, A. I.**
Rabitz, Herschel *see* **Warren, Warren S.; et al., 93j:93094**
Ramirez, W. Fred *see* **Fathi, Zohreh; et al.**
Reithmeier, Eduard *see* **Leitmann, George**
Savin, S. K. Justification of the feasibility of developing simple highly accurate radio-electronic measuring devices for automatic control systems based on the application of Chebyshev polynomials. (Russian. Russian summary)
Schättler, Heinz M. *see* **Venkatasubramanian, V.; et al.**
Shieh, Leang San *see* **Zhang, Jian Liang; et al., (93m:00047)**
Shukhov, A. G. *see* **Bolotnik, N. N.; et al.**
Simaranov, S. Yu. *see* **Kravchenko, A. B.**
Sira-Ramirez, Hebertt J. (*with* Llanes-Santiago, Orestes) Pulse-width-modulation control of some mechanical systems. (English summary)
(Slotine, Jean-Jacques) *see* **Fossen, Thor I.**
Smith, Malcolm Clive *see* **Buddie, Scott A.; et al.**
Snell, S. Antony *see* **Garrard, William L.; et al.**
Solnechnyi, È. M. Investigation of the problem of the construction of a weakly invariant system for the control of an aircraft. (Russian. Russian summary)
Takahashi, K. *see* **Oguro, R.; et al., (93g:93006)**
Tereshina, T. B. Parametric stabilization of the orbital motion of a free magnetic dipole. (Russian. English, Russian and Ukrainian summaries)
Tomei, Patrizio *see* **Nicosia, S., (93g:93006)**
Tsuji, T. *see* **Oguro, R.; et al., (93g:93006)**
Tung, Pi Cheng (*with* Chen, Seng Chi) Experimental and analytical studies of the sinusoidal dither signal in a DC motor system. (English summary)
Turova, V. L. *see* **Kein, V. M.; et al., (93f:93004)**
Udwadia, Firdaus E. New developments in the identification and control of structural and mechanical systems. (*see* **93g:93003**)
Ukai, Hiroyuki *see* **Niwa, Yuji**
Varaiya, Pravin Smart cars on smart roads: problems of control. (English summary) **93j:93093**
Venkatasubramanian, V. (*with* Schättler, Heinz M.; Zaborszky, J.) Voltage dynamics: study of a generator with voltage control, transmission, and matched MW load. (English summary)
Vittal, R. Vijaya (*with* Bhat, M. Seetharama) Terminal guidance for a launch vehicle. (English summary) (*see* **93g:93003**)
Vostrý, Zdeněk (*with* Záworka, Jiří) Simulation and control of gas transport and distribution by large-scale pipeline networks. (English summary) (*see* **93f:93005**)
Wang, H. (*with* Daley, S.) A fault detection method for unknown systems with unknown input and its application to hydraulic turbine monitoring. (English summary)
Warren, Warren S. (*with* Rabitz, Herschel; Dahleh, Mohammed A.) Coherent control of quantum dynamics: the dream is alive. (English summary) **93j:93094**
Zaborszky, J. *see* **Venkatasubramanian, V.; et al.**
Záworka, Jiří *see* **Vostrý, Zdeněk, (93f:93005)**
Zhang, Jian Liang (*with* Shieh, Leang San; Coleman, N. P.) Hybrid optimal control of turret-gun system. (English summary) (*see* **93m:00047**)
Zhou, T. *see* **Matsumura, F.; et al., (93g:93006)**
Zhukov, S. P. *see* **Botkin, N. D.; et al., (93f:93004)**

Items with secondary classifications in 93C95

Algazin, S. D. Prediction of the dynamics of a nuclear reactor. (Russian. Russian summary) (*see* **93m:93004**)
d'Andréa-Novel, B. (*with* Boustany, F.; Conrad, Francis) Control of an overhead crane: stabilization of flexibilities. (*see* **93b:49001**)
Araki, Mituhiko *see* **Fujigaki, M.; et al.**
Arora, Jasbir S. *see* **House, John M.; et al.**
Augestein, Donald R. (*with* Baras, John S.; Fisher, Shalom M.) Parameter identification of large spacecraft systems based on frequency characteristics. (English summary) (*see* **93i:93005**)
(Bányász, Cs.) *see* **Identification and system parameter estimation, 93h:93009**
Baras, John S. *see* **Augestein, Donald R.; et al., (93i:93005)**
Begines Begines, F. (*with* Martín Gómez, José D.) Identification of the diffusion coefficient of salt in manzanilla olives. (Spanish) (*see* **93j:00009**)
Benítez-Read, J. S. (*with* Jamshidi, M.) Adaptive input-output linearizing control of nuclear reactors. (English summary)
Berkan, R. C. (*with* Upadhyaya, B. R.; Kisner, R. A.; Fitzpatrick, Ben G.) Inverse dynamics paradigm: adaptive nonlinear control and identification of large-scale power systems. (English summary)
Bhat, Jayadeva (*with* Chidambaram, M.; Madhavan, K. P.) Robust control of an unstable continuous bioreactor. (English summary) (*see* **93g:93003**)
Bokor, J. *see* **Michelberger, P.; et al., (93h:93009)**
Bose, S. C. *see* **Ramaswamy, P. S.; et al.**
Bossart, Theodore C. *see* **Singh, Sahjendra N., 93m:93026**
Boustany, F. *see* **d'Andréa-Novel, B.; et al., (93b:49001)**
Brdyś, M. A. An algorithm for optimal scheduling of a class of cascade water supply systems. (English summary)
Brogliato, Bernard *see* **Lozano Leal, Rogelio, 93g:93057**
van Brunschot, P. K. G. M. *see* **Klompstra, Margriet B.; et al., 93c:49024**
Chappell, M. J. (*with* Godfrey, K. R.) Structural identifiability of nonlinear systems: application to a batch reactor. (English summary) (*see* **93h:93009**)
Chen, Qing Xin (*with* Wan, Bai Wu) Asymptotic normality analysis of the estimation error of steady-state models for industrial processes: SISO case. (English summary) **93h:93073**
Chidambaram, M. *see* **Bhat, Jayadeva; et al., (93g:93003)**
Chukwu, E. N. Mathematical controllability theory of capital growth of nations. (English summary) **93k:93014**
Cipkowski, W. (*with* Kwiesielewicz, M.; Stolc, L.) Multilevel-multihorizon control of production system in uncertain conditions. (Polish summary) **93c:93010**
Colgren, R. D. (*with* Jonckheere, Edmond A.) Balanced model reduction for large aircraft models. (English summary) (*see* **93g:93005**)
Conrad, Francis *see* **d'Andréa-Novel, B.; et al., (93b:49001)**
Crabbé, Philippe (*with* Long, Ngo Van) Entry deterrence and overexploitation of the fishery. (English summary) **93m:90019**
(Devanathan, Rajagopalan) *see* **Intelligent tuning and adaptive control, 93i:93007**
Diligenskii, S. N. (*with* Efremov, A. Yu.) On the synthesis of robust laws for the stabilization of the motion of aircraft. (Russian. Russian summary)
Dobson, Ian (*with* Lu, Liming) Computing an optimum direction in control space to avoid saddle node bifurcation and voltage collapse in electric power systems. (English summary)
Domoshnitskii, A. I. *see* **Gavrilov, A. V.; et al., 93h:93058**
(Durrani, T. S.) *see* **Adaptive systems in control and signal processing, 93j:93007**
Dwyer, Thomas A. W., III *see* **Karray, Fakhreddine**
Efremov, A. Yu. *see* **Diligenskii, S. N.**
Ermini, Luigi Some unresolved issues in the application of control theory to economic policy-making. (English summary)
Ershov, A. V. *see* **Gavrilov, A. V.; et al., 93h:93058**
Fisher, Shalom M. *see* **Augestein, Donald R.; et al., (93i:93005)**
Fitzpatrick, Ben G. *see* **Berkan, R. C.; et al.**
Fujigaki, M. (*with* Hagiwara, Tomomichi; Araki, Mituhiko) Optimal robust servo controllers with two degrees of freedom and application to the control of electric power generators. (English summary)

Gaishun, I. V. (*with* Hoang Van Quang) Conditions for complete controllability and observability of discrete two-parameter systems. (Russian) **93a:93016**

Garg, Sanjay Robust integrated flight/propulsion control design for a STOVL aircraft using H-infinity control design techniques. (English summary)

Gavrilov, A. V. (*with* Domoshnitskiĭ, A. I.; Ershov, A. V.; Moshchenkov, I. A.; Sheina, M. V.) On an automatic control problem. (Russian. Russian summary) **93h:93058**

Godfrey, K. R. *see* **Chappell, M. J., (93h:93009)**

Gorskiĭ, V. G. *see* **Kuntsevich, A. D.; et al., 93h:93083**

(Grimble, M. J.) *see* **Adaptive systems in control and signal processing, 93j:93007**

Haber, Robert (*with* Zierfuss, R.) Identification of nonlinear models between the reflux flow and the top temperature of a distillation column. (English summary) (*see* **93h:93009**)

Hagiwara, Tomomichi *see* **Fujigaki, M.; et al.**

(Halousková, Alena) *see* **Advanced methods in adaptive control for industrial applications, 93c:93003**

Hamill-Keays, William J. P. A fault-tolerant system for safety-critical control laws. (English and Polish summaries)

(Hanus, Raymond) *see* **Mathematical and intelligent models in system simulation, 93c:93005**

Hoang Van Quang *see* **Gaishun, I. V., 93a:93016**

House, John M. (*with* Arora, Jasbir S.; Smith, Theodore F.) Comparison of methods for design sensitivity analysis for optimal control of thermal systems. (English summary)

Isakov, A. V. Optimal damping of nutational oscillations of a body stabilized by rotation. A pendulum damper. (Russian. Russian summary) (*see* **93m:93005**)

Isermann, Rolf ★ Digital control systems. Vol. 1. (English. English summary) **93h:93001**

Ishijima, Shintaro Nonlinear control theory at the practical stage(!?). I. Zero dynamics and local stabilization. (Japanese)

Itoh, T. *see* **Sampei, M.; et al., (93g:93006)**

Ivanov, A. G. Modeling the motion of an aircraft at the landing stage. (Russian. Russian summary) (*see* **93h:93008**)

Jacobs, O. L. R. Case studies in application of stochastic control theory. (English summary) (*see* **93c:93003**)

Jamshidi, M. *see* **Benítez-Read, J. S.**

Ji, Xin Hua *see* **Zhu, Guang Tian; et al., 93m:93050**

(Johnson, Michael A.) *see* **Adaptive systems in control and signal processing, 93j:93007**

Jonckheere, Edmond A. *see* **Colgren, R. D., (93g:93005)**

(Kárný, Miroslav) *see* **Advanced methods in adaptive control for industrial applications, 93c:93003**

Karray, Fakhreddine (*with* Dwyer, Thomas A. W., III) On the robust control aspect of a class of systems involving interconnected rigid and flexible appendages: case study. (English summary)

Keresztes, A. *see* **Michelberger, P.; et al., (93h:93009)**

(Keviczky, L.) *see* **Identification and system parameter estimation, 93h:93009**

Khorozov, O. A. *see* **Klimenko, Yu. A.; et al.**

Kia, Omid *see* **Sparmo, Joseph R.; et al.**

Kiryazov, P. (*with* Marinov, P.) On the optimal control synthesis for a class of nonlinear mechanical systems. (*see* **93a:41001**)

Kisner, R. A. *see* **Berkan, R. C.; et al.**

Klimenko, Yu. A. (*with* Samoĭlenko, Yu. I.; Khorozov, O. A.) A model of a controlled microlevel logic element. I. (Russian. English, Russian and Ukrainian summaries)

Klompstra, Margriet B. (*with* Olsder, G. J.; van Brunschot, P. K. G. M.) The isopone method in optimal control. **93c:49024**

Kolmanovskiĭ, V. B. (*with* Koroleva, N. I.) Control of a predator-prey system with intraspecies competition. (Russian) **93b:92012**

Kolokol'tsov, V. N. The stochastic Bellman equation as a nonlinear equation in Maslov spaces. Perturbation theory. (Russian) **93j:49031**

(Kool, P.) *see* **Mathematical and intelligent models in system simulation, 93c:93005**

Koroleva, N. I. *see* **Kolmanovskiĭ, V. B., 93b:92012**

(Kozin, F.) *see* **Systems and control, 93f:93007**

Kudashev, V. R. *see* **Kuntsevich, A. D.; et al., 93h:93083**

Kukhta, K. Ya. Some qualitative properties of a controllable continuous-discrete dynamical system. (Russian. Russian summary) **93d:93047**

Kuntsevich, A. D. (*with* Kudashev, V. R.; Spivak, S. I.; Gorskiĭ, V. G.) Group analysis of the identifiability of parameters of mathematical models of nonstationary chemical kinetics. (Russian) **93h:93083**

Kwiesielewicz, M. *see* **Cipkowski, W.; et al., 93c:93010**

Kyriakopoulos, K. J. (*with* Saridis, G. N.) An integrated collision prediction and avoidance scheme for mobile robots in nonstationary environments. (English summary)

Liang, Ben Zhong *see* **Zhu, Guang Tian; et al., 93m:93050**

Lobry, Claude Control theory and environmental problems: slow fast models for management of renewable resources. (English summary) (*see* **93m:00044**)

Long, Ngo Van *see* **Crabbé, Philippe, 93m:90019**

Lozano Leal, Rogelio (*with* Brogliato, Bernard) Adaptive hybrid force-position control for redundant manipulators. (English summary) **93g:93057**

Lu, Liming *see* **Dobson, Ian**

Madhavan, K. P. *see* **Bhat, Jayadeva; et al., (93g:93003)**

Marino, Riccardo (*with* Peresada, Sergei; Valigi, Paolo) Adaptive nonlinear control of induction motors via extended matching. (English summary) (*see* **93c:93004**)

— (*with* Peresada, Sergei; Valigi, Paolo) Adaptive input-output linearizing control of induction motors. (English summary)

Marinov, P. *see* **Kiryazov, P., (93a:41001)**

Martín Gómez, José D. *see* **Begines Begines, F., (93j:00009)**

Medhin, N. G. Optimal harvesting in age-structured populations. (English summary) **93e:49055**

Melvin, W. W. *see* **Miele, A.; et al.**

Michelberger, P. (*with* Bokor, J.; Keresztes, A.; Várlaki, Peter M.) Statistical identification of nonlinear vehicle vibrating structures. (English summary) (*see* **93h:93009**)

Miele, A. (*with* Wang, Tong; Melvin, W. W.) Wind identification along a flight trajectory. II. 2D-kinematic approach. (English summary)

— (*with* Wang, Tong; Tzeng, C. Y.; Melvin, W. W.) Wind identification along a flight trajectory. III. 2D-dynamic approach. (English summary)

Moshchenkov, I. A. *see* **Gavrilov, A. V.; et al., 93h:93058**

Nakamichi, M. *see* **Sampei, M.; et al., (93g:93006)**

Nandam, Pradeep K. (*with* Sen, P. C.) Control laws for sliding mode speed control of variable speed drives. (English summary)

Nekhoroshiĭ, Yu. I. (*with* Rutkovskiĭ, V. Yu.; Sukhanov, V. M.) Parameter identification of a modal-physical model of a deformable spaceship. (Russian. Russian summary)

Nguyen, Charles C. *see* **Sparmo, Joseph R.; et al.**

Ohnishi, Kouhei *see* **Sabanovic, Asif; et al.**

Ohta, Mitsuo *see* **Uchino, E.; et al.**

Olsder, G. J. *see* **Klompstra, Margriet B.; et al., 93c:49024**

Onishchenko, S. M. Solution of the navigation problem (SINS) by the second Lyapunov problem under conditions of uncertainty. (Russian. Russian summary) **93k:70039**

(Ono, Toshiro) *see* **Systems and control, 93f:93007**

(Owens, David H.) *see* **Adaptive systems in control and signal processing, 93j:93007**

Peresada, Sergei *see* **Marino, Riccardo; et al.** *and* **(93c:93004)**

Polozhiĭ, T. G. Control of a linear nonstationary inertial navigational system. (Russian. Russian summary) **93g:70031**

Radchenko, I. F. On a method for estimating perturbations. (Russian. English, Russian and Ukrainian summaries) **93g:93083**

Radievskiĭ, A. E. Distribution of functions in a man-machine control system of a certain class. (Russian. Russian summary)

Raju, G. V. S. (*with* Zhou, Jun) Fuzzy logic adaptive algorithm to improve robustness in a steam generator level controller. (English summary)

Ram, Sudhakaran G. *see* **Ramaswamy, P. S.; et al.**

Ramaswamy, P. S. (*with* Ram, Sudhakaran G.; Bose, S. C.) Learning expert system for on-line control of manufacturing process. (English and Polish summaries)

Rastrigin, L. A. Two-alternative adaptation (pre-asymptotic Markovian theory). (Russian. English, Russian and Ukrainian summaries) **93f:93150**

Rutkovskiĭ, V. Yu. *see* **Nekhoroshiĭ, Yu. I.; et al.**

Rutland, N. K. Illustration of a new principle of design: vehicle speed control.

Sabanovic, Asif (*with* Sabanovic, Nadira; Ohnishi, Kouhei) Sliding modes in power converters and motion control systems. (English summary)

Sabanovic, Nadira *see* **Sabanovic, Asif; et al.**

Samoĭlenko, Yu. I. *see* **Klimenko, Yu. A.; et al.**

Sampei, M. (*with* Itoh, T.; Nakamichi, M.) Application of linearization technique and time scale transformation to trajectory control of tricycle-type mobile robot. (English summary) (*see* **93g:93006**)

Saridis, G. N. *see* **Kyriakopoulos, K. J.**

Sen, P. C. *see* **Nandam, Pradeep K.**

Sheina, M. V. *see* **Gavrilov, A. V.; et al., 93h:93058**

Singh, Sahjendra N. (*with* Bossart, Theodore C.) Exact feedback linearization and control of space station using CMG. (English summary) **93m:93026**

Smith, Theodore F. *see* **House, John M.; et al.**

Sobieszczanski-Sobieski, Jaroslaw Approximate simulation model for analysis and optimization in engineering system design. (*see* **93a:41001**)

Sparmo, Joseph R. (*with* Nguyen, Charles C.; Kia, Omid; Zhou, Zhen-Lei) Force control of robot manipulators using on-line scheduling and path-dependent linearization. (English and Polish summaries)

Spivak, S. I. *see* **Kuntsevich, A. D.; et al., 93h:93083**

Stolc, L. *see* **Cipkowski, W.; et al., 93c:93010**

Sukhanov, V. M. *see* **Nekhoroshiĭ, Yu. I.; et al.**

Świniarski, Roman Multilayer neural networks application to time-optimal control of thermal environmental systems consisting of two heat pumps. (English and Polish summaries)

Takata, H. *see* **Uchino, E.; et al.**

(Tzafestas, Spyros G.) *see* **Mathematical and intelligent models in system simulation, 93c:93005**

Tzeng, C. Y. *see* **Miele, A.; et al.**

Uchino, E. (*with* Ohta, Mitsuo; Takata, H.) A new state estimation method for a quantized stochastic sound system based on a generalized statistical linearization. (English summary)

Upadhyaya, B. R. *see* **Berkan, R. C.; et al.**

Valigi, Paolo *see* **Marino, Riccardo; et al.** *and* **(93c:93004)**

Várlaki, Peter M. *see* **Michelberger, P.; et al., (93h:93009)**

Wan, Bai Wu *see* **Chen, Qing Xin, 93h:93073**

Wang, Tong *see* **Miele, A.; et al.**

(Warwick, Kevin) *see* **Advanced methods in adaptive control for industrial applications, 93c:93003**

Wu, Jin Gang *see* **Zhu, Guang Tian; et al., 93m:93050**

Yang, Xue Shi *see* **Zhu, Guang Tian; et al., 93m:93050**

Zhou, Jun *see* **Raju, G. V. S.**

Zhou, Zhen-Lei *see* **Sparmo, Joseph R.; et al.**

Zhu, Guang Tian (*with* Wu, Jin Gang; Liang, Ben Zhong; Ji, Xin Hua; Yang, Xue Shi) Existence of solution to transpiration control problem. (English summary) **93m:93050**

Zierfuss, R. *see* **Haber, Robert, (93h:93009)**

Items listed otherwise than by author

Adaptive systems in control and signal processing ★ Adaptive systems in control and signal processing. 1989. **93j:93007**

Advanced methods in adaptive control for industrial applications ★ Advanced methods in adaptive control for industrial applications. **93c:93003**

Brussels ★ Mathematical and intelligent models in system simulation. I, II. **93c:93005**

Budapest ★ Identification and system parameter estimation 1991. Vol. 1, 2. **93h:93009**

Conference:

Control '91 ★ Control '91. Vol. 1, 2. **93h:93007**

Control '91 ★ Control '91. Vol. 1, 2. **93h:93007**

Edinburgh ★ Control '91. Vol. 1, 2. **93h:93007**

Glasgow ★ Adaptive systems in control and signal processing. 1989. **93j:93007**

Identification and system parameter estimation ★ Identification and system parameter estimation 1991. Vol. 1, 2. **93h:93009**

IFAC Symposium:
Adaptive Systems in Control and Signal Processing ★ Adaptive systems in control and signal processing. 1989. **93j:93007**
Intelligent Tuning and Adaptive Control ★ Intelligent tuning and adaptive control. **93i:93007**
Intelligent tuning and adaptive control ★ Intelligent tuning and adaptive control. **93i:93007**
Lecture Notes in Control and Information Sciences ★ Advanced methods in adaptive control for industrial applications. **93c:93003**
Mathematical and intelligent models in system simulation ★ Mathematical and intelligent models in system simulation. I, II. **93c:93005**
Praha ★ Advanced methods in adaptive control for industrial applications. **93c:93003**
Seminar:
Advanced Methods in Adaptive Control for Industrial Applications ★ Advanced methods in adaptive control for industrial applications. **93c:93003**
Singapore ★ Intelligent tuning and adaptive control. **93i:93007**
Symposium:
Identification and System Parameter Estimation ★ Identification and system parameter estimation 1991. Vol. 1, 2. **93h:93009**
Mathematical and Intelligent Models in System Simulation ★ Mathematical and intelligent models in system simulation. I, II. **93c:93005**
Systems and control ★ Systems and control. **93f:93007**

93Dxx Stability

Items with secondary classifications in 93Dxx

Jiang, Rong Han *see* **Jiang, Zhong Yue**
Jiang, Zhong Yue (*with* Jiang, Rong Han) Chaotic phenomena in simple power systems. (Chinese. English and Chinese summaries)
Owens, David H. *see* **Rogers, Eric L., 93f:93003**
Rogers, Eric L. (*with* Owens, David H.) ★ Stability analysis for linear repetitive processes. **93f:93003**
van der Wegen, L. L. M. ★ Local disturbance decoupling with stability for nonlinear systems. **93h:93005**
(Zolésio, Jean-Paul) *see* **Stabilization of flexible structures, 93c:93006**

Items listed otherwise than by author

Conference:
Stabilization of Flexible Structures ★ Stabilization of flexible structures. **93c:93006**
Lecture Notes in Control and Information Sciences ★ Stabilization of flexible structures. **93c:93006**
Montpellier ★ Stabilization of flexible structures. **93c:93006**
Stabilization of flexible structures ★ Stabilization of flexible structures. **93c:93006**

93D05 Lyapunov and other classical stabilities (Lagrange, Poisson, L^p, l^p, etc.)

Abed, Eyad H. *see* **Fu, Jyun-Horng, 93k:93073**
Balakrishnan, A. V. A generalization of the Kalman-Yakubovic lemma. (*see* **93a:93006**)
Barabanov, A. T. Routh's method in the theory of systems. I. Generalization of Routh's problem in problems in the theory of systems. (Russian) **93b:93076**
— The complete solution of the general Routh problem in systems theory. II. (Russian) **93e:93045**
Barkin, A. I. *see* **Naumov, B. N.; et al., 93d:93060**
Battilotti, Stefano A sufficient condition for nonlinear noninteracting control with stability via dynamic state-feedback: block-partitioned outputs. **93c:93038**
Brown, David P. Stability of n-order discrete systems with overflow arithmetic. **93d:93058**
Burganskaya, L. I. Investigation of the stability of a multidimensional automatic control system. (Russian. Russian summary) **93h:93048**
Chen, Lin[4] (*with* Tang, Gong You; Huang, Xiao Han) A new conclusion on the parameter stability domain of linear time-invariant large-scale systems. (English and Chinese summaries) **93i:93090**
Cheng, Chiu Pin (*with* Li, Tzuu Hseng S.; Sun, Yū I) Stability margins of singularly perturbed discrete-time systems based on state feedback and linear quadratic optimal control. (English summary) **93j:93095**
Churilov, A. N. A frequency criterion for the stability of nonlinear impulse systems with an even pulsation law. (Russian. Russian summary) **93f:93093**
Colonius, Fritz (*with* Kliemann, Wolfgang) Stability radii and Lyapunov exponents. (English summary) **93i:93091**
— (*with* Kliemann, Wolfgang) Minimal and maximal Lyapunov exponents of bilinear control systems. (English summary) **93j:93096**
Egorov, G. A. Stability of hybrid control systems. (Russian)
El Ghaoui, Laurent Fast computation of the largest stability radius for a two-parameter linear system.
Fu, Jyun-Horng (*with* Abed, Eyad H.) Families of Lyapunov functions for nonlinear systems in critical cases. (English summary) **93k:93073**
Fuhrmann, P. A. *see* **Willems, Jan C., 93b:93078**
Gerasimov, O. I. (*with* Yunger, I. B.) A matrix criterion for the absolute stability of impulse automatic control systems. (Russian. Russian summary)
Gotoh, Yasuhisa *see* **Zwart, H. J.; et al., (93i:93005)**
Grujić, Ljubomir T. Exact determination of a Lyapunov function and the asymptotic stability domain. (English summary) **93j:93097**
— *see also* **Guddanti, Suresh; et al., (93g:93004)**
Guddanti, Suresh (*with* Mounfield, William Pratt, Jr.; Grujić, Ljubomir T.) Stability of an asynchronous TMS neutral network. (English summary) (*see* **93g:93004**)
Gündeş, A. Nazli Stability of feedback systems with sensor or actuator failures: analysis. (English summary) **93f:93094**
Hamada, Nozomu (*with* Kato, T.) Stability conditions of 2-D system in terms of its line spectrum pair. (English summary) (*see* **93g:93006**)
Hanzon, Bernard The area enclosed by the (oriented) Nyquist diagram and the Hilbert-Schmidt-Hankel norm of a linear system. **93a:93078**
(Huang, Jie) *see* **Rugh, Wilson J., 93h:93052**
Huang, Xiao Han *see* **Chen, Lin[4]; et al., 93i:93090**
Ishitobi, Mitsuaki Conditions for stable zeros of sampled systems. (English summary)
Iwasaki, T. *see* **Skelton, Robert E., 93k:93075**
Jonckheere, Edmond A. *see* **Wu, Bing-Fei, 93i:93094**
Kanellakis, A. (*with* Tzafestas, Spyros G.; Theodorou, N. J.) Computation of the stability margin of two-dimensional discrete systems. **93b:93077**
Kato, T. *see* **Hamada, Nozomu, (93g:93006)**
Khargonekar, Pramod P. *see* **Ravi, R., 93m:93066**
Khusainov, D. Ya. An estimate for the stability of controllable systems with deviating argument of neutral type. (Russian. English and Russian summaries)
Kipnis, M. M. Local stability of impulse systems and the stability of the zero solution of quasilinear discrete convolution equations. (Russian. Russian summary) **93g:93058**
Kliemann, Wolfgang *see* **Colonius, Fritz, 93i:93091** *and* **93j:93096**
Kokame, Hideki (*with* Mori, Takehiro) An exact quadratic stability condition of uncertain linear systems. (English summary)
Komaroff, Nicholas Upper summation and product bounds for solution eigenvalues of the Lyapunov matrix equation. **93d:93059**
Kul'chitskii, O. Yu. *see* **Vishnevskii, B. L., 93d:93061**
K'ung, Fan Chū *see* **Lee, Chien-Hua; et al., 93e:93046**
Lee, Chien-Hua (*with* Li, Tzuu Hseng S.; K'ung, Fan Chū) D-stability analysis for discrete systems with a time delay. (English summary) **93e:93046**
Levin, A. G. Lyapunov function construction for systems connected by a common coordinate. (Russian. Russian summary) **93m:93065**
Lewis, Frank L. *see* **Liu, Kai, 93f:93095**
Li, Tzuu Hseng S. *see* **Lee, Chien-Hua; et al., 93e:93046** *and* **Cheng, Chiu Pin; et al., 93j:93095**
Liu, Kai (*with* Lewis, Frank L.) An improved result on the stability analysis of nonlinear systems. (English summary) **93f:93095**
Liu, Yong Qing *see* **Tang, Gong You, 93i:93093**
Luo, Xiao *see* **Peng, Xiao Lin, 93a:93079**
Meerov, M. V. On the Routh-Hurwitz problem for equations containing small parameters. (Russian) **93h:93049**
Miminis, George *see* **Yang, Xue Shan, 93c:93042**
Molchanov, A. P. (*with* Morozov, M. V.) Absolute stability of nonlinear time-dependent control systems with a periodic linear part. (Russian. Russian summary) **93f:93096**
Mori, Takehiro *see* **Kokame, Hideki**
Morozov, M. V. *see* **Molchanov, A. P., 93f:93096**
Mounfield, William Pratt, Jr. *see* **Guddanti, Suresh; et al., (93g:93004)**
Moylan, Peter J. *see* **Pota, Hemanshu Roy, 93j:93098**
Mutoh, Yasuhiko (*with* Nikiforuk, Peter N.) A method for verifying sector conditions in nonlinear discrete-time control systems. (English summary) **93h:93050**
Naumov, B. N. (*with* Topcheev, Yu. I.) Application of Lyapunov's second method to analysis and design of control systems. **93c:93039**
— (*with* Barkin, A. I.; Sinitsyn, I. N.) Nonlinear control systems: frequency analysis of absolute stability and performance. **93d:93060**
Nikiforuk, Peter N. *see* **Mutoh, Yasuhiko, 93h:93050**
Onishchenko, S. M. Design by the second method of Lyapunov of nonlinear systems of strict stabilization and observation under conditions of uncertainty. (Russian) **93c:93040**
Owens, David H. *see* **Rogers, Eric L., 93k:93074**
Peng, Xiao Lin (*with* Luo, Xiao) Algebraic criteria for stability and instability of grey discrete systems. (Chinese. English summary) **93a:93079**
Pota, Hemanshu Roy (*with* Moylan, Peter J.) A new Lyapunov function for interconnected power systems. (English summary)
— (*with* Moylan, Peter J.) Stability of locally dissipative interconnected systems. (English summary) **93j:93098**
Primak, M. M. Practical stability of systems with distributed parameters. (Russian. Russian summary)
Ravi, R. (*with* Khargonekar, Pramod P.) Exponential and input-output stability are equivalent for linear time-varying systems. (English summary) **93m:93066**
Rebarber, Richard Frequency domain methods for proving the uniform stability of vibrating systems. (*see* **93i:93005**)
Regalia, Phillip A. On finite precision Lyapunov functions for companion matrices. (English summary) **93h:93051**
Rogers, Eric L. (*with* Owens, David H.) Simulation-based stability tests and performance bounds for differential nonunit memory linear repetitive processes. (English summary) **93k:93074**
Rugh, Wilson J. Correction to: "Approximate noninteracting control with stability for nonlinear systems" [IEEE Trans. Automat. Control **36** (1991), no. 3, 295–304; MR 91k:93061] by J. Huang and Rugh. **93h:93052**
de la Sen, Manuel New results in stability of a class of hereditary linear systems. **93f:93097**
Sinitsyn, I. N. *see* **Naumov, B. N.; et al., 93d:93060**
Skelton, Robert E. (*with* Iwasaki, T.) Liapunov and covariance controllers. (English summary) **93k:93075**
Skorodinskii, V. I. Iterative methods for testing frequency criteria for the absolute stability of continuous control systems. I. (Russian) **93g:93059**
— Iterative methods for testing frequency criteria for the absolute stability of continuous control systems. II. (Russian) **93g:93060**
Sofronov, E. T. Lemmas for automatic control systems. (Russian) **93e:93047**
Sparavalo, M. K. Stability and controllability of the motion of dynamical systems far from the equilibrium state. (Russian. Russian and Ukrainian summaries) **93i:93092**
Sun, Jian Zhong *see* **Yang, Cheng Wu; et al.**
Sun, Yū I *see* **Cheng, Chiu Pin; et al., 93j:93095**
Tahiri, M. Stability analysis of continuous systems described by interval matrices. (English summary) (*see* **93g:93004**)
Tang, Gong You (*with* Liu, Yong Qing) Stability of time-varying discrete large-scale systems. (Chinese. English and Chinese summaries) **93i:93093**
— *see also* **Chen, Lin[4]; et al., 93i:93090**

Tesi, Alberto (*with* Vicino, Antonio; Zappa, Giovanni) A class of nonlinear control systems absolutely stable in the Hurwitz angle. (English summary) (*see* **93g:93004**)
Theodorou, N. J. *see* **Kanellakis, A.; et al., 93b:93077**
Topcheev, Yu. I. *see* **Naumov, B. N., 93c:93039**
Tsinias, John On the existence of control Lyapunov functions: generalizations of Vidyasagar's theorem on nonlinear stabilization. **93c:93041**
Tucsnak, Marius Exact controllability for a hyperbolic equation with time-dependent coefficients. **93g:93061**
Tzafestas, Spyros G. *see* **Kanellakis, A.; et al., 93b:93077**
Vicino, Antonio *see* **Tesi, Alberto; et al., (93g:93004)**
Vieille, N. Weak approachability. (English summary) **93k:93076**
Vishnevskii, B. L. (*with* Kul'chitskii, O. Yu.) Sufficient conditions for stability of discrete systems with tunable dynamics. (Russian. Russian summary) **93d:93061**
Willems, Jan C. (*with* Fuhrmann, P. A.) Stability theory for high order equations. **93b:93078**
Wu, Bing-Fei (*with* Jonckheere, Edmond A.) A simplified approach to Bode's theorem for continuous-time and discrete-time systems. (English summary) **93i:93094**
Wu, Yong Xian (*with* Zhao, Su Xia) Reductionism of dimension in studying absolute stability.
Xiao, Shu Xian A dimension-reducing method for solving Lur'e's problem. (Chinese. English and Chinese summaries) **93k:93077**
— Algebraic criteria for absolute stability of nonlinear control systems. (Chinese. English summary) **93k:93078**
— Absolute stability of nonlinear control systems with time delay. (Chinese. English and Chinese summaries)
— A necessary and sufficient criterion for absolute stability and its applications to fourth-order systems. (Chinese. English summary) **93b:93079**
Xu, Dao Yi (*with* Xu, Zhao Feng) Stability analysis of linear delay-differential systems. **93a:93080**
Xu, Zhao Feng *see* **Xu, Dao Yi, 93a:93080**
Yamamoto, Yutaka *see* **Zwart, H. J.; et al., (93i:93005)**
Yang, Cheng Wu (*with* Sun, Jian Zhong; Zou, Yun) A Lyapunov method for asymptotic stability of general two-dimensional discrete linear state-space models with constant coefficients. (Chinese. English and Chinese summaries)
Yang, Xue Shan (*with* Miminis, George) Stability of discrete deterministic and stochastic nonlinear systems. **93c:93042**
Yunger, I. B. *see* **Gerasimov, O. I.**
Zappa, Giovanni *see* **Tesi, Alberto; et al., (93g:93004)**
Zhao, Su Xia *see* **Wu, Yong Xian**
Zou, Yun *see* **Yang, Cheng Wu; et al.**
Zwart, H. J. (*with* Yamamoto, Yutaka; Gotoh, Yasuhisa) On the stability uniformity of infinite-dimensional systems. (English summary) (*see* **93i:93005**)

Items with secondary classifications in 93D05

Adamy, J. *see* **Kiendl, H.; et al., 93f:34083**
Aminov, A. B. Stability of automatic control systems with a polynomial model. (Russian) **93b:34059**
Asarin, E. (*with* Diamond, Phil; Fomenko, I. V.; Pokrovskii, A. V.) Chaotic phenomena in desynchronized systems and stability analysis. **93k:58144**
Banks, S. P. (*with* Zhang, Yi[1]) On the stability analysis of nonlinear systems. **93e:34102**
— Explicit representations of Lyapunov functions for stable analytic systems. **93d:34084**
(Barrett, J. F.) *see* **Lyapunov, A. M., 93e:01035**
Borne, Pierre (*with* Radhy, Nour-Eddine) On some recent results in the field of constrained dynamical systems. (English summary) (*see* **93e:00021**)
— *see also* **Mathematics of the analysis and design of process control, 93g:93004**
Byun, Dae Gyu *see* **Kwon, Wook Hyun; et al., 93i:93056**
Catté, Francine (*with* Lions, Pierre-Louis; Morel, Jean-Michel; Coll, Tomeu) Image selective smoothing and edge detection by nonlinear diffusion. **93a:94005**
Cavazos-Cadena, Rolando (*with* Hernández-Lerma, Onésimo) Equivalence of Lyapunov stability criteria in a class of Markov decision processes. **93i:90108**
Chang, Wei *see* **Kam, Moshe; et al., 93k:54077**
Chen, Lung-Kee *see* **Yang, Xue Shan, 93k:93099**
Chizeck, Howard Jay *see* **Ji, Yuandong; et al., 93a:93071**
Choi, Hanhong *see* **Kwon, Wook Hyun; et al., 93i:93056**
Coll, Tomeu *see* **Catté, Francine; et al., 93a:94005**
Corless, Martin (*with* Glielmo, Luigi) On the exponential stability of singularly perturbed systems. (English summary) **93i:34091**
Curran, Paul F. Lyapunov's matrix equation with system matrix in companion form. (English summary) **93m:93034**
De Abreu-Garcia, Jose A. *see* **Niu, Xiaoru; et al., 93f:93106**
Desoer, Charles A. *see* **Sheikholeslam, Shahab, (93g:93006)**
Diamond, Phil *see* **Asarin, E.; et al., 93k:58144**
Di Ruscio, David Maximal imaginary eigenvalues in optimal systems. **93d:93043**
Feng, Xiangbo *see* **Ji, Yuandong; et al., 93a:93071**
Fliegner, Thomas *see* **Steigenberger, Joachim, 93i:70007**
Flockerzi, Dietrich *see* **Knobloch, Hans-W., 93c:34106**
Fomenko, I. V. *see* **Asarin, E.; et al., 93k:58144**
Foo, Y. K. (*with* Soh, Y. C.) Robustness analysis of matrices with highly structured uncertainties. **93k:93082**
(Fuller, A. T.) *see* **Lyapunov, A. M., 93e:01035**
Gheorghe, C. *see* **Popescu, Dumitru; et al., (93e:00021)**
Giurescu, N. *see* **Popescu, Dumitru; et al., (93e:00021)**
Glielmo, Luigi *see* **Corless, Martin, 93i:34091**
Grujić, Ljubomir T. *see* **Mounfield, William Pratt, Jr., 93a:93060**
Gudmundsson, Thorkell (*with* Kenney, Charles; Laub, Alan J.) Scaling of the discrete-time algebraic Riccati equation to enhance stability of the Schur solution method. **93b:93042**
Guo, Yun Xia Partial stability for nonlinear time varying dynamic systems. (English summary) **93m:34074**
Guzzella, L. LQR in the presence of input saturation. (English summary) (*see* **93g:93004**)
Hanmandlu, M. *see* **Pandian, S. R.**
Hernández-Lerma, Onésimo *see* **Cavazos-Cadena, Rolando, 93i:90108**
Huijberts, H. J. C. (*with* Withagen, Cees) Local asymptotic stability of optimal steady states. (English summary) **93i:90029**
Jamshidi, M. *see* **Lee, Soo R., 93h:34139**
Ji, Yuandong (*with* Chizeck, Howard Jay; Feng, Xiangbo; Loparo, Kenneth A.) Stability and control of discrete-time jump linear systems. **93a:93071**
Johnson, Helen M. Model reference adaptive control of a nonlinear oscillator. (English summary) **93k:93061**
Jury, Eliahu I. *see* **Premaratne, K., 93j:93113**
Kam, Moshe (*with* Chang, Wei; Rorres, Chris) Systems of random mappings with a common fixed point. (English summary) **93k:54077**
Kenney, Charles *see* **Gudmundsson, Thorkell; et al., 93b:93042**
Kiendl, H. (*with* Adamy, J.; Stelzner, P.) Vector norms as Lyapunov functions for linear systems. **93f:34083**
Knobloch, Hans-W. (*with* Flockerzi, Dietrich) Invariant manifolds, zero dynamics and stability. **93c:34106**
Kogut, P. I. State exponential stability of a denumerable system of Volterra integral equations. (Russian. English, Russian and Ukrainian summaries) **93g:45003**
Kolk, W. Richard (*with* Lerman, Robert A.) ★ Nonlinear system dynamics. **93k:34027**
Komaroff, Nicholas Lower bounds for the solution of the discrete algebraic Lyapunov equation.
Korenevskii, D. G. On the stability of solutions of systems of linear deterministic and stochastic stationary difference equations with delay. (Russian. Russian summary) **93h:39001**
— Equivalence of spectral and coefficient criteria for the mean-square asymptotic stability of solutions of linear stochastic differential and difference equations. (Russian. Russian summary) (*see* **93m:00027**)
— On the asymptotic stability of solutions of systems of linear deterministic and stochastic stationary difference equations with delay. (Russian) **93m:39003**
Korolyuk, V. S. Stability of an autonomous dynamical system with fast Markov switchings. (Russian. Ukrainian summary) **93i:34103**
Kudrewicz, Jacek ★ Dynamika pętli fazowej. (Polish) [Dynamics of phase-locked loops] **93c:34082**
Kunisch, K. (*with* White, Luther W.) Stability and identifiability of parameters in Galerkin approximation of distributed systems under multiple inputs. (English summary) **93i:93036**
Kwon, Wook Hyun (*with* Choi, Hanhong; Byun, Dae Gyu; Noh, Seonbong) Recursive solution of generalized predictive control and its equivalence to receding horizon tracking control. (English summary) **93i:93056**
Larin, V. B. Construction of a nonnegative-definite solution of a Lyapunov equation. (Russian) **93e:15006**
Laub, Alan J. *see* **Gudmundsson, Thorkell; et al., 93b:93042**
Lee, Soo R. (*with* Jamshidi, M.) Stability analysis for large-scale time delay systems via the matrix Lyapunov function. (English summary) **93h:34139**
Lerman, Robert A. *see* **Kolk, W. Richard, 93k:34027**
Lindemann, Ina Stability of hyperbolic partial differential equations with random loads. **93b:35138**
Linnemann, Arno (*with* Wang, Qing Guo) Block decoupling with stability by unity output feedback—solution and performance limitations. (English summary) **93m:93025**
Lions, Pierre-Louis *see* **Catté, Francine; et al., 93a:94005**
Liu, Xiao Xian Stability of grey symmetric systems. (English summary)
Loparo, Kenneth A. *see* **Ji, Yuandong; et al., 93a:93071**
Lunardi, Alessandra Stabilizability of parabolic equations. (Italian. English summary) **93b:35058**
Lyapunov, A. M. The general problem of the stability of motion. **93e:01035**
Mastorakis, N. E. (*with* Theodorou, N. J.) State space model factorization in m-dimensions. Applications in stability theory.
Mirkin, B. M. Proportional-integral-lagging adaptation algorithms. (Russian. English, Russian and Ukrainian summaries) **93i:93075**
Moore, John Barratt *see* **Yan, Wei Yong**
Morel, Jean-Michel *see* **Catté, Francine; et al., 93a:94005**
Morozan, Toader Discrete-time Riccati equations connected with quadratic control for linear systems with independent random perturbations. **93f:93143**
Mounfield, William Pratt, Jr. (*with* Grujić, Ljubomir T.) High-gain PI natural control for exponential tracking of linear single-output systems with state-space description. (French summary) **93a:93060**
Nie, Yi Yong A note on "New criteria for polynomial stability" [IMA J. Math. Control Inform. **4** (1987), no. 1, 1–12, MR 88j:93034] by Nie and X. K. Xie. **93b:93087**
Niu, Xiaoru (*with* De Abreu-Garcia, Jose A.; Yaz, Engin) Improved bounds for linear discrete-time systems with structured perturbations. (English summary) **93f:93106**
Noh, Seonbong *see* **Kwon, Wook Hyun; et al., 93i:93056**
Nudel'man, M. A. Optimal passive systems and semiboundedness of quadratic functionals. (Russian) **93d:47147**
Okubo, Shigenori A design of nonlinear MRACS and the proof of stability. (English summary) (*see* **93j:93007**)
Pandian, S. R. (*with* Hanmandlu, M.) Decentralized model-based control of a class of large-scale interconnected systems. (English summary)
Pandolfi, Luciano Some properties of distributed control systems with finite-dimensional input space. **93d:93049**
Pokrovskii, A. V. *see* **Asarin, E.; et al., 93k:58144**
Popescu, Dumitru (*with* Giurescu, N.; Gheorghe, C.) Control with gradient systems. (English summary) (*see* **93e:00021**)
Popova, S. N. On the control of Lyapunov exponents of an almost periodic linear system. (Russian. Russian summary) (*see* **93m:00031**)
Premaratne, K. (*with* Jury, Eliahu I.) On the Bistritz tabular form and its relationship with the Schur-Cohn minors and inner determinants. (English summary) **93j:93113**
Pyatnitskii, E. S. (*with* Rapoport, L. B.) Boundary of the domain of asymptotic stability of selector-linear differential inclusions and the existence of periodic solutions. (Russian) **93i:34027**
Radhy, Nour-Eddine *see* **Borne, Pierre, (93e:00021)** *and* **Mathematics of the analysis and**

design of process control, **93g:93004**

Rapoport, L. B. *see* **Pyatnitskii, E. S., 93i:34027**

Rorres, Chris *see* **Kam, Moshe; et al., 93k:54077**

Shaginyan, S. G. A problem on the stability of systems with distributed parameters under small integral disturbances with respect to time. (Russian. English and Armenian summaries) **93a:35070**

Shang, Da Zhong *see* **Zhang, Shu Shun, 93c:34114**

Sheikholeslam, Shahab (*with* Desoer, Charles A.) Control of a string of nonlinear systems. (English summary) (*see* **93g:93006**)

(Smirnov, V. I.) *see* **Lyapunov, A. M., 93e:01035**

Soh, Y. C. *see* **Foo, Y. K., 93k:93082**

Solo, Victor Stability of slowly time-varying linear systems. (English summary) **93k:34116**

Srichander, R. (*with* Walker, Bruce K.) Stochastic stability analysis for continuous-time fault tolerant control systems. (English summary) **93k:93118**

Steigenberger, Joachim (*with* Fliegner, Thomas) Stability of a disturbance decoupled rigid body. (English summary) **93i:70007**

Stelzner, P. *see* **Kiendl, H.; et al., 93f:34083**

Stepanov, A. V. A criterion for sign-definiteness of a homogeneous polynomial in a cone. (Russian. Russian summary) **93j:34080**

Stepan'yants, G. A. The direct Lyapunov method and the control of dynamical systems on smooth orientable manifolds. (Russian) **93a:93047**

Stotskii, A. A. Lyapunov design for convergence rate improvement in adaptive control. (English summary) **93i:93077**

Theodorou, N. J. *see* **Mastorakis, N. E.**

Tran Quoc Chien Semistochastic decomposition scheme in mathematical programming and game theory. **93a:90050**

Tsypkin, Ya. Z. Robust adaptive control of systems under bounded uncertainty. (English summary) (*see* **93h:93009**)

— (*with* Vishnyakov, A. N.) Robust nominal control systems with a standard model. (Russian) **93g:93033**

(Tzafestas, Spyros G.) *see* **Mathematics of the analysis and design of process control, 93g:93004**

Vishnyakov, A. N. *see* **Tsypkin, Ya. Z., 93g:93033**

Vorotnikov, V. I. ★ Устойчивость динамических систем по отношению к части переменных. (Russian) [Stability of dynamical systems with respect to some of the variables] **93e:34001**

Walker, Bruce K. *see* **Srichander, R., 93k:93118**

Wang, En Ping Local maximum principle for singular discrete-time linear systems. **93h:49041**

Wang, Qing Guo *see* **Linnemann, Arno, 93m:93025**

White, Luther W. *see* **Kunisch, K., 93i:93036**

Withagen, Cees *see* **Huijberts, H. J. C., 93i:90029**

Xiao, Shu Xian Discussions on the algebraic criterion $1/K > c^{\tau}G^{-1}u + \sqrt{c^{\tau}G^{-1}c(u^{\tau}G^{-1}u-\rho)}$. (Chinese. English and Chinese summaries) **93k:34117**

(Xie, Xu Kai) *see* **Nie, Yi Yong, 93b:93087**

Yan, Wei Yong (*with* Moore, John Barratt) A multiple controller structure and design strategy with stability analysis. (English summary)

Yang, Xue Shan (*with* Chen, Lung-Kee) Stability of discrete bilinear systems with time-delayed feedback functions. (English summary) **93k:93099**

Yanushevskii, R. T. Lyapunov's functionals and related optimal problems for differential-difference systems. (English summary) **93k:49022**

Yaz, Engin *see* **Niu, Xiaoru; et al., 93f:93106**

Yedavalli, R. K. Robust root clustering for linear uncertain systems using generalized Lyapunov theory. (English summary)

Zhang, Hua Connective stability of large-scale delay systems of neutral type. (Chinese. English and Chinese summaries) **93h:34140**

Zhang, Shu Shun (*with* Shang, Da Zhong) The theorem of the stability of nonlinear nonautonomous systems under the frequently-acting perturbation—Liapunov's indirect method. (Chinese. English summary) **93c:34114**

Zhang, Yi[1] *see* **Banks, S. P., 93e:34102**

Items listed otherwise than by author

Bibliography:

Lyapunov, A. M. *see* **Lyapunov, A. M., 93e:01035**

Biography:

Lyapunov, A. M. *see* **Lyapunov, A. M., 93e:01035**

Conference:

Modelling and Control of Technological Systems ★ Mathematics of the analysis and design of process control. **93g:93004**

Congress:

Modelling and Control of Technological Systems ★ Mathematics of the analysis and design of process control. **93g:93004**

Dublin ★ Mathematics of the analysis and design of process control. **93g:93004**

Lille ★ Mathematics of the analysis and design of process control. **93g:93004**

Mathematics of the analysis and design of process control ★ Mathematics of the analysis and design of process control. **93g:93004**

93D09 Robust stability

Abed, Eyad H. *see* **Saydy, L.; et al., 93i:93102**

Agamennoni, Osvaldo (*with* Paolini, Eduardo; Desages, Alfredo) On robust stability analysis of a control system using Laguerre series.

Anderson, Brian D. O. *see* **Kraus, Frantisek J.; et al., 93a:93084** *and* **Mansour, Mohamed, 93j:93109**

Antsaklis, Panos J. *see* **Gao, Zhiqiang, 93j:93103**

Araki, Mituhiko (*with* Hagiwara, Tomomichi) Robust stability of sampled data systems. (English summary) (*see* **93f:93006**)

Auba, T. (*with* Funahashi, Yasuyuki) A note on Kharitonov's theorem. (English summary)

Barmish, B. Ross (*with* Kang, H. I.) Extreme point results for robust stability of interval plants: beyond first order compensators. (English summary) **93m:93067**

— (*with* Hollot, Christopher V.; Kraus, Frantisek J.; Tempo, Roberto) Extreme point results for robust stabilization of interval plants with first order compensators. **93d:93062**

— (*with* Tempo, Roberto; Hollot, Christopher V.; Kang, H. I.) An extreme point result for robust stability of a diamond of polynomials. (English summary) **93j:93099**

— *see also* **Yen, K. K., 93k:93092**

Bar-on, Jonathan R. (*with* Jonckheere, Edmond A.) The geometry of the multivariable phase margin. **93b:93080**

Bartlett, Andrew C. Vertex results for the steady state analysis of uncertain systems. (English summary) **93j:93100**

Belhouari, A. (*with* Tissir, E.; Hmamed, A.) Stability of interval matrix polynomial in continuous and discrete cases. **93g:93062**

Bhattacharyya, Shankar Prashad *see* **Keel, L. H.; et al., (93f:93006)**

Bien, Zeungnam (*with* Kim, Jin-Hoon) A robust stability bound of linear systems with structured uncertainty. (English summary)

— *see also* **Kim, Jin-Hoon, 93j:93107**

Blackwell, C. C. Robustness analysis in the time domain and output space. **93a:93081**

Bongers, Peter M. M. On a new robust stability margin. (English summary) (*see* **93g:93005**)

Braverman, M. È. (*with* Rozonoèr, L. I.) Robustness of linear dynamical systems. I. (Russian) **93f:93098**

— (*with* Rozonoèr, L. I.) Robustness of linear dynamical systems. II. (Russian) **93f:93099**

Celentano, Giovanni (*with* De Maria, Giuseppe) Positive linear parametrization of polynomials with zeros in prescribed regions. (Polish summary) **93b:93081**

— *see also* **Garofalo, F.; et al., 93j:93104**

Cendra, H. *see* **Robledo, C.; et al., 93b:93090**

Cerone, V. *see* **Tempo, Roberto, 93g:93068**

(Chehab, Y.) *see* **Mori, Takehiro, 93j:93110** *and* **Chen, Jie, 93k:93079**

Chen, Cha'o Kuang *see* **Chen, Chieh Li; et al.**

Chen, Chieh Li (*with* Yang, Shyi Kae; Chen, Cha'o Kuang) On determining the root locations of an interval system. (English summary)

Ch'èn, Ch'un Ming *see* **Shi, Y. Q.; et al., 93m:93076**

Chen, Degang *see* **Meressi, Tesfay; et al.**

Chen, Jie A supplemental note to: "Bounds on the three-block structured singular value" [Control Theory Adv. Tech. **6** (1990), no. 3, 473–481] by Chen and J. S. Freudenberg. (English summary)

— Comments on: "A necessary and sufficient condition for the stability of nonnegative interval discrete systems" [IEEE Trans. Automat. Control **36** (1991), no. 6, 742–746; MR 92f:93092] by B. Shafai, K. Perev, D. Cowley and Y. Chehab. (English summary) **93k:93079**

Chen, Wei Tian A result on the roots of a real polynomial. (Chinese. English and Chinese summaries)

Chou, Jyh Horng (*with* Ho, Shinn Jang; Horng, Ing Rong) Robustness of disk-stability for perturbed large-scale systems. (English summary)

— *see also* **Horng, Huey Yang; et al., 93m:93070**

Chui, Charles K. (*with* Mhaskar, H. N.) On multivariate robust stability. (English summary) **93h:93053**

Corless, Martin (*with* Da, D.) Stability robustness of linear feedback controlled flexible mechanical systems. **93b:93082**

(Cowley, D.) *see* **Mori, Takehiro, 93j:93110** *and* **Chen, Jie, 93k:93079**

Crews, M. (*with* Kouvaritakis, B.) An evaluation of super-optimality as a control tool: a relative stability perspective. (English summary) **93j:93101**

Da, D. *see* **Corless, Martin, 93b:93082**

Dahleh, Mohammed A. (*with* Tesi, Alberto; Vicino, Antonio) Robust stability and performance of interval plants. (English summary) **93k:93080**

Davison, Edward J. *see* **Qiu, Li, 93a:93086; 93b:93089** *and* **93f:93107**

De Abreu-Garcia, Jose A. *see* **Niu, Xiaoru; et al., 93f:93106**

DeMarco, C. L. *see* **Qian, R. X., 93b:93088**

De Mari, Filippo (*with* Ober, Raimund) Topological aspects of robust control. (English summary) **93i:93095**

De Maria, Giuseppe *see* **Celentano, Giovanni, 93b:93081**

Desages, Alfredo *see* **Robledo, C.; et al., 93b:93090** *and* **Agamennoni, Osvaldo; et al.**

Dion, Jean Michel *see* **Trofino-Neto, Alexandre; et al., 93j:93119**

Dolezal, Vaclav Sensitivity and robust stability of some control systems containing a nonlinear plant. (English summary) **93k:93081**

Dugard, Luc *see* **Trofino-Neto, Alexandre; et al., 93j:93119**

El Bouhtouri, A. (*with* Pritchard, A. J.) Stability radii of linear systems with respect to stochastic perturbations. **93g:93063**

El-Sakkary, Ahmed K. The symmetric Rouché's form for robustness. **93d:93063**

Eslami, Mansour Set by set generation of robust stable matrices. (English summary) **93m:93068**

— On the construction of robustly stable large-scale dynamic systems. (English summary) **93m:93069**

Farison, James B. (*with* Kolla, Sri R.) Stability robustness bounds for discrete-time linear regulators. **93f:93100**

— (*with* Kolla, Sri R.) Techniques in stability robustness bounds for linear discrete-time systems. **93h:93054**

Fiorio, Giovanni (*with* Milanese, M.; Vicino, Antonio) Robust stability and performance in the presence of parametric and norm bounded uncertainty. **93f:93101**

Foo, Y. K. (*with* Soh, Y. C.) Characterization of zero locations of polytopes of real polynomials. (English summary) **93f:93102**

— (*with* Soh, Y. C.) Strong Kharitonov theorems for low-order polynomials. (English summary) **93i:93096**

— (*with* Soh, Y. C.) Robustness analysis of matrices with highly structured uncertainties. **93k:93082**

— (*with* Soh, Y. C.) Strict positive realness of a family of polytopic plants. (English summary) **93j:93102**

— *see also* **Soh, Y. C., 93b:93092** *and* **Kim, Jin-Hoon, 93j:93107**

(Frendenberg, J. S.) *see* **Chen, Jie**

Funahashi, Yasuyuki *see* **Auba, T.**

Gao, Zhiqiang (*with* Antsaklis, Panos J.) Explicit asymmetric bounds for robust stability of continuous and discrete-time systems. (English summary) **93j:93103**

Garofalo, F. (*with* Celentano, Giovanni; Glielmo, Luigi) Stability robustness of interval matrices via Lyapunov quadratic forms. (English summary) **93j:93104**
Glielmo, Luigi *see* **Garofalo, F.; et al., 93j:93104**
Gross, Beate Verification of asymptotic stability for interval matrices and applications in control theory. (English summary) **93k:93083**
Gu, Guoxiang *see* **Zhou, Kemin**
Gu, Keqin (*with* Loh, Nan K.) Direct computation of stability bound for systems with polytopic uncertainties. (English summary) **93j:93105**
Gunnarsson, S. Robustness in adaptive control from a frequency domain system identification perspective. (English summary) (*see* **93j:93007**)
Gutman, Shaul Data and uncertain parameters in robust analysis. (English summary)
— Root clustering for convex combination of complex polynomials. (English summary)
Hagiwara, Tomomichi *see* **Araki, Mituhiko, (93f:93006)**
Han, Qing Long (*with* Wu, Qi Bin) Erratum: "Stability robustness analysis of discrete linear systems" [Internat. J. System Sci. **22** (1991), no. 1, 165–172; MR 91j:93076]. **93k:93084**
Hara, Shinji (*with* Kabamba, Pierre T.) Robust control system design for sampled-data feedback systems. (*see* **93f:93006**)
— *see also* **Yamamoto, Yutaka, 93a:93090**
Hinrichsen, Diederich (*with* Pritchard, A. J.) On the robustness of stable discrete-time linear systems. **93b:93083**
— (*with* Pritchard, A. J.) Robustness measures for linear systems with application to stability radii of Hurwitz and Schur polynomials. **93f:93103**
Hmamed, A. *see* **Belhouari, A.; et al., 93g:93062**
Ho, Shinn Jang *see* **Chou, Jyh Horng; et al.**
Hollot, Christopher V. *see* **Barmish, B. Ross; et al., 93d:93062**; **Padmanabhan, Prasad, 93g:93066**; **Barmish, B. Ross; et al., 93j:93099** *and* **Yen, K. K., 93k:93092**
Horng, Huey Yang (*with* Chou, Jyh Horng; Horng, Ing Rong) Robustness of eigenvalue clustering in various regions of the complex plane for perturbed systems. (English summary) **93m:93070**
Horng, Ing Rong *see* **Horng, Huey Yang; et al., 93m:93070** *and* **Chou, Jyh Horng; et al.**
Hsiao, Fêng Hsiang Robust stability of discrete multivariable systems subject to nonlinear time-varying unmodelled dynamics. (English summary)
Hu, Heng Zhang (*with* Zhang, Zhao; Zhao, Chang An) A study on perturbation bounds for robust stability in linear systems. (Chinese. English and Chinese summaries)
Hu, Ting Shu (*with* Shi, Song Jiao) Robust analysis of systems with uncertain parameters in their state matrices. (Chinese. English and Chinese summaries)
— (*with* Shi, Song Jiao) Robust stability analysis of an interval matrix. (Chinese. English and Chinese summaries) **93g:93064**
Huang, Chuan Guey *see* **Su, Tê Jên**
Huang, Jia Ying *see* **Tang, Jian Guo**
Huang, Lin (*with* Wang, Long) Value mapping and parameterization approach to robust stability analysis. **93g:93065**
— *see also* **Wang, Long, 93d:93068**; **93f:93108**; **93h:93055** *and* **Yu, Nian Cai**
Ioannou, Petros A. *see* **Tsao, T., 93k:93090**
Jaworska, I. (*with* Kurylowicz, A.) Modelling uncertainty estimation to maintain control systems stability. (English summary) (*see* **93h:93009**)
Jayasuriya, Suhada *see* **Shaw, Jinsiang, 93j:93117**
Johnson, Alan *see* **Luo, J. S.**
Jonckheere, Edmond A. *see* **Bar-on, Jonathan R., 93b:93080**
Jury, Eliahu I. *see* **Kraus, Frantisek J.; et al., 93a:93083**; **Katbab, A., 93j:93106**; **Premaratne, K., 93j:93113** *and* **Tsypkin, Ya. Z.; et al., 93m:93078**
Kabamba, Pierre T. *see* **Hara, Shinji, (93f:93006)**
Kaesbauer, D. On robust stability of polynomials with polynomial parameter dependency: two/three parameter cases. (English summary)
Kang, H. I. *see* **Barmish, B. Ross; et al., 93j:93099** *and* **93m:93067**
Kantor, Jeffrey C. (*with* Spencer, Billie F., Jr.) On real parameter stability margins and their computation. (English summary) **93i:93097**
Katbab, A. (*with* Jury, Eliahu I.) A note on two methods related to stability robustness of polynomials in a sector (relative stability). (English summary) **93j:93106**
Keel, L. H. (*with* Shaw, J.; Bhattacharyya, Shankar Prashad) Robust control of interval systems. (English summary) (*see* **93f:93006**)
Kerbelev, A. M. *see* **Tsypkin, Ya. Z., 93m:93079**
Khammash, Mustafa H. (*with* Pearson, J. Boyd, Jr.) Analysis and design for robust performance with structured uncertainty. (English summary) **93k:93085**
Kharitonov, V. L. Families of stable quasipolynomials. (Russian) **93f:93104**
— Global stability with respect to shifts in perturbed systems of difference equations. (Russian. English summary) **93c:93043**
— Preservation of the property of global stability with respect to shifts under parameter variations. (Russian. Russian summary) **93k:93086**
Kida, Hiroshi *see* **Kokame, Hideki; et al., 93a:93082**
Kim, Jin-Hoon (*with* Bien, Zeungnam) Comments on: "Stability analysis of a family of matrices" [IEEE Trans. Automat. Control **35** (1990), no. 11, 1257–1259; MR 91j:93069] by Y. K. Foo and Y. C. Soh. (English summary) **93j:93107**
— *see also* **Bien, Zeungnam**
Kogan, Jacob Computation of stability radius for families of bivariate polynomials. (English summary) **93m:93071**
Kokame, Hideki (*with* Kida, Hiroshi; Mori, Takehiro) A lower bound of the degree of stability for a matrix polytope and its applications. **93a:93082**
— *see also* **Mori, Takehiro, 93b:93086**; **93j:93110**; **93m:93073** *and* **Nishimura, Tsuyoshi; et al.**
Kolla, Sri R. *see* **Farison, James B., 93f:93100** *and* **93h:93054**
Kouvaritakis, B. *see* **Crews, M., 93j:93101**
Kraus, Frantisek J. (*with* Mansour, Mohamed; Jury, Eliahu I.) Robust Schur stability of interval polynomials. **93a:93083**
— (*with* Mansour, Mohamed; Truöl, W.; Anderson, Brian D. O.) Robust stability of control systems: extreme point results for the stability of edges. **93a:93084**
— *see also* **Barmish, B. Ross; et al., 93d:93062** *and* **Yen, K. K., 93k:93092**
Kuntsevich, A. V. *see* **Kuntsevich, V. M., 93m:93072**
Kuntsevich, V. M. (*with* Platova, E. L.) Robust stability of continuous and discrete systems with parametrically-specified estimates of their coefficients. (Russian. English summary) **93d:93064**
— (*with* Kuntsevich, A. V.) Asymptotic stability of a class of difference inclusions and robust stability of variable-parameter discrete systems. (Russian. English, Russian and Ukrainian summaries) **93m:93072**
Kuroe, Yasuaki *see* **Nishimura, Tsuyoshi; et al.**
Kurylowicz, A. *see* **Jaworska, I., (93h:93009)**
Lee, E. Bruce *see* **Li, Yanlin; et al., 93b:93085**
Lê Hông Vân *see* **Tsypkin, Ya. Z.; et al., 93m:93078**
Leitmann, George *see* **Rodellar Benedé, J.; et al., (93j:00009)**
Leondes, Cornelius T. *see* **Tekawy, Jonathan A.; et al., 93k:93089**
Lewkowicz, Izchak (*with* Sivan, Raphael) Inverse radial matrices and maximal stability robustness. (English summary) **93i:93098**
— When are the complex and the real stability radii equal? **93b:93084**
— (*with* Sivan, Raphael) Stability robustness of almost linear state equations. (English summary) **93j:93108**
Li, Yanlin (*with* Nagpal, Krishan M.; Lee, E. Bruce) Stability analysis of polynomials with coefficients in disks. **93b:93085**
Liu, Yong Qing (*with* Xie, Sheng Li) On the robust stability of interval neutral type control systems with time-delays. (Polish summary) **93d:93065**
Loh, Nan K. *see* **Gu, Keqin, 93j:93105**
Lou, Ji Han (*with* Wang, Yue Yun; Zhang, Zhong Jun) The Kharitonov theorem and stability robustness. (Chinese. English and Chinese summaries)
Luh, Yih Ping *see* **Psiaki, Mark L., 93j:93114**
Luo, J. S. (*with* Johnson, Alan) Stability robustness of the discrete-time LQG system under plant perturbation and noise uncertainty.
Mansour, Mohamed Robust stability in systems described by rational functions. **93i:93099**
— The principle of the argument and its application to the stability and robust stability problems. (English summary) **93k:93087**
— (*with* Anderson, Brian D. O.) Kharitonov's theorem and the second method of Lyapunov. (English summary) **93j:93109**
— *see also* **Kraus, Frantisek J.; et al., 93a:93083** *and* **93a:93084**
Mao, Xuerong Robustness of stability of nonlinear systems with stochastic delay perturbations. (English summary) **93i:93100**
Meressi, Tesfay (*with* Chen, Degang; Paden, Brad) Application of Kharitonov's theorem to mechanical systems. (English summary)
Mhaskar, H. N. *see* **Chui, Charles K., 93h:93053**
Milanese, M. *see* **Florio, Giovanni; et al., 93f:93101** *and* **Vicino, Antonio, 93i:93104**
Miyagi, H. (*with* Yamashita, Katsumi) Robust stability of Lur'e systems with multiple nonlinearities. **93a:93085**
Mori, Takehiro (*with* Kokame, Hideki) Boundary implications for stability of Lur'e systems with interval plants. **93b:93086**
— (*with* Kokame, Hideki) Stability of interval polynomials with vanishing extreme coefficients. (English summary) **93m:93073**
— (*with* Kokame, Hideki) Comments on: "A necessary and sufficient condition for the stability of nonnegative interval discrete systems" [IEEE Trans. Automat. Control **36** (1991), no. 6, 742–746; MR 92f:93092] by B. Shafai, K. Perev, D. Cowley and Y. Chehab. (English summary) **93j:93110**
— *see also* **Kokame, Hideki; et al., 93a:93082** *and* **Nishimura, Tsuyoshi; et al.**
Nagpal, Krishan M. *see* **Li, Yanlin; et al., 93b:93085**
Neimark, Yu. I. Robust stability and *D*-partitioning. (Russian. Russian summary) **93j:93111**
— Robust stability with respect to nonlinear parameters. (Russian. Russian summary) **93m:93074**
— The measure of robust stability and modality of linear systems. (Russian) **93i:93101**
Ni, Mao Lin (*with* Wu, Hong Xin) A design of optimal control systems with integrity. (Chinese. English and Chinese summaries)
Nie, Yi Yong A note on "New criteria for polynomial stability" [IMA J. Math. Control Inform. **4** (1987), no. 1, 1–12, MR 88j:93034] by Nie and X. K. Xie. **93b:93087**
Nishimura, Tsuyoshi (*with* Mori, Takehiro; Kuroe, Yasuaki; Kokame, Hideki) On application of Popov's theorem for Lur'e systems with interval plants. (Japanese. English summary)
Niu, Xiaoru (*with* De Abreu-Garcia, Jose A.; Yaz, Engin) Improved bounds for linear discrete-time systems with structured perturbations. (English summary) **93f:93106**
Nurges, Ülo Robust control for a class of linear systems. (English, Russian and Estonian summaries)
Ober, Raimund *see* **De Mari, Filippo, 93i:93095**
Olas, A. Optimal quadratic Lyapunov functions for robust stability problem. **93e:93048**
Owens, David H. *see* **Wang, L., (93j:93007)**
Paden, Brad *see* **Meressi, Tesfay; et al.**
Padmanabhan, Prasad (*with* Hollot, Christopher V.) Complete instability of a box of polynomials. (English summary) **93g:93066**
Paolini, Eduardo *see* **Agamennoni, Osvaldo; et al.**
Pearson, J. Boyd, Jr. *see* **Khammash, Mustafa H., 93k:93085**
Peng, Albert C. *see* **Solak, Marek K.**
(Perev, K.) *see* **Mori, Takehiro, 93j:93110** *and* **Chen, Jie, 93k:93079**
Petrov, N. P. (*with* Polyak, B. T.) Robust *D*-partition. (Russian) **93g:93067**
Platova, E. L. *see* **Kuntsevich, V. M., 93d:93064**
Polyak, B. T. (*with* Tsypkin, Ya. Z.) Robust stability under complex perturbations of the parameters. (Russian) **93f:93105**
— (*with* Tsypkin, Ya. Z.) The robust Nyquist criterion. (Russian. Russian summary) **93j:93112**
— *see also* **Petrov, N. P., 93g:93067**; **Tsypkin, Ya. Z.; et al., 93m:93078** *and* **(93f:93007)**
Poznyak, A. S. *see* **Vasilevskii, Yu. A.; et al., 93j:93120**
Premaratne, K. (*with* Jury, Eliahu I.) On the Bistritz tabular form and its relationship with the Schur-Cohn minors and inner determinants. (English summary) **93j:93113**
Pritchard, A. J. *see* **Hinrichsen, Diederich, 93b:93083**; **93f:93103** *and* **El Bouhtouri, A., 93g:93063**
Pryashnikov, F. D. Distribution of the roots of a characteristic polynomial with respect to a polygonal domain. (Russian) **93m:93075**
Psiaki, Mark L. (*with* Luh, Yih Ping) Nonlinear system stability boundary approximation

by polytopes in state space. (English summary) **93j:93114**

Pujara, L. R. (*with* Shanbhag, Naresh) Some stability theorems for polygons of polynomials. (English summary) **93j:93115**

Qian, R. X. (*with* DeMarco, C. L.) An approach to robust stability of matrix polytopes through copositive homogeneous polynomials. **93b:93088**

Qiu, Li (*with* Davison, Edward J.) A unified approach for the stability robustness of polynomials in a convex set. (English summary) **93f:93107**

— (*with* Davison, Edward J.) The stability robustness of generalized eigenvalues. **93a:93086**

— (*with* Davison, Edward J.) Pointwise gap metrics on transfer matrices. **93b:93089**

Ray, Laura Ryan Stability robustness of uncertain LQG/LTR systems. (English summary)

Robledo, C. (*with* Desages, Alfredo; Cendra, H.) On the distance to the instability border of Hurwitz polynomials with coefficients that depend affinely on m parameters and a particular convexity property of H^n. **93b:93090**

Rodellar Benedé, J. (*with* Leitmann, George; Ryan, Eugene P.) Practically stable control of a class of uncertain dynamical systems. (Spanish) (*see* **93j:00009**)

Rohn, Jiří Stability of interval matrices: the real eigenvalue case. (English summary)

Rozonoèr, L. I. *see* **Braverman, M. È., 93f:93098** *and* **93f:93099**

Ryan, Eugene P. *see* **Rodellar Benedé, J.; et al., (93j:00009)**

Safonov, Michael G. *see* **Tekawy, Jonathan A.; et al., 93k:93089**

Sawan, M. E. *see* **Shao, Z. H., 93k:93088**

Saydy, L. (*with* Tits, André L.; Abed, Eyad H.) Robust stability of complex families of matrices and polynomials. (English summary) **93i:93102**

Schumacher, J. M. A pointwise criterion for controller robustness. **93b:93091**

Semenov, A. V. *see* **Vasilevskiĭ, Yu. A.; et al., 93j:93120**

(Shafai, B.) *see* **Mori, Takehiro, 93j:93110** *and* **Chen, Jie, 93k:93079**

Shamma, Jeff S. (*with* Zhao, Rongze) Fading-memory feedback systems and robust stability. (English summary) **93j:93116**

Shanbhag, Naresh *see* **Pujara, L. R., 93j:93115**

Shao, Z. H. (*with* Sawan, M. E.) Robust stability of systems with multistructured uncertainties. (English summary) **93k:93088**

Shaw, J. *see* **Keel, L. H.; et al., (93f:93006)**

Shaw, Jinsiang (*with* Jayasuriya, Suhada) Robust stability of an interval plant with respect to a convex region in the complex plane. (English summary) **93j:93117**

Shi, Song Jiao *see* **Hu, Ting Shu, 93g:93064**

Shi, Y. Q. (*with* Zhou, S. F.) Stability of a set of multivariate complex polynomials with coefficients varying in diamond domain. (English summary)

— (*with* Yen, K. K.; Ch'ên, Ch'un Ming) Two necessary conditions for a complex polynomial to be strictly Hurwitz and their applications in robust stability analysis. (English summary) **93m:93076**

Shyu, Kuo Kai (*with* Yan, Jun Juh) Robust stability of uncertain time-delay systems and its stabilization by variable structure control. (English summary) **93j:93118**

Sideris, Athanasios Elimination of frequency search from robustness tests. (English summary)

Simek, K. *see* **Świerniak, A., (93e:00021)**

Sivan, Raphael *see* **Lewkowicz, Izchak, 93i:93098** *and* **93j:93108**

Soh, C. B. Stability margins of dynamic interval systems. **93a:93087**

— On a root distribution criterion for interval polynomials. (English summary)

Soh, Y. C. (*with* Foo, Y. K.) Edge theorem for a family of analytic functions. **93b:93092**

— *see also* **Foo, Y. K., 93f:93102; 93i:93096; 93j:93102; 93k:93082** *and* **Kim, Jin-Hoon, 93j:93107**

Solak, Marek K. A structural approach to robust stability of polynomials. (English summary) **93i:93103**

— (*with* Peng, Albert C.) Stability regions of Schur and G-stable polynomials. (English summary)

de Souza, Carlos E. *see* **Wang, You Yi; et al., 93f:93109**

Spencer, Billie F., Jr. *see* **Kantor, Jeffrey C., 93i:93097**

Su, Tê Jên (*with* Huang, Chuan Guey) Robust stability of delay dependence for linear uncertain systems. (English summary)

Świerniak, A. (*with* Simek, K.) Guaranteed exponential stability in partly unknown large scale systems. (English summary) (*see* **93e:00021**)

Sznaier, Mario Norm based robust control of state-constrained discrete-time linear systems. **93d:93066**

Tadmor, Gilead Receding horizon revisited: an easy way to robustly stabilize an LTV system. **93a:93088**

Tang, Jian Guo (*with* Huang, Jia Ying) An analysis of the D robust stability of a class of polynomial families. (Chinese. English and Chinese summaries)

Tekawy, Jonathan A. (*with* Safonov, Michael G.; Leondes, Cornelius T.) Robustness measures for systems with one-sided parameter uncertainties. (English summary) **93k:93089**

Tempo, Roberto (*with* Cerone, V.) Robust stability: the computational complexity point of view. (English summary) **93g:93068**

— *see also* **Barmish, B. Ross; et al., 93d:93062; 93j:93099; Tsypkin, Ya. Z.; et al., 93m:93078** *and* **Yen, K. K., 93k:93092**

Tesi, Alberto (*with* Vicino, Antonio) Frequency response of interval plant-controller families. (English summary) **93d:93067**

— *see also* **Dahleh, Mohammed A.; et al., 93k:93080**

Tissir, E. *see* **Belhouari, A.; et al., 93g:93062**

Tits, André L. *see* **Saydy, L.; et al., 93i:93102**

Topcheev, Yu. I. Evaluation of regions of stability, instability, and self-excited oscillations in nonlinear systems. **93b:93093**

Townley, Stuart Robust stability radii for distributed parameter systems: a survey. (English summary) **93m:93077**

Trofino-Neto, Alexandre (*with* Dion, Jean Michel; Dugard, Luc) Robustness bounds for LQ regulators. (English summary) **93j:93119**

Trunöl, W. *see* **Kraus, Frantisek J.; et al., 93a:93084**

Tsao, T. (*with* Ioannou, Petros A.) On the stability proof of adaptive schemes with static normalizing signals and parameter projection. (English summary) **93k:93090**

Tsypkin, Ya. Z. (*with* Polyak, B. T.) Frequency domain approach to robust stability of continuous systems. (English summary) (*see* **93f:93007**)

— Stabilizing nonlinear discrete systems under nonparametric uncertainty conditions. (Russian. English, Russian and Ukrainian summaries) **93g:93069**

— (*with* Jury, Eliahu I.; Tempo, Roberto; Polyak, B. T.; Lê Hông Vân) Discussion of the robustness problem in control systems. (Russian) **93m:93078**

— (*with* Kerbelev, A. M.) Robust nonlinear discrete control systems. (Russian) **93m:93079**

— Circular criteria for robust stability of nonlinear discrete systems. (Russian) **93m:93080**

— *see also* **Polyak, B. T., 93f:93105** *and* **93j:93112**

Vasilevskiĭ, Yu. A. (*with* Poznyak, A. S.; Semenov, A. V.) Design of robust stabilizers with real coefficients by the Nevanlinna-Pick method. (Russian. Russian summary) **93j:93120**

Vicino, Antonio (*with* Milanese, M.) Robust stability of linear state space models via Bernstein polynomials. (English summary) **93i:93104**

— *see also* **Tesi, Alberto, 93d:93067; Fiorio, Giovanni; et al., 93f:93101** *and* **Dahleh, Mohammed A.; et al., 93k:93080**

Wang, Hai Yan² Pole assignment in a specified region and robustness. (Chinese. English and Chinese summaries) **93j:93121**

Wang, L. (*with* Owens, David H.) Robust stability conditions for adaptive control systems. (English summary) (*see* **93j:93007**)

Wang, Long (*with* Huang, Lin) Robust stability of polynomials and strictly positive real invariance of rational functions in the coefficient space. (Chinese. English and Chinese summaries) **93h:93055**

— (*with* Huang, Lin) Robust stability of polynomial families and robust strict positive realness of rational function families. **93d:93068**

— (*with* Huang, Lin) Robust stability of diamond families of polynomials with complex coefficients. (English summary) **93f:93108**

— *see also* **Huang, Lin, 93g:93065**

Wang, Qing Guo (*with* Wang, Yue Yun) On aperiodicity problem of polynomial polytopes. **93a:93089**

Wang, You Yi (*with* Xie, Lihua; de Souza, Carlos E.) Robust control of a class of uncertain nonlinear systems. (English summary) **93f:93109**

Wang, Yue Yun *see* **Wang, Qing Guo, 93a:93089** *and* **Lou, Ji Han; et al.**

Wu, Hong Xin *see* **Ni, Mao Lin**

Wu, Qi Bin *see* **Han, Qing Long, 93k:93084**

Xiao, Shu Xian Stability analysis of interval dynamical systems. (Chinese. English and Chinese summaries)

— A multiple cutting method for robust stability of linear systems. (Chinese. English and Chinese summaries)

Xie, Lihua *see* **Wang, You Yi; et al., 93f:93109**

Xie, Sheng Li *see* **Liu, Yong Qing, 93d:93065**

(Xie, Xu Kai) *see* **Nie, Yi Yong, 93b:93087**

Yamamoto, Yutaka (*with* Hara, Shinji) Internal and external stability and robust stability condition for a class of infinite-dimensional systems. **93a:93090**

Yamashita, Katsumi *see* **Miyagi, H., 93a:93085**

Yan, Jun Juh *see* **Shyu, Kuo Kai, 93j:93118**

Yang, Shyi Kae *see* **Chen, Chieh Li; et al.**

Yanushevskiĭ, R. T. Aspects of robust control systems design. **93k:93091**

Yaz, Engin *see* **Niu, Xiaoru; et al., 93f:93106**

Yen, K. K. (*with* Zhou, S. F.) Comments on: "Extreme point results for robust stabilization of interval plants with first order compensators" [IEEE Trans. Automat. Control **37** (1992), no. 6, 707–714; MR 93d:93062] by B. R. Barmish, C. V. Hollot, F. J. Kraus and R. Tempo. (English summary) **93k:93092**

— *see also* **Shi, Y. Q.; et al., 93m:93076**

Yu, Nian Cai (*with* Huang, Lin) Boundary theorems for the robust stability of complex polynomial families. (English summary)

Zakharov, Aleksandr Vasil'evich Linear discrete interval systems stability under small phase desynchronization. (*see* **93a:65004**)

Zeheb, Ezra Necessary and sufficient conditions for robust Schur property—the continuous dependence case. (English summary) (*see* **93g:93005**)

— Necessary and sufficient conditions for robust stability of discrete systems with coefficients depending continuously on two interval parameters. (English summary) **93j:93122**

Zhang, Zhao *see* **Hu, Heng Zhang; et al.**

Zhang, Zhong Jun *see* **Lou, Ji Han; et al.**

Zhao, Chang An *see* **Hu, Heng Zhang; et al.**

Zhao, Ke You Stability of the convex combination of two polynomial square matrices arising in robustness problems. (English and Chinese summaries)

Zhao, Rongze *see* **Shamma, Jeff S., 93j:93116**

Zhou, Kemin (*with* Gu, Guoxiang) Robust stability of multivariable systems with both real parametric and norm bounded uncertainties. (English summary)

Zhou, S. F. *see* **Yen, K. K., 93k:93092** *and* **Shi, Y. Q.**

Items with secondary classifications in 93D09

Barabanov, A. T. Routh's method in the theory of systems. I. Generalization of Routh's problem in problems in the theory of systems. (Russian) **93b:93076**

— The complete solution of the general Routh problem in systems theory. II. (Russian) **93e:93045**

Bartlett, Andrew C. (*with* Tesi, Alberto; Vicino, Antonio) Vertices and segments of interval plants are not sufficient for step response analyses. (English summary) **93f:93045**

Bernstein, Dennis S. *see* **Haddad, Wassim M., 93b:93103**

Breido, I. V. Extremal estimates for the coefficients of a characteristic polynomial of arbitrary order in real and complex roots. (Russian. Russian summary) **93f:93056**

Chapellat, Hervé (*with* Dahleh, Mohammed A.) Analysis of time-varying control strategies for optimal disturbance rejection and robustness. (English summary) **93j:93075**

Chen, J. S. *see* **Chen, Ye-Hwa, 93h:93070**

Chen, Ye-Hwa (*with* Chen, J. S.) Adaptive robust control of uncertain systems. **93h:93070**

Cheng, Mian *see* **Jia, Ying Min; et al., 93g:93074**

Chou, Jyh Horng Feedback control for uncertain saturating systems. **93b:93048**

— *see also* **Horng, Ing Rong; et al., 93k:93053**

Corless, Martin (*with* Leitmann, George) Bounded controllers for robust exponential convergence. (English summary) **93k:93101**

Curtain, Ruth F. Robust stabilization for infinite-dimensional linear systems using normalized coprime factorizations. **93a:93097**

— (*with* van Keulen, B. A. M.) Robust control with respect to coprime factors of infinite-dimensional positive real systems. **93a:93098**
Dahleh, Mohammed A. *see* **Chapellat, Hervé, 93j:93075**
Datta, Aniruddha *see* **Ioannou, Petros A., 93k:93103**
Dorato, P. (*with* Fortuna, L.; Muscato, G.) ★ Robust control for unstructured perturbations—an introduction. **93h:93002**
Dorsey, John F. *see* **Qu, Zhihua, 93c:93046**
Dullerud, Geir E. (*with* Francis, Bruce Allen) $\mathscr{L}_1$ analysis and design of sampled-data systems. **93a:93074**
Fêng, I Kang *see* **Wu, Chin Fu; et al., 93e:93055**
Fortuna, L. *see* **Dorato, P.; et al., 93h:93002**
Francis, Bruce Allen *see* **Dullerud, Geir E., 93a:93074**
Gao, Wei Bing *see* **Jia, Ying Min; et al., 93g:93074**
Georgiou, Tryphon T. (*with* Smith, Malcolm Clive) Robust stabilization in the gap metric. (English summary) **93i:93110**
Glover, Keith *see* **McFarlane, Duncan, 93d:93032**
Haddad, Wassim M. (*with* Bernstein, Dennis S.) Robust stabilization with positive real uncertainty: beyond the small gain theorem. **93b:93103**
Hara, Shinji (*with* Kimura, T.; Kondō, Ryōji) H_∞ control system design by a parameter space approach. (English summary) **93k:93039**
Heh, Jia Sheng *see* **Wu, Chin Fu; et al., 93e:93055**
(Hinrichsen, Diederich) *see* **Control of uncertain systems, 93i:93006**
Horng, Huey Yang *see* **Horng, Ing Rong; et al., 93k:93053**
Horng, Ing Rong (*with* Horng, Huey Yang; Chou, Jyh Horng) Eigenvalue clustering in subregions of the complex plane for interval dynamic systems. (English summary) **93k:93053**
(Hosoe, Shigeyuki) *see* **Robust control, 93f:93006**
Huang, Lin *see* **Wang, Long, 93k:12002**
Ioannou, Petros A. (*with* Datta, Aniruddha) Robust adaptive control: design, analysis and robustness bounds. (English summary) **93k:93103**
Jia, Ying Min (*with* Gao, Wei Bing; Cheng, Mian) Robust strict positive real stabilization criteria for SISO uncertain systems. (English summary) **93g:93074**
van Keulen, B. A. M. *see* **Curtain, Ruth F., 93a:93098**
Kimura, T. *see* **Hara, Shinji; et al., 93k:93039**
Kojima, Akira (*with* Uchida, Kenko; Shimemura, Etsujiro) Robust stabilization of uncertain time delay systems via combined internal-external approach. (English summary) **93j:93134**
Kondō, Ryōji *see* **Hara, Shinji; et al., 93k:93039**
Kumar, Panganamala Ramana *see* **Naik, Sanjeev M.; et al., 93i:93076** *and* **93m:93101**
Kuntsevich, V. M. (*with* Lychak, M.) ★ Guaranteed estimates, adaptation and robustness in control systems. **93b:93004**
— Synthesis of optimal robust control of linear objects under bounded perturbations. (Russian. Russian summary) **93i:49046**
Kuo, Tê Shêng *see* **Wu, Chin Fu; et al., 93e:93055**
Langer, Heinz (*with* Najman, Branko; Veselić, Krešimir) Perturbation of the eigenvalues of quadratic matrix polynomials. **93d:15015**
de Larminat, P. A survey on robust control. (English summary) **93i:93003**
Leitmann, George *see* **Corless, Martin, 93k:93101**
(Leondes, Cornelius T.) *see* **Robust control system techniques and applications, 93d:93007** *and* **93d:93008**
Liu, Chin Hsing Robustness of optimal nonlinear regulators under actuator and additive perturbations. (English summary) **93i:93106**
Lychak, M. *see* **Kuntsevich, V. M., 93b:93004**
(Mårtensson, Bengt) *see* **Control of uncertain systems, 93i:93006**
Martynyuk, A. A. (*with* Miladzhanov, V. G.) Sufficient conditions for the absolute stability of large-scale systems subject to structural perturbations. (Russian. English, Russian and Ukrainian summaries) **93h:34082**
McFarlane, Duncan (*with* Glover, Keith) A loop shaping design procedure using H_∞ synthesis. **93d:93032**
Miladzhanov, V. G. *see* **Martynyuk, A. A., 93h:34082**
Mizukami, Koichi *see* **Wu, Han Sheng, 93i:93111**
Moylan, Peter J. *see* **Pota, Hemanshu Roy, 93j:93098**
Muscato, G. *see* **Dorato, P.; et al., 93h:93002**
Mutoh, Yasuhiko (*with* Nikiforuk, Peter N.) A method for verifying sector conditions in nonlinear discrete-time control systems. (English summary) **93h:93050**
Naik, Sanjeev M. (*with* Kumar, Panganamala Ramana; Ydstie, B. Erik) Robust continuous-time adaptive control by parameter projection. (English summary) **93i:93076**
— (*with* Kumar, Panganamala Ramana) Extended least squares based adaptive control: robustness analysis. (English summary) **93m:93101**
Najman, Branko *see* **Langer, Heinz; et al., 93d:15015**
Nikiforuk, Peter N. *see* **Mutoh, Yasuhiko, 93h:93050**
Omorov, R. O. Maximal robustness of dynamical systems. (Russian) **93e:93026**
Owens, David H. *see* **Rogers, Eric L., 93k:93074**
Patel, Y. (*with* Patton, Ron J.) Design of robust multirate feedback control using eigenstructure assignment. (English summary) (*see* **93g:93004**)
Patton, Ron J. *see* **Patel, Y., (93g:93004)**
Pota, Hemanshu Roy (*with* Moylan, Peter J.) Stability of locally dissipative interconnected systems. (English summary) **93j:93098**
Qu, Zhihua (*with* Dorsey, John F.) Robust control by two Lyapunov functions. **93c:93046**
Rogers, Eric L. (*with* Owens, David H.) Simulation-based stability tests and performance bounds for differential nonunit memory linear repetitive processes. (English summary) **93k:93074**
Shimemura, Etsujiro *see* **Kojima, Akira; et al., 93j:93134**
Smith, Malcolm Clive *see* **Georgiou, Tryphon T., 93i:93110**
Sobel, Kenneth M. (*with* Yu, Wangling) Robust control techniques for systems with structured state space uncertainty. (*see* **93d:93008**)
Tesi, Alberto *see* **Bartlett, Andrew C.; et al., 93f:93045**
Tornambè, Antonio (*with* Valigi, Paolo) A decentralized controller for the robust stabilization of a class of MIMO linear systems. (English summary) **93g:93075**
Uchida, Kenko *see* **Kojima, Akira; et al., 93j:93134**
Valigi, Paolo *see* **Tornambè, Antonio, 93g:93075**
Veselić, Krešimir *see* **Langer, Heinz; et al., 93d:15015**
Vicino, Antonio *see* **Bartlett, Andrew C.; et al., 93f:93045**
Wang, Long (*with* Huang, Lin) Some results on root distribution of polynomials. (Chinese. English and Chinese summaries) **93k:12002**
Wang, Qing Guo Decoupling with internal stability for unity output feedback systems. **93f:93117**
Wu, Chin Fu (*with* Heh, Jia Sheng; Fêng, I Kang; Kuo, Tê Shêng) Optimal pi-coefficients of second-order systems. **93e:93055**
Wu, Han Sheng (*with* Mizukami, Koichi) Robust stabilization of uncertain linear dynamical systems. (English summary) **93i:93111**
Yang, Ya Guang An improved eigenvalue perturbation bound on a nonnormal matrix and its application in robust stability analysis. (English summary) **93m:65052**
Ydstie, B. Erik *see* **Naik, Sanjeev M.; et al., 93i:93076**
Yu, Wangling *see* **Sobel, Kenneth M., (93d:93008)**
Zhang, Shu Shun The theorem of the stability of linear nonautonomous systems under the frequently-acting perturbation and its application in the stability analysis of robot. (Chinese. English summary) **93e:34070**

Items listed otherwise than by author

Bremen ★ Control of uncertain systems. **93i:93006**
Control of uncertain systems ★ Control of uncertain systems. **93i:93006**
Lecture Notes in Control and Information Sciences ★ Robust control. **93f:93006**
Robust control ★ Robust control. **93f:93006**
Robust control system techniques and applications ★ Robust control system techniques and applications. Part 1. **93d:93007**
— ★ Robust control system techniques and applications. Part 2. **93d:93008**
Tokyo ★ Robust control. **93f:93006**
Workshop:
Control of Uncertain Systems ★ Control of uncertain systems. **93i:93006**
Robust Control ★ Robust control. **93f:93006**

93D10 Popov-type stability of feedback systems

Gerasimov, O. I. (*with* Yunger, I. B.) Frequency-algebraic analysis of the absolute stability of nonlinear automatic control systems. (Russian. Russian summary) **93h:93056**
Halanay, Aristide (*with* Ionescu, Vlad) Generalized discrete-time Popov-Yakubovich theory. (English summary) **93m:93081**
Ionescu, Vlad *see* **Halanay, Aristide, 93m:93081**
Pyatnitskii, E. S. (*with* Rapoport, L. B.) Periodic motions and criteria for absolute stability of nonlinear time-dependent systems. (Russian) **93b:93094**
Rapoport, L. B. *see* **Pyatnitskii, E. S., 93b:93094**
Yunger, I. B. *see* **Gerasimov, O. I., 93h:93056**

Items with secondary classifications in 93D10

Kokame, Hideki *see* **Nishimura, Tsuyoshi; et al.**
Kuroe, Yasuaki *see* **Nishimura, Tsuyoshi; et al.**
Mori, Takehiro *see* **Nishimura, Tsuyoshi; et al.**
Nishimura, Tsuyoshi (*with* Mori, Takehiro; Kuroe, Yasuaki; Kokame, Hideki) On application of Popov's theorem for Lur'e systems with interval plants. (Japanese. English summary)
Skorodinskii, V. I. Iterative methods for testing frequency criteria for the absolute stability of continuous control systems. II. (Russian) **93g:93060**

93D15 Stabilization of systems by feedback

(Al-Fuhaid, A. S.) *see* **Liu, Xiao Ping²**
Anderson, Brian D. O. *see* **Helmke, Uwe, 93g:93071**
d'Andréa-Novel, B. (*with* Boustany, F.; Conrad, Francis) Control of an overhead crane: stabilization of flexibilities. (*see* **93b:49001**)
Arkun, Yaman (*with* Calvet, Jean-Paul) Robust stabilization of input/output linearizable systems under uncertainty and disturbances. (English summary)
Asakura, Toshiyuki (*with* Xu, B.) A method to stabilization of nonlinear systems with time lag (the application to electropneumatic valve positioner). (English summary) (*see* **93g:93006**)
Bacciotti, Andrea (*with* Boieri, Paolo) Stabilizability of oscillatory systems: a classical approach supported by symbolic computation. **93b:93095**
(Bahnasawi, Ahmed A.) *see* **Liu, Xiao Ping²**
Barabanov, A. E. (*with* Sokolov, Andreĭ Arianovich) Optimal stabilization of a linear discrete object with irregular interference in the object and in the measurements. (Russian. English, Russian and Ukrainian summaries) **93g:93070**
Benson, R. W. *see* **Jabbari, Faryar, 93b:93098**
Bernussou, J. *see* **Dias Peres, Pedro Luis; et al.**
Bhat, M. Seetharama *see* **Pradhan, Satyabrata, (93g:93003)**
Bittanti, Sergio (*with* Bolzern, P.; De Nicolao, Giuseppe) Comments on: "Stabilizability and detectability of discrete-time time-varying systems" [IEEE Trans. Automat. Control **35** (1990), no. 4, 425–429] by J. C. Engwerda. (English summary)
Bloch, Anthony M. (*with* Krishnaprasad, P. S.; Marsden, Jerrold Eldon; Sánchez de Alvarez, G.) Stabilization of rigid body dynamics by internal and external torques.
— (*with* Reyhanoglu, Mahmut; McClamroch, N. Harris) Control and stabilization of nonholonomic dynamic systems. (English summary) **93j:93123**
Blondel, Vincent *see* **Zhang, Cishen, 93m:93086**
Boieri, Paolo *see* **Bacciotti, Anc ea, 93b:93095**
Bolzern, P. *see* **Bittanti, Sergio; et al.**
Bontsema, Jan (*with* Curtain, Ruth F.) Robust stabilization of a flexible beam model using a normalized coprime factorization approach. (English summary) **93m:93082**
— (*with* Curtain, Ruth F.; Kuiper, C. R.; Osinga, H. M.) Comparison of robustly stabilizing controllers for a flexible beam model with additive, multiplicative and stable factor perturbations. (English summary) (*see* **93i:93005**)
Borovik, P. P. *see* **Gaishun, I. V., 93f:93112**

Boustany, F. *see* **d'Andréa-Novel, B.; et al., (93b:49001)**
Brave, Yitzhak (*with* Heymann, Michael) On optimal attraction in discrete-event processes. (English summary) **93j:93124**
Brogliato, Bernard *see* **Lozano Leal, Rogelio; et al., 93i:93107**
Bromberg, Shirley (*with* Suárez, R.) Stabilization of two-dimensional C^k control systems. (English summary) **93m:93083**
Burns, John A. (*with* Kang, Sungkwon) A stabilization problem for Burgers' equation with unbounded control and observation. **93a:93091**
Calvet, Jean-Paul *see* **Arkun, Yaman**
Chabour, Rachid (*with* Ferfera, Abdelhak) Noninteracting control and disturbance decoupling with singularity for two-dimensional bilinear systems. **93f:93110**
Chen, Ben M. (*with* Saberi, Ali; Sannuti, Peddapullaiah) On blocking zeros and strong stabilizability of linear multivariable systems. (English summary) **93f:93111**
Chen, Lung-Kee *see* **Yang, Xue Shan, 93k:93099**
Ch'ên, Po Hsien *see* **Lin, Chûn Liang, 93k:93095**
Cheng, Dai Zhan State feedback stabilization of plane systems. (English summary) **93e:93049**
Cheng, Mian *see* **Jia, Ying Min; et al., 93g:93074** *and* **Song, Yong Duan; et al.**
Chung, S.-T. (*with* Grizzle, J. W.) Internally exponentially stable nonlinear discrete-time noninteracting control via static feedback. **93b:93096**
Conrad, Francis (*with* Leblond, Juliette; Marmorat, Jean-Paul) Energy decay estimates for a beam with nonlinear boundary feedback. (English summary) (*see* **93c:93006**)
— (*with* Pierre, Michel) Stabilisation de problèmes d'évolution du second ordre par des feedbacks non linéaires et non bornés. (English and French summaries) [Stabilization of second-order evolution equations by unbounded nonlinear feedback] **93j:93125**
— *see also* **d'Andréa-Novel, B.; et al., (93b:49001)**
Coron, Jean-Michel Global asymptotic stabilization for controllable systems without drift. **93m:93084**
Curtain, Ruth F. *see* **Bontsema, Jan, 93m:93082** *and* **(93i:93005)**
Datko, R. Two examples of ill-posedness with respect to small time delays in stabilized elastic systems. (English summary) **93k:93093**
De Nicolao, Giuseppe *see* **Bittanti, Sergio; et al.**
Dias Peres, Pedro Luis (*with* Geromel, J. C.; Bernussou, J.) Quadratic stabilizability of linear uncertain systems in convex-bounded domains. (English summary)
Dion, Jean Michel *see* **Trofino-Neto, Alexandre; et al., 93i:93109**
Diong, B. M. (*with* Medanić, J. V.) Dynamic output feedback variable structure control for system stabilization. (English summary) **93d:93069**
Domoshnitskiĭ, A. I. *see* **Gavrilov, A. V.; et al., 93h:93058**
Drăgan, Vasile Optimal stabilizing compensator for linear systems under white noise perturbations. (English summary) **93j:93126**
— (*with* Morozan, Toader; Halanay, Aristide) Optimal stabilizing compensator for linear systems with state-dependent noise. (English summary) **93j:93127**
Dugard, Luc *see* **Trofino-Neto, Alexandre; et al., 93i:93109**
Emel'yanov, S. V. (*with* Zhivoglyadov, P. V.; Korovin, S. K.) A method for stabilizing discrete objects with compact uncertainty. (Russian) **93c:93044**
(Engwerda, Jacob C.) *see* **Bittanti, Sergio; et al.**
Ermekkaliev, K. Sh. Incomplete feedback control in a stabilization problem. (Russian) (*see* **93m:00028**)
Ershov, A. V. *see* **Gavrilov, A. V.; et al., 93h:93058**
Esfandiari, Farzad (*with* Khalil, Hassan K.) Output feedback stabilization of fully linearizable systems. (English summary) **93h:93057**
Feng, Chun Bo *see* **Wu, Yu Qiang**
Ferfera, Abdelhak *see* **Chabour, Rachid, 93f:93110**
Freeman, R. A. (*with* Kokotović, P. V.) Design and comparison of globally stabilizing controllers for an uncertain nonlinear system. (*see* **93a:93006**)
Friedland, Bernard (*with* Park, Young-Jin) On adaptive friction compensation. (English summary)
Furuta, Katsuhisa *see* **Phoojaruenchanachai, Suthee, 93j:93130**
Gaĭshun, I. V. (*with* Borovik, P. P.) Stabilization of two-parametric differential-difference systems. (Russian. English and Russian summaries) **93f:93112**
Gao, Wei Bing *see* **Jia, Ying Min; et al., 93g:93074** *and* **Song, Yong Duan; et al.**
Gavrilov, A. V. (*with* Domoshnitskiĭ, A. I.; Ershov, A. V.; Moshchenkov, I. A.; Sheina, M. V.) On an automatic control problem. (Russian. Russian summary) **93h:93058**
Geromel, J. C. *see* **Dias Peres, Pedro Luis; et al.**
Gnedin, A. V. Stabilization of Euler-Bernoulli beam by a boundary control. (English summary) **93j:93128**
Godunov, S. K. Norms of solutions to the Lourie-Riccati matrix equations as criteria of the quality of stabilizability and detectability. (English summary) **93k:93094**
Goodall, D. P. Stabilization of nonlinearly coupled uncertain systems. (*see* **93h:93007**)
Grizzle, J. W. *see* **Chung, S.-T., 93b:93096**
Gurov, I. R. *see* **Ohta, Yuzo; et al., 93h:93064**
Hakomori, K. *see* **Yoshii, K.**
Halanay, Aristide (*with* Morozan, Toader) Discrete-time stabilizing compensators for continuous-time systems with state dependent noise. **93j:93129**
— *see also* **Drăgan, Vasile; et al., 93j:93127**
Han, Zheng Zhi (*with* Pan, Dan Jie) Dynamic compensating stabilization of nonlinear systems. (Chinese. English and Chinese summaries)
Haneda, H. *see* **Ohta, Yuzo; et al., 93h:93064**
Hannsgen, Kenneth B. (*with* Wheeler, Robert L.) A representation formula for one-dimensional viscoelasticity with stabilizing boundary feedback. **93f:93113**
Helmke, Uwe (*with* Anderson, Brian D. O.) Hermitian pencils and output feedback stabilization of scalar systems. (English summary) **93g:93071**
Hermes, Henry Stabilization via optimization. **93a:93092**
Hersh, M. A. Adaptive algorithms for the simultaneous stabilization and decoupling of time-varying multivariable systems. (English summary) **93d:93070**
Heymann, Michael *see* **Brave, Yitzhak, 93j:93124**
Hill, David J. A generalization of the small-gain theorem for nonlinear feedback systems. **93f:93114**
Hmamed, A. *see* **Tissir, E., 93e:93053**
Horowitz, Roberto *see* **Paice, A. D. B.; et al., 93d:93072**
Huang, Jie (*with* Rugh, Wilson J.) Stabilization on zero-error manifolds and the nonlinear servomechanism problem. **93g:93072**
Ichikawa, K. (*with* Ortega, Romeo) On stabilization of nonlinear systems with enlarged domain of attraction. **93b:93097**
Iggidr, A. (*with* Vivalda, J.-C.) Global stabilization of homogeneous polynomial systems in $\mathbf{R}^n$. **93g:93073**
Ikeda, Masao *see* **Tan, Xiang-Ling; et al.**
Jabbari, Faryar (*with* Benson, R. W.) Observers for stabilization of systems with matched uncertainty. **93b:93098**
— (*with* Schmitendorf, W. E.) Effects of using observers on stabilization of uncertain linear systems. (English summary)
Jia, Ying Min (*with* Gao, Wei Bing; Cheng, Mian) Robust strict positive real stabilization criteria for SISO uncertain systems. (English summary) **93g:93074**
Kang, Sungkwon *see* **Burns, John A., 93a:93091**
Keerthi, S. Sathiya *see* **Phatak, Makarand S., 93f:93115**
Khalil, Hassan K. *see* **Esfandiari, Farzad, 93h:93057**
Kienitz, K. H. Stabilization of uncertain sampled-data systems. (English summary) **93i:93105**
Kipnis, M. M. Application of discrete convolution equations for testing the stability of periodic processes in pulse-width systems. (Russian. Russian summary)
Kokotović, P. V. *see* **Freeman, R. A., (93a:93006)**
Korovin, S. K. *see* **Emel'yanov, S. V.; et al., 93c:93044**
Krishnaprasad, P. S. *see* **Bloch, Anthony M.; et al.**
Kuiper, C. R. *see* **Bontsema, Jan; et al., (93i:93005)**
Lagnese, John E. Modelling and stabilization of nonlinear plates. **93e:93050**
Landau, I. D. *see* **Lozano Leal, Rogelio; et al., 93i:93107**
Lapin, S. V. Piecewise-constant stabilization of systems that are linear with respect to control. (Russian. Russian summary) **93g:93076**
Lasiecka, Irena (*with* Triggiani, Roberto) Uniform stabilization of the wave equation with Dirichlet-feedback control without geometrical conditions. (*see* **93c:93006**)
— Exponential stabilization, via Riccati operator, of hyperbolic systems with uncontrolled, unbounded perturbations. (*see* **93d:93006**)
— (*with* Triggiani, Roberto) Uniform stabilization of the wave equation with Dirichlet or Neumann feedback control without geometrical conditions. **93b:93099**
Leblond, Juliette *see* **Conrad, Francis; et al., (93c:93006)**
Li, Jen Hsing *see* **Li, Tzuu Hseng S., 93e:93051**
Li, Tzuu Hseng S. (*with* Li, Jen Hsing) Stabilization bound of discrete two-time-scale systems. **93e:93051**
Lin, Chûn Liang (*with* Ch'ên, Po Hsien) On the design of stabilizing controllers for singularly perturbed systems. (English summary) **93k:93095**
Liu, Chin Hsing Robustness of optimal nonlinear regulators under actuator and additive perturbations. (English summary) **93i:93106**
Liu, Xiao Ping[2] (*with* Zhang, Si Ying) Comments on: "Stabilization of interconnected uncertain discrete systems via decentralized control" [Inform. Decision Tech. **15** (1989), no. 3, 163–177] by A. A. Bahnasawi, A. S. Al-Fuhaid and M. S. Mahmoud.
Llanes-Santiago, Orestes *see* **Sira-Ramirez, Hebertt J.; et al.**
Louis, J.-Cl. (*with* Wexler, D.) The Hilbert space regulator problem and operator Riccati equation under stabilizability. (English summary) **93h:93059**
Lozano Leal, Rogelio (*with* Brogliato, Bernard; Landau, I. D.) Passivity and global stabilization of cascaded nonlinear systems. (English summary) **93i:93107**
Lu, Hung Ching Stabilization of time delay systems with saturating actuator frequency domain approach. (English summary) (*see* **93g:93004**)
Lun'kov, V. A. Preservation of stabilizability under difference approximation of linear systems. (Russian. Russian summary) (*see* **93m:00031**)
(Mahmoud, Magdi S.) *see* **Liu, Xiao Ping[2]**
Marino, Riccardo (*with* Tomei, Patrizio) Computer algebra for nonlinear output feedback stabilization. **93b:93100**
— (*with* Tomei, Patrizio) Global adaptive observers and output-feedback stabilization for a class of nonlinear systems. (English summary) **93h:93060**
Marmorat, Jean-Paul *see* **Conrad, Francis; et al., (93c:93006)**
Marro, Giovanni (*with* Piazzi, A.) Feedback systems stabilizability in terms of invariant zeros. **93h:93061**
Marsden, Jerrold Eldon *see* **Bloch, Anthony M.; et al.**
McClamroch, N. Harris *see* **Bloch, Anthony M.; et al., 93j:93123**
Medanić, J. V. *see* **Diong, B. M., 93d:93069** *and* **Veillette, R. J.; et al., (93i:93006)**
Meilakhs, A. M. Stabilization of nonlinear systems. (Russian. Russian summary) **93h:93062**
Moore, John Barratt *see* **Paice, A. D. B.; et al., 93d:93072**
Morgül, Ömer On the stabilization of the wave equation. (*see* **93i:93005**)
Morozan, Toader *see* **Drăgan, Vasile; et al., 93j:93127** *and* **Halanay, Aristide, 93j:93129**
Moshchenkov, I. A. *see* **Gavrilov, A. V.; et al., 93h:93058**
Nambu, Takao Continuous dependence of solutions to the Lyapunov equation relative to an elliptic differential operator of order 2. **93b:93101**
— Robustness of a feedback control scheme for one-dimensional diffusion equations: perturbation to the Sturm-Liouville operator. (English summary) **93h:93063**
Ohta, Yuzo (*with* Gurov, I. R.; Haneda, H.) Quadratic stabilization of uncertain Lur'e-Postnikov systems via linear state feedback. (English summary) **93h:93064**
Onishchenko, S. M. Rigid stabilization of nonlinear systems by the second Lyapunov method. (Russian. Russian summary) **93m:93085**
— Constrained monotonic stabilization of nonlinear systems by the direct Lyapunov method. (Russian. Russian summary)
Ortega, Romeo *see* **Ichikawa, K., 93b:93097**
Osinga, H. M. *see* **Bontsema, Jan; et al., (93i:93005)**
Ourada, N. (*with* Triggiani, Roberto) Uniform stabilization of the Euler-Bernoulli equation with feedback operator only in the Neumann boundary condition. **93d:93071**
Özgüler, A. Bülent *see* **Ünyelioğlu, Konur Alp, 93a:93094** *and* **93f:93116**
Paice, A. D. B. (*with* Moore, John Barratt; Horowitz, Roberto) Nonlinear feedback system stability via coprime factorization analysis. **93d:93072**
Pan, Dan Jie *see* **Han, Zheng Zhi**
Pandolfi, Luciano Dynamic stabilization of systems with input delays. **93k:93096**

Park, Young-Jin *see* **Friedland, Bernard**
Perkins, W. R. *see* **Veillette, R. J.; et al., (93i:93006)**
Phatak, Makarand S. (*with* Keerthi, S. Sathiya) A homotopy approach for stabilizing single-input systems with control structure constraints. (English summary) **93f:93115**
Phoojaruenchanachai, Suthee (*with* Furuta, Katsuhisa) Memoryless stabilization of uncertain linear systems including time-varying state delays. **93j:93130**
Piazzi, A. *see* **Marro, Giovanni, 93h:93061**
Pierre, Michel *see* **Conrad, Francis, 93j:93125**
Polotskiĭ, V. N. Stabilization and control of the spectrum of mechanical systems with incomplete information about the state. (Russian. Russian summary) (*see* **93m:93005**)
Pradhan, Satyabrata (*with* Bhat, M. Seetharama) On the stabilizable dynamic output feedback controller. (English summary) (*see* **93g:93003**)
Puta, Mircea A new proof of a theorem due to Aeyels and Szafranski. (English summary) **93k:93097**
Reyhanoglu, Mahmut *see* **Bloch, Anthony M.; et al., 93j:93123**
Rosen, I. G. (*with* Wang, Chunming) On stabilizability and sampling for infinite-dimensional systems. (English summary) **93g:93077**
Rugh, Wilson J. *see* **Huang, Jie, 93g:93072**
Ryan, Eugene P. Discontinuous feedback and universal adaptive stabilization. (English summary) **93i:93108**
Saberi, Ali *see* **Chen, Ben M.; et al., 93f:93111**
Sallet, Gauthier *see* **Xu, Cheng-Zhong, (93i:93005)**
Samba, S. (*with* Vivalda, J.-C.) Global stabilization of a class of quadratic systems. (English summary) **93h:93065**
Sánchez de Alvarez, G. *see* **Bloch, Anthony M.; et al.**
Sannuti, Peddapullaiah *see* **Chen, Ben M.; et al., 93f:93111**
Schmitendorf, W. E. *see* **Jabbari, Faryar**
de la Sen, Manuel Relations between the stabilization properties of two classes of hereditary linear systems with commensurate delays. (English summary) **93h:93066**
Serakos, Demetrios Stability in feedback systems with tapered and other special input spaces. (English summary) **93e:93052**
Sezer, M. Erol *see* **Yu, Run Yi, 93j:93131**
Sheina, M. V. *see* **Gavrilov, A. V.; et al., 93h:93058**
Shi, Song Jiao *see* **Wang, Li Quan; et al., 93h:93068**
Šiljak, Dragoslav D. *see* **Tan, Xiang-Ling; et al.**
Sira-Ramirez, Hebertt J. (*with* Tarantino-Alvarado, Rocco; Llanes-Santiago, Orestes) Adaptive feedback stabilization in PWM-controlled DC-to-DC power supplies. (English summary)
Sokolov, Andrei Arianovich *see* **Barabanov, A. E., 93g:93070**
Song, Yong Duan (*with* Gao, Wei Bing; Cheng, Mian) Asymptotically stabilizing strategy for a class of disturbed-uncertain linear systems. (English and Polish summaries)
de Souza, Carlos E. *see* **Xie, Lihua, (93g:93005)**
Suárez, R. *see* **Bromberg, Shirley, 93m:93083**
Tan, M. H. *see* **Tay, T. T.**
Tan, Xiang-Ling (*with* Šiljak, Dragoslav D.; Ikeda, Masao) Reliable stabilization via factorization methods. (English summary)
Tarantino-Alvarado, Rocco *see* **Sira-Ramirez, Hebertt J.; et al.**
Tay, T. T. (*with* Tan, M. H.) A robust adaptive performance enhancement controller using set membership identification. (English summary)
Teel, Andrew R. Global stabilization and restricted tracking for multiple integrators with bounded controls. **93a:93093**
— Semi-global stabilization of minimum phase nonlinear systems in special normal forms. (English summary) **93d:93073**
Tertychnyi, V. Yu. Design of an adaptive system for the stabilization of nonlinear dynamical objects using integral transformations. (Russian. Russian summary) **93d:93074**
Timofeev, A. V. *see* **Zotov, Yu. K., 93d:93076**
Tissir, E. (*with* Hmamed, A.) Further results on the stabilization of time delay systems containing saturating actuators. **93e:93053**
Tomei, Patrizio *see* **Marino, Riccardo, 93b:93100** *and* **93h:93060**
Tornambè, Antonio Feedback stabilization of nonlinear time lag systems. (English summary) (*see* **93h:93007**)
— (*with* Valigi, Paolo) A decentralized controller for the robust stabilization of a class of MIMO linear systems. (English summary) **93g:93075**
— Output feedback stabilization of a class of nonminimum phase nonlinear systems. (English summary) **93h:93067**
Triggiani, Roberto *see* **Lasiecka, Irena, 93b:93099; Ourada, N., 93d:93071** *and* **Lasiecka, Irena, (93c:93006)**
Trigub, M. V. Suboptimal stabilization of a range of nonlinear systems. (*see* **93e:90003**)
Trofino-Neto, Alexandre (*with* Dion, Jean Michel; Dugard, Luc) On the robustness of LQ regulators for discrete-time systems. (English summary) **93i:93109**
Tsinias, John A local stabilization theorem for interconnected systems. **93d:93075**
— An extension of Artstein's theorem on stabilization by using ordinary feedback integrators. (English summary) **93k:93098**
Ünyelioğlu, Konur Alp (*with* Özgüler, A. Bülent) Reliable decentralized stabilization of feedforward and feedback interconnected systems. (English summary) **93f:93116**
— (*with* Özgüler, A. Bülent) Decentralized stabilization: characterization of all solutions and genericity aspects. **93a:93094**
Valigi, Paolo *see* **Tornambè, Antonio, 93g:93075**
Veillette, R. J. (*with* Medanić, J. V.; Perkins, W. R.) Robust stabilization and disturbance rejection for uncertain systems by decentralized control. (English summary) (*see* **93i:93006**)
Vivalda, J.-C. *see* **Iggidr, A., 93g:93073** *and* **Samba, S., 93h:93065**
Wang, Chunming *see* **Rosen, I. G., 93g:93077**
Wang, Li Quan (*with* Shi, Song Jiao; Zhang, Zhong Jun) Stabilization of decentralized control—a parametrization approach. (Chinese. English and Chinese summaries) **93h:93068**
Wang, Qing Guo Decoupling with internal stability for unity output feedback systems. **93f:93117**
Wei, Ke Hui The solution of a transcendental problem and its applications in simultaneous stabilization problems. (English summary) **93h:93069**
Wexler, D. *see* **Louis, J.-Cl., 93h:93059**
Wheeler, Robert L. *see* **Hannsgen, Kenneth B., 93f:93113**
Wu, Yu Qiang (*with* Feng, Chun Bo) Robust stabilization of two-parameter compensators for systems with uncertain structure. (Chinese. English and Chinese summaries)
Xie, Lihua (*with* de Souza, Carlos E.) Quadratic stabilization and H_∞ control of linear uncertain periodic systems. (English summary) (*see* **93g:93005**)
Xu, B. *see* **Asakura, Toshiyuki, (93g:93006)**
Xu, Cheng-Zhong (*with* Sallet, Gauthier) Boundary stabilization of rotating flexible systems. (English summary) (*see* **93i:93005**)
Xu, Pu Quan (*with* Xu, Xin He) Stabilization and pole placement for linear discrete event dynamic systems. (Chinese. English and Chinese summaries)
Xu, Xin He *see* **Xu, Pu Quan**
Yamamoto, Masahiro Feedback stabilization for nondissipative hyperbolic equations. **93b:93102**
Yang, Xiao Jing Local stabilization of nonlinear systems. (Chinese. English and Chinese summaries)
Yang, Xue Shan (*with* Chen, Lung-Kee) Stability of discrete bilinear systems with time-delayed feedback functions. (English summary) **93k:93099**
Ydstie, B. Erik Stability of the direct self-tuning regulator. (English summary) **93g:93078**
Yoshii, K. (*with* Hakomori, K.) Feedback stabilization of linear diffusion systems with periodically scanning sensors.
You, Yun Cheng Pointwise boundary stabilizability of hyperbolic evolution equations: two-dimensional hybrid elastic structures. **93a:93095**
Yu, Run Yi (*with* Sezer, M. Erol) Decentralized stabilization of interconnected systems. Structural conditions. (English summary) **93j:93131**
Zhang, Cishen (*with* Blondel, Vincent) Simultaneous stabilization using an LTI compensator with a sampler and hold. (English summary) **93m:93086**
Zhang, Si Ying *see* **Liu, Xiao Ping²**
Zhang, Zhong Jun *see* **Wang, Li Quan; et al., 93h:93068**
Zhivoglyadov, P. V. *see* **Emel'yanov, S. V.; et al., 93c:93044**
Zotov, Yu. K. (*with* Timofeev, A. V.) Stabilization of program motions with specified quality indices in reversible controlled systems. (Russian. English summary) **93d:93076**
Zwart, H. J. Open loop stabilizability of the undamped beam equation. (English summary) (*see* **93g:93005**)

Items with secondary classifications in 93D15

Aeyels, Dirk On stabilization by means of the energy-Casimir method. (English summary) **93f:70029**
Ailon, Amit Disturbance decoupling with stability and impulse-free response in singular systems. (English summary) **93g:93041**
Banks, H. T. (*with* Ito, Kazufumi; Wang, Chunming) Exponentially stable approximations of weakly damped wave equations. **93f:35132**
Barabanov, A. T. Routh's method in the theory of systems. I. Generalization of Routh's problem in problems in the theory of systems. (Russian) **93b:93076**
Barkwell, Lawrence (*with* Lancaster, Peter; Markus, Alexander S.) Gyroscopically stabilized systems: a class of quadratic eigenvalue problems with real spectrum. **93a:47015**
Bartolomeo, Jerry (*with* Lasiecka, Irena; Triggiani, Roberto) Uniform exponential energy decay of Euler-Bernoulli equations by suitable boundary feedback operators. (Italian summary) **93d:93046**
Bastin, G. *see* **Praly, L.; et al., 93j:93135**
Battilotti, Stefano Necessary conditions for nonlinear block noninteracting control with stability via dynamic state-feedback. (English summary) **93j:93056**
Behtash, S. *see* **Shahruz, S. M., 93g:93044**
Bentsman, Joseph *see* **Lehman, Brad, 93k:93059**
Bernstein, Dennis S. *see* **Haddad, Wassim M., 93b:93103** *and* **Halevi, Yoram; et al.**
Bowers, Kenneth L. *see* **Lund, John; et al., 93b:65144**
Bradley, M. E. Uniform stabilization of a nonlinearly perturbed Kirchoff plate. **93b:35043**
Bryant, G. F. *see* **Yeung, L. F., 93i:93061**
Burgat, C. *see* **Tarbouriech, S.**
Campion, Guy *see* **Schwartz, Carla A., 93a:93061**
Canudas de Wit, Carlos (*with* Sørdalen, O. J.) Exponential stabilization of mobile robots with nonholonomic constraints. (English summary) **93i:93086**
Carlson, Timothy S. *see* **Lund, John; et al., 93b:65144**
Chen, Ben M. (*with* Saberi, Ali; Sannuti, Peddapullaiah) Necessary and sufficient conditions for a non-minimum phase plant to have a recoverable target loop—a stable compensator design for LTR. **93d:93040**
Chen, Chin Shaw *see* **Wang, Wèn Chūn; et al., 93b:93058**
Chen, Fu Chuang (*with* Khalil, Hassan K.) Adaptive control of nonlinear systems using neural networks. **93f:93074**
Chen, Shu Ping Necessary and sufficient conditions for the existence of positive solutions to algebraic Riccati equations with indefinite quadratic term. **93c:93023**
Colaneri, P. (*with* Scattolini, Riccardo; Schiavoni, Nicola) Stabilization and regulation of multirate sampled-data systems. (English summary) (*see* **93g:93005**)
Colonius, Fritz (*with* Kliemann, Wolfgang) Minimal and maximal Lyapunov exponents of bilinear control systems. (English summary) **93j:93096**
Conrad, Francis (*with* Leblond, Juliette; Marmorat, Jean-Paul) Boundary control and stabilization of the one-dimensional wave equation. **93e:93005**
Corless, Martin Simple adaptive controllers for systems which are stabilizable via high gain feedback. **93b:93060**
— (*with* Leitmann, George) Bounded controllers for robust exponential convergence. (English summary) **93k:93101**
Corrêa, Gilberto Oliveira *see* **da Silveira, Marcos Azevedo, 93a:93045**
Cox, Christopher L. (*with* Moss, William F.) Backward error analysis for a pole assignment algorithm. II. The complex case. (English summary) **93i:93062**
Curtain, Ruth F. The strict bounded real lemma in infinite dimensions. (English summary) **93k:93037**
Dahleh, Munther A. (*with* Ohta, Yoshito) L^1 sensitivity minimization for plants with commensurate delays. **93d:93027**
— (*with* Shamma, Jeff S.) Rejection of persistent bounded disturbances: nonlinear controllers. **93g:93047**

Dale, Wilbur N. (*with* Smith, Malcolm Clive) A note on eventually time-invariant systems. **93a:93058**

Delyon, Bernard (*with* Yuditskiĭ, A. B.) Stable adaptive control for a plant with randomly varying parameters. (English summary) **93i:93073**

De Mari, Filippo (*with* Ober, Raimund) Topological aspects of robust control. (English summary) **93i:93095**

De Nicolao, Giuseppe Cyclomonotonicity and stabilizability properties of solutions of the difference periodic Riccati equation. (English summary) **93i:93121**

Dion, Jean Michel *see* **Trofino-Neto, Alexandre; et al., 93j:93119**

Dorato, P. (*with* Fortuna, L.; Muscato, G.) ★ Robust control for unstructured perturbations—an introduction. **93h:93002**

Dugard, Luc *see* **Trofino-Neto, Alexandre; et al., 93j:93119**

Fortuna, L. *see* **Dorato, P.; et al., 93h:93002**

Fujii, Takao *see* **Tsujino, Taro; et al., 93m:93016**

Georgiou, Tryphon T. (*with* Smith, Malcolm Clive) Robust stabilization in the gap metric. (English summary) **93i:93110**

Goh, C. J. On the nonlinear optimal regulator problem. (English summary)

Gukasyan, A. A. On the optimal stabilization of the motions of a manipulator with electromechanical drives. (Russian. Russian summary)

Habets, L. C. G. J. M. ★ Stabilization of time-delay systems: an overview of the algebraic approach. **93j:93006**

Haddad, Wassim M. (*with* Bernstein, Dennis S.) Robust stabilization with positive real uncertainty: beyond the small gain theorem. **93b:93103**

— *see also* **Halevi, Yoram; et al.**

Halanay, Aristide (*with* Morozan, Toader) Optimal stabilizing compensator for linear discrete-time systems under independent random perturbations. **93f:93140**

Halevi, Yoram (*with* Bernstein, Dennis S.; Haddad, Wassim M.) On stable full-order and reduced-order LQG controllers. (English summary)

Han, Zheng Zhi (*with* Pan, Dan Jie) The Yokoyama form and the largest linearizable subsystems of nonlinear control systems. (Chinese. English and Chinese summaries) **93e:93040**

Hara, Shinji (*with* Sugie, Toshiharu; Kondō, Ryōji) H_∞ control problem with $j\omega$-axis zeros. **93b:93033**

Henríquez, Hernán R. Finite-dimensional compensators for linear distributed control systems with delays in outputs. (English summary) **93i:93070**

Hill, David J. *see* **Wen, Changyun, 93j:93082**

(Hinrichsen, Diederich) *see* **Control of uncertain systems, 93i:93006**

Honma, Toshihiro *see* **Okada, Tsuyoshi; et al., (93d:93007)**

Howitt, George D. (*with* Luus, Rein) Control of a collection of linear systems by linear state feedback control. (English summary) **93m:93042**

Huang, Hsiao Ping (*with* Wang, Gow Bin) Deadtime compensation for nonlinear processes with disturbances. (English summary)

(Huang, Jie) *see* **Rugh, Wilson J., 93h:93052**

Ikeda, Masakazu *see* **Okada, Tsuyoshi; et al., (93d:93007)**

Ilchmann, Achim (*with* Townley, Stuart) Simple adaptive stabilization of high-gain stabilizable systems. (English summary) **93k:93102**

Inaba, Hiroshi *see* **Otsuka, Naohisa; et al., (93i:93005)**

Ionescu, Vlad (*with* Weiss, Martin) On computing the stabilizing solution of the discrete-time Riccati equation. (English summary) **93h:93025**

— (*with* Weiss, Martin) Two-Riccati formulae for the discrete-time H^∞-control problem. (English summary) **93k:93040**

(Isidori, Alberto) *see* **Systems, models and feedback: theory and applications, 93a:93006**

Ito, Kazufumi *see* **Banks, H. T.; et al., 93f:35132**

Jiang, Z. P. *see* **Praly, L.; et al., 93j:93135**

Kabziński, Jacek Optimal control for stabilization of nonlinear systems. (English summary) (*see* **93e:90003**)

Kanellakopoulos, I. (*with* Kokotović, P. V.; Morse, A. Stephen) Adaptive output-feedback control of systems with output nonlinearities. (English summary) **93m:93037**

— (*with* Kokotović, P. V.; Morse, A. Stephen) A toolkit for nonlinear feedback design. **93g:93042**

Kao, Chien Chung *see* **Wang, Wēn Chūn; et al., 93b:93058**

Khalil, Hassan K. *see* **Chen, Fu Chuang, 93f:93074**

Kihara, Masahiko *see* **Okada, Tsuyoshi; et al., (93d:93007)**

Kim, Seungnam (*with* Meerkov, S. M.; Runolfsson, T.) Aiming control: residence probability and (D, T)-stability. **93e:93056**

— (*with* Meerkov, S. M.; Runolfsson, T.) Aiming control: design of residence probability controllers. **93e:93057**

Kiriakidis, K. I. *see* **Krikelis, N. J., 93k:93049**

Kliemann, Wolfgang *see* **Colonius, Fritz, 93j:93096**

Kojima, Akira (*with* Uchida, Kenko; Shimemura, Etsujiro) Robust stabilization of uncertain time delay systems via combined internal-external approach. (English summary) **93j:93134**

Kokotović, P. V. *see* **Kanellakopoulos, I.; et al., 93g:93042** *and* **93m:93037**

Komornik, Vilmos Stabilisation non linéaire de l'équation des ondes et d'un modèle de plaque. (English summary) [Nonlinear stabilization of the wave equation and of a plate model] **93f:35025**

Kondō, Ryōji *see* **Hara, Shinji; et al., 93b:93033**

Krener, Arthur J. The construction of optimal linear and nonlinear regulators. **93c:93028**

Krikelis, N. J. (*with* Kiriakidis, K. I.) Optimal feedback control of nonlinear systems. (English summary) **93k:93049**

Krut'ko, P. D. Asymptotic properties of control systems that are optimal with respect to quadratic functionals. (Russian) **93j:49037**

Lancaster, Peter *see* **Barkwell, Lawrence; et al., 93a:47015**

Lasiecka, Irena (*with* Triggiani, Roberto) Exact controllability and uniform stabilization of Kirchhoff plates with boundary control only on $\Delta w|_\Sigma$ and homogeneous boundary displacement. **93e:93006**

— Finite-dimensional compensator for flexible structures. (*see* **93b:49001**)

— (*with* Triggiani, Roberto) Optimal regularity, exact controllability and uniform stabilization of Schrödinger equations with Dirichlet control. **93d:93048**

— (*with* Tătaru, Daniel) Uniform boundary stabilization of semilinear wave equation with nonlinear boundary damping. (English summary) **93k:93056**

— *see also* **Bartolomeo, Jerry; et al., 93d:93046**

Leblond, Juliette *see* **Conrad, Francis; et al., 93e:93005**

Lehman, Brad (*with* Bentsman, Joseph) Vibrational control of linear time lag systems with arbitrarily large but bounded delays. (English summary) **93k:93059**

Leitmann, George *see* **Corless, Martin, 93k:93101**

Leugering, G. On control and stabilization of a rotating beam by applying moments at the base only. (English summary) (*see* **93b:49002**)

Lin, Wei[2] (*with* Yong, Jiong Min) Direct adaptive control of a class of MIMO nonlinear systems. (English summary) **93j:93078**

Linnemann, Arno (*with* Wang, Qing Guo) Block decoupling with stability by unity output feedback—solution and performance limitations. (English summary) **93m:93025**

Littman, Walter Remarks on boundary control for polyhedral domains and related results. (*see* **93b:49001**)

Liu, Xinzhi Practical stabilization of control systems with impulse effects. **93c:34031**

Lund, John (*with* Bowers, Kenneth L.; Carlson, Timothy S.) Fully sinc-Galerkin computation for boundary feedback stabilization. **93b:65144**

Luus, Rein *see* **Howitt, George D., 93m:93042**

Mäkilä, Pertti M. (*with* Partington, Jonathan R.) Robust identification of strongly stabilizable systems. (English summary) **93k:93032**

Markus, Alexander S. *see* **Barkwell, Lawrence; et al., 93a:47015**

Marmorat, Jean-Paul *see* **Conrad, Francis; et al., 93e:93005**

(Mårtensson, Bengt) *see* **Control of uncertain systems, 93i:93006**

Meerkov, S. M. *see* **Kim, Seungnam; et al., 93e:93056** *and* **93e:93057**

Mirkin, B. M. Proportional-integral-lagging adaptation algorithms. (Russian. English, Russian and Ukrainian summaries) **93i:93075**

Moore, John Barratt (*with* Tay, T. T.) Adaptive control within the class of stabilizing controllers for a time varying nominal plant. (English summary) (*see* **93j:93007**)

Morozan, Toader Discrete-time Riccati equations connected with quadratic control for linear systems with independent random perturbations. **93f:93143**

— *see also* **Halanay, Aristide, 93f:93140**

Morris, K. A. The well-posedness of accelerometer control systems. (English summary) (*see* **93i:93005**)

Morse, A. Stephen Towards a unified theory of parameter adaptive control. II. Certainty equivalence and implicit tuning. **93a:93067a**

— Correction to: "Towards a unified theory of parameter adaptive control. II. Certainty equivalence and implicit tuning". **93a:93067b**

— *see also* **Kanellakopoulos, I.; et al., 93g:93042** *and* **93m:93037**

Moss, William F. *see* **Cox, Christopher L., 93i:93062**

Mote, C. D., Jr. *see* **Yang, B., (93e:73030)**

Muscato, G. *see* **Dorato, P.; et al., 93h:93002**

Nikitin, S. V. (*with* Prätzel-Wolters, D.) Multiparameter polynomial adaptive stabilizers. **93c:93054**

Ober, Raimund *see* **De Mari, Filippo, 93i:93095**

Ohta, Yoshito *see* **Dahleh, Munther A., 93d:93027**

Okada, Tsuyoshi (*with* Kihara, Masahiko; Ikeda, Masakazu; Honma, Toshihiro) System observer techniques in robust control systems design synthesis. (*see* **93d:93007**)

Onishchenko, S. M. Design by the second method of Lyapunov of nonlinear systems of strict stabilization and observation under conditions of uncertainty. (Russian) **93c:93040**

Otsuka, Naohisa (*with* Inaba, Hiroshi; Toraichi, Kazuo) Simultaneous triangular-decoupling, disturbance-rejection and stabilization problem for infinite-dimensional systems. (English summary) (*see* **93i:93005**)

Owens, David H. *see* **Townley, Stuart, 93b:93064**

Pan, Dan Jie *see* **Han, Zheng Zhi, 93e:93040**

Partington, Jonathan R. *see* **Mäkilä, Pertti M., 93k:93032**

Pomet, J.-B. *see* **Praly, L.; et al., 93j:93135**

Praly, L. (*with* Bastin, G.; Pomet, J.-B.; Jiang, Z. P.) Adaptive stabilization of nonlinear systems. (English summary) **93j:93135**

Prätzel-Wolters, D. *see* **Nikitin, S. V., 93e:93054** *and* **Schmid, S., 93i:93011**

(Ruberti, Antonio) *see* **Systems, models and feedback: theory and applications, 93a:93006**

Rugh, Wilson J. Correction to: "Approximate noninteracting control with stability for nonlinear systems" [IEEE Trans. Automat. Control **36** (1991), no. 3, 295–304; MR 91k:93061] by J. Huang and Rugh. **93h:93052**

Runolfsson, T. *see* **Kim, Seungnam; et al., 93e:93056** *and* **93e:93057**

Saberi, Ali *see* **Chen, Ben M.; et al., 93d:93040**

Saeks, R. Output feedback invariants and complex breakpoints. (English summary) **93h:93031**

Sakai, Hideaki Generalized predictive self-tuning control for tracking a periodic reference signal. (English summary)

Sannuti, Peddapullaiah *see* **Chen, Ben M.; et al., 93d:93040**

Scattolini, Riccardo Multi-rate self-tuning predictive controller for multi-variable systems. (English summary)

— *see also* **Colaneri, P.; et al., (93g:93005)**

van der Schaft, A. J. L_2-gain analysis of nonlinear systems and nonlinear state feedback H_∞ control. **93e:93027**

Schiavoni, Nicola *see* **Colaneri, P.; et al., (93g:93005)**

Schmid, S. (*with* Prätzel-Wolters, D.) Synchronization through system interconnections. (English summary) **93i:93011**

Schwartz, Carla A. (*with* Campion, Guy) Zero dynamics—another oxymoron? Or en route to adaptive control of nonlinear systems. **93a:93061**

de la Sen, Manuel On the stabilizability, controllability and observability of linear hereditary systems with distributed commensurate delays. (English summary) **93m:93053**

Shahruz, S. M. (*with* Behtash, S.) Design of controllers for linear parameter-varying systems by the gain scheduling technique. **93g:93044**

Shamma, Jeff S. *see* **Dahleh, Munther A., 93g:93047**

Shimemura, Etsujiro *see* **Kojima, Akira; et al., 93j:93134**

Shyu, Kuo Kai (*with* Yan, Jun Juh) Robust stability of uncertain time-delay systems and its stabilization by variable structure control. (English summary) **93j:93118**

da Silveira, Marcos Azevedo (*with* Corrêa, Gilberto Oliveira) H_2-optimal control of linear systems with tracking/disturbance rejection constraints. **93a:93045**

Smith, Malcolm Clive *see* **Dale, Wilbur N., 93a:93058** *and* **Georgiou, Tryphon T., 93i:93110**
Sørdalen, O. J. *see* **Canudas de Wit, Carlos, 93i:93086**
Subrahmanyam, M. B. Optimal disturbance rejection and performance robustness in linear systems. **93a:93052**
Sugie, Toshiharu *see* **Hara, Shinji; et al., 93b:93033**
Tarbouriech, S. (*with* Burgat, C.) Class of globally stable saturated state feedback regulators. (English summary)
(Tarn, Tzyh Jong) *see* **Systems, models and feedback: theory and applications, 93a:93006**
Tătaru, Daniel *see* **Lasiecka, Irena, 93k:93056**
Tay, T. T. *see* **Moore, John Barratt, (93j:93007)**
Toraichi, Kazuo *see* **Otsuka, Naohisa; et al., (93i:93005)**
Townley, Stuart (*with* Owens, David H.) A note on the problem of multivariable adaptive tracking. **93b:93064**
— *see also* **Ilchmann, Achim, 93k:93102**
Triggiani, Roberto *see* **Bartolomeo, Jerry; et al., 93d:93046**; **Lasiecka, Irena, 93d:93048** *and* **93e:93006**
Trofino-Neto, Alexandre (*with* Dion, Jean Michel; Dugard, Luc) Robustness bounds for LQ regulators. (English summary) **93j:93119**
Tseng, H. Chris Error-feedback servomechanism in nonlinear systems. **93b:93046**
Tsinias, John On the existence of control Lyapunov functions: generalizations of Vidyasagar's theorem on nonlinear stabilization. **93c:93041**
Tsujino, Taro (*with* Fujii, Takao; Wei, Ke Hui) On the connection between controllability and stabilizability of linear systems with structural uncertain parameters. (English summary) **93m:93016**
Uchida, Kenko *see* **Kojima, Akira; et al., 93j:93134**
Wang, Chunming *see* **Banks, H. T.; et al., 93f:35132**
Wang, Gow Bin *see* **Huang, Hsiao Ping**
Wang, Qing Guo *see* **Linnemann, Arno, 93m:93025**
Wang, Wēn Chūn (*with* Kao, Chien Chung; Chen, Chin Shaw) Stabilization, estimation and robustness for large scale time-delay systems. **93b:93058**
Wei, Ke Hui *see* **Tsujino, Taro; et al., 93m:93016**
Weiss, Martin *see* **Ionescu, Vlad, 93h:93025** *and* **93k:93040**
Wen, Changyun (*with* Hill, David J.) Global boundedness of discrete-time adaptive control just using estimator projection. (English summary) **93j:93082**
Xiao, Shu Xian A dimension-reducing method for solving Lur'e's problem. (Chinese. English and Chinese summaries) **93k:93077**
Yan, Jun Juh *see* **Shyu, Kuo Kai, 93j:93118**
Yang, B. (*with* Mote, C. D., Jr.) Active vibration control of axially moving continua. (*see* **93e:73030**)
Yeung, L. F. (*with* Bryant, G. F.) The *L*-dominance concept and its applications to multivariable system designs. (English summary) **93i:93061**
Yong, Jiong Min *see* **Lin, Wei[2], 93j:93078**
Yuditskii, A. B. *see* **Delyon, Bernard, 93i:93073**
Zhu, Si Quan Perturbations of closed-loop systems in robust feedback stabilization. (English summary) **93i:93112**

Items listed otherwise than by author

Birthday:
Ruberti, Antonio ★ Systems, models and feedback: theory and applications. **93a:93006**
Bremen ★ Control of uncertain systems. **93i:93006**
Capri ★ Systems, models and feedback: theory and applications. **93a:93006**
Control of uncertain systems ★ Control of uncertain systems. **93i:93006**
Systems, models and feedback: theory and applications ★ Systems, models and feedback: theory and applications. **93a:93006**
Workshop:
Control of Uncertain Systems ★ Control of uncertain systems. **93i:93006**
Systems, Models and Feedback ★ Systems, models and feedback: theory and applications. **93a:93006**

93D20 Asymptotic stability

Colonius, Fritz (*with* Kliemann, Wolfgang) Lyapunov exponents of control flows. (English summary) **93f:93118**
Kliemann, Wolfgang *see* **Colonius, Fritz, 93f:93118**
Liu, De Rong (*with* Michel, Anthony N.) Asymptotic stability of systems operating on a closed hypercube. (English summary) **93k:93100**
Michel, Anthony N. *see* **Liu, De Rong, 93k:93100**
Pyatnitskii, E. S. (*with* Rapoport, L. B.) The existence of periodic motions and criteria for the absolute stability of nonlinear time-dependent systems in the three-dimensional case. (Russian) , **93a:93096**
Rapoport, L. B. *see* **Pyatnitskii, E. S., 93a:93096**

Items with secondary classifications in 93D20

Barmish, B. Ross (*with* Tempo, Roberto; Hollot, Christopher V.; Kang, H. I.) An extreme point result for robust stability of a diamond of polynomials. (English summary) **93j:93099**
Bloch, Anthony M. (*with* Reyhanoglu, Mahmut; McClamroch, N. Harris) Control and stabilization of nonholonomic dynamic systems. (English summary) **93j:93123**
Bodson, Marc *see* **Willner, Yosef; et al., 93g:93051**
Chen, Han Fu (*with* Zhang, Ji Feng) Adaptive regulation for deterministic systems. **93a:93066**
Chui, Charles K. (*with* Mhaskar, H. N.) On multivariate robust stability. (English summary) **93h:93053**
Hermes, Henry Stabilization via optimization. **93a:93092**
Hershkowitz, Daniel Recent directions in matrix stability. **93c:15001**
Heymann, Michael *see* **Willner, Yosef; et al., 93g:93051**
Hollot, Christopher V. *see* **Barmish, B. Ross; et al., 93j:93099**
Kang, H. I. *see* **Barmish, B. Ross; et al., 93j:93099**
Lin, J. Y. (*with* Mingori, D. L.) Linear-quadratic-Gaussian synthesis with reduced parameter sensitivity. (English summary) **93j:93054**
Liu, Jin Xian *see* **Tang, Gong You; et al., 93f:93119**
Liu, Yong Qing *see* **Tang, Gong You; et al., 93f:93119**
McClamroch, N. Harris *see* **Bloch, Anthony M.; et al., 93j:93123**
Mhaskar, H. N. *see* **Chui, Charles K., 93h:93053**
Miminis, George *see* **Yang, Xue Shan, 93c:93042**
Mingori, D. L. *see* **Lin, J. Y., 93j:93054**
Ovseevich, A. I. (*with* Reshetnyak, Yu. N.) The asymptotic behavior of ellipsoidal estimates of regions of attainability. I. (Russian. Russian summary) **93j:93008**
Reshetnyak, Yu. N. *see* **Ovseevich, A. I., 93j:93008**
Reyhanoglu, Mahmut *see* **Bloch, Anthony M.; et al., 93j:93123**
Soh, C. B. Stability margins of dynamic interval systems. **93a:93087**
Sparavalo, M. K. Stability and controllability of the motion of dynamical systems far from the equilibrium state. (Russian. Russian and Ukrainian summaries) **93i:93092**
Tang, Gong You (*with* Liu, Yong Qing; Liu, Jin Xian) Weighted vector norm form Lyapunov functions and their application in stability of large-scale discrete systems. (Polish summary) **93f:93119**
Tempo, Roberto *see* **Barmish, B. Ross; et al., 93j:93099**
Tsinias, John A local stabilization theorem for interconnected systems. **93d:93075**
Vieille, N. Weak approachability. (English summary) **93k:93076**
Willner, Yosef (*with* Heymann, Michael; Bodson, Marc) Parameter convergence and uniqueness in nonminimal parameterizations for multivariable adaptive control. **93g:93051**
Yang, Xue Shan (*with* Miminis, George) Stability of discrete deterministic and stochastic nonlinear systems. **93c:93042**
Zhang, Ji Feng *see* **Chen, Han Fu, 93a:93066**

93D21 Adaptive and robust stabilization

Barmish, B. Ross *see* **Saleh, Saad J.; et al., (93g:93005)**
Bartolini, G. (*with* Ferrara, A.) A direct adaptive pole assignment control scheme for non-necessarily stably invertible discrete-time plants. (English summary) (*see* **93i:93007**)
Bastin, G. *see* **Praly, L.; et al., 93j:93135**
Bernstein, Dennis S. *see* **Haddad, Wassim M., 93b:93103**
Brogliato, Bernard (*with* Trofino-Neto, Alexandre; Lozano Leal, Rogelio) Robust adaptive control of a class of nonlinear first order systems.
Chen, Han Fu (*with* Zhang, Ji Feng) Adaptive stabilization. **93c:93045**
Chen, J. S. *see* **Chen, Ye-Hwa, 93h:93070**
Chen, Ye-Hwa (*with* Chen, J. S.) Adaptive robust control of uncertain systems. **93h:93070**
— Adaptive robust control of uncertain systems with measurement noise. **93g:93079**
Ciolfi, John *see* **Djaferis, T. E.**
Corless, Martin (*with* Leitmann, George) Bounded controllers for robust exponential convergence. (English summary) **93k:93101**
Cui, Jun Feng (*with* Wu, Guang Yu) A robust self-tuning controller for fast following. (Chinese. English and Chinese summaries)
Curtain, Ruth F. Robust stabilization for infinite-dimensional linear systems using normalized coprime factorizations. **93a:93097**
— (*with* van Keulen, B. A. M.) Robust control with respect to coprime factors of infinite-dimensional positive real systems. **93a:93098**
Datta, Aniruddha *see* **Ioannou, Petros A., 93k:93103**
Diligenskii, S. N. (*with* Efremov, A. Yu.) On the synthesis of robust laws for the stabilization of the motion of aircraft. (Russian. Russian summary)
Djaferis, T. E. (*with* Ciolfi, John) Representations of robustly stabilizing controllers for systems with parameter uncertainty.
Dorsey, John F. *see* **Qu, Zhihua, 93c:93046**
Drăgan, Vasile Adaptive stabilization of a class of linear systems.
Efremov, A. Yu. *see* **Diligenskii, S. N.**
Fan, Michael K. H. On design of robust controllers with unstructured uncertainty. (English summary) (*see* **93g:93005**)
Fêng, I Kang *see* **Wu, Chin Fu; et al., 93e:93055**
Ferrara, A. *see* **Bartolini, G., (93i:93007)**
Georgiou, Tryphon T. (*with* Smith, Malcolm Clive) Robust stabilization in the gap metric. (English summary) **93i:93110**
— (*with* Smith, Malcolm Clive) Robust stabilization in the gap metric: controller design for distributed plants. (English summary) **93h:93071**
Gurov, I. R. (*with* Ohta, Yuzo; Haneda, H.) Robust stabilization of a class of uncertain nonlinear systems. (English summary) (*see* **93g:93005**)
Haddad, Wassim M. (*with* Bernstein, Dennis S.) Robust stabilization with positive real uncertainty: beyond the small gain theorem. **93b:93103**
Haneda, H. *see* **Gurov, I. R.; et al., (93g:93005)**
Heh, Jia Sheng *see* **Wu, Chin Fu; et al., 93e:93055**
Ilchmann, Achim (*with* Logemann, Hartmut) High-gain adaptive stabilization of multivariable linear systems—revisited. (English summary) **93j:93132**
— (*with* Townley, Stuart) Simple adaptive stabilization of high-gain stabilizable systems. (English summary) **93k:93102**
Inaba, Hiroshi (*with* Okutsu, Noriko) Reduced order stabilizing controllers via normalized coprime factorization. (English summary) (*see* **93g:93005**)
Ioannou, Petros A. (*with* Datta, Aniruddha) Robust adaptive control: design, analysis and robustness bounds. (English summary) **93k:93103**
Jiang, Z. P. *see* **Praly, L.; et al., 93j:93135**
van Keulen, B. A. M. *see* **Curtain, Ruth F., 93a:93098**
Kojima, Akira (*with* Uchida, Kenko; Shimemura, Etsujiro) Robust stabilization of time delay systems based on Riccati type operator equation arising in differential games. (English summary) **93j:93133**
— (*with* Uchida, Kenko; Shimemura, Etsujiro) Robust stabilization of uncertain time delay systems via combined internal-external approach. (English summary) **93j:93134**
Kuo, Tê Shêng *see* **Wu, Chin Fu; et al., 93e:93055**
Leitmann, George *see* **Corless, Martin, 93k:93101**
Lin, Chih Min *see* **Tu, Maan Huang; et al., 93j:93136**
Lin, Yu Ping *see* **Tu, Maan Huang; et al., 93j:93136**

Logemann, Hartmut (*with* Zwart, H. J.) On robust PI-control of infinite-dimensional systems. **93d:93077**
— *see also* **Ilchmann, Achim**, **93j:93132**
Lozano Leal, Rogelio *see* **Brogliato, Bernard; et al.**
Marino, Riccardo (*with* Tomei, Patrizio) Observer-based adaptive stabilization for a class of nonlinear systems. **93a:93099**
Mizukami, Koichi *see* **Wu, Han Sheng**, **93i:93111**
Nikitin, S. V. (*with* Prätzel-Wolters, D.) Multiparameter polynomial adaptive stabilizers. **93c:93054**
Ohmori, Hiromitsu (*with* Sano, A.) Design of robust adaptive control system with a fixed compensator. (English summary) (*see* **93f:93006**)
Ohta, Yuzo *see* **Gurov, I. R.; et al.**, (**93g:93005**)
Okutsu, Noriko *see* **Inaba, Hiroshi**, (**93g:93005**)
Petersen, Ian R. *see* **Saleh, Saad J.; et al.**, (**93g:93005**)
Pomet, J.-B. *see* **Praly, L.; et al.**, **93j:93135**
Praly, L. (*with* Bastin, G.; Pomet, J.-B.; Jiang, Z. P.) Adaptive stabilization of nonlinear systems. (English summary) **93j:93135**
Prätzel-Wolters, D. *see* **Nikitin, S. V.**, **93c:93054**
Qu, Zhihua (*with* Dorsey, John F.) Robust control by two Lyapunov functions. **93c:93046**
Saleh, Saad J. (*with* Barmish, B. Ross; Petersen, Ian R.) Robust stabilization with uncertainty in a sphere: a closed form for the controller set. (English summary) (*see* **93g:93005**)
Sano, A. *see* **Ohmori, Hiromitsu**, (**93f:93006**)
Shimemura, Etsujiro *see* **Kojima, Akira; et al.**, **93j:93133** *and* **93j:93134**
Smith, Malcolm Clive *see* **Georgiou, Tryphon T.**, **93h:93071** *and* **93i:93110**
Stoorvogel, A. A. Robust stabilization of systems with multiplicative perturbations. (English summary) (*see* **93g:93005**)
Tarn, Tzyh Jong (*with* Yang, Tongzeng; Zeng, Xiaoming) Simultaneous and robust stabilization of infinite-dimensional systems by periodic output feedback. (English summary) (*see* **93g:93005**)
Tomei, Patrizio *see* **Marino, Riccardo**, **93a:93099**
Townley, Stuart *see* **Ilchmann, Achim**, **93k:93102**
Trofino-Neto, Alexandre *see* **Brogliato, Bernard; et al.**
Tu, Maan Huang (*with* Lin, Chih Min; Lin, Yu Ping) Robust optimization of multivariable feedback systems with time-varying nonlinear uncertainties. (English summary) **93j:93136**
Uchida, Kenko *see* **Kojima, Akira; et al.**, **93j:93133** *and* **93j:93134**
Wang, Le Yi (*with* Zames, George) Robust adaptation in slowly time-varying systems: double-algebra theory. (English summary) (*see* **93d:93008**)
Wu, Chin Fu (*with* Heh, Jia Sheng; Fêng, I Kang; Kuo, Tê Shêng) Optimal pi-coefficients of second-order systems. **93e:93055**
Wu, Guang Yu *see* **Cui, Jun Feng**
Wu, Han Sheng (*with* Mizukami, Koichi) Robust stabilization of uncertain linear dynamical systems. (English summary) **93i:93111**
Yakovleva, L. M. Stabilization of linear systems under constantly acting perturbations. (Russian. Russian summary) **93g:93080**
Yang, Tongzeng *see* **Tarn, Tzyh Jong; et al.**, (**93g:93005**)
Zames, George *see* **Wang, Le Yi**, (**93d:93008**)
Zeng, Xiaoming *see* **Tarn, Tzyh Jong; et al.**, (**93g:93005**)
Zhang, Ji Feng *see* **Chen, Han Fu**, **93c:93045**
Zhu, Si Quan Perturbations of closed-loop systems in robust feedback stabilization. (English summary) **93i:93112**
Zwart, H. J. *see* **Logemann, Hartmut**, **93d:93077**

Items with secondary classifications in 93D21

Barmish, B. Ross (*with* Hollot, Christopher V.; Kraus, Frantisek J.; Tempo, Roberto) Extreme point results for robust stabilization of interval plants with first order compensators. **93d:93062**
— *see also* **Yen, K. K.**, **93k:93092**
Bernussou, J. *see* **Dias Peres, Pedro Luis; et al.**
Blackwell, C. C. Robustness analysis in the time domain and output space. **93a:93081**
Bontsema, Jan (*with* Curtain, Ruth F.) Robust stabilization of a flexible beam model using a normalized coprime factorization approach. (English summary) **93m:93082**
Cheng, Mian *see* **Jia, Ying Min; et al.**, **93g:93074**
Curtain, Ruth F. *see* **Bontsema, Jan**, **93m:93082**
(Devanathan, Rajagopalan) *see* **Intelligent tuning and adaptive control**, **93i:93007**
Dias Peres, Pedro Luis (*with* Geromel, J. C.; Bernussou, J.) Quadratic stabilizability of linear uncertain systems in convex-bounded domains. (English summary)
Dion, Jean Michel *see* **Trofino-Neto, Alexandre; et al.**, **93j:93119**
Dugard, Luc *see* **Trofino-Neto, Alexandre; et al.**, **93j:93119**
Emel'yanov, S. V. (*with* Zhivoglyadov, P. V.; Korovin, S. K.) A method for stabilizing discrete objects with compact uncertainty. (Russian) **93c:93044**
Fujii, Takao (*with* Tsujino, Taro) An inverse LQ based approach to the design of robust tracking controllers for linear uncertain systems. (English summary) (*see* **93g:93005**)
Fujisaki, Y. (*with* Yasuda, Kazunori) State space parametrization of robust servo systems. (*see* **93g:93005**)
Gao, Wei Bing *see* **Jia, Ying Min; et al.**, **93g:93074**
Geromel, J. C. *see* **Dias Peres, Pedro Luis; et al.**
Gu, Da-Wei (*with* Postlethwaite, Ian; Tsai, Mi Ching) H^∞ super-optimal solutions. **93i:93041**
Hara, Shinji (*with* Nakajima, Masayuki; Kabamba, Pierre T.) Robust stabilization in digital control systems. (English summary) (*see* **93g:93005**)
Hollot, Christopher V. *see* **Barmish, B. Ross; et al.**, **93d:93062** *and* **Yen, K. K.**, **93k:93092**
(Hosoe, Shigeyuki) *see* **Robust control**, **93f:93006**
Jia, Ying Min (*with* Gao, Wei Bing; Cheng, Mian) Robust strict positive real stabilization criteria for SISO uncertain systems. (English summary) **93g:93074**
Kabamba, Pierre T. *see* **Hara, Shinji; et al.**, (**93g:93005**)
Khargonekar, Pramod P. *see* **Krause, James M.; et al.**, **93b:93043**
(Kimura, Hidenori) *see* **Recent advances in mathematical theory of systems, control, networks and signal processing**, **93g:93005** *and* **93g:93006**
(Kodama, Shinzo) *see* **Recent advances in mathematical theory of systems, control, networks and signal processing**, **93g:93005** *and* **93g:93006**
(Kokotović, P. V.) *see* **Foundations of adaptive control**, **93c:93004**
Korovin, S. K. *see* **Emel'yanov, S. V.; et al.**, **93c:93044**
Kraus, Frantisek J. *see* **Barmish, B. Ross; et al.**, **93d:93062** *and* **Yen, K. K.**, **93k:93092**
Krause, James M. (*with* Khargonekar, Pramod P.; Stein, Gunter) Robust adaptive control: stability and asymptotic performance. **93b:93043**
Kumar, Panganamala Ramana *see* **Naik, Sanjeev M.; et al.**, **93b:93032** *and* **93i:93076**
(Leondes, Cornelius T.) *see* **Robust control system techniques and applications**, **93d:93007** *and* **93d:93008**
Marino, Riccardo (*with* Tomei, Patrizio) Global adaptive observers and output-feedback stabilization for a class of nonlinear systems. (English summary) **93h:93060**
Michel, Anthony N. *see* **Radenković, Miloje S.**, (**93g:93007**)
Miyasato, Y. Model reference adaptive control for nonminimum phase system by periodic feedback. (English summary) (*see* **93i:93007**)
Naik, Sanjeev M. (*with* Kumar, Panganamala Ramana; Ydstie, B. Erik) Robust continuous-time adaptive control by parameter projection. (English summary) **93i:93076**
— (*with* Kumar, Panganamala Ramana; Ydstie, B. Erik) Robust continuous-time adaptive control by parameter projection. **93b:93032**
Nakajima, Masayuki *see* **Hara, Shinji; et al.**, (**93g:93005**)
Postlethwaite, Ian *see* **Gu, Da-Wei; et al.**, **93i:93041**
Poznyak, A. S. *see* **Vasilevskii, Yu. A.; et al.**, **93j:93120**
Radenković, Miloje S. (*with* Michel, Anthony N.) Adaptive control and self-stabilization. (English summary) (*see* **93g:93007**)
Semenov, A. V. *see* **Vasilevskii, Yu. A.; et al.**, **93j:93120**
de la Sen, Manuel A robust discrete adaptive control scheme with a forgetting factor admitting saturated inputs. (English summary) **93j:93080**
de Souza, Carlos E. *see* **Wang, You Yi; et al.**, **93f:93109**
Stein, Gunter *see* **Krause, James M.; et al.**, **93b:93043**
Stokić, D. *see* **Vukobratović, M.**, **93d:93057**
Tao, Gang On robust adaptive control of robot manipulators. **93a:93077**
Tempo, Roberto *see* **Barmish, B. Ross; et al.**, **93d:93062** *and* **Yen, K. K.**, **93k:93092**
Tomei, Patrizio *see* **Marino, Riccardo**, **93h:93060**
Tornambè, Antonio (*with* Valigi, Paolo) A decentralized controller for the robust stabilization of a class of MIMO linear systems. (English summary) **93g:93075**
Trofino-Neto, Alexandre (*with* Dion, Jean Michel; Dugard, Luc) Robustness bounds for LQ regulators. (English summary) **93j:93119**
Tsai, Mi Ching *see* **Gu, Da-Wei; et al.**, **93i:93041**
Tsujino, Taro *see* **Fujii, Takao**, (**93g:93005**)
Valigi, Paolo *see* **Tornambè, Antonio**, **93g:93075**
Vasilevskii, Yu. A. (*with* Poznyak, A. S.; Semenov, A. V.) Design of robust stabilizers with real coefficients by the Nevanlinna-Pick method. (Russian. Russian summary) **93j:93120**
Vukobratović, M. (*with* Stokić, D.) Is adaptive control necessary for manipulation robots, and if so, to what degree? (Russian) **93d:93057**
Wang, You Yi (*with* Xie, Lihua; de Souza, Carlos E.) Robust control of a class of uncertain nonlinear systems. (English summary) **93f:93109**
Xie, Lihua *see* **Wang, You Yi; et al.**, **93f:93109**
Yasuda, Kazunori *see* **Fujisaki, Y.**, (**93g:93005**)
Ydstie, B. Erik Transient performance and robustness of direct adaptive control. (English summary) **93f:93077**
— *see also* **Naik, Sanjeev M.; et al.**, **93b:93032** *and* **93i:93076**
Yen, K. K. (*with* Zhou, S. F.) Comments on: "Extreme point results for robust stabilization of interval plants with first order compensators" [IEEE Trans. Automat. Control **37** (1992), no. 6, 707–714; MR 93d:93062] by B. R. Barmish, C. V. Hollot, F. J. Kraus and R. Tempo. (English summary) **93k:93092**
Zhivoglyadov, P. V. *see* **Emel'yanov, S. V.; et al.**, **93c:93044**
Zhou, S. F. *see* **Yen, K. K.**, **93k:93092**

Items listed otherwise than by author

Foundations of adaptive control ★ Foundations of adaptive control. **93c:93004**
IFAC Symposium:
  Intelligent Tuning and Adaptive Control ★ Intelligent tuning and adaptive control. **93i:93007**
Intelligent tuning and adaptive control ★ Intelligent tuning and adaptive control. **93i:93007**
Kobe ★ Recent advances in mathematical theory of systems, control, networks and signal processing. I. **93g:93005**
— ★ Recent advances in mathematical theory of systems, control, networks and signal processing. II. **93g:93006**
Lecture Notes in Control and Information Sciences ★ Foundations of adaptive control. **93c:93004**
— ★ Robust control. **93f:93006**
Lectures:
  Grainger ★ Foundations of adaptive control. **93c:93004**
Recent advances in mathematical theory of systems, control, networks and signal processing ★ Recent advances in mathematical theory of systems, control, networks and signal processing. I. **93g:93005**
— ★ Recent advances in mathematical theory of systems, control, networks and signal processing. II. **93g:93006**
Robust control ★ Robust control. **93f:93006**
Robust control system techniques and applications ★ Robust control system techniques and applications. Part 1. **93d:93007**
— ★ Robust control system techniques and applications. Part 2. **93d:93008**
Singapore ★ Intelligent tuning and adaptive control. **93i:93007**
Symposium:
  Mathematical Theory of Networks and Systems ★ Recent advances in mathematical theory of systems, control, networks and signal processing. I. **93g:93005**
  — ★ Recent advances in mathematical theory of systems, control, networks and signal processing. II. **93g:93006**
Tokyo ★ Robust control. **93f:93006**
Urbana, IL ★ Foundations of adaptive control. **93c:93004**

Workshop:
Robust Control ★ Robust control. **93f:93006**

93D22 Interrelations between stability problems and optimization problems

Items with secondary classifications in 93D22

Barmish, B. Ross (*with* Tempo, Roberto; Hollot, Christopher V.; Kang, H. I.) An extreme point result for robust stability of a diamond of polynomials. (English summary) **93j:93099**
Cendra, H. *see* **Robledo, C.; et al., 93b:93090**
Desages, Alfredo *see* **Robledo, C.; et al., 93b:93090**
Fan, Michael K. H. (*with* Tits, André L.) A measure of worst-case H_∞ performance and of largest acceptable uncertainty. **93g:93030**
Hermes, Henry Stabilization via optimization. **93a:93092**
Hollot, Christopher V. *see* **Barmish, B. Ross; et al., 93j:93099**
Kang, H. I. *see* **Barmish, B. Ross; et al., 93j:93099**
Robledo, C. (*with* Desages, Alfredo; Cendra, H.) On the distance to the instability border of Hurwitz polynomials with coefficients that depend affinely on m parameters and a particular convexity property of H^n. **93b:93090**
Tempo, Roberto *see* **Barmish, B. Ross; et al., 93j:93099**
Tits, André L. *see* **Fan, Michael K. H., 93g:93030**

93D25 Input-output approaches

Brockett, Roger W. Pulse driven dynamical systems. (*see* **93a:93006**)

Items with secondary classifications in 93D25

Braverman, M. È. (*with* Rozonoèr, L. I.) Robustness of linear dynamical systems. I. (Russian) **93f:93098**
— (*with* Rozonoèr, L. I.) Robustness of linear dynamical systems. II. (Russian) **93f:93099**
Chui, Charles K. (*with* Mhaskar, H. N.) On multivariate robust stability. (English summary) **93h:93053**
Hara, Shinji *see* **Yamamoto, Yutaka, 93a:93090**
Ionescu, Vlad (*with* Weiss, Martin) The l^2-control problem for time-varying discrete systems. (English summary) **93f:93061**
Kanellakopoulos, I. (*with* Kokotović, P. V.; Morse, A. Stephen) Adaptive output-feedback control of systems with output nonlinearities. (English summary) **93h:93041**
Kokotović, P. V. *see* **Kanellakopoulos, I.; et al., 93h:93041**
Lee, E. Bruce *see* **Li, Yanlin; et al., 93b:93085**
Li, Yanlin (*with* Nagpal, Krishan M.; Lee, E. Bruce) Stability analysis of polynomials with coefficients in disks. **93b:93085**
Lu, Zheng Yi (*with* Takeuchi, Yasuhiro) Permanence and global stability for cooperative Lotka-Volterra diffusion systems. **93j:92002**
Mhaskar, H. N. *see* **Chui, Charles K., 93h:93053**
Morse, A. Stephen *see* **Kanellakopoulos, I.; et al., 93h:93041**
Nagpal, Krishan M. *see* **Li, Yanlin; et al., 93b:93085**
Rozonoèr, L. I. *see* **Braverman, M. È., 93f:93098** *and* **93f:93099**
Shamma, Jeff S. (*with* Zhao, Rongze) Fading-memory feedback systems and robust stability. (English summary) **93j:93116**
Solé, L. On feedback universality of discrete systems. **93b:93008**
Takeuchi, Yasuhiro *see* **Lu, Zheng Yi, 93j:92002**
Vieille, N. Weak approachability. (English summary) **93k:93076**
Weiss, Martin *see* **Ionescu, Vlad, 93f:93061**
Yamamoto, Yutaka (*with* Hara, Shinji) Internal and external stability and robust stability condition for a class of infinite-dimensional systems. **93a:93090**
Zhao, Rongze *see* **Shamma, Jeff S., 93j:93116**

93D30 Scalar and vector Lyapunov functions

Liu, Jin Xian *see* **Tang, Gong You; et al., 93f:93119**
Liu, Yong Qing *see* **Tang, Gong You; et al., 93f:93119**
Pyatnitskii, E. S. The method of Lyapunov functions and constructive procedures for the design of nonlinear control systems on a computer. (Russian. Russian summary) (*see* **93m:93005**)
Tang, Gong You (*with* Liu, Yong Qing; Liu, Jin Xian) Weighted vector norm form Lyapunov functions and their application in stability of large-scale discrete systems. (Polish summary) **93f:93119**
Yu, Guo Dong Some results on direct control systems. (Chinese. Chinese summary)

Items with secondary classifications in 93D30

Chen, Lin[4] (*with* Tang, Gong You; Huang, Xiao Han) A new conclusion on the parameter stability domain of linear time-invariant large-scale systems. (English and Chinese summaries) **93i:93090**
Dorsey, John F. *see* **Qu, Zhihua, 93c:93046**
Dunskaya, N. V. Lyapunov functions in problems of the design of a control for mechanical systems by the objective potential method. (Russian. Russian summary) (*see* **93m:93005**)
Godunov, S. K. Investigation into stability of almost conservative systems by means of Lyapunov functions. **93b:34063**
Huang, Xiao Han *see* **Chen, Lin[4]; et al., 93i:93090**
Jamshidi, M. *see* **Lee, Soo R., 93h:34139**
Lee, Soo R. (*with* Jamshidi, M.) Stability analysis for large-scale time delay systems via the matrix Lyapunov function. (English summary) **93h:34139**
Olas, A. Optimal quadratic Lyapunov functions for robust stability problem. **93e:93048**
Qu, Zhihua (*with* Dorsey, John F.) Robust control by two Lyapunov functions. **93c:93046**
Tang, Gong You *see* **Chen, Lin[4]; et al., 93i:93090**
Tsinias, John A local stabilization theorem for interconnected systems. **93d:93075**

93D99 None of the above, but in this section

Fan, Michael K. H. *see* **Panier, Eliane R.; et al.**
Panier, Eliane R. (*with* Fan, Michael K. H.; Tits, André L.) Comments on: "On the stability of uncertain polynomials with dependent coefficients" [IEEE Trans. Automat. Control **35** (1990), no. 6, 756–759] by L. R. Pujara. (English summary)
(Pujara, L. R.) *see* **Panier, Eliane R.; et al.**
Tits, André L. *see* **Panier, Eliane R.; et al.**

Items with secondary classifications in 93D99

(Freedman, H. I.) *see* **Turyn, L., 93c:92010**
Turyn, L. Remarks on: "Persistence in models of three interacting predator-prey populations" [Math. Biosci. **68** (1984), no. 2, 213–231; MR 85h:92037] by H. I. Freedman and P. Waltman. **93c:92010**
(Waltman, Paul) *see* **Turyn, L., 93c:92010**

93Exx Stochastic systems and control

Jacobs, O. L. R. Case studies in application of stochastic control theory. (English summary) (*see* **93c:93003**)
(Karatzas, Ioannis) *see* **Applied stochastic analysis, 93a:93100**
(Ocone, Daniel L.) *see* **Applied stochastic analysis, 93a:93100**

Items listed otherwise than by author

Applied stochastic analysis ★ Applied stochastic analysis. **93a:93100**
Lecture Notes in Control and Information Sciences ★ Applied stochastic analysis. **93a:93100**
New Brunswick, NJ ★ Applied stochastic analysis. **93a:93100**
Workshop:
Applied Stochastic Analysis ★ Applied stochastic analysis. **93a:93100**

Items with secondary classifications in 93Exx

(Chen, Shu Ping) *see* **Control theory, stochastic analysis and applications, 93a:93005**
(Duncan, Tyrone E.) *see* **Stochastic theory and adaptive control, 93g:93007**
(Isermann, Helge) *see* **Isermann, Rolf, 93b:93002**
Isermann, Rolf ★ Digital control systems. Vol. 2. **93b:93002**
(Pasik-Duncan, Bożenna) *see* **Stochastic theory and adaptive control, 93g:93007**
(Yong, Jiong Min) *see* **Control theory, stochastic analysis and applications, 93a:93005**
(Zabczyk, Jerzy) *see* **Stochastic systems and optimization, 93d:93009**

Items listed otherwise than by author

Control theory, stochastic analysis and applications ★ Control theory, stochastic analysis and applications. **93a:93005**
Hangzhou ★ Control theory, stochastic analysis and applications. **93a:93005**
IFIP Conference:
Stochastic Systems and Optimization ★ Stochastic systems and optimization. **93d:93009**
Lawrence, KS ★ Stochastic theory and adaptive control. **93g:93007**
Lecture Notes in Control and Information Sciences ★ Stochastic systems and optimization. **93d:93009**
— ★ Stochastic theory and adaptive control. **93g:93007**
Stochastic systems and optimization ★ Stochastic systems and optimization. **93d:93009**
Stochastic theory and adaptive control ★ Stochastic theory and adaptive control. **93g:93007**
Symposium:
System Sciences and Control Theory ★ Control theory, stochastic analysis and applications. **93a:93005**
Warsaw ★ Stochastic systems and optimization. **93d:93009**
Workshop:
Stochastic Theory and Adaptive Control ★ Stochastic theory and adaptive control. **93g:93007**

93E03 Stochastic systems, general

Akizuki, Kageo *see* **Hashimoto, Hiroshi, 93h:93072**
Atherton, Derek P. (*with* Xue, Dingyu) The analysis of feedback systems with piecewise linear nonlinearities when subjected to Gaussian inputs. (English summary) **93k:93104**
Bokor, J. *see* **Terdik, Gyõrgy; et al., (93e:00021)**
Chang, Wen Jer (*with* Chung, Hung Yûan) Upper bound covariance control of discrete perturbed systems. (English summary) **93j:93137**
— *see also* **Chung, Hung Yûan**
Chung, Hung Yûan (*with* Chang, Wen Jer) Covariance control with variance constraints for continuous perturbed stochastic systems. (English summary)
— *see also* **Chang, Wen Jer, 93j:93137**
Feng, Chun Bo *see* **Xu, Li Hong**
Fornasini, E. Asymptotic behaviour of 2D Markov chains. (English summary) **93j:93138**
Frezza, R. Models of Gaussian higher order reciprocal processes. (English summary) (*see* **93g:93006**)
Fukuda, Tokuo (*with* Sunahara, Yoshifumi) Fuzzy stochastic processes and their applications to parameter identification. (English summary) (*see* **93h:93009**)
Gillis, J. T. *see* **McGraw, G. A.; et al.**
Gustafson, C. L. *see* **McGraw, G. A.; et al.**
Haddad, Abraham H. *see* **Tsai, Ching-Chih, 93g:93081**
Hashimoto, Hiroshi (*with* Akizuki, Kageo) Global convergence of implicit STC. (English summary) **93h:93072**
Hotz, Anthony F. Direct variance design—a multiobjective control theory. (English summary) **93k:93105**
Ishikawa, Masaaki On the mathematical formulation of stochastic distributed parameter systems with state-dependent obstacles. (English summary) (*see* **93g:93006**)
Jin, Yuan Yu A new generalized predictive control based on ARMAX models. (Chinese. English and Chinese summaries)
Karp, K. A. Probabilistic analysis of nonlinear discrete dynamical systems. (Russian) (*see* **93g:00022**)

Kim, Seungnam (*with* Meerkov, S. M.; Runolfsson, T.) Aiming control: residence probability and (D, T)-stability. **93e:93056**
— (*with* Meerkov, S. M.; Runolfsson, T.) Aiming control: design of residence probability controllers. **93e:93057**
Koda, Masato Sensitivity analysis of stochastic dynamical systems. (English summary) **93i:93113**
Ljung, Lennart *see* **Wahlberg, B.; et al., (93h:93009)**
McGraw, G. A. (*with* Gustafson, C. L.; Gillis, J. T.) Conditions for the equivalence of ARMAX and ARX systems. (English summary)
Meerkov, S. M. *see* **Kim, Seungnam; et al., 93e:93056** *and* **93e:93057**
Picci, Giorgio (*with* Taylor, T. J.) Stochastic aggregation of distributed parameter systems. (English summary) (*see* **93g:93006**)
— (*with* Pinzoni, S.) Acausal systems and the linear matrix inequality. (English summary) (*see* **93g:93006**)
— (*with* van Schuppen, J. H.) Stochastic realization of finite-valued processes and primes in the positive matrices. (English summary) (*see* **93g:93006**)
Pinzoni, S. *see* **Picci, Giorgio, (93g:93006)**
Runolfsson, T. *see* **Kim, Seungnam; et al., 93e:93056** *and* **93e:93057**
van Schuppen, J. H. *see* **Picci, Giorgio, (93g:93006)**
Socha, Leslaw Decentralized sensitivity of stochastic composite systems. (English summary) **93k:93106**
Söderström, T. *see* **Wahlberg, B.; et al., (93h:93009)**
Sun, Feng Zhu Qualitative properties of stochastic difference systems. (Chinese. English and Chinese summaries) **93i:93114**
Sunahara, Yoshifumi *see* **Fukuda, Tokuo, (93h:93009)**
Taylor, T. J. *see* **Picci, Giorgio, (93g:93006)**
Terdik, György (*with* Várlaki, Peter M.; Bokor, J.) On problem of stochastic bilinear realization. (*see* **93e:00021**)
Tsai, Ching-Chih (*with* Haddad, Abraham H.) Approximation and decomposition of singularly perturbed stochastic hybrid systems. **93g:93081**
Várlaki, Peter M. *see* **Terdik, György; et al., (93e:00021)**
Vu, Ky Minh Variance formulae for feedback stochastic control systems. **93h:93104**
Wahlberg, B. (*with* Ljung, Lennart; Söderström, T.) On sampling and reconstruction of continuous time stochastic systems. (English summary) (*see* **93h:93009**)
Xu, Li Hong (*with* Feng, Chun Bo) LQG control based on compensation of the unmodelled dynamics. (Chinese. English and Chinese summaries)
Xue, Dingyu *see* **Atherton, Derek P., 93k:93104**

Items with secondary classifications in 93E03

Ahmed, N. U. Partially observed optimal relaxed feedback controls for infinite-dimensional stochastic systems. (English summary) (*see* **93g:93004**)
Andersland, Mark S. (*with* Teneketzis, Demosthenis) Information structures, causality, and nonsequential stochastic control. I. Design-independent properties. (English summary) **93i:93081**
Baikovicius, Jimmy (*with* Gerencsér, László) Change-point detection as model selection. (English, Russian and Lithuanian summaries)
Bańka, S. Multipurpose controller design in multivariable stochastic control systems. (English summary)
Baranova, O. V. Uniform global controllability of a linear system with stationary random parameters. (Russian. Russian summary) **93m:93006**
Basak, Gopal K. Stability for temporally nonhomogeneous singular diffusion. (English summary) **93i:60146**
Bensoussan, Alain ★ Stochastic control of partially observable systems. **93i:93001**
Boldin, M. V. Testing hypotheses in linear control systems. (Russian) (*see* **93g:00022**)
Burstein, G. *see* **Davis, M. H. A., 93h:60090**
Chen, Guan Rong (*with* Chui, Charles K.; Yu, Yao Qi) Optimal Hankel-norm approximation approach to model reduction of large-scale Markov chains. (English summary) **93f:93028**
Chen, Rong (*with* Tsay, Ruey S.) On the ergodicity of TAR(1) processes. **93d:60108**
Chen, Wei Tian *see* **Chu, Xue Dao**
Chu, Xue Dao (*with* Chen, Wei Tian) A new adaptive pole placement algorithm for nonminimum phase stochastic systems. (Chinese. English and Chinese summaries)
Chui, Charles K. *see* **Chen, Guan Rong; et al., 93f:93028**
Colonius, Fritz (*with* Kliemann, Wolfgang) Remarks on ergodic theory of stochastic flows and control flows. (English summary) **93i:60110**
Davis, M. H. A. (*with* Burstein, G.) Random conservation laws and global solutions of nonlinear SPDE—application to the HJB SPDE of anticipative control. (English summary) **93h:60090**
Delic, Hakan (*with* Papantoni-Kazakos, P.) A class of scheduling policies for mixed data with renewal arrival processes. (English summary) **93k:90041**
Dhillon, Balbir S. Stochastic modelling of k-out-of-n units family of systems. (English summary)
Drăgan, Vasile Optimal stabilizing compensator for linear systems under white noise perturbations. (English summary) **93j:93126**
— (*with* Morozan, Toader; Halanay, Aristide) Optimal stabilizing compensator for linear systems with state-dependent noise. (English summary) **93j:93127**
Duncan, Tyrone E. (*with* Maslowski, Bohdan; Pasik-Duncan, Bożenna) On boundary control of unknown linear stochastic distributed parameter systems. (*see* **93e:90003**)
Fendick, Kerry W. (*with* Rodrigues, Manoel A.; Weiss, Alan) Analysis of a rate-based feedback control strategy for long haul data transport. (English summary)
Fêng, I Kang (*with* Ts'ai, Shu Ch'uan; Kuo, Tê Shêng) Robust observer design for nonlinear uncertain systems with LQ regulators. (English summary)
Gerencsér, László *see* **Baikovicius, Jimmy**
Golec, J. (*with* Ladde, G. S.) On multitime method and the rate of convergence for a class of singularly perturbed stochastic systems. **93d:34101**
Halanay, Aristide (*with* Morozan, Toader) Discrete-time stabilizing compensators for continuous-time systems with state dependent noise. **93j:93129**
— *see also* **Drăgan, Vasile; et al., 93j:93127**
Halevi, Yoram *see* **Jalfon, Agnès Cohen, 93i:93022**
Havărneanu, Teodor An approximation scheme of the dynamic programming equation for a stochastic control problem with infinite horizon. **93g:49023**
Henriksen, Rolf Accuracy of some robust estimators based upon prefiltering of the input/output data. (English summary) **93i:93118**
Hertz, David On the extreme eigenvalues of Toeplitz and real Hankel interval matrices. (English summary) **93m:65063**
(Heyman, D. P.) *see* **Stochastic models, 93a:60001**
Jalfon, Agnès Cohen (*with* Halevi, Yoram) On partially augmented observers for systems with coloured noises. (English summary) **93i:93022**
Karatzas, Ioannis (*with* Ocone, Daniel L.) The resolvent of a degenerate diffusion on the plane, with application to partially observed stochastic control. (English summary) **93h:60100**
Kliemann, Wolfgang *see* **Colonius, Fritz, 93i:60110**
Kolnogorov, A. V. On the justification of two heuristic methods in the problem of appropriate behavior in a stationary environment. (Russian. Russian summary)
Kumar, Panganamala Ramana *see* **Ren, Wei, (93g:93007)**
Kuo, Tê Shêng *see* **Fêng, I Kang; et al.**
Kuzin, V. S. Analytical solution of the probabilities of an optimization problem when there are rigid constraints. (Russian. Russian summary) **93d:90046**
Ladde, G. S. *see* **Golec, J., 93d:34101**
Li, Wen Lin Optimum self-tuning controllers for regulation and tracking. (Chinese. English and Chinese summaries)
Maslowski, Bohdan *see* **Duncan, Tyrone E.; et al., (93e:90003)**
Morozan, Toader *see* **Drăgan, Vasile; et al., 93j:93127** *and* **Halanay, Aristide, 93j:93129**
Ocone, Daniel L. *see* **Karatzas, Ioannis, 93h:60100**
Papantoni-Kazakos, P. *see* **Delic, Hakan, 93k:90041**
Pasik-Duncan, Bożenna *see* **Duncan, Tyrone E.; et al., (93e:90003)**
Perevozchikov, A. G. *see* **Zavriev, S. K., 93m:93038**
Peterka, V. *see* **Warwick, Kevin, (93h:93007)**
Potseluev, A. V. Fundamentals of statistical analysis and synthesis of complicated dynamic systems. **93c:93009**
Ren, Wei (*with* Kumar, Panganamala Ramana) The convergence of self-tuning feedback control for linear stochastic systems. (English summary) (*see* **93g:93007**)
Rodrigues, Manoel A. *see* **Fendick, Kerry W.; et al.**
Safonov, Michael G. *see* **Wang, Wei Zhen**
Sethi, Suresh P. (*with* Taksar, Michael I.; Zhang, Qing[1]) Hierarchical investment and production decisions in stochastic manufacturing systems. (English summary) (*see* **93g:93007**)
(Sobel, Matthew J.) *see* **Stochastic models, 93a:60001**
Taksar, Michael I. *see* **Sethi, Suresh P.; et al., (93g:93007)**
Teneketzis, Demosthenis *see* **Andersland, Mark S., 93i:93081**
Ts'ai, Shu Ch'uan *see* **Fêng, I Kang; et al.**
Tsay, Ruey S. *see* **Chen, Rong, 93d:60108**
Varaiya, Pravin Process models for discrete event systems. **93a:93073**
Wang, Wei Zhen (*with* Safonov, Michael G.) Multiplicative-error bound for balanced stochastic truncation model reduction. (English summary)
Warwick, Kevin (*with* Peterka, V.) Optimal observer solution for predictive and LQG optimal control. (English summary) (*see* **93h:93007**)
Weiss, Alan *see* **Fendick, Kerry W.; et al.**
Yu, Yao Qi *see* **Chen, Guan Rong; et al., 93f:93028**
Zabczyk, Jerzy Law equivalence of Ornstein-Uhlenbeck processes. **93j:60053**
Zavriev, S. K. (*with* Perevozchikov, A. G.) Stochastic generalized gradient methods in problems of the design of dynamical systems. (Russian. Russian summary) **93m:93038**
Zhang, Qing[1] *see* **Sethi, Suresh P.; et al., (93g:93007)**

Items listed otherwise than by author

Stochastic models ★ Stochastic models. **93a:60001**

93E05 Stochastic games, stochastic differential games [see also 90D15]

Abou-Kandil, Hisham *see* **Jódar, Lucas; et al., 93a:93101**
Alcalá, A. *see* **Ardanuy Albájar, Ramón, 93j:93139**
Ardanuy Albájar, Ramón (*with* Alcalá, A.) Minimax principle for stochastic differential games.
— (*with* Alcalá, A.) Weak infinitesimal operators and stochastic differential games. (English summary) **93j:93139**
Borkar, Vivek S. (*with* Ghosh, Mrinal K.) Stochastic differential games: occupation measure based approach. **93g:93082**
Breton, Michèle (*with* L'Ecuyer, Pierre) Approximate solutions to continuous stochastic games. (English summary) (*see* **93c:90003**)
Ghosh, Mrinal K. *see* **Borkar, Vivek S., 93g:93082**
Jódar, Lucas (*with* Navarro, Enrique; Abou-Kandil, Hisham) Explicit solutions of coupled Riccati equations occurring in Nash games—the open-loop case. (Russian and Polish summaries) **93a:93101**
Krawczyk, Jacek B. Properties of repetitive control of partially observed processes. (English summary)
L'Ecuyer, Pierre *see* **Breton, Michèle, (93c:90003)**
Lewis, Frank L. An introduction to 2-D implicit systems. (English summary) (*see* **93c:93005**)
Li, Bai Bing (*with* Wu, Jian Zhong) A study on decentralized feedback Stackelberg strategies for LQG systems with one-step delay information sharing pattern. (Chinese. English summary) **93e:93058**
Navarro, Enrique *see* **Jódar, Lucas; et al., 93a:93101**
Neck, Reinhard Noncooperative equilibrium solutions for a stochastic dynamic game of economic stabilization policies. (*see* **93d:90003**)
Wu, Jian Zhong *see* **Li, Bai Bing, 93e:93058**

Items with secondary classifications in 93E05

Avenhaus, Rudolf (*with* Okada, Akira) Statistical criteria for sequential inspector-

leadership games. (English summary) **93g:90095**

Bardi, Martino (*with* Sartori, Caterina) Differential games and totally risk-averse optimal control of systems with small disturbances. (English summary) (*see* **93c:90003**)

Başar, Tamer (*with* Srikant, R.) Iterative computation of Nash equilibria in M-player games with partial weak coupling. (*see* **93c:90003**)

Bergin, James (*with* Bernhardt, Dan) Anonymous sequential games with aggregate uncertainty. (English summary) **93j:90135**

Bernhardt, Dan *see* **Bergin, James**, **93j:90135**

Bezyaev, V. I. Linear optimal stochastic games. (Russian) (*see* **93g:00022**)

Chakrabarti, Subir K. Equilibrium in behavior strategies in infinite extensive form games with imperfect information. (English summary) **93g:90096**

(Ehtamo, Harri) *see* **Differential games—developments in modelling and computation, 93c:90003**

Enns, E. G. *see* **Ravindran, K., 93h:90116**

Filar, Jerzy A. (*with* Vrieze, O. J.) Weighted reward criteria in competitive Markov decision processes. (English summary) **93h:90101**

— *see also* **Sznajder, R., 93i:90110**

(Hämäläinen, Raimo P.) *see* **Differential games—developments in modelling and computation, 93c:90003**

Ibaraki, Toshihide *see* **Katoh, Naoki; et al., 93c:90114**

James, Matthew R. Asymptotic analysis of nonlinear stochastic risk-sensitive control and differential games. (English summary) **93e:93067**

Katoh, Naoki (*with* Koyanagi, Junji; Ohnishi, Masamitsu; Ibaraki, Toshihide) Optimal strategies for some team games. **93c:90114**

Khan, M. Ali (*with* Rustichini, Aldo) Cournot-Nash equilibrium distributions of games with uncertainty and imperfect information. (English summary) **93j:90136**

Koyanagi, Junji *see* **Katoh, Naoki; et al., 93c:90114**

Lal, Arbind K. (*with* Sinha, Sagnik) Zero-sum two-person semi-Markov games. **93c:90115**

Maitra, Ashok (*with* Sudderth, William D.) An operator solution of stochastic games. (English summary) **93k:90114**

Nowak, Andrzej S. (*with* Raghavan, T. E. S.) Existence of stationary correlated equilibria with symmetric information for discounted stochastic games. (English summary) **93h:90115**

Ohnishi, Masamitsu *see* **Katoh, Naoki; et al., 93c:90114**

Okada, Akira *see* **Avenhaus, Rudolf, 93g:90095**

Raghavan, T. E. S. *see* **Nowak, Andrzej S., 93h:90115**

Ravindran, K. (*with* Enns, E. G.) A two Poisson stream competitive decision problem. (English summary) **93h:90116**

Rustichini, Aldo *see* **Khan, M. Ali, 93j:90136**

Sakaguchi, Minoru Sequential deception games. (English summary) **93i:90121**

Sartori, Caterina *see* **Bardi, Martino, (93c:90003)**

Sinha, Sagnik *see* **Lal, Arbind K., 93c:90115**

Srikant, R. *see* **Başar, Tamer, (93c:90003)**

Sudderth, William D. *see* **Maitra, Ashok, 93k:90114**

Sznajder, R. (*with* Filar, Jerzy A.) Some comments on a theorem of Hardy and Littlewood. (English summary) **93i:90110**

Thuijsman, F. ★ Optimality and equilibria in stochastic games. **93h:90117**

Vrieze, O. J. *see* **Filar, Jerzy A., 93h:90101**

Items listed otherwise than by author

Differential games—developments in modelling and computation ★ Differential games—developments in modelling and computation. **93c:90003**

Espoo ★ Differential games—developments in modelling and computation. **93c:90003**

Lecture Notes in Control and Information Sciences ★ Differential games—developments in modelling and computation. **93c:90003**

Symposium:

Differential Games and Applications ★ Differential games—developments in modelling and computation. **93c:90003**

93E10 Estimation and detection [see also 60G35]

Ahn, Doo-Soo (*with* Lee, Seung; Shim, Jae-Sun; Bae, Jong-Il) A study on estimation of bilinear systems via single term of orthogonal functions. (*see* **93a:93005**)

Aihara, Shin'ichi Parameter identification for stochastic parabolic systems. (English summary) **93j:93140**

— Regularized maximum likelihood estimate for an infinite-dimensional parameter in stochastic parabolic systems. **93e:93059**

Aved'yan, È. D. *see* **Tsypkin, Ya. Z., (93j:93007)**

Bae, Jong-Il *see* **Ahn, Doo-Soo; et al., (93a:93005)**

Bar-Itzhack, I. Y. *see* **Goshen-Meskin, Drora, 93f:93120**

Bensoussan, Alain (*with* Nagai, Hideo) An ergodic control problem on whole Euclidean space. (*see* **93d:93009**)

Billings, S. A. (*with* Jones, G. N.) Orthogonal least-squares parameter estimation algorithms for nonlinear stochastic systems. (English summary)

— *see also* **Tsang, K. M.**

Bloch, Gérard *see* **Mielcarek, Didier; et al., (93c:93005)**

Bondarenko, M. V. (*with* Poznyak, A. S.) Asymptotic normality and an estimate for the rate of convergence of algorithms for the identification of nonstationary objects. (Russian. Russian summary) **93i:93115**

Borisov, A. V. (*with* Pankov, A. R.; Sot·skiĭ, N. M.) Minimax estimation in linear differential indeterminate-stochastic systems. (Russian. Russian summary) **93e:93060**

Bosov, A. A. (*with* Zaĭtsev, V. G.) Optimal estimation in a problem of heat conduction. (Russian. Russian summary) (*see* **93k:00023**)

Boutayeb, M. (*with* Darouach, Mohamed) Recursive state and parameter estimation of linear multivariable singular systems. (English summary)

Bukhalev, V. A. Recursion algorithms for recognition and estimation of the state of a dynamic object on the basis of information from measurers and indicators. I. Observation with lag. (Russian. Russian summary) **93i:93116**

— Recursion algorithms for recognition and estimation of the state of a dynamic object on the basis of information from measurers and indicators. II. Observation without lag. (Russian. Russian summary) **93m:93087**

Busvelle, Éric *see* **Deza, François; et al., 93b:93106**

Campbell, L. A. *see* **Wiberg, D. M., (93h:93009)**

Cao, Li[1] (*with* Wu, Da Jin) Exact elimination and adiabatic approximation of fast relaxation variables for deterministic systems. (Chinese. English and Chinese summaries)

Carotenuto, L. (*with* Muraca, P.; Pugliese, P.; Raiconi, G.) Optimization of the output matrix for discrete time linear systems estimation. (English summary) (*see* **93e:00021**)

Cerone, V. Parameter bounds for ARMAX models from records with bounded errors in variables. (English summary) **93i:93117**

Chen, Bing (*with* Wen, He Ning) A study on state estimation by the method of reduced rank approximation. (Chinese. English summary)

Chen, Han Fu *see* **Guo, Lei, (93h:93009)** *and* **(93h:93009)**

Chen, Qing Xin (*with* Wan, Bai Wu) Asymptotic normality analysis of the estimation error of steady-state models for industrial processes: SISO case. (English summary) **93h:93073**

Chisci, L. (*with* Mosca, Edoardo) Polynomial MMSE deconvolution and its duality with LQGR. (*see* **93a:93006**)

Cicci, David A. Implementation of ridge-type estimation methods using orthogonal transformations. (English summary)

Dai, Guan Zhong *see* **Qin, Chao Ying**

Darouach, Mohamed (*with* Zasadzinski, Michel; Mehdi, D.) State estimation of stochastic singular linear systems. (English summary)

— *see also* **Boutayeb, M.; Keller, J. Y.; et al.** *and* **Zasadzinski, Michel, (93c:93005)**

Dembo, Amir (*with* Zeitouni, Ofer) Erratum: "Parameter estimation of partially observed continuous time stochastic processes via the EM algorithm" [Stochastic Process. Appl. **23** (1986), no. 1, 91–113; MR 88h:93068]. **93b:93105**

Deza, François (*with* Busvelle, Éric; Gauthier, Jean-Paul; Rakotopara, Daniel) High gain estimation for nonlinear systems. **93b:93106**

Dhawan, R. K. (*with* Sahai, A.; Nishar, D. V.; Prasada Rao, Ganti) Recursive estimation of Markov parameters in linear continuous-time SISO systems via block-pulse functions. (English summary) (*see* **93h:93009**)

Emara-Shabaik, Hosam E. *see* **Moustafa, Kamal A. F.**

Farrier, D. R. (*with* Prior-Wandesforde, A. R.) A maximum likelihood algorithm for estimating damped sinusoids. (English summary) (*see* **93j:93007**)

Fathi, Zohreh *see* **Korbicz, Józef; et al.**

Feng, Gang (*with* Palaniswami, M.) A stable adaptive implementation of the internal model principle. (English summary) **93d:93078**

Finesso, Lorenzo Estimation of the order of a finite Markov chain. (English summary) (*see* **93g:93005**)

Gauthier, Jean-Paul *see* **Deza, François; et al., 93b:93106**

Gawthrop, P. J. (*with* Jones, Richard W.; MacKenzie, S. A.) Identification of partially-known systems.

Gerencsér, László The law of the cubic root. (English summary) (*see* **93h:93009**)

— Fixed gain estimation and tracking. (English summary) (*see* **93g:93007**)

Giannakis, Georgios B. (*with* Swami, Ananthram) Identifiability of general ARMA processes using linear cumulant-based estimators. **93a:93102**

Goshen-Meskin, Drora (*with* Bar-Itzhack, I. Y.) On the connection between estimability and observability. (English summary) **93f:93120**

Guo, Lei (*with* Moore, John Barratt) Stochastic system identification via adaptive spectral factorization. **93d:93079**

— (*with* Chen, Han Fu) The Astrom-Wittenmark self-tuning tracker. (English summary) (*see* **93h:93009**)

— (*with* Chen, Han Fu; Zhang, Ji Feng) Estimating time-varying parameters in regression models. (English summary) (*see* **93h:93009**)

Halanay, Aristide (*with* Morozan, Toader) Tracking almost periodic signals under white noise perturbations. (*see* **93d:93009**)

Hanus, Raymond (*with* Peng, You Bin; Henrotte, Jean-Luc) Parameter estimation using orthonormalization. (English summary) (*see* **93c:93005**)

He, Qing Hong *see* **Zhang, Shi Ying**

Henriksen, Rolf Accuracy of some robust estimators based upon prefiltering of the input/output data. (English summary) (*see* **93h:93009**)

— Accuracy of some robust estimators based upon prefiltering of the input/output data. (English summary) **93i:93118**

Henrotte, Jean-Luc *see* **Hanus, Raymond; et al., (93c:93005)**

Hjalmarsson, Håkan (*with* Ljung, Lennart) Estimating model variance in the case of undermodeling.

Ho, Yu-Chi *see* **Zhang, Bin, 93f:93122**

Holst, J. *see* **Parkum, J. E.; et al., (93h:93009)**

Hu, Jian Sheng (*with* Yang, Cheng Wu) A discrete pulse orthogonal function method for the analysis of discrete systems and parameter estimation. (Chinese. Chinese summary)

— *see also* **Yang, Cheng Wu**

Inouye, Y. (*with* Umeda, Tomio) Cumulant-based parameter estimation of multichannel ARMA models. (English summary) (*see* **93g:93005**)

Jia, Pei Zhang A new method for obtaining robust initial estimates in a linear model. (Chinese. English and Chinese summaries)

Jones, G. N. *see* **Billings, S. A.**

Jones, Richard W. *see* **Gawthrop, P. J.; et al.**

Kárný, Miroslav (*with* Nagy, Ivan) Recursive least squares approximation of Bayesian non-Gaussian/nonlinear estimation. (English summary) **93h:93074**

Kazimierczyk, Piotr Consistent ML estimator for drift parameters of both ergodic and nonergodic diffusions. (English summary) (*see* **93d:93009**)

Keller, J. Y. (*with* Nowakowski, S.; Darouach, Mohamed) State estimation and failure detection in singular systems. (English summary)

Khargonekar, Pramod P. *see* **Krause, James M., 93d:93080**

Kleinman, David L. *see* **Tang, Zhuang-Bo; et al.**

Knopov, P. S. (*with* Yatsenko, V. A.) Estimation of unknown parameters of an almost periodic signal from controlled bilinear observations. (Russian. Russian summary)

Kocherga, Yu. L. Minimax forecasting in a class of linear models under interval constraints. (Russian. English, Russian and Ukrainian summaries) **93h:93075**

Koketsu, Y. *see* **Uosaki, K., (93g:93005)**

Kolobov, M. G. State estimation of a dynamical system in the presence of uncertain state

and noise measurement components. (Russian) **93b:93107**

Konev, V. V. (*with* Pergamenshchikov, S. M.) Sequential estimation of the parameters of linear unstable stochastic systems with guaranteed mean-square accuracy. (Russian. Russian summary) **93j:93141**

Korbicz, Józef (*with* Fathi, Zohreh; Ramirez, W. Fred) State estimation schemes for fault detection and diagnosis in dynamic systems. (English summary)

Krause, James M. (*with* Khargonekar, Pramod P.) A comparison of classical stochastic estimation and deterministic robust estimation. **93d:93080**

Kravchenko, S. N. (*with* Nazarenko, A. I.) Recurrent method of constructing autoregression equations for vector processes. (Russian. Russian summary) **93h:93076**

Kulhavý, Rudolf On design of approximate finite-dimensional estimators: the Bayesian view. (English summary) **93i:93119**

— Recursive nonlinear estimation: geometry of a space of posterior densities. **93c:93047**

Landwehr, M. (*with* Lefarth, U.; Wassmuth, E.) Parameter identification and optimization of nonlinear dynamic systems, exemplified by mechatronic systems. (English summary) (*see* **93e:00021**)

Lee, Seung *see* **Ahn, Doo-Soo; et al., (93a:93005)**

Lefarth, U. *see* **Landwehr, M.; et al., (93e:00021)**

Li, Zheng Mao *see* **Miao, Yong Feng**

Lindquist, Anders (*with* Picci, Giorgio) A geometric approach to modelling and estimation of linear stochastic systems. **93a:93103**

Ljung, Lennart *see* **Hjalmarsson, Håkan** *and* **Nagy, P. A. J., (93h:93009)**

Loffler, Cristophe *see* **Mielcarek, Didier; et al., (93c:93005)**

Lü, Yong Zai *see* **Zhao, Ming Wang**

MacKenzie, S. A. *see* **Gawthrop, P. J.; et al.**

Mehdi, D. *see* **Darouach, Mohamed; et al.**

Miao, Yong Feng (*with* Li, Zheng Mao) Prediction of nonlinear systems on the basis of multilayer neural networks. (Chinese. English and Chinese summaries)

Mielcarek, Didier (*with* Loffler, Cristophe; Ragot, José; Bloch, Gérard) A comparative study of some recursive parameters estimation algorithms for multivariable systems. (English summary) (*see* **93c:93005**)

Minamide, Nariyasu (*with* Nikiforuk, Peter N.) Conditional entropy theorem for recursive parameter estimation and its application to state estimation problems. (English summary) **93k:93107**

Mizowaki, A. *see* **Sunahara, Yoshifumi, (93c:93005)**

Moore, John Barratt *see* **Guo, Lei, 93d:93079**

Morozan, Toader *see* **Halanay, Aristide, (93d:93009)**

Mosca, Edoardo *see* **Chisci, L., (93a:93006)**

Moustafa, Kamal A. F. (*with* Emara-Shabaik, Hosam E.) Nonlinearity detection of weakly nonlinear dynamic systems using cumulants. (English summary)

Muraca, P. *see* **Carotenuto, L.; et al., (93e:00021)**

Nagai, Hideo *see* **Bensoussan, Alain, (93d:93009)**

Nagy, Ivan *see* **Kárný, Miroslav, 93h:93074**

Nagy, P. A. J. (*with* Ljung, Lennart) Estimating time-delays via state-space identification methods. (English summary) (*see* **93h:93009**)

Nazarenko, A. I. *see* **Kravchenko, S. N., 93h:93076**

Nikiforuk, Peter N. *see* **Minamide, Nariyasu, 93k:93107**

Nishar, D. V. *see* **Dhawan, R. K.; et al., (93h:93009)**

Nowakowski, S. *see* **Keller, J. Y.; et al.**

Ohta, Mitsuo *see* **Uchino, E.; et al.**

Palaniswami, M. *see* **Feng, Gang, 93d:93078**

Pankov, A. R. *see* **Borisov, A. V.; et al., 93e:93060**

Parkum, J. E. (*with* Poulsen, N. K.; Holst, J.) Analysis of forgetting algorithms. (English summary) (*see* **93h:93009**)

Pattipati, Krishna R. *see* **Tang, Zhuang-Bo; et al.**

Peng, You Bin *see* **Hanus, Raymond; et al., (93c:93005)**

Pergamenshchikov, S. M. *see* **Konev, V. V., 93j:93141**

Picard, Jean Estimation of the quadratic variation of nearly observed semimartingales with application to filtering. (English summary) **93k:93108**

Picci, Giorgio *see* **Lindquist, Anders, 93a:93103**

Piercy, Neil P. Sensor failure estimators for detection filters. (English summary)

Poulsen, N. K. *see* **Parkum, J. E.; et al., (93h:93009)**

Poznyak, A. S. *see* **Bondarenko, M. V., 93i:93115**

Prasada Rao, Ganti *see* **Dhawan, R. K.; et al., (93h:93009)**

Prior-Wandesforde, A. R. *see* **Farrier, D. R., (93j:93007)**

Pugliese, P. *see* **Carotenuto, L.; et al., (93e:00021)**

Qin, Chao Ying (*with* Dai, Guan Zhong) State estimation of generalized discrete stochastic linear systems. (Chinese. English and Chinese summaries)

Radchenko, I. F. On a method for estimating perturbations. (Russian. English, Russian and Ukrainian summaries) **93g:93083**

Ragot, José *see* **Mielcarek, Didier; et al., (93c:93005)**

Raiconi, G. *see* **Carotenuto, L.; et al., (93e:00021)**

Rakotopara, Daniel *see* **Deza, François; et al., 93b:93106**

Ramirez, W. Fred *see* **Korbicz, Józef; et al.**

Runkle, D. E. *see* **Young, P. C., (93j:93007)**

Sahai, A. *see* **Dhawan, R. K.; et al., (93h:93009)**

Saito, K. *see* **Uosaki, K., (93j:93007)**

Shaked, U. *see* **Yaesh, I., 93j:93143**

Shim, Jae-Sun *see* **Ahn, Doo-Soo; et al., (93a:93005)**

Shin, V. I. *see* **Sinitsyn, I. N., 93h:93077** *and* **93h:93078**

Shiryaev, V. I. Guaranteed control algorithms of the dynamic systems under statistical uncertainty conditions. (English summary) (*see* **93e:00021**)

Silaev, A. I. Constructive estimation of the true local maximum of the a posteriori probability for nondiscrete distribution of the undetermined parameters. (Russian) **93c:93048**

Sinitsyn, I. N. (*with* Shin, V. I.) Conditionally optimal filtering of processes in stochastic differential systems by complex statistical criteria. (Russian) **93h:93077**

— (*with* Shin, V. I.) State and parameter estimation in discrete stochastic systems by complex statistical criteria. (Russian) **93h:93078**

Sklyar, M. V. *see* **Zgurovskii, M. Z., 93f:93121**

Sot-skii, N. M. *see* **Borisov, A. V.; et al., 93e:93060**

Spathopoulos, M. P. On a higher order recursive technique for frequency estimation. (English summary) (*see* **93j:93007**)

Stepanov, O. A. Analysis of the accuracy of one-dimensional correlation-extremal systems in the presence of scale distortions. (Russian. Russian summary) **93j:93142**

Sun, You Xian *see* **Zhou, Dong Hua; et al.**

Sunahara, Yoshifumi (*with* Mizowaki, A.) Regularized maximum likelihood estimate for time-variant parameters of stochastic linear systems. (English summary) (*see* **93c:93005**)

Swami, Anantharam *see* **Giannakis, Georgios B., 93a:93102**

Takata, H. *see* **Uchino, E.; et al.**

Tang, Zhuang-Bo (*with* Pattipati, Krishna R.; Kleinman, David L.) A distributed M-ary hypothesis testing problem with correlated observations.

Tian, Shu Bao *see* **Zhou, Jun; et al.**

Tsang, K. M. (*with* Billings, S. A.) A prediction-error estimation algorithm for the reconstruction of linear and nonlinear continuous time models from frequency response data. (English summary)

Tsypkin, Ya. Z. (*with* Aved'yan, È. D.) Optimal off-line signal processing. (English summary) (*see* **93j:93007**)

Uchino, E. (*with* Ohta, Mitsuo; Takata, H.) A new state estimation method for a quantized stochastic sound system based on a generalized statistical linearization. (English summary)

Umeda, Tomio *see* **Inouye, Y., (93g:93005)**

Uosaki, K. (*with* Saito, K.) Robust parameter estimation procedure for ε-contaminated probability distribution models with uncertain gross-error. (English summary) (*see* **93j:93007**)

— (*with* Koketsu, Y.) Optimal state estimation for nonlinear dynamical systems using stochastic approximation. (English summary) (*see* **93g:93005**)

Wan, Bai Wu *see* **Chen, Qing Xin, 93h:93073**

Wassmuth, E. *see* **Landwehr, M.; et al., (93e:00021)**

Wen, He Ning *see* **Chen, Bing**

Weyer, E. A recursive decentralized parameter estimator for a general linear SISO-system. (English summary) (*see* **93h:93009**)

White, Langford B. An iterative method for exact maximum likelihood estimation of the parameters of a harmonic series. (English summary)

Wiberg, D. M. (*with* Campbell, L. A.) A discrete-time convergent approximation of the optimal recursive parameter estimator. (English summary) (*see* **93h:93009**)

Wu, Da Jin *see* **Cao, Li[1]**

Xi, Yu Geng *see* **Zhou, Dong Hua; et al.**

Xue, Lü Zhong *see* **Zhou, Jun; et al.**

Yaesh, I. (*with* Shaked, U.) H_∞-optimal estimation—the discrete time case. (English summary) **93j:93143**

Yang, Cheng Wu (*with* Hu, Jian Sheng) A new method of parameter estimation for time-delay linear systems—the Fourier series method. (Chinese. English and Chinese summaries)

— *see also* **Hu, Jian Sheng**

Yatsenko, V. A. *see* **Knopov, P. S.**

Young, P. C. (*with* Runkle, D. E.) Recursive estimation and modelling of nonstationary and nonlinear time-series. (English summary) (*see* **93j:93007**)

Yu, Dao Rong *see* **Zhao, Ping Ya, 93f:93123**

Zaitsev, V. G. *see* **Bosov, A. A., (93k:00023)**

Zasadzinski, Michel (*with* Darouach, Mohamed) Numerically efficient state estimation for a class of singular systems. (English summary) (*see* **93c:93005**)

— *see also* **Darouach, Mohamed; et al.**

Zeitouni, Ofer *see* **Dembo, Amir, 93b:93105**

Zgurovskii, M. Z. (*with* Sklyar, M. V.) ★ Оценивание состояний и параметров стохастических сингулярно возмущенных по времени систем с распределенными параметрами. (Russian) [Estimation of the states and parameters of stochastic systems, singularly perturbed with respect to time, with distributed parameters] **93f:93121**

Zhang, Bin (*with* Ho, Yu-Chi) Improvements in the likelihood ratio method for steady-state sensitivity analysis and simulation. (English summary) **93f:93122**

Zhang, Ji Feng *see* **Guo, Lei; et al., (93h:93009)**

Zhang, Shi Ying (*with* He, Qing Hong) A method for estimating time-varying parameters of disequilibrium models using a maximum likelihood function with optimal moving windows. (Chinese. English and Chinese summaries)

Zhang, Zhong Jun *see* **Zhou, Dong Hua; et al.**

Zhao, Ming Wang (*with* Lü, Yong Zai) Identification of randomly time-varying parameters by stochastic approximation and a convergence analysis. (Chinese. English and Chinese summaries)

Zhao, Ping Ya (*with* Yu, Dao Rong) Spatially recursive algorithms for adaptive estimation of two-dimensional noncausal and nonstationary simultaneous autoregressive model parameters. (English summary) **93f:93123**

Zhou, Dong Hua (*with* Sun, You Xian; Xi, Yu Geng; Zhang, Zhong Jun) Pseudo separated-bias estimation for a class of nonlinear systems with output bias. (Chinese. English and Chinese summaries)

Zhou, Jun (*with* Tian, Shu Bao; Xue, Lü Zhong) Modified generalized predictive control. (Chinese. English and Chinese summaries)

Items with secondary classifications in 93E10

Ahlén, Anders (*with* Sternad, Mikael) Adaptive input estimation. (English summary) (*see* **93j:93007**)

(Banks, H. T.) *see* **Control and estimation in distributed parameter systems, 93h:93006**

Bensoussan, Alain (*with* Glowinski, Roland) Approximation of Zakai equation by the splitting up method. (English summary) (*see* **93d:93009**)

Bielecki, Tomasz R. (*with* Stettner, Lukasz) On limit control principle for singularly perturbed Markov processes. (*see* **93d:93009**)

Brella, A. *see* **Du, X. C.; et al.**

Bukhalev, V. A. Optimal smoothing in systems with a randomly switching structure. (Russian. Russian summary) **93i:93126**

Ciccarella, G. (*with* Dalla Mora, M.; Germani, Alfredo) A Luenberger-like observer for nonlinear systems. (English summary) **93k:93019**

Dalla Mora, M. *see* **Ciccarella, G.; et al., 93k:93019**
Ding, Feng *see* **Xie, Xin Min, 93k:93116**
Dolzhikov, V. V. *see* **Smyshlyaeva, L. G.; et al., 93c:93050**
Du, X. C. (*with* Brella, A.; Longchamp, R.) Fast algorithm of Chandrasekhar type for ARMA model identification. (English summary)
Feng, Chun Bo *see* **Xu, Li Hong**
Fujita, Masayuki *see* **Uchida, Kenko, 93j:93047**
Gabasov, R. F. (*with* Gaishun, P. V.; Kirillova, F. M.) Optimal estimator for linear systems. (Russian and Lithuanian summaries) **93c:93025**
Gaishun, P. V. *see* **Gabasov, R. F.; et al., 93c:93025**
Gerencsér, László Strong approximation results in estimation and adaptive control. **93e:93074**
— (*with* Vágó, Zsuzsanna) A strong approximation theorem for parameter estimators in continuous time. **93c:62047**
Germani, Alfredo *see* **Ciccarella, G.; et al., 93k:93019**
Glowinski, Roland *see* **Bensoussan, Alain, (93d:93009)**
Goodwin, Graham C. (*with* Mayne, David Q.; Salgado, M. E.) Uncertainty, information and estimation. (English summary) (*see* **93j:93007**)
Granichin, O. N. A stochastic approximation procedure with disturbance at the input. (Russian. Russian summary) **93f:93146**
Guidorzi, R. P. (*with* Stoian, A.) Identification of data-compatible models for control applications. (English summary) (*see* **93f:93005**)
Gyöngy, István On stochastic partial differential equations. Results on approximations. **93c:60091**
(Hanus, Raymond) *see* **Mathematical and intelligent models in system simulation, 93c:93005**
Haurie, Alain (*with* Leizarowitz, Arie) Overtaking optimal regulation and tracking of piecewise diffusion linear systems. **93d:93087**
Hong, Hui Min *see* **Li, Rui Sheng; et al., 93m:93094**
İftar, Altuğ Decentralized estimation and control with overlapping input, state, and output decomposition. (English summary)
Kirillova, F. M. *see* **Gabasov, R. F.; et al., 93c:93025**
Knobloch, Hans-W. Control under uncertain dynamics. **93i:93079**
(Kool, P.) *see* **Mathematical and intelligent models in system simulation, 93c:93005**
Korbicz, Józef (*with* Zgurovskii, M. Z.) ★ Estymacja i sterowanie stochastyczne układami o parametrach rozłożonych. (Polish) [Estimation and control of stochastic systems with distributed parameters] **93f:93001**
Kramer Johnson, Kelly *see* **Sandberg, Irwin W., 93k:93055**
Kushner, Harold J. (*with* Yang, Jichuan) A Monte Carlo method for sensitivity analysis and parametric optimization of nonlinear stochastic systems: the ergodic case. **93a:90049**
— *see also* **Yang, Jichuan, 93d:93093**
Lazareva, B. V. Some procedures for the interpolation of a partially observable Markov process. (Russian) **93m:62204**
L'Ecuyer, Pierre Convergence rates for steady-state derivative estimators. (English summary) **93j:90040**
Leizarowitz, Arie *see* **Haurie, Alain, 93d:93087**
Li, Rui Sheng (*with* Ma, Ping; Hong, Hui Min) Robustness and convergence of least-squares identification and adaptive tracking for stochastic system. (English and Chinese summaries) **93m:93094**
Ljung, Lennart (*with* Pflug, G. Ch.; Walk, Harro) ★ Stochastic approximation and optimization of random systems. **93j:62206**
— *see also* **Wahlberg, B.; et al., (93h:93009)**
Longchamp, R. *see* **Du, X. C.; et al.**
Lyashenko, E. A. (*with* Ryashko, L. B.) Estimation by means of a filter that contains random noise. (Russian. Russian summary) **93d:93083**
Ma, Ping *see* **Li, Rui Sheng; et al., 93m:93094**
Malinina, T. B. *see* **Smyshlyaeva, L. G.; et al., 93c:93050**
Markov, Svetoslav M. (*with* Popova, E. D.) Estimation and identification using interval arithmetic. (English summary) (*see* **93h:93009**)
Mathur, Anoop *see* **Samad, Tariq**
Mayne, David Q. *see* **Goodwin, Graham C.; et al., (93j:93007)**
Medvedev, V. G. Numerical method for the optimal estimation of the initial state of linear dynamic systems. (English summary) (*see* **93e:00021**)
Morse, A. Stephen High-order parameter tuners for the adaptive control of linear and nonlinear systems. (*see* **93a:93006**)
Pflug, G. Ch. *see* **Ljung, Lennart; et al., 93j:62206**
Popova, E. D. *see* **Markov, Svetoslav M., (93h:93009)**
Radojević, Dragan Approaches to identification of linear relations from compound noisy and noise-free data. **93d:62113**
Ryashko, L. B. *see* **Lyashenko, E. A., 93d:93083**
Salgado, M. E. *see* **Goodwin, Graham C.; et al., (93j:93007)**
Samad, Tariq (*with* Mathur, Anoop) Parameter estimation for process control with neural networks. (English summary)
Sandberg, Irwin W. (*with* Kramer Johnson, Kelly) Steady-state errors in nonlinear control systems. (English summary) **93k:93055**
Schwetlick, H. Nonlinear parameter estimation: models, criteria and algorithms. **93f:65012**
Shaked, U. *see* **Yaesh, I., 93b:93039**
Shin, V. I. *see* **Sinitsyn, I. N., 93j:93146**
Sinitsyn, I. N. (*with* Shin, V. I.) Conditionally optimal filtering of processes in stochastic differential systems in the case of autocorrelated noise in observations by complex statistical criteria. (Russian) **93j:93146**
Smyshlyaeva, L. G. (*with* Malinina, T. B.; Dolzhikov, V. V.) ★ Нестандартные задачи фильтрации. (Russian) [Nonstandard filtering problems] **93c:93050**
Söderström, T. *see* **Wahlberg, B.; et al., (93h:93009)**
Starkov, K. E. Observability, state estimation and linearization in the sense of Carleman. (Russian) **93a:93022**
Stepashko, V. S. Investigation of predicting properties of a recurrent structural-parametric identifier. (Russian. English summary)
Sternad, Mikael *see* **Ahlén, Anders, (93j:93007)**
Stettner, Łukasz *see* **Bielecki, Tomasz R., (93d:93009)**
Stoian, A. *see* **Guidorzi, R. P., (93f:93005)**
Tu, Dong Sheng Weighted stochastic approximation of estimates of errors and variance in linear models. (Chinese. Chinese summary) **93j:62177**
(Tzafestas, Spyros G.) *see* **Mathematical and intelligent models in system simulation, 93c:93005**
Uchida, Kenko (*with* Fujita, Masayuki) Controllers attenuating disturbances and initial-uncertainties for time-varying systems. (English summary) **93j:93047**
Vágó, Zsuzsanna *see* **Gerencsér, László, 93c:62047**
Víšek, Jan Ámos Large adaptive estimation in linear regression model. I. Consistency. **93j:62087a**
— Adaptive estimation in linear regression model. II. Asymptotic normality. **93j:62087b**
Wahlberg, B. (*with* Ljung, Lennart; Söderström, T.) On sampling and reconstruction of continuous time stochastic systems. (English summary) (*see* **93h:93009**)
Walk, Harro *see* **Ljung, Lennart; et al., 93j:62206**
Xie, Xin Min (*with* Ding, Feng) A canonical identification model for linear multivariable systems and a structural identification algorithm. (Chinese. English and Chinese summaries) **93k:93116**
Xu, Li Hong (*with* Feng, Chun Bo) A self-tuning robust controller based on a normalized parameter estimation model. (Chinese. English summary)
Yaesh, I. (*with* Shaked, U.) Game theory approach to state estimation of linear discrete-time processes and its relation to H_∞-optimal estimation. **93b:93039**
Yang, Jichuan (*with* Kushner, Harold J.) A Monte Carlo method for sensitivity analysis and parametric optimization of nonlinear stochastic systems. **93d:93093**
— *see also* **Kushner, Harold J., 93a:90049**
Yukhno, P. M. Space-trajectory filtering in correlation-extremal systems. (Russian. Russian summary) **93h:93081**
Zgurovskii, M. Z. *see* **Korbicz, Józef, 93f:93001**

Items listed otherwise than by author

Brussels ★ Mathematical and intelligent models in system simulation. I, II. **93c:93005**
Control and estimation in distributed parameter systems ★ Control and estimation in distributed parameter systems. **93h:93006**
Mathematical and intelligent models in system simulation ★ Mathematical and intelligent models in system simulation. I, II. **93c:93005**
Symposium:
Mathematical and Intelligent Models in System Simulation ★ Mathematical and intelligent models in system simulation. I, II. **93c:93005**

93E11 Filtering [see also 60G35]

Aggoun, Lakhdar (*with* Elliott, Robert James) Finite-dimensional predictors for hidden Markov chains. (English summary) **93k:93109**
Anderson, Brian D. O. *see* **Limebeer, David J. N.; et al., (93f:93006)**
Aoki, Masanao (*with* Dorfman, Jeffrey H.) Statistical analysis of some identification procedures for state space innovation models. (English summary) (*see* **93g:93005**)
Bar-Shalom, Yaakov *see* **Yang, Chun; et al.**
Başar, Tamer Optimum performance levels for minimax filters, predictors and smoothers. **93a:93104**
Basin, M. V. *see* **Orlov, Yu. V., (93i:93005)**
Bassong-Onana, A. (*with* Darouach, Mohamed) Optimal filtering for singular systems using orthogonal transformations. (English summary) **93i:93120**
Bell, Bradley M. (*with* Cathey, Frederick W.) The iterated Kalman filter update as a Gauss-Newton method. (English summary)
Boguslavskii, I. A. (*with* Kalinina, O. L.) Recurrent filtering and identification of dynamical system parameters. (Russian. Russian summary) **93m:93088**
Boguslavsky, Josif A. Applied problems of recursive filtering and system identification. (*see* **93g:93003**)
Borisov, A. V. *see* **Sot·skii, N. M., (93g:00022)**
Bossanne, Denis (*with* Deza, François; Rakotopara, Daniel; Gauthier, Jean-Paul) Un résultat de stabilité du filtre de Kalman étendu pour une large classe de systèmes multi-sorties. (English summary) [A stability result on the extended Kalman filter for a large class of multi-output systems] **93d:93081**
Bougerol, Philippe Filtre de Kalman-Bucy et exposants de Lyapounov. (English and French summaries) [Kalman-Bucy filter and Lyapunov exponents] **93f:93124**
— Some results on the filtering Riccati equation with random parameters. **93e:93061**
Bovbel', D. O. (*with* Kharisov, V. N.) Algorithms for filtering the parameters of signals on the basis of new approximation methods. (Russian. Russian summary)
Broomhead, D. S. (*with* Huke, J. P.; Muldoon, M. R.) Linear filters and nonlinear systems. **93h:93079**
Burnham, K. J. *see* **Randall, Duane; et al.** *and* **Warwick, Kevin, (93j:93007)**
Busvelle, Éric *see* **Deza, François; et al., 93f:93126**
Cai, Qing Yu *see* **Zhang, Bo Yan; et al.**
Caines, Peter E. *see* **Nassiri-Toussi, K., (93g:93005)**
Callier, Frank M. *see* **Willems, Jacques L., 93f:93130**
Cathey, Frederick W. *see* **Bell, Bradley M.**
Chen, Guan Rong (*with* Öğmen, Haluk) Modified extended Kalman filtering for supervised learning. (English summary)
Chisci, L. (*with* Zappa, Giovanni) A generalized SRIF algorithm for systolic implementation. (English summary) (*see* **93h:93009**)
— (*with* Zappa, Giovanni) Square-root Kalman filtering of descriptor systems. (English summary) **93f:93125**
Cipra, Tomáš (*with* Romera Ayllón, Ma. Rosario) Robust Kalman filter and its application in time series analysis. **93b:93108**
Darouach, Mohamed *see* **Bassong-Onana, A., 93i:93120**
Deng, Zi Li (*with* Qin, Bin) A self-tunning Kalman filter with input estimation and its application. (Chinese. English and Chinese summaries)
— (*with* Qin, Bin) A self-tuning α-β-γ-tracking filter with a maneuvering input decision and estimation. (Chinese. English and Chinese summaries)
De Nicolao, Giuseppe Cyclomonotonicity and stabilizability properties of solutions of the difference periodic Riccati equation. (English summary) **93i:93121**

Deza, François (*with* Busvelle, Éric; Gauthier, Jean-Paul; Rakotopara, Daniel) Un résultat de stabilité des filtres de Kalman étendu continu-continu et continu-discret. (English summary) [A stability result for continuous-continuous and continuous-discrete extended Kalman filters] **93f:93126**

— *see also* **Bossanne, Denis; et al., 93d:93081**

Djurovic, Željko *see* **Kovačević, Branko; et al., 93f:93128**

Dolzhikov, V. V. *see* **Smyshlyaeva, L. G.; et al., 93c:93050**

Dorfman, Jeffrey H. *see* **Aoki, Masanao, (93g:93005)**

Du, Xi Yu *see* **Wang, Li Zhi; et al., 93d:93084**

Elliott, Robert James Finite-dimensional filters related to Markov chains. (English summary) **93m:93089**

— *see also* **Aggoun, Lakhdar, 93k:93109**

Elsayed, Ahmed *see* **Grimble, M. J.; et al., (93j:93007)**

Enchev, Ognian Nonlinear filtering for signal correlated with the noise. (*see* **93d:93009**)

Ershov, L. A. (*with* Mazmanishvili, A. S.; Tolmachev, V. I.) Application of methods of continual integration with respect to a dissipative measure in problems of optimal filtering of random processes. (Russian) **93d:93082**

Feliachi, Ali Distributed filtering. (English summary) **93j:93144**

Flamm, David S. A new shift-invariant representation for periodic linear systems. **93a:93105**

Fleming, P. *see* **Lawrie, D. I., (93h:93007)**

Fleming, Wendell H. (*with* Zhang, Qing[1]) Piecewise monotone filtering with small observation noise: numerical simulations. **93c:93049**

Gaston, F. M. F. *see* **Kadlec, Jan; et al., (93f:93005)**

Gauthier, Jean-Paul *see* **Bossanne, Denis; et al., 93d:93081** *and* **Deza, François; et al., 93f:93126**

Geletukha, V. V. *see* **Mikhalochkin, N. A.**

Glavaški, Sonja *see* **Kovačević, Branko; et al., 93f:93128**

Golubev, G. A. (*with* Muravlev, V. F.; Pisarev, O. V.) Design of minimax linear filters of minimal dimension for discrete-time dynamical processes. (Russian) **93a:93106**

Grimble, M. J. (*with* Ho, Daniel W. C.; Elsayed, Ahmed) H_∞ robust linear estimator. (English summary) (*see* **93j:93007**)

Gzyl, Henryk Nonunitary representation of canonical transformations and applications to filtering theory. **93e:93062**

He, Guan Yu A recursive filter for linear discrete systems with delayed observations. (Chinese. English summary) **93e:93063**

— A recursive filter for nonlinear discrete-time systems with linear observations. (Chinese. English and Chinese summaries) **93e:93064**

— A recursive filter for first-order discrete systems with nonnormal noises. (Chinese. English summary)

He, Zhi Bin *see* **Zhang, Hong Cai; et al.**

Hendel, B. *see* **Limebeer, David J. N.; et al., (93f:93006)**

Hinamoto, Takao (*with* Toshiaki, Takao; Muneyasu, Mitsuji) Synthesis of 2-D separable-denominator digital filters with low sensitivity. (English summary) **93i:93122**

Ho, Daniel W. C. *see* **Grimble, M. J.; et al., (93j:93007)**

Hoàng Hòng So'n (*with* Nguyen Thuc Loan) Time-stable nonlinear filters: stochastic Lyapunov function approach. (English summary) (*see* **93g:93005**)

Hui, S. Y. R. (*with* Woolfson, M. S.) Solution of the continuous Kalman filter equations using the transmission line method. (English summary)

Huke, J. P. *see* **Broomhead, D. S.; et al., 93h:93079**

Irwin, G. W. *see* **Kadlec, Jan; et al., (93f:93005)** *and* **Kee, R. J., (93h:93007)**

James, D. J. G. *see* **Randall, Duane; et al.**

James, Matthew R. (*with* Le Gland, François) Numerical approximation for nonlinear filtering and finite-time observers. **93f:93127**

Jetto, L. A numerical method for computing the approximate solution of the infinite-dimensional discrete-time optimal linear filtering problem. (English summary) (*see* **93f:93005**)

Kadlec, Jan (*with* Gaston, F. M. F.; Irwin, G. W.) Regularised lattice-ladder adaptive filter. (English summary) (*see* **93f:93005**)

Kalinina, O. L. *see* **Boguslavskii, I. A., 93m:93088**

Kárný, Miroslav *see* **Nagy, Ivan, 93k:93111**

Katayama, Tohru Solution to Wiener filtering problem via H_2 optimal control theory. (English summary) **93k:93110**

Kee, R. J. (*with* Irwin, G. W.) Transputer implementation of tracking Kalman filters. (English summary) (*see* **93h:93007**)

Kerbelev, A. M. Asymptotically optimal linear filtering in the presence of high-frequency uncertainty in the dynamics of the process. (Russian. Russian summary) **93m:93090**

Kharisov, V. N. *see* **Bovbel', D. O.**

Khatuntsev, A. P. *see* **Korepanov, È. R.; et al.**

Khutortsev, V. V. Use of the method of invariant embedding for synthesizing an iterative algorithm for finding an optimal control of a measurement process. (Russian. Russian summary)

Kliokys, E. (*with* Kulhavý, Rudolf) Bayesian filtering for discrete-time systems with random structure. (English summary) (*see* **93j:93007**)

Korepanov, È. R. (*with* Pugachev, V. S.; Sinitsyn, I. N.; Khatuntsev, A. P.; Shin, V. I.; Sinitsyn, V. I.) Mathematical software for the design of conditionally optimal filters and the analysis of processes in discrete stochastic systems. (Russian. Russian summary)

— Discrete conditionally optimal filters with memory. (Russian) **93h:93080**

Kovačević, Branko (*with* Djurovic, Željko; Glavaški, Sonja) On robust Kalman filtering. (English summary) **93f:93128**

Kozlowski, Krzysztof New computational algorithms for a discrete Kalman filter in robot dynamics. (English, Russian and Polish summaries)

Kulhavý, Rudolf *see* **Kliokys, E., (93j:93007)**

Lawrie, D. I. (*with* Fleming, P.) Fine-grain parallel processing implementations of Kalman filter algorithms. (*see* **93h:93007**)

Lee, Che Ping Application of the Kalman filter to capital accumulation. (English summary)

Le Gland, François *see* **James, Matthew R., 93f:93127**

Le N'i Zyong *see* **Nguyen Tien Khiem, (93e:60002)**

Leonov, V. A. (*with* Poplavskiĭ, B. K.) Filtering of measurement errors in the estimation of a linear transformation of a useful signal. (Russian. Russian summary) **93j:93145**

Limebeer, David J. N. (*with* Anderson, Brian D. O.; Hendel, B.) Mixed H_2/H_∞ filtering by the theory of Nash games. (English summary) (*see* **93f:93006**)

Lin, Ching Fang *see* **Yang, Chun; et al.**

Liptser, R. Sh. (*with* Lototskiĭ, S. V.) Diffusion approximation and robust Kalman filter. **93b:93109**

Liu, Pin (*with* Zhang, Zhong Jun) A Kalman filter with H_∞ error bound. (Chinese. English and Chinese summaries) **93i:93123**

Lototskiĭ, S. V. *see* **Liptser, R. Sh., 93b:93109**

Lyashenko, E. A. (*with* Ryashko, L. B.) Estimation by means of a filter that contains random noise. (Russian. Russian summary) **93d:93083**

Maksarov, D. G. The Kalman filter for a random process described by a Volterra integral equation of the second kind. (Russian) **93a:93107**

— Using Volterra integral equations in filtering theory. (English and Latvian summaries) (*see* **93e:60006**)

Malinina, T. B. *see* **Smyshlyaeva, L. G.; et al., 93c:93050**

Mazmanishvili, A. S. *see* **Ershov, L. A.; et al., 93d:93082**

Mignolet, Marc P. (*with* Spanos, Pol-T. D.) Simulation of homogeneous two-dimensional random fields. I. AR and ARMA models. (English summary) **93f:93129a**

— *see also* **Spanos, Pol-T. D., 93f:93129b**

Mikhalochkin, N. A. (*with* Geletukha, V. V.) Synthesis of a linear stochastic differential system for optimal two-step processing of information. (Russian)

Mohammed, Thaier N. SHSER: an algorithm for recursive filters. (English summary) (*see* **93e:00021**)

Muldoon, M. R. *see* **Broomhead, D. S.; et al., 93h:93079**

Muneyasu, Mitsuji *see* **Hinamoto, Takao; et al., 93i:93122**

Muravlev, V. F. *see* **Golubev, G. A.; et al., 93a:93106**

Nagy, Ivan (*with* Kárný, Miroslav) A view on filtering of continuous data signals. (English summary) **93k:93111**

Nassiri-Toussi, K. (*with* Caines, Peter E.) Adaptive jump-Markov systems, nonlinear filtering and invariant measures. (English summary) (*see* **93g:93005**)

Nguyen Thuc Loan *see* **Hoàng Hòng So'n, (93g:93005)**

Nguyen Tien Khiem (*with* Le N'i Zyong) Spectral study of linear filters. (Russian. Russian summary) (*see* **93e:60002**)

Öğmen, Haluk *see* **Chen, Guan Rong**

Orlov, Yu. V. (*with* Basin, M. V.) On filtering of the Hilbert space-valued stochastic process over discrete-continuous observations. (English summary) (*see* **93i:93005**)

Ozaki, Tohru A local linearization approach to nonlinear filtering. (English summary)

Pankov, A. R. Design of conditionally optimal nonlinear filters by the modeling method. (Russian) (*see* **93g:00022**)

Pardoux, Étienne (*with* Roubaud, M. C.) Finite-dimensional approximate filters in the case of high signal-to-noise ratio. **93a:93108**

Picard, Jean A nonlinear filter with two time scales. **93g:93084**

Pisarev, O. V. *see* **Golubev, G. A.; et al., 93a:93106**

Poplavskiĭ, B. K. *see* **Leonov, V. A., 93j:93145**

Prikhod'ko, M. L. A multistep algorithm for filtering processes in nonlinear discrete stochastic systems. (Russian. Russian summary) **93m:93091**

Pugachev, V. S. *see* **Korepanov, È. R.; et al.**

Qin, Bin *see* **Deng, Zi Li**

Rakotopara, Daniel *see* **Bossanne, Denis; et al., 93d:93081** *and* **Deza, François; et al., 93f:93126**

Randall, Duane (*with* Burnham, K. J.; James, D. J. G.) A study of Kalman filtering techniques for joint state and parameter estimation in self-tuning control. (Polish summary)

Rao, Ming *see* **Shen, Xuemin; et al.**

Romera Ayllón, Ma. Rosario *see* **Cipra, Tomáš, 93b:93108**

Roubaud, M. C. An approximate filter for a partially observed piecewise linear system with small observation noise. (English summary) **93m:93092**

— *see also* **Pardoux, Étienne, 93a:93108**

Ryashko, L. B. *see* **Lyashenko, E. A., 93d:93083**

Sagara, Setsuo (*with* Zhao, Zhen-Yu) Filtering approaches to identification of continuous systems. (English summary) (*see* **93h:93009**)

Šebek, Michael Multi-variable 2-D Kalman-Bucy filtering problem via polynomial matrix techniques. (English summary) (*see* **93g:93006**)

— Polynomial solution of 2-D Kalman-Bucy filtering problem. (English summary)

Shen, Xuemin (*with* Rao, Ming; Ying, Yiqun) Decomposition method for solving Kalman filter gains in singularly perturbed systems. (English summary)

Shin, V. I. *see* **Sinitsyn, I. N., 93j:93146** *and* **Korepanov, È. R.; et al.**

Sinitsyn, I. N. Ill-posed problems of on-line conditionally optimal filtering. (English summary) (*see* **93m:00041**)

— (*with* Shin, V. I.) Conditionally optimal filtering of processes in stochastic differential systems in the case of autocorrelated noise in observations by complex statistical criteria. (Russian) **93j:93146**

— *see also* **Korepanov, È. R.; et al.**

Sinitsyn, V. I. *see* **Korepanov, È. R.; et al.**

Sirisaengtaksin, O. On multitime method for linear filtering.

Smyshlyaeva, L. G. (*with* Malinina, T. B.; Dolzhikov, V. V.) ★ Нестандартные задачи фильтрации. (Russian) [Nonstandard filtering problems] **93c:93050**

Sot·skiĭ, N. M. (*with* Borisov, A. V.) A method for estimating the motion of a particle by means of two filters. (Russian) (*see* **93g:00022**)

Spanos, Pol-T. D. (*with* Mignolet, Marc P.) Simulation of homogeneous two-dimensional random fields. II. MA and ARMA models. (English summary) **93f:93129b**

— *see also* **Mignolet, Marc P., 93f:93129a**

Tang, Yu Adaptive frequency response identification using the Lagrange filter. (English summary)

Tolmachev, V. I. *see* **Ershov, L. A.; et al., 93d:93082**

Toshiaki, Takao *see* **Hinamoto, Takao; et al., 93i:93122**

Trần Hùng Thao Optimal state estimation of a Markov process from point process observations. **93k:93112**

Tzafestas, Spyros G. *see* **Watanabe, Keigo, (93j:93007)**

Wang, Li Zhi (*with* Du, Xi Yu; Xia, Fei) Nonessential singularities of the second kind and stability for multidimensional digital filters. (English summary) **93d:93084**

Warwick, Kevin (*with* Burnham, K. J.) Filtered and predicted states for discrete-time adaptive control. (English summary) (*see* **93j:93007**)

Watanabe, Keigo (*with* Tzafestas, Spyros G.) A U-D fixed-interval smoother in backward-pass realization. (English summary) (*see* **93j:93007**)

Willems, Jacques L. (*with* Callier, Frank M.) Divergence of the stationary Kalman filter for correct and for incorrect noise variances. (English summary) **93f:93130**

Wong, Wing Shing Recent results of finite-dimensional estimation algebras. (English summary) (*see* **93g:93007**)

Woolfson, M. S. *see* **Hui, S. Y. R.**

Xi, Yu Geng *see* **Zhou, Dong Hua**

Xia, Fei *see* **Wang, Li Zhi; et al., 93d:93084**

Yang, Chun (*with* Bar-Shalom, Yaakov; Lin, Ching Fang) Discrete-time point process filter for mode estimation. (English summary)

Ying, Yiqun *see* **Shen, Xuemin; et al.**

Yuan, Zeng Ren *see* **Zhang, Bo Yan; et al.**

Yukhno, P. M. Space-trajectory filtering in correlation-extremal systems. (Russian. Russian summary) **93h:93081**

Zappa, Giovanni *see* **Chisci, L., 93f:93125** *and* **(93h:93009)**

Zhang, Bo Yan (*with* Cai, Qing Yu; Yuan, Zeng Ren) The study of a new method for tracking maneuvering targets. (English and Chinese summaries)

Zhang, Hong Cai (*with* Zhang, You Min; He, Zhi Bin) A robust self-adaptive extended Kalman filter and its application to flight state estimation. (Chinese. English and Chinese summaries)

Zhang, Qing[1] *see* **Fleming, Wendell H., 93c:93049**

Zhang, You Min *see* **Zhang, Hong Cai; et al.**

Zhang, Zhong Jun *see* **Liu, Pin, 93i:93123**

Zhao, Zhen-Yu *see* **Sagara, Setsuo, (93h:93009)**

Zhou, Dong Hua (*with* Xi, Yu Geng) Detection and diagnostics of impulse faults for a class of nonlinear systems. (Chinese. English and Chinese summaries)

Items with secondary classifications in 93E11

Accardi, Luigi A new class of quantum states: examples and applications. (*see* **93e:81158**)

Arjas, Elja (*with* Haara, Pentti; Norros, Ilkka) Filtering the histories of a partially observed marked point process. **93j:60054**

Arkhipov, M. V. (*with* Bukov, V. N.) Estimation in an adaptive optimal control system. (Russian. Russian summary) **93e:93042**

Bakia, I. A. On the payoff convergence rate estimation in the problem of optimal stopping of random processes in the Kalman-Bucy scheme. (Russian and Georgian summaries)

Bauer, Peter H. (*with* Leclerc, Louis-Jérôme) Bounded-input–bounded-output properties of nonlinear discrete difference equations—applications to fixed-point digital filters. (English summary)

Belavkin, V. P. Stochastic posterior equations for quantum nonlinear filtering. **93b:81126**

Bensoussan, Alain Homogenization of a class of stochastic partial differential equations. **93a:35015**

— ★ Stochastic control of partially observable systems. **93i:93001**

Bittanti, Sergio (*with* De Nicolao, Giuseppe) Spectral factorization of linear periodic systems with application to the optimal prediction of periodic ARMA models. (English summary)

Broida, T. J. Kinematic and statistical models for data fusion using Kalman filtering. (*see* **93g:68002**)

Brown, Christopher (*with* Durrant-Whyte, H.; Leonard, J.; Rao, B. Y.; Steer, Brian) Distributed data fusion using Kalman filtering: a robotics application. (*see* **93g:68002**)

Bukhalev, V. A. Recursion algorithms for recognition and estimation of the state of a dynamic object on the basis of information from measurers and indicators. I. Observation with lag. (Russian. Russian summary) **93i:93116**

Bukov, V. N. *see* **Arkhipov, M. V., 93e:93042**

Busvelle, Éric *see* **Deza, François; et al., 93b:93106**

Cunningham, Edward P. ★ Digital filtering. **93g:94001**

Dai, Guan Zhong *see* **Zhang, You Min; et al.**

Dailly, C. *see* **Smith, P. R., (93h:93007)**

Deng, T. (*with* Kawamata, M.; Higuchi, Tatsuo) Design of two-dimensional recursive digital filters based on the optimal decomposition of magnitude specifications. (English summary) (*see* **93g:93006**)

De Nicolao, Giuseppe *see* **Bittanti, Sergio**

De Santis, Alberto (*with* Gandolfi, Alberto; Germani, Alfredo; Tardelli, Paola) A representation theorem for Radon-Nikodým derivatives in the white-noise theory. (English summary) **93h:60006**

— (*with* Germani, Alfredo; Scoglio, Caterina) Kalman filter approach to solution of rational expectations models. (English summary)

Deza, François (*with* Busvelle, Éric; Gauthier, Jean-Paul; Rakotopara, Daniel) High gain estimation for nonlinear systems. **93b:93106**

Drăgan, Vasile Optimal stabilizing compensator for linear systems under white noise perturbations. (English summary) **93j:93126**

— (*with* Morozan, Toader; Halanay, Aristide) Optimal stabilizing compensator for linear systems with state-dependent noise. (English summary) **93j:93127**

Durrant-Whyte, H. *see* **Brown, Christopher; et al., (93g:68002)**

Elliott, Robert James (*with* Sworder, D. D.) Control of a hybrid conditionally linear Gaussian process. **93f:93138**

Fu, Minyue (*with* de Souza, Carlos E.) H_∞ filtering and loop transfer recovery. (English summary) (*see* **93g:93005**)

Furuya, M. *see* **Sano, A.; et al., (93j:93007)**

Gandolfi, Alberto *see* **De Santis, Alberto; et al., 93h:60006**

García, Carlos E. *see* **Rivera, Daniel E.; et al.**

Gauthier, Jean-Paul *see* **Deza, François; et al., 93b:93106**

Germani, Alfredo *see* **De Santis, Alberto; et al., 93h:60006**

Golubev, G. A. (*with* Pisarev, O. V.) Linear filtering of stationary discrete-time processes. (Russian. Russian summary) **93k:60104**

Golubev, G. K. Quasilinear filtering of Gaussian stationary sequences. (Russian) **93e:60084**

Haara, Pentti *see* **Arjas, Elja; et al., 93j:60054**

Halanay, Aristide *see* **Drăgan, Vasile; et al., 93j:93127**

Higuchi, Tatsuo *see* **Deng, T.; et al., (93g:93006)**

Jumarie, Guy Applications of entropy of patterns and forms to signal processing. (English summary) (*see* **93j:93007**)

Karlov, V. I. Combined optimization of observation and control processes. (Russian) **93e:93034**

Kawamata, M. *see* **Deng, T.; et al., (93g:93006)**

Korbicz, Józef (*with* Zgurovskii, M. Z.) ★ Estymacja i sterowanie stochastyczne układami o parametrach rozłożonych. (Polish) [Estimation and control of stochastic systems with distributed parameters] **93f:93001**

Krasheninnikov, V. R. *see* **Vasil'ev, K. K., 93h:93004**

Kulhavý, Rudolf On design of approximate finite-dimensional estimators: the Bayesian view. (English summary) **93i:93119**

Kumar, Panganamala Ramana *see* **Ren, Wei, 93d:93094**

Leclerc, Louis-Jérôme *see* **Bauer, Peter H.**

Le Gland, François Splitting-up approximation for SPDEs and SDEs with application to nonlinear filtering. (English summary) (*see* **93b:60006**)

Leonard, J. *see* **Brown, Christopher; et al., (93g:68002)**

Lévine, Jean Finite-dimensional realizations of stochastic PDEs and application to filtering. **93d:93023**

Limebeer, David J. N. (*with* Shaked, U.) New results on $\mathcal{H}_\infty$ optimal filtering. (English summary) (*see* **93g:93005**)

Marino, Riccardo (*with* Tomei, Patrizio) Global adaptive observers for nonlinear systems via filtered transformations. (English summary) **93i:93029**

Matulka, Josef (*with* Neck, Reinhard) OPTCON: an algorithm for the optimal control of nonlinear stochastic models. (English summary) **93h:93088**

Minamide, Nariyasu (*with* Nikiforuk, Peter N.) Conditional entropy theorem for recursive parameter estimation and its application to state estimation problems. (English summary) **93k:93107**

Mitter, Sanjoy K. (*with* Schick, Irvin C.) Point estimation, stochastic approximation, and robust Kalman filtering. **93g:93045**

Moiseenko, V. A. (*with* Saenko, O. A.) Using the Kalman smoother to analyse and process oceanographic data. **93d:86002**

Moklyachuk, M. P. (*with* Tatarinov, S. V.) Minimax filtering of homogeneous random fields with white noise. (Russian) **93c:60059**

Morozan, Toader *see* **Drăgan, Vasile; et al., 93j:93127**

Mos'pan, V. S. ★ Количественное описание фильтрации флуктуаций. (Russian. Russian summary) [Quantitative description of filtering of fluctuations] **93j:90003**

Nakamizo, Takayoshi (*with* Okazaki, Yoshinobu) Robust recursive identification of ARMAX model. (English summary) (*see* **93f:93007**)

Nakamori, Seiichi Design of recursive fixed-point smoother using covariance information in linear discrete-time systems. (English summary) **93j:93149**

Neck, Reinhard *see* **Matulka, Josef, 93h:93088**

Neifel'd, A. A. *see* **Zotikov, B. D.**

Nikiforuk, Peter N. *see* **Minamide, Nariyasu, 93k:93107**

Norros, Ilkka *see* **Arjas, Elja; et al., 93j:60054**

Ogarkov, M. A. ★ Методы статистического оценивания параметров случайных процессов. (Russian. Russian summary) [Methods for the statistical estimation of parameters of random processes] **93h:93003**

Ohmori, Hiromitsu *see* **Sano, A.; et al., (93j:93007)**

Okazaki, Yoshinobu *see* **Nakamizo, Takayoshi, (93f:93007)**

Oshman, Yaakov Linear quadratic stochastic control using the singular value decomposition. **93e:93069**

Picard, Jean Estimation of the quadratic variation of nearly observed semimartingales with application to filtering. (English summary) **93k:93108**

Pisarev, O. V. *see* **Golubev, G. A., 93k:60104**

Pollard, James F. *see* **Rivera, Daniel E.; et al.**

Rakotopara, Daniel *see* **Deza, François; et al., 93b:93106**

Rao, B. Y. *see* **Brown, Christopher; et al., (93g:68002)**

Ren, Wei (*with* Kumar, Panganamala Ramana) Stochastic parallel model adaptation: theory and applications to active noise canceling, feedforward control, IIR filtering, and identification. **93d:93094**

Rivera, Daniel E. (*with* Pollard, James F.; García, Carlos E.) Control-relevant prefiltering: a systematic design approach and case study.

Saenko, O. A. *see* **Moiseenko, V. A., 93d:86002**

Sagara, Setsuo (*with* Yang, Zi-Jiang; Wada, Kiyoshi) Digital low-pass filtering approach to parameter identification of continuous systems. (English summary) **93h:93084**

Sano, A. (*with* Ohmori, Hiromitsu; Furuya, M.) Least square type of adaptive filter with optimally stabilized convergency based on eigen-structure approach. (English summary) (*see* **93j:93007**)

Schick, Irvin C. *see* **Mitter, Sanjoy K., 93g:93045**

Schneider, Wolfgang Systems of seemingly unrelated regression equations with time varying coefficients—an interplay of Kalman filtering, scoring, EM- and MINQUE-method. (English summary)

Scoglio, Caterina *see* **De Santis, Alberto; et al.**

Shaked, U. *see* **Yaesh, I., 93b:93038** *and* **Limebeer, David J. N., (93g:93005)**

Shin, V. I. *see* **Sinitsyn, I. N., 93h:93077** *and* **93h:93078**

Sinitsyn, I. N. (*with* Shin, V. I.) Conditionally optimal filtering of processes in stochastic differential systems by complex statistical criteria. (Russian) **93h:93077**

— (*with* Shin, V. I.) State and parameter estimation in discrete stochastic systems by complex statistical criteria. (Russian) **93h:93078**

Sklyar, M. V. *see* **Zgurovskii, M. Z., 93f:93121**

Smith, P. R. (*with* Dailly, C.) Optimal filtering and Kalman filtering using MATLAB. (*see* **93h:93007**)

de Souza, Carlos E. *see* **Fu, Minyue, (93g:93005)**

Steer, Brian *see* **Brown, Christopher; et al., (93g:68002)**

Stettner, Łukasz Invariant measures of the pair: state, approximate filtering process. **93a:60066**

Stoyan, V. A. Investigation of the dynamics of elastic beams under conditions of uncer-

tainty. (Russian) **93d:73049**
Sworder, D. D. *see* **Elliott, Robert James, 93f:93138**
Tardelli, Paola *see* **De Santis, Alberto; et al., 93h:60006**
Tatarinov, S. V. *see* **Moklyachuk, M. P., 93c:60059**
Toivonen, H. T. Sampled-data H_∞ optimal control of time-varying systems. **93c:93036**
Tomei, Patrizio *see* **Marino, Riccardo, 93i:93029**
Tràn Hùng Thao Note on filtering from point process. **93b:60086**
Trzaska, Z. W. The adaptive method for filtering the reflection waves in parameter identifications of nonuniform distributed systems. (English summary) (*see* **93j:93007**)
Vasil'ev, K. K. (*with* Krasheninnikov, V. R.) ★ Методы фильтрации многомерных случайных полей. (Russian. Russian summary) [Methods for filtering multidimensional random fields] **93h:93004**
Wada, Kiyoshi *see* **Sagara, Setsuo; et al., 93h:93084**
Wellstead, P. E. Self-adaptive algorithms for two-dimensional signal sources. (English summary) (*see* **93j:93007**)
Xue, Xing Xiong Martingale representation for a class of processes with independent increments and its applications. **93g:60095**
Yaesh, I. (*with* Shaked, U.) Game theory approach to optimal linear state estimation and its relation to the minimum H_∞-norm estimation. **93b:93038**
Yang, Zi-Jiang *see* **Sagara, Setsuo; et al., 93h:93084**
Yin, Fu Liang A fast algorithm for singular value decomposition of a class of matrices and its application to time-varying filtering. (Chinese. English and Chinese summaries) **93e:65070**
Yin, Gang George Asymptotic optimal rate of convergence for an adaptive estimation procedure. (English summary) (*see* **93g:93007**)
Zgurovskiĭ, M. Z. (*with* Sklyar, M. V.) ★ Оценивание состояний и параметров стохастических сингулярно возмущенных по времени систем с распределенными параметрами. (Russian) [Estimation of the states and parameters of stochastic systems, singularly perturbed with respect to time, with distributed parameters] **93f:93121**
— *see also* **Korbicz, Józef, 93f:93001**
Zhang, Hong Cai *see* **Zhang, You Min; et al.**
Zhang, You Min (*with* Dai, Guan Zhong; Zhang, Hong Cai) A survey of implementations of parallel Kalman filtering and its systolic arrays. (Chinese. English and Chinese summaries)
Zotikov, B. D. (*with* Neifel'd, A. A.) Parametric synthesis of first-order stationary polynomial filters. (Russian. Russian summary)

93E12 System identification

Aihara, Shin'ichi (*with* Bagchi, Arunabha) Maximum likelihood estimator for two-point boundary value process. (English summary) **93j:93147**
Bagchi, Arunabha *see* **Aihara, Shin'ichi, 93j:93147**
Baikovicius, Jimmy *see* **Gerencsér, László, (93h:93009)**
Baird, C. Robert *see* **Xu, Hong Yue**
Bakan, G. M. (*with* Kussul', N. N.) Nonstochastic identification of parameters of a linear static object under unknown noise intensity. (Russian. Russian summary) **93k:93113**
Basin, M. V. (*with* Orlov, Yu. V.) Optimal estimation of the state of dynamical processes based on discrete-continuous observations. (Russian)
Belforte, G. Parameter identification for models with bounded errors in all variables. (English summary) **93h:93082**
Bhatt, R. K. P. Gradient based interpretation of two stochastic approximation methods and their modifications. (English summary) (*see* **93g:93003**)
Bolkvadze, G. R. Investigation of the convergence of recurrent dispersion identification algorithms. (Russian. English and Georgian summaries)
Chen, Han Fu (*with* Guo, Lei) Parameter identification in stochastic adaptive tracking systems. (English summary) (*see* **93g:93005**)
— (*with* Zhang, Ji Feng) On identifiability for multidimensional ARMAX model. (English summary) **93m:93093**
Chen, Wen Hua (*with* Gu, Xing Yuan; Yuan, Xin) Robust state estimation for linear systems with uncertain dynamics. (Chinese. English and Chinese summaries)
Dahleh, Munther A. (*with* Theodosopoulos, Theodore V.; Tsitsiklis, John N.) The sample complexity of worst-case identification of FIR linear systems. (English summary) **93k:93114**
Deistler, Manfred Identification of ARMA systems. (English summary) (*see* **93h:93009**)
Dembélé, D. *see* **Favier, G.; et al., (93h:93009)**
Dewilde, Patrick M. *see* **Verhaegen, Michel, 93m:93095** *and* **93m:93096**
Ding, Feng *see* **Xie, Xin Min, 93k:93116**
Favier, G. (*with* Settineri, R.; Dembélé, D.; Peyre, J. L.) ARMA identification: a survey. (English summary) (*see* **93h:93009**)
Filipović, V. Ž. Robust real-time power spectrum estimation. (*see* **93h:93007**)
Furuya, M. *see* **Sano, A.; et al., (93j:93007)**
Gerencsér, László A computable criterion for model selection for linear stochastic systems. (English summary) (*see* **93h:93009**)
— (*with* Baikovicius, Jimmy) Change-point detection using stochastic complexity. (English summary) (*see* **93h:93009**)
— Rate of convergence of recursive estimators. (English summary) **93i:93124**
Gorskiĭ, V. G. *see* **Kuntsevich, A. D.; et al., 93h:93083**
Goto, S. (*with* Uosaki, K.) An on-line identification procedure for linear stochastic systems. (English summary) (*see* **93h:93009**)
Gu, Guoxiang (*with* Khargonekar, Pramod P.; Li, Yanlin) Robust convergence of two-stage nonlinear algorithms for identification in $\mathscr{H}_\infty$. **93b:93110**
Gu, Xing Yuan *see* **Chen, Wen Hua; et al.**
Guo, Lei *see* **Chen, Han Fu, (93g:93005)**
Hong, Hui Min *see* **Li, Rui Sheng; et al., 93m:93094**
Inouye, Y. (*with* Tsuchiya, H.) Identification of linear systems using input-output cumulants. (English summary) (*see* **93g:93005**)
— *see also* **Tong, L.; et al., (93g:93005)**
Kachanov, B. O. (*with* Khrolovich, K. B.) A method for the identification of dynamical systems with delay. (Russian. Russian summary)
Kárný, Miroslav Parametrization of multi-output autoregressive-regressive models for self-tuning control. (English summary) **93j:93148**
Khargonekar, Pramod P. *see* **Gu, Guoxiang; et al., 93b:93110**
Khrolovich, K. B. *see* **Kachanov, B. O.**
Kisenkova, N. A. Estimation of the characteristics of objects and random perturbations by the minimal distance method. (Russian. Russian summary) **93i:93125**
Kornoushenko, E. K. Reconstruction of a scalar signal at the input of a discrete linear system for an admissible specification of its parameters. (Russian. Russian summary)
Krzyżak, Adam (*with* Partyka, Marian A.) On identification of block orientated systems by nonparametric techniques. (English summary)
Kudashev, V. R. *see* **Kuntsevich, A. D.; et al., 93h:93083**
Kuntsevich, A. D. (*with* Kudashev, V. R.; Spivak, S. I.; Gorskiĭ, V. G.) Group analysis of the identifiability of parameters of mathematical models of nonstationary chemical kinetics. (Russian) **93h:93083**
Kussul', N. N. *see* **Bakan, G. M., 93k:93113**
Li, Rui Sheng (*with* Ma, Ping; Hong, Hui Min) Robustness and convergence of least-squares identification and adaptive tracking for stochastic system. (English and Chinese summaries) **93m:93094**
Li, Yanlin *see* **Gu, Guoxiang; et al., 93b:93110**
Liu, Ruey Wen *see* **Tong, L.; et al., (93g:93005)**
Ljung, Lennart (*with* Wahlberg, B.) Asymptotic properties of the least-squares method for estimating transfer functions and disturbance spectra. **93c:93051**
Ma, Ping *see* **Li, Rui Sheng; et al., 93m:93094**
Maybeck, Peter S. *see* **Sheldon, Stuart N.**
Montvilas, Algirdas-Mykolas Sequential detection of many changes in several unknown states of dynamic systems. (English, Russian and Lithuanian summaries)
Müller, Peter C. *see* **Tanaka, Shogo**
Ohmori, Hiromitsu *see* **Sano, A.; et al., (93j:93007)**
Orlov, Yu. V. *see* **Basin, M. V.**
Partyka, Marian A. *see* **Krzyżak, Adam**
Peyre, J. L. *see* **Favier, G.; et al., (93h:93009)**
Pronzato, L. (*with* Walter, Eric) Robustness to outliers of bounded-error estimators, consequences on experiment design. (English summary) (*see* **93h:93009**)
Pupeikis, Rimantas Recursive robust estimation of dynamic systems parameters. (English, Russian and Lithuanian summaries)
— Model order determination using robust hypothesis-testing procedures. (English, Russian and Lithuanian summaries)
Sagara, Setsuo (*with* Yang, Zi-Jiang; Wada, Kiyoshi) Digital low-pass filtering approach to parameter identification of continuous systems. (English summary) **93h:93084**
— *see also* **Zhao, Zhen-Yu; et al.**
Sal'nikov, N. N. Intensity of test signals in ellipsoidal estimation algorithms. (Russian. Russian summary) **93k:93115**
Sano, A. (*with* Ohmori, Hiromitsu; Furuya, M.) Least square type of adaptive filter with optimally stabilized convergency based on eigen-structure approach. (English summary) (*see* **93j:93007**)
Settineri, R. *see* **Favier, G.; et al., (93h:93009)**
Sheldon, Stuart N. (*with* Maybeck, Peter S.) An optimizing design strategy for multiple model adaptive estimation and control. (English summary)
Spivak, S. I. *see* **Kuntsevich, A. D.; et al., 93h:93083**
Tanaka, Shogo (*with* Müller, Peter C.) Fault detection in linear discrete dynamic systems by a reduced order generalized-likelihood-ratio method. (English summary)
Terdik, György Bilinear state space realization for polynomial stochastic systems. **93b:93111**
Theodosopoulos, Theodore V. *see* **Dahleh, Munther A.; et al., 93k:93114**
Tomizuka, Masayoshi *see* **Zhao, Zhen-Yu; et al.**
Tong, L. (*with* Inouye, Y.; Liu, Ruey Wen) Waveform-preserving blind estimation of multiple independent sources. (English summary) (*see* **93g:93005**)
Tsitsiklis, John N. *see* **Dahleh, Munther A.; et al., 93k:93114**
Tsuchiya, H. *see* **Inouye, Y., (93g:93005)**
Tugnait, Jitendra K. Stochastic system identification with noisy input using cumulant statistics. **93f:93131**
Tulleken, Herbert J. A. F. Grey-box modelling and identification using physical knowledge and Bayesian techniques. (English summary)
Uosaki, K. *see* **Goto, S., (93h:93009)**
Veres, S. M. Relations of information criteria for structure selection of dynamic systems. (English summary) (*see* **93h:93009**)
Verhaegen, Michel (*with* Dewilde, Patrick M.) Subspace model identification. I. The output-error state-space model identification class of algorithms. (English summary) **93m:93095**
— (*with* Dewilde, Patrick M.) Subspace model identification. II. Analysis of the elementary output-error state-space model identification algorithm. (English summary) **93m:93096**
Wada, Kiyoshi *see* **Sagara, Setsuo; et al., 93h:93084**
Wahlberg, B. *see* **Ljung, Lennart, 93c:93051**
Walter, Eric *see* **Pronzato, L., (93h:93009)**
Xie, Xin Min (*with* Ding, Feng) A canonical identification model for linear multivariable systems and a structural identification algorithm. (Chinese. English and Chinese summaries) **93k:93116**
Xu, Hong Yue (*with* Baird, C. Robert) An expert system for parameter estimation. (English and Polish summaries)
Yang, Zi-Jiang *see* **Sagara, Setsuo; et al., 93h:93084**
Yuan, Xin *see* **Chen, Wen Hua; et al.**
Zhang, Ji Feng *see* **Chen, Han Fu, 93m:93093**
Zhao, Zhen-Yu (*with* Sagara, Setsuo; Tomizuka, Masayoshi) A new bias-compensating LS method for continuous system identification in the presence of coloured noise. (English summary)

Items with secondary classifications in 93E12

Aihara, Shin'ichi Regularized maximum likelihood estimate for an infinite-dimensional parameter in stochastic parabolic systems. **93e:93059**
Azemi, Asad *see* **Yaz, Engin**

(Bányász, Cs.) *see* **Identification and system parameter estimation, 93h:93009**
Bessonov, A. A. (*with* Zagashvili, Yu. V.; Markelov, A. S.) ★ Методы и средства идентификации динамических объектов. (Russian. Russian summary) [Methods and means for the identification of dynamic objects] **93m:93002**
Boguslavskii, I. A. (*with* Kalinina, O. L.) Recurrent filtering and identification of dynamical system parameters. (Russian. Russian summary) **93m:93088**
Boguslavsky, Josif A. Applied problems of recursive filtering and system identification. (*see* **93g:93003**)
Cai, Man-ping (*with* Lee, E. Bruce) Identification of linear systems using rational approximation techniques. (English summary) (*see* **93g:93007**)
Chen, Han Fu (*with* Guo, Lei; Zhang, Ji Feng) Identification and adaptive control for ARMAX systems. **93a:93002**
— (*with* Zhang, Ji Feng) Adaptive regulation for deterministic systems. **93a:93066**
Chernyshev, K. R. *see* **Pashchenko, F. F., 93e:93021**
Deistler, Manfred Identification of linear systems. (English summary) (*see* **93g:93007**)
Duncan, Tyrone E. (*with* Mandl, Petr; Pasik-Duncan, Bożenna) On least squares estimation in continuous time linear stochastic systems. **93e:93073**
Fillatre, O. Identification of weakly nonlinear dynamic systems by means of random excitations. (French. English and French summaries) **93h:73027**
Fukuda, Tokuo (*with* Sunahara, Yoshifumi) Fuzzy stochastic processes and their applications to parameter identification. (English summary) (*see* **93h:93009**)
Fursov, V. A. Accuracy analysis and construction of identification algorithms based on few observations. (Russian)
Gabr, M. M. Nonlinearity tests for bilinear systems. **93e:62231**
Gillis, J. T. *see* **McGraw, G. A.; et al.**
Guidorzi, R. P. Errors-in-variables identification in presence of nonindependent noise. (English summary) (*see* **93g:93005**)
Guo, Lei (*with* Moore, John Barratt) Stochastic system identification via adaptive spectral factorization. **93d:93079**
— *see also* **Chen, Han Fu; et al., 93a:93002**
Gustafson, C. L. *see* **McGraw, G. A.; et al.**
He, Qing Hong *see* **Zhang, Shi Ying**
Kalinina, O. L. *see* **Boguslavskii, I. A., 93m:93088**
Kallianpur, Gopinath (*with* Karandikar, Rajeeva L.) An introduction to white-noise analysis and nonlinear filtering. (*see* **93g:93003**)
Karandikar, Rajeeva L. *see* **Kallianpur, Gopinath, (93g:93003)**
(Keviczky, L.) *see* **Identification and system parameter estimation, 93h:93009**
Khargonekar, Pramod P. *see* **Krause, James M., 93d:93080**
Kimura, Hidenori *see* **Zhou, Tong, 93k:93035**
Krause, James M. (*with* Khargonekar, Pramod P.) A comparison of classical stochastic estimation and deterministic robust estimation. **93d:93080**
Lee, E. Bruce *see* **Cai, Man-ping, (93g:93007)**
Lee, Jia Ling *see* **Wang, Wên Chün, 93i:93037**
Li, Bo *see* **Wang, Xiu Feng, 93i:93038**
Ljung, Lennart ★ Идентификация систем. Теория для пользователя. (Russian) [System identification. Theory for the user] **93e:93002**
— An introduction to system identification concepts. (*see* **93d:92001**)
Luchuk, A. M. Identification of signals of different forms. (Russian. Russian summary)
Mäkilä, Pertti M. Worst-case input-output identification. (English summary) **93f:93072**
(Mandel', A. S.) *see* **Ljung, Lennart, 93e:93002**
Mandl, Petr *see* **Duncan, Tyrone E.; et al., 93e:93073**
Markelov, A. S. *see* **Bessonov, A. A.; et al., 93m:93002**
McGraw, G. A. (*with* Gustafson, C. L.; Gillis, J. T.) Conditions for the equivalence of ARMAX and ARX systems. (English summary)
Moore, John Barratt *see* **Guo, Lei, 93d:93079**
Mos'pan, V. S. ★ Количественное описание фильтрации флуктуаций. (Russian. Russian summary) [Quantitative description of filtering of fluctuations] **93j:90003**
(Nazin, A. V.) *see* **Ljung, Lennart, 93e:93002**
Nikiforov, I. V. Sequential detection of changes in stochastic processes. (English summary) (*see* **93h:93009**)
Ogarkov, M. A. ★ Методы статистического оценивания параметров случайных процессов. (Russian. Russian summary) [Methods for the statistical estimation of parameters of random processes] **93h:93003**
Pashchenko, F. F. (*with* Chernyshev, K. R.) Application of the method of functional transformations in the identification of nonlinear systems. (Russian. Russian summary) **93e:93021**
Pasik-Duncan, Bożenna *see* **Duncan, Tyrone E.; et al., 93e:93073**
Pintelon, R. *see* **Schoukens, J., 93i:93004**
Schoukens, J. (*with* Pintelon, R.) ★ Identification of linear systems. **93i:93004**
Stettner, Łukasz On nearly self-optimizing strategies for a discrete-time uniformly ergodic adaptive model. (English summary) **93k:93120**
Sunahara, Yoshifumi *see* **Fukuda, Tokuo, (93h:93009)**
(Tsypkin, Ya. Z.) *see* **Ljung, Lennart, 93e:93002**
Tulleken, Herbert J. A. F. Grey-box modelling and identification using physical knowledge and Bayesian techniques. (English summary) (*see* **93j:93007**)
Wang, Wên Chün (*with* Lee, Jia Ling) A simple condition for decentralized adaptive identification of partially known interconnected systems. (English summary) **93i:93037**
Wang, Xiu Feng (*with* Li, Bo) Identification of time-varying bilinear systems via shifted Legendre polynomials. (Chinese. English and Chinese summaries) **93i:93038**
Yang, Wei Gao (*with* Zeng, Guang Da) An identification method for mathematical models of continuous-time nonlinear systems. (Chinese. English and Chinese summaries)
Yaz, Engin (*with* Azemi, Asad) Variable structure observer with a boundary-layer for correlated noise/disturbance models and disturbance minimization. (English summary)
Zagashvili, Yu. V. *see* **Bessonov, A. A.; et al., 93m:93002**
Zeng, Guang Da *see* **Yang, Wei Gao**
Zhang, Ji Feng *see* **Chen, Han Fu; et al., 93a:93002** *and* **93a:93066**
Zhang, Shi Ying (*with* He, Qing Hong) A method for estimating time-varying parameters of disequilibrium models using a maximum likelihood function with optimal moving windows. (Chinese. English and Chinese summaries)
Zhang, Zhi Yong Identification of parsimonious model structures. (English and Chinese summaries) **93j:93038**
Zhou, Tong (*with* Kimura, Hidenori) Time domain identification for robust control. (English summary) **93k:93035**

Items listed otherwise than by author

Budapest ★ Identification and system parameter estimation 1991. Vol. 1, 2. **93h:93009**
Identification and system parameter estimation ★ Identification and system parameter estimation 1991. Vol. 1, 2. **93h:93009**
Symposium:
Identification and System Parameter Estimation ★ Identification and system parameter estimation 1991. Vol. 1, 2. **93h:93009**

93E14 Data smoothing

Bukhalev, V. A. Optimal smoothing in systems with a randomly switching structure. (Russian. Russian summary) **93i:93126**
Dai, Guan Zhong *see* **Zhang, Jian Hua²**
Frezza, R. Noncausal representations of unilateral Markov random fields. (English summary) (*see* **93g:93006**)
Jun, Duk B. A design of adaptive exponential smoothing using a change detection statistic. (English summary)
Nakamori, Seiichi Design of recursive fixed-point smoother using covariance information in linear discrete-time systems. (English summary) **93j:93149**
Tzafestas, Spyros G. *see* **Watanabe, Keigo, 93d:93085**
Uetake, Yoichi Optimal smoothing for noncausal 2-D systems based on a descriptor model. (English summary) **93i:93127**
Watanabe, Keigo (*with* Tzafestas, Spyros G.) Generalized fixed-interval smoothers for discrete-time systems. (English summary) **93d:93085**
Zhang, Jian Hua² (*with* Dai, Guan Zhong) Smooth algorithms for discrete-time systems in distributed networks. (Chinese. English and Chinese summaries)
— (*with* Dai, Guan Zhong) Decentralized smoothing algorithms of continuous-time systems in distributed-sensor networks. (English summary)

Items with secondary classifications in 93E14

Caines, Peter E. Recent results in stochastic adaptive control: nonexplosion, ε-consistency and stability. (English summary) **93j:93156**
Dembo, Amir (*with* Zeitouni, Ofer) Erratum: "Parameter estimation of partially observed continuous time stochastic processes via the EM algorithm" [Stochastic Process. Appl. 23 (1986), no. 1, 91–113; MR 88h:93068]. **93b:93105**
Fu, Michael C. (*with* Hu, Jian Qiang) Extensions and generalizations of smoothed perturbation analysis in a generalized semi-Markov process framework. (English summary) **93i:60171**
Glasserman, Paul Smoothing complements and randomized score functions. (English summary) **93j:60142**
Haussmann, U. G. A probabilistic approach to the generalized Hessian. **93e:49024**
Hu, Jian Qiang *see* **Fu, Michael C., 93i:60171**
Nassiuma, D. K. (*with* Thavaneswaran, A.) Smoothed estimates for nonlinear time series models with irregular data. (English summary) **93j:62216**
Shaked, U. *see* **Yaesh, I., 93j:93143**
Thavaneswaran, A. *see* **Nassiuma, D. K., 93j:62216**
Tzafestas, Spyros G. *see* **Watanabe, Keigo, (93j:93007)**
Watanabe, Keigo (*with* Tzafestas, Spyros G.) A U-D fixed-interval smoother in backward-pass realization. (English summary) (*see* **93j:93007**)
Yaesh, I. (*with* Shaked, U.) H_∞-optimal estimation—the discrete time case. (English summary) **93j:93143**
Zeitouni, Ofer *see* **Dembo, Amir, 93b:93105**

93E15 Stochastic stability

Avens-Avenin', Ya. A. (*with* Zhulin, V. P.) The effect of random changes of the parameter on the stability of a control system. (Russian) **93a:93109**
Boreisha, Yu. E. *see* **Litvin, I. N., 93a:93111**
Chizeck, Howard Jay *see* **Feng, Xiangbo; et al., 93a:93110**
Feng, Xiangbo (*with* Loparo, Kenneth A.; Ji, Yuandong; Chizeck, Howard Jay) Stochastic stability properties of jump linear systems. **93a:93110**
Ji, Yuandong *see* **Feng, Xiangbo; et al., 93a:93110**
Litvin, I. N. (*with* Boreisha, Yu. E.) The stochastic Routh-Hurwitz problem. (Russian. English and Ukrainian summaries) **93a:93111**
Liu, G. P. Mean controllers for discrete systems. (English summary) **93k:93117**
Loparo, Kenneth A. *see* **Feng, Xiangbo; et al., 93a:93110**
Mao, Xuerong Lyapunov functions and almost sure exponential stability. **93j:93150**
Matveev, An. A. (*with* Rogol, S. L.) Stochastic stability of linear control systems of second order. (English and Latvian summaries) (*see* **93e:60006**)
Nguyễn Hữu Dư (*with* Trần Văn Nhung) Relations between the sample and moment Lyapunov exponents. **93b:93112**
Nikitin, N. V. Stability of nonlinear stochastic systems: a path integral approach. **93a:93112**
Pham Tran Nhu Discrete-time mean square stability with a constraint of exponents.
Rogol, S. L. *see* **Matveev, An. A., (93e:60006)**
Srichander, R. (*with* Walker, Bruce K.) Stochastic stability analysis for continuous-time fault tolerant control systems. (English summary) **93k:93118**
Trần Văn Nhung *see* **Nguyễn Hữu Dư, 93b:93112**
Walker, Bruce K. *see* **Srichander, R., 93k:93118**
Zhulin, V. P. *see* **Avens-Avenin', Ya. A., 93a:93109**

Items with secondary classifications in 93E15

Basak, Gopal K. Stability for temporally nonhomogeneous singular diffusion. (English summary) **93i:60146**
Baxendale, Peter H. Invariant measures for nonlinear stochastic differential equations. **93m:60162**

Borisov, A. V. (*with* Pankov, A. R.; Sot·skiĭ, N. M.) Minimax estimation in linear differential indeterminate-stochastic systems. (Russian. Russian summary) **93e:93060**
Bougerol, Philippe (*with* Picard, Nico) Strict stationarity of generalized autoregressive processes. (English summary) **93i:60071**
Caines, Peter E. Continuous time stochastic adaptive control: nonexplosion, ε-consistency and stability. (English summary) **93f:93147**
Cavazos-Cadena, Rolando (*with* Hernández-Lerma, Onésimo) Equivalence of Lyapunov stability criteria in a class of Markov decision processes. **93i:90108**
Chen, Shu Ping (*with* Peng, Shi Ge) Positivity-preserving mapping and its application. **93f:34108**
Colonius, Fritz (*with* Kliemann, Wolfgang) Stability radii and Lyapunov exponents. (English summary) **93i:93091**
El Bouhtouri, A. (*with* Pritchard, A. J.) Stability radii of linear systems with respect to stochastic perturbations. **93g:93063**
Fornasini, E. Asymptotic behaviour of 2D Markov chains. (English summary) **93j:93138**
Ghosh, Mrinal K. (*with* Marcus, Steven I.) Infinite horizon controlled diffusion problems with some nonstandard criteria. **93a:93114**
Govindan, T. E. (*with* Joshi, Mohan C.) Stability and optimal control of stochastic functional-differential equations with memory. (English summary) **93g:49007**
Halanay, Aristide (*with* Morozan, Toader) Discrete-time stabilizing compensators for continuous-time systems with state dependent noise. **93j:93129**
Hernández-Lerma, Onésimo *see* **Cavazos-Cadena, Rolando, 93i:90108**
Joshi, Mohan C. *see* **Govindan, T. E., 93g:49007**
Kim, Seungnam (*with* Meerkov, S. M.; Runolfsson, T.) Aiming control: residence probability and (D, T)-stability. **93e:93056**
— (*with* Meerkov, S. M.; Runolfsson, T.) Aiming control: design of residence probability controllers. **93e:93057**
Kliemann, Wolfgang *see* **Colonius, Fritz, 93i:93091**
Korenevskiĭ, D. G. ★ Устойчивость решений детерминированных и стохастических дифференциально-разностных уравнений (алгебраические критерии). (Russian. English and Russian summaries) [Stability of solutions of deterministic and stochastic differential-difference equations (algebraic criteria)] **93m:34129**
Kumar, Panganamala Ramana *see* **Ren, Wei, 93f:93151**
Mao, Xuerong Almost sure polynomial stability for a class of stochastic differential equations. **93g:60123**
— Exponential stability of large-scale stochastic differential equations. **93g:34086**
— Robustness of stability of nonlinear systems with stochastic delay perturbations. (English summary) **93i:93100**
Marcus, Steven I. *see* **Ghosh, Mrinal K., 93a:93114**
Meerkov, S. M. *see* **Kim, Seungnam; et al., 93e:93056** *and* **93e:93057**
Meyn, Sean P. Stability of Markov chains on topological spaces with applications to adaptive control and time series analysis. **93d:60110**
Morozan, Toader *see* **Halanay, Aristide, 93j:93129**
Pankov, A. R. *see* **Borisov, A. V.; et al., 93e:93060**
Peng, Shi Ge *see* **Chen, Shu Ping, 93f:34108**
Picard, Nico *see* **Bougerol, Philippe, 93i:60071**
Pinsky, Mark A. Lyapunov exponent and rotation number of the linear harmonic oscillator. **93h:60101**
— (*with* Wihstutz, Volker) Lyapunov exponents and rotation numbers of linear systems with real noise. **93m:60123**
Pritchard, A. J. *see* **El Bouhtouri, A., 93g:93063**
Ren, Wei (*with* Kumar, Panganamala Ramana) Recent results on least squares-based adaptive control of linear stochastic systems in white noise. (English summary) **93f:93151**
Runolfsson, T. *see* **Kim, Seungnam; et al., 93e:93056** *and* **93e:93057**
Socha, Lesław Decentralized sensitivity of stochastic composite systems. (English summary) **93k:93106**
Solo, Victor Stability of slowly time-varying linear systems. (English summary) **93k:34116**
Sot·skiĭ, N. M. *see* **Borisov, A. V.; et al., 93e:93060**
Wihstutz, Volker *see* **Pinsky, Mark A., 93m:60123**

93E20 Optimal stochastic control

Abbad, Mohammed (*with* Filar, Jerzy A.) Perturbation and stability theory for Markov control problems. (English summary) **93f:93132**
— (*with* Filar, Jerzy A.; Bielecki, Tomasz R.) Algorithms for singularly perturbed limiting average Markov control problems. (English summary) **93i:93128**
Ahmed, N. U. Relaxed controls for stochastic boundary value problems in infinite dimension. (English summary) **93f:93133**
Anderson, Brian D. O. *see* **Er, Meng J., 93d:93086**
Aoki, Takeshi *see* **Sunahara, Yoshifumi; et al., (93g:93005)**
Arapostathis, Aristotle *see* **Fernández-Gaucherand, Emmanuel; et al., (93g:93007)**
Baranov, V. V. A parametric problem of optimal stochastic control. (Russian) **93a:93113**
— A model and methods of uniformly optimal stochastic control. (Russian. Russian summary) **93f:93134**
Bensoussan, Alain (*with* Frehse, J.) On Bellman equations of ergodic control in $\mathbf{R}^n$. **93f:93135**
Bielecki, Tomasz R. *see* **Abbad, Mohammed; et al., 93i:93128**
Bitmead, Robert R. (*with* Gevers, Michel; Wertz, V.) Optimal control redesign of generalized predictive control. (English summary) (*see* **93j:93007**)
Blaquière, A. Sufficiency conditions for existence of an optimal feedback control in stochastic mechanics. **93f:93136**
Borkar, Vivek S. Controlled Markov chains with constraints. (English summary) **93f:93137**
Bridge, D. S. (*with* Shreve, Steven E.) Multidimensional finite-fuel singular stochastic control. **93c:93052**
Campillo, F. (*with* Pardoux, Étienne) Numerical methods in ergodic optimal stochastic control and application. **93c:93053**
Cannarsa, Piermarco (*with* Da Prato, Giuseppe) Second order Hamilton-Jacobi equations in infinite dimensions and stochastic optimal control problems. (English summary) (*see* **93e:00029**)
Casavola, Alessandro Optimal H_2 and H_∞ LQ stochastic feedforward control. (English summary)
Chen, Hong[3] *see* **Xu, Susan H., 93m:93100**
Chizeck, Howard Jay *see* **Ji, Yuandong, 93m:93098**
Choudhury, Ajit K. *see* **Ruan, Mifang**
Da Prato, Giuseppe *see* **Cannarsa, Piermarco, (93e:00029)**
Deng, Zi Chen (*with* Ouyang, Hua Jiang; Zhong, Wan Xie) A solvability analysis for regular equations in nonlinear constrained control systems. (Chinese. English and Chinese summaries)
Duncan, Tyrone E. Some solvable stochastic control problems in symmetric spaces of type IV. (*see* **93d:93009**)
— A solvable stochastic control problem in the hyperbolic plane. **93e:93065**
Èlbakidze, N. V. *see* **Osidze, A. G.**
Elliott, Robert James (*with* Sworder, D. D.) Control of a hybrid conditionally linear Gaussian process. **93f:93138**
Er, Meng J. (*with* Anderson, Brian D. O.) Performance study of multi-rate output controllers under noise disturbances. (English summary) **93d:93086**
Fernández-Gaucherand, Emmanuel (*with* Marcus, Steven I.; Arapostathis, Aristotle) Structured solutions for stochastic control problems. (English summary) (*see* **93g:93007**)
Filar, Jerzy A. *see* **Abbad, Mohammed, 93f:93132** *and* **93i:93128**
Flandoli, Franco (*with* Tessitore, Gianmario) Riccati equations in stochastic boundary control theory. (*see* **93e:90003**)
Frehse, J. *see* **Bensoussan, Alain, 93f:93135**
Geletukha, V. V. *see* **Mikhalochkin, N. A., 93d:93089**
Gevers, Michel *see* **Bitmead, Robert R.; et al., (93j:93007)**
Ghosh, Mrinal K. (*with* Marcus, Steven I.) Infinite horizon controlled diffusion problems with some nonstandard criteria. **93a:93114**
Grimble, M. J. Generalized predictive optimal control: an introduction to the advantages and limitations. **93f:93139**
Haddad, Wassim M. (*with* Tadmor, Gilead) Reduced order LQG controllers for linear time varying plants. (English summary) **93m:93097**
Halanay, Aristide (*with* Morozan, Toader) Optimal stabilizing compensator for linear discrete-time systems under independent random perturbations. **93f:93140**
Hansson, Anders Control of level crossings in stationary Gaussian random processes. (English summary) **93j:93151**
Haurie, Alain (*with* Leizarowitz, Arie) Overtaking optimal regulation and tracking of piecewise diffusion linear systems. **93d:93087**
Haussmann, U. G. Synthesis of optimal controls. (*see* **93d:93009**)
Heinricher, Arthur C. (*with* Stockbridge, Richard H.) Optimal control and replacement with state-dependent failure rate. (English summary) **93j:93152**
Helmes, K. L. (*with* Rishel, Raymond Warren) An optimal control depending on the conditional density of the unobserved state. (*see* **93a:93100**)
— (*with* Rishel, Raymond Warren) The solution of a partially observed stochastic optimal control problem in terms of predicted miss. (English summary) **93g:93085**
Hernández-Lerma, Onésimo (*with* Muñoz de Ozak, Myriam) Discrete-time Markov control processes with discounted unbounded costs: optimality criteria. **93h:93085**
Hijab, Omar Partially observed control of Markov processes. **93e:93066**
— Partially observed control of Markov processes. (*see* **93g:93007**)
— Partially observed control of Markov processes. IV. (English summary) **93j:93153**
Ishikawa, Masaaki *see* **Sunahara, Yoshifumi; et al., (93g:93005)**
James, Matthew R. Asymptotic analysis of nonlinear stochastic risk-sensitive control and differential games. (English summary) **93e:93067**
Ji, Yuandong (*with* Chizeck, Howard Jay) Jump linear quadratic Gaussian control in continuous time. (English summary) **93m:93098**
Jumarie, Guy Tracking control of nonlinear stochastic systems by using path cross-entropy and Fokker-Planck equation. (English summary) **93g:93086**
Kloeden, P. E. (*with* Platen, Eckhard; Schurz, H.) Effective simulation of optimal trajectories in stochastic control. (English summary) (*see* **93d:90005**)
Konyukhova, T. A. (*with* Rotar′, V. I.) Controls that are asymptotically optimal in probability and almost surely in a problem on a linear controller. (Russian. Russian summary) **93f:93141**
Kushner, Harold J. Estimates of derivatives of cost functions with respect to control parameters in high-dimensional stochastic systems. (English summary) **93h:93086**
— (*with* Martins, Luiz F.) A numerical method for stochastic singular control problems with nonadditive controls. **93e:93068**
Leizarowitz, Arie *see* **Haurie, Alain, 93d:93087**
Liu, Kun Hui Optimal impulse stochastic control in a local field. (Chinese. Chinese summary) **93j:93154**
Ma, Ilong Optimal relaxed control for stochastic differential equations in infinite-dimensional space. (English and Chinese summaries) **93i:93129**
Ma, Jin On the principle of smooth fit for a class of singular stochastic control problems for diffusions. **93d:93088**
Malhamé, R. P. Ergodicity of hedging control policies in single-part multiple-state manufacturing systems. (English summary)
Marcus, Steven I. *see* **Ghosh, Mrinal K., 93a:93114** *and* **Fernández-Gaucherand, Emmanuel; et al., (93g:93007)**
Martins, Luiz F. *see* **Kushner, Harold J., 93e:93068**
Mazliak, Laurent Mixed control problem under partial observation. (English summary) **93j:93155**
Menaldi, José-Luis (*with* Robin, M.; Taksar, Michael I.) Singular ergodic control for multidimensional Gaussian processes. **93f:93142**
Mikhalochkin, N. A. (*with* Geletukha, V. V.) A dispersion and a correlation matrix of an optimal stochastic system. (Russian) **93d:93089**
Morozan, Toader On the Riccati equations of stochastic control. (English summary) (*see* **93m:00044**)
— Discrete-time Riccati equations connected with quadratic control for linear systems with independent random perturbations. **93f:93143**
— *see also* **Halanay, Aristide, 93f:93140**
Muñoz de Ozak, Myriam *see* **Hernández-Lerma, Onésimo, 93h:93085**
Nisio, Makiko Optimal control for stochastic partial differential equations and viscosity

solutions of Bellman equations. **93b:93113**

Ohsumi, Akira Derivation of the nonlinear Schrödinger equations from stochastic control theory. (English summary) **93h:93087**

— Derivation of the Schrödinger equations from stochastic control theory. (English summary) (*see* **93g:93006**)

Oshman, Yaakov Linear quadratic stochastic control using the singular value decomposition. **93e:93069**

Osidze, A. G. (*with* Èlbakidze, N. V.) Optimal control of stopping moments. (Russian. English and Georgian summaries)

Ouyang, Hua Jiang *see* **Deng, Zi Chen; et al.**

Pardoux, Étienne *see* **Campillo, F., 93c:93053**

Pasik-Duncan, Bożenna Asymptotic distribution of some quadratic functionals of linear stochastic evolution systems. (English summary) **93i:93130**

Platen, Eckhard *see* **Kloeden, P. E.; et al., (93d:90005)**

Rishel, Raymond Warren Controlled continuous time Markov processes. (*see* **93a:60001**)

— *see also* **Helmes, K. L., 93g:93085** *and* **(93a:93100)**

Robin, M. *see* **Menaldi, José-Luis; et al., 93f:93142**

Rotar', V. I. Connectivity property and optimality almost surely and in probability. (English summary) **93k:93119**

— *see also* **Konyukhova, T. A., 93f:93141**

Ruan, Mifang (*with* Choudhury, Ajit K.) Steady-state optimal controller with actuator noise variance linearly related to actuator signal variance. (English summary)

Runggaldier, Wolfgang J. (*with* Stettner, Lukasz) Nearly optimal controls for stochastic ergodic problems with partial observation. (English summary) **93m:93099**

Schurz, H. *see* **Kloeden, P. E.; et al., (93d:90005)**

Sethi, Suresh P. *see* **Zhou, Xun Yu, 93g:93088**

Shishkin, G. I. *see* **Tret'yakov, V. E., 93g:93087**

Shreve, Steven E. *see* **Bridge, D. S., 93c:93052**

Sierociński, Andrzej (*with* Zabczyk, Jerzy) On a packing problem. (*see* **93d:93009**)

Sirotin, A. N. Analysis of problems of programmed control, optimal with respect to probability, of a linear system with discrete time. (Russian) **93e:93070**

Stettner, Lukasz On adaptive control of a singularly perturbed diffusion model. (English summary) **93i:93131**

— On nearly self-optimizing strategies for a discrete-time uniformly ergodic adaptive model. (English summary) **93k:93120**

— *see also* **Runggaldier, Wolfgang J., 93m:93099**

Stockbridge, Richard H. *see* **Heinricher, Arthur C., 93j:93152**

Sudderth, William D. (*with* Weerasinghe, A. P. N.) A bang-bang strategy for a finite fuel stochastic control problem. **93e:93071**

Sunahara, Yoshifumi (*with* Ishikawa, Masaaki; Aoki, Takeshi) On the suboptimal control for a class of stochastic distributed parameter systems with nonlinear boundary conditions. (English summary) (*see* **93g:93005**)

Sworder, D. D. *see* **Elliott, Robert James, 93f:93138**

Tadmor, Gilead *see* **Haddad, Wassim M., 93m:93097**

Taksar, Michael I. *see* **Menaldi, José-Luis; et al., 93f:93142**

Tessitore, Gianmario Linear quadratic optimal control for a stochastic system with control on the boundary and hyperbolic dynamics. **93f:93144**

— *see also* **Flandoli, Franco, (93e:90003)**

Tkebuchava, R. S. On the existence and uniqueness of the solution of the Bellman equation in the problem of the optimal correction of a Markov process. (Russian. English and Georgian summaries)

Tret'yakov, V. E. (*with* Shishkin, G. I.) Stochastic programs in control problems under an information deficit. (Russian. Russian summary) **93g:93087**

Weerasinghe, A. P. N. A finite fuel stochastic control problem on a finite time horizon. (English summary) **93i:93132**

— *see also* **Sudderth, William D., 93e:93071**

Wertz, V. *see* **Bitmead, Robert R.; et al., (93j:93007)**

Xu, Susan H. (*with* Chen, Hong[3]) On the asymptote of the optimal routing policy for two service stations. (English summary) **93m:93100**

Zabczyk, Jerzy *see* **Sierociński, Andrzej, (93d:93009)**

Zhang, Qing[1] Controlled diffusions with rapidly oscillating unknown parameter processes. (English summary) (*see* **93g:93007**)

Zhong, Wan Xie *see* **Deng, Zi Chen; et al.**

Zhou, Xun Yu (*with* Sethi, Suresh P.) A sufficient condition for near optimal stochastic controls and its application to an HMMS model under uncertainty. (English summary) **93g:93088**

Zhu, Hang Generalized solution in singular stochastic control: the nondegenerate problem. **93e:93072**

Items with secondary classifications in 93E20

Arapostathis, Aristotle *see* **Ghosh, Mrinal K.; et al., (93g:93007)**

Artstein, Zvi Sensitivity to σ-fields of information in stochastic allocation. **93f:90165**

Attia, F. A. On a reflected Ornstein-Uhlenbeck process with an application. **93c:60114**

Baranov, V. V. Numerical methods of successive eliminations and optimization in a model of stochastic optimal control. (Russian) **93f:90179**

Beck, Anatole (*with* Beck, Micah) The revenge of the linear search problem. **93f:90098**

Beck, Micah *see* **Beck, Anatole, 93f:90098**

Bensoussan, Alain ★ Stochastic control of partially observable systems. **93i:93001**

— (*with* Frehse, J.) On Bellman equations of ergodic control in $\mathbf{R}^n$. **93h:49046**

Bernstein, Dennis S. *see* **Halevi, Yoram; et al.**

Bierth, Karl-Josef ★ Durchschnittsgewinnkriterien in semi-Markoffschen Entscheidungsmodellen. (German) [Average reward criteria in semi-Markovian decision models] **93b:90003**

Blaquière, A. Controllability of a Fokker-Planck equation, the Schrödinger system, and a related stochastic optimal control (revised version). **93j:93011**

Borisenko, I. I. Synthesis of multidimensional stochastic system controls by means of decomposition. (Russian) **93f:93008**

Borkar, Vivek S. (*with* Ghosh, Mrinal K.) Correction: "Ergodic and adaptive control of nearest-neighbor motions" [Math. Control Signals Systems **4** (1991), no. 1, 81–98; MR 92e:93026]. **93i:93072**

Boukas, El-Kebir Techniques for flow control and preventive maintenance in manufacturing systems. **93a:93011**

Cavazos-Cadena, Rolando Average optimal stationary policies in Markov decision processes under weak stability conditions. **93e:90066**

— Existence of optimal stationary policies in average reward Markov decision processes with a recurrent state. **93e:90067**

Cerone, V. Parameter bounds for ARMAX models from records with bounded errors in variables. (English summary) **93i:93117**

Cvitanić, Jakša (*with* Karatzas, Ioannis) Convex duality in constrained portfolio optimization. (English summary) **93j:90068**

Dolzhikov, V. V. *see* **Smyshlyaeva, L. G.; et al., 93c:93050**

El Karoui, Nicole (*with* Karatzas, Ioannis) A new approach to the Skorohod problem, and its applications. **93b:60088a**

— (*with* Karatzas, Ioannis) Correction: "A new approach to the Skorohod problem, and its applications". **93b:60088b**

Fomin, V. N. ★ Discrete linear control systems. **93d:93002**

Frehse, J. *see* **Bensoussan, Alain, 93h:49046**

Gątarek, Dariusz Impulsive control of piecewise-deterministic processes. (English summary) (*see* **93d:93009**)

Ghosh, Mrinal K. (*with* Arapostathis, Aristotle; Marcus, Steven I.) Optimal control of switching diffusions modelling a flexible manufacturing system. (English summary) (*see* **93g:93007**)

— *see also* **Borkar, Vivek S., 93i:93072**

Gittins, John (*with* Wang, You-Gan) The learning component of dynamic allocation indices. (English summary) **93k:62013**

Glowinski, Roland Ensuring well-posedness by analogy: Stokes problem and boundary control for the wave equation. (English summary) **93j:65179**

Gordienko, E. I. An estimate of the stability of optimal control of certain stochastic and deterministic systems. **93e:49038**

Govindan, T. E. (*with* Joshi, Mohan C.) Stability and optimal control of stochastic functional-differential equations with memory. (English summary) **93g:49007**

Haario, Heikki (*with* Saksman, Eero) Weak convergence of the simulated annealing process in general state space. **93d:60109**

Haddad, Wassim M. *see* **Halevi, Yoram; et al.**

Halevi, Yoram (*with* Haddad, Wassim M.; Bernstein, Dennis S.) A Riccati equation approach to the singular LQG problem. (English summary)

Hastings, Kevin J. Impulse control of portfolios with jumps and transaction costs. **93b:90017**

Havârneanu, Teodor An approximation scheme of the dynamic programming equation for a stochastic control problem with infinite horizon. **93g:49023**

Hsu, Yen Ting *see* **Tsai, Te Ping**

Jacobs, Konrad Measure-theoretical max-flow problems. **93h:49027**

Joshi, Mohan C. *see* **Govindan, T. E., 93g:49007**

Kaji, K. *see* **Wong, K. H.; et al., (93d:90005)**

Karatzas, Ioannis (*with* Ocone, Daniel L.) Feynman-Kac formula for a degenerate planar diffusion and an application in stochastic control. **93b:60177**

— (*with* Ocone, Daniel L.) The resolvent of a degenerate diffusion on the plane, with application to partially observed stochastic control. (English summary) **93h:60100**

— *see also* **El Karoui, Nicole, 93b:60088a; 93b:60088b** *and* **Cvitanić, Jakša, 93j:90068**

Khametov, V. M. *see* **Piunovskii, A. B., 93j:49032**

Khrustalev, M. M. *see* **Savastyuk, S. V., 93a:49016a** *and* **93a:49016b**

Kolokol'tsov, V. N. The stochastic Bellman equation as a nonlinear equation in Maslov spaces. Perturbation theory. (Russian) **93j:49031**

Korbicz, Józef (*with* Zgurovskiĭ, M. Z.) ★ Estymacja i sterowanie stochastyczne układami o parametrach rozłożonych. (Polish) [Estimation and control of stochastic systems with distributed parameters] **93f:93001**

Krawczyk, Jacek B. Properties of repetitive control of partially observed processes. (English summary)

Kuzin, V. S. Analytical solution of the probabilities of an optimization problem when there are rigid constraints. (Russian. Russian summary) **93d:90046**

Laws, C. N. Resource pooling in queueing networks with dynamic routing. **93h:90037**

Leizarowitz, Arie On infinite products of stochastic matrices. **93b:15023**

Lock, N. *see* **Wong, K. H.; et al., (93d:90005)**

Logunov, P. L. Comparison of expenditures with an optimal and a random control in a particular technical system. (Russian. Russian summary) **93d:90026**

Maitra, Ashok (*with* Purves, R.; Sudderth, William D.) A capacitability theorem in finitely additive gambling. (Italian summary) **93d:60077**

Malinina, T. B. *see* **Smyshlyaeva, L. G.; et al., 93c:93050**

Marcus, Steven I. *see* **Ghosh, Mrinal K.; et al., (93g:93007)**

Mikulevičius, Remigius (*with* Pragarauskas, H.) On the uniqueness of a solution to the Bellman equation in Sobolev's classes. (Russian and Lithuanian summaries) **93c:35010**

Minyuk, S. A. On the theory of the optimal control and filtering of linear stochastic systems of functional-differential equations. (Russian) **93d:34135**

Müller, Peter C. *see* **Tanaka, Shogo**

Narkis, Yahli Cost function calculation for stationary, linear-quadratic systems with colored noise. (English summary) **93h:49054**

Nikitin, N. V. Stability of nonlinear stochastic systems: a path integral approach. **93a:93112**

Nisio, Makiko On the existence of optimal relaxed control for stochastic differential equations. **93a:49004**

Ocone, Daniel L. *see* **Karatzas, Ioannis, 93b:60177** *and* **93h:60100**

Ohsumi, Akira Optimal search for a Markovian target. **93b:90037**

Papageorgiou, Nikolaos S. Optimization of discrete-time, stochastic systems. (English summary) **93k:49024**

Peng, Shi Ge Probabilistic interpretation for systems of quasilinear parabolic partial differential equations. **93a:35159**

Pham Tran Nhu Optimal control for partially observed dynamic systems with jump varying structures.

Piunovskii, A. B. (*with* Khametov, V. M.) New exactly solvable examples for controllable Markov chains with discrete time. (Russian. English and Ukrainian summaries) **93j:49032**

Porosiński, Zdzisław (*with* Szajowski, Krzysztof) A minimax control of linear systems. (*see* **93d:93009**)
Pragarauskas, H. *see* **Mikulevičius, Remigius**, **93c:35010**
Purves, R. *see* **Maitra, Ashok; et al.**, **93d:60077**
Ramachandran, K. M. (*with* Yin, Gang George) Nearly optimal state feedback controls for delay differential equations with a small parameter. (English summary) **93j:49030**
Rashidov, Yu. R. ★ Оптимальное управление стохастическими системами со свободным конечным временем. (Russian) [Optimal control of stochastic systems with free finite time] **93g:49001**
Rempała, Ryszarda Forecast horizon in a dynamic family of one-dimensional control problems. **93e:49003**
Saksman, Eero *see* **Haario, Heikki**, **93d:60109**
Savastyuk, S. V. (*with* Khrustalev, M. M.) Optimization of stochastic systems of diffusion type with constraints on the control-observation process. I. Sufficient conditions for optimality. (Russian) **93a:49016a**
— (*with* Khrustalev, M. M.) Optimization of stochastic systems of diffusion type with constraints on the control-observation process. II. Necessary conditions for optimality. (Russian) **93a:49016b**
Shaikhet, L. E. A linear-quadratic problem of the optimal control of a stochastic Volterra equation. (Russian) **93a:49020**
— Construction of successive approximations to an optimal control by stochastic quasilinear integral-functional equations. (Russian) **93b:49038**
Shchukina, G. P. Optimization of control according to a probability criterion. (Russian) (*see* **93g:00022**)
Shimkin, Nahum (*with* Shwartz, Adam) Guaranteed performance regions for multi-user Markov models. (English summary) (*see* **93g:93007**)
Shreve, Steven E. *see* **Xu, Gan-Lin**, **93c:90016a** *and* **93c:90016b**
Shwartz, Adam *see* **Shimkin, Nahum**, (**93g:93007**)
Silaev, A. I. Constructive estimation of the true local maximum of the a posteriori probability for nondiscrete distribution of the undetermined parameters. (Russian) **93c:93048**
Smyshlyaeva, L. G. (*with* Malinina, T. B.; Dolzhikov, V. V.) ★ Нестандартные задачи фильтрации. (Russian) [Nonstandard filtering problems] **93c:93050**
Spiliotis, J. Certain results on a parabolic type Monge-Ampère equation. **93a:35055**
Sudderth, William D. (*with* Weerasinghe, A. P. N.) Using fuel to control a process to a goal. **93b:60093**
— *see also* **Maitra, Ashok; et al.**, **93d:60077**
Szajowski, Krzysztof *see* **Porosiński, Zdzisław**, (**93d:93009**)
Tanaka, Shogo (*with* Müller, Peter C.) Fault detection in linear discrete dynamic systems by a reduced order generalized-likelihood-ratio method. (English summary)
Tessitore, Gianmario Some remarks on the Riccati equation arising in an optimal control problem with state- and control-dependent noise. **93c:49022**
Tsai, Te Ping (*with* Hsu, Yen Ting) A two-degree-of-freedom LQR design of control systems. (English summary)
Tudor, Constantin Quadratic control for linear stochastic equations with pathwise cost. (*see* **93d:93009**)
Viscolani, B. Random inspection schedules with nondecreasing intensity. (English and French summaries) **93f:90085**
Wakuta, Kazuyoshi Optimal control of an imperfectly observed queueing system. (English summary) **93m:90038**
Wang, You-Gan *see* **Gittins, John**, **93k:62013**
Weerasinghe, A. P. N. *see* **Sudderth, William D.**, **93b:60093**
Wein, Lawrence M. Dynamic scheduling of a multiclass make-to-stock queue. (English summary) **93f:90097**
White, Langford B. An iterative method for exact maximum likelihood estimation of the parameters of a harmonic series. (English summary)
Wong, K. H. (*with* Lock, N.; Kaji, K.) Output feedback for a class of linear-quadratic systems with jump stochastic parameters. (English summary) (*see* **93d:90005**)
Xu, Gan-Lin (*with* Shreve, Steven E.) A duality method for optimal consumption and investment under short-selling prohibition. I. General market coefficients. **93c:90016a**
— (*with* Shreve, Steven E.) A duality method for optimal consumption and investment under short-selling prohibition. II. Constant market coefficients. **93c:90016b**
Yin, Gang George *see* **Ramachandran, K. M.**, **93j:49030**
Zariphopoulou, Thaleia Investment-consumption models with transaction fees and Markov-chain parameters. **93b:90024**
Zgurovskiĭ, M. Z. *see* **Korbicz, Józef**, **93f:93001**

93E23 Stochastic gradient methods

Items with secondary classifications in 93E23

Campillo, F. (*with* Pardoux, Étienne) Numerical methods in ergodic optimal stochastic control and application. **93c:93053**
Chen, Han Fu Stochastic adaptive control. (English summary) **93j:93005**
Pardoux, Étienne *see* **Campillo, F.**, **93c:93053**

93E24 Least squares and related methods

David, Johan *see* **De Moor, Bart L. R.**, **93d:93090**
De Moor, Bart L. R. (*with* David, Johan) Total linear least squares and the algebraic Riccati equation. (English summary) **93d:93090**
Desai, Premal (*with* Mahalanabis, A. K.) A state space self-tuning controller with integral action. (English summary)
Duncan, Tyrone E. (*with* Mandl, Petr; Pasik-Duncan, Bożenna) On least squares estimation in continuous time linear stochastic systems. **93e:93073**
Filipović, V. Ž. (*with* Kovačević, Branko) Direct adaptive control with the robust least squares method. (English summary) (*see* **93j:93007**)
Fragoso, Marcelo D. *see* **Hemerly, E. M.**, **93f:93145**
Hemerly, E. M. (*with* Fragoso, Marcelo D.) Strongly consistent estimation of the order of stochastic control systems (CARMA model). **93f:93145**
Kovačević, Branko *see* **Filipović, V. Ž.**, (**93j:93007**)
Lee, Bore Kuen (*with* Lin, Yu Ping) Extended LQG self-tuning controller in a mixed background. **93a:93115**
Lin, Yu Ping *see* **Lee, Bore Kuen**, **93a:93115**
Mahalanabis, A. K. *see* **Desai, Premal**
Mandl, Petr *see* **Duncan, Tyrone E.; et al.**, **93e:93073**
Pasik-Duncan, Bożenna *see* **Duncan, Tyrone E.; et al.**, **93e:93073**
Van Huffel, Sabine The restricted total least squares problem and its use in system identification. **93b:93114**

Items with secondary classifications in 93E24

Boutahar, Mohamed (*with* Deniau, Claude) Almost sure convergence of least squares estimates for regular multivariate ARX systems. (English summary) **93f:62122**
Caines, Peter E. Recent results in stochastic adaptive control: nonexplosion, *e*-consistency and stability. (English summary) **93j:93156**
Chen, Han Fu Stochastic adaptive control. (English summary) **93j:93005**
Deniau, Claude *see* **Boutahar, Mohamed**, **93f:62122**
Hong, Hui Min *see* **Li, Rui Sheng; et al.**, **93m:93094**
Kinnaert, Michel *see* **Peng, You Bin**, **93b:93050**
Kisenkova, N. A. Estimation of the characteristics of objects and random perturbations by the minimal distance method. (Russian. Russian summary) **93i:93125**
Konev, V. V. (*with* Pergamenshchikov, S. M.) Sequential estimation of the parameters of linear unstable stochastic systems with guaranteed mean-square accuracy. (Russian. Russian summary) **93j:93141**
Kumar, Panganamala Ramana *see* **Naik, Sanjeev M.**, **93m:93101**
Li, Rui Sheng (*with* Ma, Ping; Hong, Hui Min) Robustness and convergence of least-squares identification and adaptive tracking for stochastic system. (English and Chinese summaries) **93m:93094**
Ljung, Lennart (*with* Wahlberg, B.) Asymptotic properties of the least-squares method for estimating transfer functions and disturbance spectra. **93c:93051**
Ma, Ping *see* **Li, Rui Sheng; et al.**, **93m:93094**
Naik, Sanjeev M. (*with* Kumar, Panganamala Ramana) Extended least squares based adaptive control: robustness analysis. (English summary) **93m:93101**
Peng, You Bin (*with* Kinnaert, Michel) Explicit solution to the singular LQ regulation problem. **93b:93050**
Pergamenshchikov, S. M. *see* **Konev, V. V.**, **93j:93141**
Wahlberg, B. *see* **Ljung, Lennart**, **93c:93051**
You, Xiao Hu Explicit solutions of the optimum weights of layered neural networks. (English summary) **93j:92007**

93E25 Other computational methods

Granichin, O. N. A stochastic approximation procedure with disturbance at the input. (Russian. Russian summary) **93f:93146**
Kushner, Harold J. *see* **Vázquez-Abad, Felisa J.**, **93d:93092** *and* **Yang, Jichuan**, **93d:93093**
Matulka, Josef (*with* Neck, Reinhard) OPTCON: an algorithm for the optimal control of nonlinear stochastic models. (English summary) **93h:93088**
Neck, Reinhard *see* **Matulka, Josef**, **93h:93088**
Pyt'ev, Yu. P. On the theory of nonlinear measurement-computing systems. (Russian. English and Russian summaries) **93d:93091**
Vázquez-Abad, Felisa J. (*with* Kushner, Harold J.) Estimation of the derivative of a stationary measure with respect to a control parameter. **93d:93092**
Yang, Jichuan (*with* Kushner, Harold J.) A Monte Carlo method for sensitivity analysis and parametric optimization of nonlinear stochastic systems. **93d:93093**

Items with secondary classifications in 93E25

Akizuki, Kageo *see* **Hashimoto, Hiroshi**, **93h:93072**
Gzyl, Henryk Nonunitary representation of canonical transformations and applications to filtering theory. **93e:93062**
Hashimoto, Hiroshi (*with* Akizuki, Kageo) Global convergence of implicit STC. (English summary) **93h:93072**
Polyak, B. T. (*with* Yuditskiĭ, A. B.) Acceleration of stochastic approximation by averaging. **93g:62110**
Shil'man, S. V. Necessary and sufficient conditions for convergence of stochastic adaptation algorithms. (Russian. English, Russian and Ukrainian summaries) **93f:93152**
Yuditskiĭ, A. B. *see* **Polyak, B. T.**, **93g:62110**

93E30 Computer simulations of stochastic systems

Dekker, L. Generalized steady-state, a system concept in simulation. (English summary) (*see* **93e:00021**)
Juang, Jer-Nan *see* **Phan, Minh; et al.**, **93c:93054**
Longman, Richard W. *see* **Phan, Minh; et al.**, **93c:93054**
Phan, Minh (*with* Juang, Jer-Nan; Longman, Richard W.) Identification of linear multivariable systems by identification of observers with assigned real eigenvalues. **93c:93054**

Items with secondary classifications in 93E30

Aihara, Shin'ichi Regularized maximum likelihood estimate for an infinite-dimensional parameter in stochastic parabolic systems. **93e:93059**
Campillo, F. (*with* Pardoux, Étienne) Numerical methods in ergodic optimal stochastic control and application. **93c:93053**
Egupov, N. D. (*with* Lapin, S. V.) Determinant and statistical analysis of linear time-varying systems via block-pulse functions. (English summary)
Emara-Shabaik, Hosam E. *see* **Moustafa, Kamal A. F.**
Ho, Yu-Chi *see* **Zhang, Bin**, **93f:93122**
Lapin, S. V. *see* **Egupov, N. D.**
Ljung, Lennart ★ Идентификация систем. Теория для пользователя. (Russian) [System identification. Theory for the user] **93e:93002**
(Mandel', A. S.) *see* **Ljung, Lennart**, **93e:93002**

Moustafa, Kamal A. F. (*with* Emara-Shabaik, Hosam E.) Nonlinearity detection of weakly nonlinear dynamic systems using cumulants. (English summary)
(Nazin, A. V.) *see* **Ljung, Lennart, 93e:93002**
Pardoux, Étienne *see* **Campillo, F., 93c:93053**
(Sydow, Achim) *see* **Computational systems analysis, 93e:00021**
(Tsypkin, Ya. Z.) *see* **Ljung, Lennart, 93e:93002**
Zhang, Bin (*with* Ho, Yu-Chi) Improvements in the likelihood ratio method for steady-state sensitivity analysis and simulation. (English summary) **93f:93122**

Items listed otherwise than by author

Berlin ★ Computational systems analysis 1992. **93e:00021**
Computational systems analysis ★ Computational systems analysis 1992. **93e:00021**
Symposium:
Systems Analysis and Simulation ★ Computational systems analysis 1992. **93e:00021**

93E35 Stochastic learning and adaptive control

Abe, Ken-ichi *see* **Ishihara, Tadashi; et al., (93j:93007)**
Ahlén, Anders (*with* Sternad, Mikael) Adaptive input estimation. (English summary) (*see* **93j:93007**)
Ando, Kazuaki *see* **Itamiya, K.; et al., (93g:93006)**
Arapostathis, Aristotle *see* **Fernández-Gaucherand, Emmanuel; et al., (93g:93007)**
Bakhtadze, N. N. A rapidly converging algorithm for the identification of a linear object under correlated inputs. (Russian. Russian summary)
Bar-Kana, Izhak *see* **Guez, Allon; et al.**
Borkar, Vivek S. A modified self-tuner for controlled diffusions with an unknown parameter. (English summary) (*see* **93g:93003**)
van den Bosch, P. P. J. *see* **Soeterboek, A. R. M.; et al., (93j:93007)**
Bose, S. C. *see* **Ramaswamy, P. S.; et al.**
Brown, Lyndon J. *see* **Meyn, Sean P., 93k:93121**
Caines, Peter E. (*with* Nassiri-Toussi, K.) On the adaptive stabilization and ergodic behaviour of stochastic systems with jump-Markov parameters via nonlinear filtering. (English summary) (*see* **93h:93009**)
— Recent results in stochastic adaptive control: nonexplosion, ε-consistency and stability. (English summary) **93j:93156**
— Continuous time stochastic adaptive control: nonexplosion, ε-consistency and stability. (English summary) **93f:93147**
Chai, Tian You A direct multivariable adaptive decoupling control algorithm. (Chinese. English and Chinese summaries) **93i:93133**
Chen, Han Fu (*with* Zhang, Ji Feng) Convergence analysis for adaptive control systems with unknown orders, delay and coefficients. (Polish summary) **93b:93115**
Chen, Li Peng *see* **Xu, Ning Shou; et al., (93i:93007)**
Courcoubetis, C. (*with* Kesidis, G.; Ridder, A.; Walrand, Jean; Weber, Richard R.) Adaptive control of admissions and routing in an ATM network. (English summary) (*see* **93g:93007**)
Delyon, Bernard *see* **Fuchs, Jean-Jacques, 93f:93148**
Ersü, E. *see* **Tolle, H.; et al.**
Fatmi, H. A. *see* **Oliver, A., (93h:93007)**
Fernández-Gaucherand, Emmanuel (*with* Arapostathis, Aristotle; Marcus, Steven I.) Adaptive control of a partially observed controlled Markov chain. (English summary) (*see* **93g:93007**)
Fuchs, Jean-Jacques (*with* Delyon, Bernard) Adaptive control of a simple time-varying system. **93f:93148**
Gerencsér, László Strong approximation results in estimation and adaptive control. **93e:93074**
Guez, Allon (*with* Rusnak, Ilan; Bar-Kana, Izhak) Multiple objective optimization approach to adaptive and learning control. (English summary)
Haussmann, U. G. (*with* Zhang, Qing[1]) Discrete-time stochastic adaptive control with small observation noise. **93f:93149**
Hormel, M. *see* **Tolle, H.; et al.**
Hu, Ze Xin (*with* Jiang, Wei Sun) A novel predictive control for nonlinear systems with time delay and its application. (Chinese. Chinese summary)
Huang, Yih-Fang *see* **Marcopoli, V. R.; et al., (93g:93005)**
Hunt, K. J. (*with* Šebek, Michael) Multivariable LQG self-tuning control with disturbance measurement feedforward. (English summary) (*see* **93j:93007**)
Ishihara, Tadashi (*with* Abe, Ken-ichi; Takeda, Hiroshi) Discrete-time iterative learning controller using approximation inverse model. (English summary) (*see* **93j:93007**)
Itamiya, K. (*with* Shin, Seiichi; Ando, Kazuaki) Robust model reference learning control system based on approximated weighting functions. (English summary) (*see* **93g:93006**)
Jiang, Wei Sun *see* **Hu, Ze Xin**
Kesidis, G. *see* **Courcoubetis, C.; et al., (93g:93007)**
Kitamori, Toshiyuki *see* **Shin, Seiichi, (93j:93007)**
Kogan, M. M. (*with* Neimark, Yu. I.) Adaptive control of a stochastic object with an unmeasurable state under conditions of nonidentifiability. (Russian. Russian summary) **93i:93134**
Krüger, J. J. *see* **Shaw, I. S.**
Kuc, Tae-Yong (*with* Lee, Jin S.; Nam, Kwanghee) An iterative learning control theory for a class of nonlinear dynamic systems. (English summary) **93i:93135**
Kumar, Panganamala Ramana *see* **Ren, Wei, 93d:93094; 93f:93151; Naik, Sanjeev M., 93m:93101** *and* **Ren, Wei, (93c:93004)**
Lai, Tze Leung Certainty equivalence with uncertainty adjustments in stochastic adaptive control. (English summary) (*see* **93g:93007**)
Laušmanová, Monika Exponentially discounted estimates and oscillations in linear controlled systems. **93c:93055**
— *see also* **Mandl, Petr, (93g:93007)**
Le Breton, Alain Adaptive control in the scalar linear-quadratic model in continuous time. **93a:93116**
Lee, Jin S. *see* **Kuc, Tae-Yong; et al., 93i:93135**
Lemos, J. M. *see* **Mosca, Edoardo, (93j:93007)**
Ljung, Lennart An exact formula for the tracking ability of adaptive algorithms: implications for the general case. (English summary) (*see* **93h:93009**)
— A (simple) perspective on adaptation and performance of adaptation mechanisms. (English summary) (*see* **93g:93007**)
Mandl, Petr On evaluating the performance of self-tuning regulators. (*see* **93b:65007**)
— (*with* Laušmanová, Monika) Discounted estimation and discretization in adaptive control. (*see* **93g:93007**)
Marcopoli, V. R. (*with* Rao, Ashok K.; Huang, Yih-Fang) An output error adaptive algorithm using membership-set approach. (English summary) (*see* **93g:93005**)
Marcus, Steven I. *see* **Fernández-Gaucherand, Emmanuel; et al., (93g:93007)**
Meyn, Sean P. (*with* Brown, Lyndon J.) Model reference adaptive control of linear stochastic systems. (English summary) **93k:93121**
Michel, Anthony N. *see* **Radenković, Miloje S., (93g:93007)**
Militzer, Jürgen *see* **Parks, P. C.; Tolle, H.; et al.** *and* **Parks, P. C., (93j:93007)**
Mohamed, S. S. *see* **Porter, Brian**
Mosca, Edoardo (*with* Lemos, J. M.) A semi-infinite horizon LQ self-tuning regulator for ARMAX plants based on RLS. (English summary) (*see* **93j:93007**)
Naik, Sanjeev M. (*with* Kumar, Panganamala Ramana) Extended least squares based adaptive control: robustness analysis. (English summary) **93m:93101**
Nam, Kwanghee *see* **Kuc, Tae-Yong; et al., 93i:93135**
Nassiri-Toussi, K. *see* **Caines, Peter E., (93h:93009)**
Neimark, Yu. I. *see* **Kogan, M. M., 93i:93134**
Oliver, A. (*with* Fatmi, H. A.) Nonlinear adaptive filtering by the Gabor-Kolmogorov method. (*see* **93h:93007**)
Parisini, T. *see* **Zoppoli, R., (93a:93006)**
Parks, P. C. (*with* Militzer, Jürgen) Convergence properties of associative memory storage for learning control systems. (English summary) (*see* **93j:93007**)
— (*with* Militzer, Jürgen) A comparison of five algorithms for the training of CMAC memories for learning control systems. (English summary)
— *see also* **Tolle, H.; et al.**
Pasik-Duncan, Bożenna On adaptive control of continuous time linear stochastic systems. (English summary) (*see* **93d:93009**)
Porter, Brian (*with* Mohamed, S. S.) Digital iterative learning control of linear multivariable plants. (English summary)
— (*with* Mohamed, S. S.) Learning rates in the digital iterative learning control of linear multivariable plants. (English summary)
Radenković, Miloje S. (*with* Michel, Anthony N.) Adaptive control and self-stabilization. (English summary) (*see* **93g:93007**)
Ram, Sudhakaran G. *see* **Ramaswamy, P. S.; et al.**
Ramaswamy, P. S. (*with* Ram, Sudhakaran G.; Bose, S. C.) Learning expert system for on-line control of manufacturing process. (English and Polish summaries)
Rao, Ashok K. *see* **Marcopoli, V. R.; et al., (93g:93005)**
Rastrigin, L. A. Two-alternative adaptation (pre-asymptotic Markovian theory). (Russian. English, Russian and Ukrainian summaries) **93f:93150**
Ren, Wei (*with* Kumar, Panganamala Ramana) Recent results on least squares-based adaptive control of linear stochastic systems in white noise. (English summary) **93f:93151**
— (*with* Kumar, Panganamala Ramana) Stochastic adaptive system theory: recent advances and a reappraisal. (English summary) (*see* **93c:93004**)
— (*with* Kumar, Panganamala Ramana) Stochastic parallel model adaptation: theory and applications to active noise canceling, feedforward control, IIR filtering, and identification. **93d:93094**
Ridder, A. *see* **Courcoubetis, C.; et al., (93g:93007)**
Romanov, A. Yu. Direct adaptation of automatic control systems under separation of control channels. (Russian. Russian summary)
Runggaldier, Wolfgang J. Some aspects of robustness in stochastic and adaptive control. (English summary) (*see* **93g:93007**)
Rusnak, Ilan *see* **Guez, Allon; et al.**
Šebek, Michael *see* **Hunt, K. J., (93j:93007)**
Shaw, I. S. (*with* Krüger, J. J.) New fuzzy learning model with recursive estimation for dynamic systems. (English summary)
Shil'man, S. V. Necessary and sufficient conditions for convergence of stochastic adaptation algorithms. (Russian. English, Russian and Ukrainian summaries) **93f:93152**
Shin, Seiichi (*with* Kitamori, Toshiyuki) Model reference learning control for discrete-time nonlinear system. (English summary) (*see* **93j:93007**)
— *see also* **Itamiya, K.; et al., (93g:93006)**
Shnaidman, M. A. Adaptation algorithms in searchless self-tuning systems with control of frequency characteristics and without the use of test signals. (Russian. Russian summary)
Soeterboek, A. R. M. (*with* Verbruggen, H. B.; van den Bosch, P. P. J.) Implicit modeling of noise versus the use of a fixed noise model. (English summary) (*see* **93j:93007**)
Sternad, Mikael The use of disturbance measurement feedforward in LQG self-tuners. (English summary) (*see* **93j:93007**)
— *see also* **Ahlén, Anders, (93j:93007)**
Takeda, Hiroshi *see* **Ishihara, Tadashi; et al., (93j:93007)**
Tolle, H. (*with* Parks, P. C.; Ersü, E.; Hormel, M.; Militzer, Jürgen) Learning control with interpolating memories—general ideas, design lay-out, theoretical approaches and practical applications. (English summary)
Trzaska, Z. W. The adaptive method for filtering the reflection waves in parameter identifications of nonuniform distributed systems. (English summary) (*see* **93j:93007**)
Verbruggen, H. B. *see* **Soeterboek, A. R. M.; et al., (93j:93007)**
Walrand, Jean *see* **Courcoubetis, C.; et al., (93g:93007)**
Weber, Richard R. *see* **Courcoubetis, C.; et al., (93g:93007)**
Wu, Zhang Lei *see* **Xu, Ning Shou; et al., (93i:93007)**
Xu, Ning Shou (*with* Wu, Zhang Lei; Chen, Li Peng) A learning modified generalized predictive controller. (English summary) (*see* **93i:93007**)
Yin, Gang George Distributed stochastic algorithms for supervised learning. (English summary) (*see* **93g:93005**)
Zhang, Ji Feng *see* **Chen, Han Fu, 93b:93115**
Zhang, Qing[1] *see* **Haussmann, U. G., 93f:93149**
Zoppoli, R. (*with* Parisini, T.) Learning techniques and neural networks for the solution of N-stage nonlinear nonquadratic optimal control problems. (*see* **93a:93006**)

Items with secondary classifications in 93E35

Badr, Ahmed Z. Adaptive controller for minimum phase multi-input multi-output systems. (English summary)
Bailey, Michael P. *see* **Glazebrook, Kevin D.; et al., 93f:90180**
Bitmead, Robert R. (*with* Gevers, Michel; Wertz, V.) Optimal control redesign of generalized predictive control. (English summary) (*see* **93j:93007**)
Burnham, K. J. *see* **Warwick, Kevin, (93j:93007)**
Caron, R. J. (*with* Hlynka, M.; McDonald, James Frederick) On the best case performance of hit and run methods for detecting necessary constraints. **93d:65062**
Casalino, G. (*with* Minciardi, Riccardo) Further results on implicit models with application to LQ adaptive optimization. **93a:93035**
Casiello, Francisco A. *see* **Tsai, Yweting A.; et al., 93f:93082**
Chen, Guan Rong (*with* Öğmen, Haluk) Modified extended Kalman filtering for supervised learning. (English summary)
Chen, Han Fu (*with* Guo, Lei) Parameter identification in stochastic adaptive tracking systems. (English summary) (*see* **93g:93005**)
— Stochastic adaptive control. (English summary) **93j:93005**
Dai, Guan Zhong *see* **Zhang, Jian Hua²**
Delyon, Bernard (*with* Yuditskiĭ, A. B.) Stable adaptive control for a plant with randomly varying parameters. (English summary) **93i:93073**
(Durrani, T. S.) *see* **Adaptive systems in control and signal processing, 93j:93007**
Fukuda, Toshio *see* **Watanabe, Keigo; et al.**
Gerencsér, László Rate of convergence of recursive estimators. (English summary) **93i:93124**
Gevers, Michel *see* **Bitmead, Robert R.; et al., (93j:93007)**
Glazebrook, Kevin D. (*with* Bailey, Michael P.; Whitaker, Lyn R.) Cost rate heuristics for semi-Markov decision processes. **93f:90180**
(Grimble, M. J.) *see* **Adaptive systems in control and signal processing, 93j:93007**
Guo, Lei *see* **Chen, Han Fu, (93g:93005)**
Han, Zhi Gang A dual adaptive control algorithm for parameter estimation. (Chinese. English and Chinese summaries) **93i:93074**
Han, Zhi Jun (*with* Lu, Yuan Zhang; Huang, Ming Shen) A minimum variance self-tuning controller with fixed closed-loop holes. (Chinese. English and Chinese summaries)
He, Zhi Bin *see* **Zhang, Hong Cai; et al.**
Henriksen, Rolf Accuracy of some robust estimators based upon prefiltering of the input/output data. (English summary) **93i:93118**
Hlynka, M. *see* **Caron, R. J.; et al., 93d:65062**
Hong, Hui Min *see* **Li, Rui Sheng; et al., 93m:93094**
Huang, Ming Shen *see* **Han, Zhi Jun; et al.**
Jayawardena, Thusitha *see* **Yakowitz, Sid; et al., 93j:90127**
(Johnson, Michael A.) *see* **Adaptive systems in control and signal processing, 93j:93007**
Kárný, Miroslav Parametrization of multi-output autoregressive-regressive models for self-tuning control. (English summary) **93j:93148**
(Kokotović, P. V.) *see* **Foundations of adaptive control, 93c:93004**
Landau, I. D. Adaptive control—robustness and performance enhancement. (English summary) (*see* **93j:93007**)
Li, Rui Sheng (*with* Ma, Ping; Hong, Hui Min) Robustness and convergence of least-squares identification and adaptive tracking for stochastic system. (English and Chinese summaries) **93m:93094**
Li, Shu *see* **Yakowitz, Sid; et al., 93j:90127**
Loparo, Kenneth A. *see* **Tsai, Yweting A.; et al., 93f:93082**
Lu, Yuan Zhang *see* **Han, Zhi Jun; et al.**
Ma, Ping *see* **Li, Rui Sheng; et al., 93m:93094**
Mandl, Petr Tracking of transition rates in Markov processes. **93b:60165**
McDonald, James Frederick *see* **Caron, R. J.; et al., 93d:65062**
Mignolet, Marc P. (*with* Spanos, Pol-T. D.) Simulation of homogeneous two-dimensional random fields. I. AR and ARMA models. (English summary) **93f:93129a**
— *see also* **Spanos, Pol-T. D., 93f:93129b**
Minciardi, Riccardo *see* **Casalino, G., 93a:93035**
Morimoto, Hiroaki A stochastic extension of model reference adaptive control. (English summary) **93f:93073**
Mutoh, Yasuhiko (*with* Ortega, Romeo) Interactor structure estimation for adaptive control of discrete-time multivariable nondecouplable systems. (English summary)
Öğmen, Haluk *see* **Chen, Guan Rong**
Ohmori, Hiromitsu (*with* Sano, A.) Robust adaptive control system based on extended leaky integration method. (English summary) (*see* **93i:93007**)
Ortega, Romeo *see* **Mutoh, Yasuhiko**
(Owens, David H.) *see* **Adaptive systems in control and signal processing, 93j:93007**
Perevozchikov, A. G. *see* **Zavriev, S. K., 93m:93038**
Rashidov, Yu. R. ★ Оптимальное управление стохастическими системами со свободным конечным временем. (Russian) [Optimal control of stochastic systems with free finite time] **93g:49001**
Sano, A. *see* **Ohmori, Hiromitsu, (93i:93007)**
de la Sen, Manuel A robust discrete adaptive control scheme with a forgetting factor admitting saturated inputs. (English summary) **93j:93080**
Spanos, Pol-T. D. (*with* Mignolet, Marc P.) Simulation of homogeneous two-dimensional random fields. II. MA and ARMA models. (English summary) **93f:93129b**
— *see also* **Mignolet, Marc P., 93f:93129a**
Tsai, Yweting A. (*with* Casiello, Francisco A.; Loparo, Kenneth A.) Discrete-time entropy formulation of optimal and adaptive control problems. **93f:93082**
Tzafestas, Spyros G. *see* **Watanabe, Keigo; et al.**
Warwick, Kevin (*with* Burnham, K. J.) Filtered and predicted states for discrete-time adaptive control. (English summary) (*see* **93j:93007**)
Watanabe, Keigo (*with* Fukuda, Toshio; Tzafestas, Spyros G.) An adaptive control for CARMA systems using linear neural networks. (English summary)
Wertz, V. *see* **Bitmead, Robert R.; et al., (93j:93007)**
Whitaker, Lyn R. *see* **Glazebrook, Kevin D.; et al., 93f:90180**
Yakowitz, Sid (*with* Jayawardena, Thusitha; Li, Shu) Theory for automatic learning under partially observed Markov-dependent noise. (English summary) **93j:90127**
Yu, Dao Rong *see* **Zhao, Ping Ya, 93f:93123**
Yuditskiĭ, A. B. *see* **Delyon, Bernard, 93i:93073**
Zavriev, S. K. (*with* Perevozchikov, A. G.) Stochastic generalized gradient methods in problems of the design of dynamical systems. (Russian. Russian summary) **93m:93038**
Zhang, Hong Cai (*with* Zhang, You Min; He, Zhi Bin) A robust self-adaptive extended Kalman filter and its application to flight state estimation. (Chinese. English and Chinese summaries)
Zhang, Jian Hua² (*with* Dai, Guan Zhong) Decentralized smoothing algorithms of continuous-time systems in distributed-sensor networks. (English summary)
Zhang, You Min *see* **Zhang, Hong Cai; et al.**
Zhao, Ping Ya (*with* Yu, Dao Rong) Spatially recursive algorithms for adaptive estimation of two-dimensional noncausal and nonstationary simultaneous autoregressive model parameters. (English summary) **93f:93123**

Items listed otherwise than by author

Adaptive systems in control and signal processing ★ Adaptive systems in control and signal processing. 1989. **93j:93007**
Foundations of adaptive control ★ Foundations of adaptive control. **93c:93004**
Glasgow ★ Adaptive systems in control and signal processing. 1989. **93j:93007**
IFAC Symposium:
Adaptive Systems in Control and Signal Processing ★ Adaptive systems in control and signal processing. 1989. **93j:93007**
Lecture Notes in Control and Information Sciences ★ Foundations of adaptive control. **93c:93004**
Lectures:
Grainger ★ Foundations of adaptive control. **93c:93004**
Urbana, IL ★ Foundations of adaptive control. **93c:93004**

93E99 None of the above, but in this section

Items with secondary classifications in 93E99

Brémaud, Pierre Maximal coupling and rare perturbation sensitivity analysis. (English summary) **93j:93039**

94–XX Information and communication, circuits

94–00 General reference works (handbooks, dictionaries, bibliographies, etc.)

Items with secondary classifications in 94–00

Su, Kendall L. ★ Handbook of tables for elliptic-function filters. **93c:65029**

94–01 Instructional exposition (textbooks, tutorial papers, etc.)

Cunningham, Edward P. ★ Digital filtering. **93g:94001**
Egorychev, G. P. (*with* Moiseenko, D. A.) Mixed discriminants in graph theory and electrical engineering. (Russian) (*see* **93b:00018**)
Goldie, Charles M. (*with* Pinch, Richard G. E.) ★ Communication theory. **93a:94001**
Hoffman, Dean G. (*with* Leonard, D. A.; Lindner, Charles C.; Phelps, Kevin T.; Rodger, Chris A.; Wall, J. R.) ★ Coding theory. **93d:94001**
Leonard, D. A. *see* **Hoffman, Dean G.; et al., 93d:94001**
Lindner, Charles C. *see* **Hoffman, Dean G.; et al., 93d:94001**
Moiseenko, D. A. *see* **Egorychev, G. P., (93b:00018)**
Phelps, Kevin T. *see* **Hoffman, Dean G.; et al., 93d:94001**
Pinch, Richard G. E. *see* **Goldie, Charles M., 93a:94001**
Rodger, Chris A. *see* **Hoffman, Dean G.; et al., 93d:94001**
Roman, Steven ★ Coding and information theory. **93d:94002**
Wall, J. R. *see* **Hoffman, Dean G.; et al., 93d:94001**

Items with secondary classifications in 94–01

Bruyère, Véronique Completion of codes. **93a:94026**
McGeoch, Catherine C. Data compression.
Pretzel, Oliver ★ Error-correcting codes and finite fields. **93j:94026**

94–02 Research exposition (monographs, survey articles)

Einarsson, G. (*with* Ericson, Thomas H. E.; Ingemarsson, I.; Johannesson, Rolf; Zigangirov, K. Sh.; Sundberg, C.-E.) ★ Topics in coding theory.
Ericson, Thomas H. E. *see* **Einarsson, G.; et al.**
Ingemarsson, I. *see* **Einarsson, G.; et al.**
Johannesson, Rolf *see* **Einarsson, G.; et al.**
Shen, Ba Zhong ★ Algebraic-geometric codes and their decoding algorithm. (English. Dutch summary) **93g:94002**
Sundberg, C.-E. *see* **Einarsson, G.; et al.**
(Zetterberg, Lars H.) *see* **Einarsson, G.; et al.**
Zigangirov, K. Sh. *see* **Einarsson, G.; et al.**

Items with secondary classifications in 94–02

Akansu, Ali N. (*with* Haddad, Richard A.) ★ Multiresolution signal decomposition. **93m:94004**
Barthélémy, Jean-Pierre (*with* Cohen, Gérard Denis; Lobstein, Antoine-C.) ★ Complexité algorithmique et problèmes de communications. (French) [Algorithmic complexity and communications problems] **93h:68046**
Cohen, Gérard Denis *see* **Barthélémy, Jean-Pierre; et al., 93h:68046**

Drane, C. R. ★ Positioning systems. **93k:94001**
Haddad, Richard A. *see* **Akansu, Ali N., 93m:94004**
Lachaud, Gilles Artin-Schreier curves, exponential sums, and coding theory. **93a:94032**
Lobstein, Antoine-C. *see* **Barthélémy, Jean-Pierre; et al., 93h:68046**
(Minoux, Michel) *see* **Barthélémy, Jean-Pierre; et al., 93h:68046**
Schols, Huub ★ Delay-insensitive communication. (English. English and Dutch summaries) **93h:94002**
Tsfasman, M. A. (*with* Vlăduţ, Sergei G.) ★ Algebraic-geometric codes. **93i:94023**
Vlăduţ, Sergei G. *see* **Tsfasman, M. A., 93i:94023**
Zemanian, Armen H. ★ Infinite electrical networks. **93b:94034**

94–03 Historical (must also be assigned at least one classification number from Section 01)

Items with secondary classifications in 94–03

Al-Kadi, Ibrahim A. Origins of cryptology: the Arab contributions. **93b:01010**
Barg, A. M. At the dawn of the theory of codes. **93m:01041**
Ceruzzi, Paul Electronics technology and computer science, 1940–1975: a coevolution. (English summary) **93m:01042**
Gruska, Jozef (*with* Jürgensen, Helmut) Maturing of informatics. (English summary) (*see* **93i:68008**)
Jürgensen, Helmut *see* **Gruska, Jozef, (93i:68008)**

94–06 Proceedings, conferences, collections, etc.

(Feigenbaum, Joan) *see* **Crypto '89, 93i:94001**

Items listed otherwise than by author

Algebraic theory of codes and combinatorics on words ★ Daisūteki kōdo riron oyobi go no kumiawaseron. (Japanese) [Algebraic theory of codes and combinatorics on words] **93g:94003**
Conference:
Theory and Applications of Cryptology ★ Crypto '89. **93i:94001**
Crypto '89 ★ Crypto '89. **93i:94001**
Santa Barbara, CA ★ Crypto '89. **93i:94001**
Symposium:
Algebraic Theory of Codes and Combinatorics on Words ★ Daisūteki kōdo riron oyobi go no kumiawaseron. (Japanese) [Algebraic theory of codes and combinatorics on words] **93g:94003**

Items with secondary classifications in 94–06

(Mullen, Gary L.) *see* **Finite fields, coding theory, and advances in communications and computing, 93g:11123**
(Shiue, Peter Jau-Shyong) *see* **Finite fields, coding theory, and advances in communications and computing, 93g:11123**

Items listed otherwise than by author

Conference:
Finite Fields, Coding Theory, and Advances in Communications and Computing ★ Finite fields, coding theory, and advances in communications and computing. **93g:11123**
Finite fields, coding theory, and advances in communications and computing ★ Finite fields, coding theory, and advances in communications and computing. **93g:11123**
Las Vegas, NV ★ Finite fields, coding theory, and advances in communications and computing. **93g:11123**

94Axx Communication, information

Items with secondary classifications in 94Axx

(Buchmann, Johannes) *see* **Computer science, 93d:68002**
(Ganzinger, Harald) *see* **Computer science, 93d:68002**
(Hotz, Günter) *see* **Computer science, 93d:68002**
(Paul, Wolfgang J.) *see* **Computer science, 93d:68002**

Items listed otherwise than by author

Birthday:
Hotz, Günther ★ Informatik. [Computer science] **93d:68002**
Computer science ★ Informatik. [Computer science] **93d:68002**
Festschrift:
Hotz, Günther ★ Informatik. [Computer science] **93d:68002**
Informatik ★ Informatik. [Computer science] **93d:68002**

94A05 Communication theory [see also 60G35, 90B12]

Alon, Noga Transmitting in the n-dimensional cube. (English summary) **93e:94001**
Bekir, Esmat C. A contribution to the unaliased discrete-time Wigner distribution. (English summary) **93j:94001**
Björner, Anders (*with* Karlander, Johan; Lindström, Bernt) Communication complexity of two decision problems. (English summary) **93f:94001**
Bucklew, James A. (*with* Sadowsky, John S.) A contribution to the theory of Chernoff bounds. (English summary) **93m:94001**
van Dijk, Nico M. A note on monotonicity results in multicasting. (English summary) **93e:94002**
Drane, C. R. ★ Positioning systems. **93k:94001**
Halstenberg, Bernd (*with* Reischuk, Rüdiger) Über den Nutzen von Orakelfragen bei nichtdeterministischen Kommunikationsprotokollen. (German summary) [On the use of oracle questions in nondeterministic communication protocols] (*see* **93d:68002**)
Ismailov, I. G. An algorithm for the problem of the optimization of communications systems. (Russian. Russian summary) (*see* **93m:93004**)
Karlander, Johan *see* **Björner, Anders; et al., 93f:94001**
Kerber, Dirk On the determination of the worst sampling error in a communication system for pulse-amplitude-modulated signals. I. The general model. (English summary) **93h:94001**
Kumar, P. Vijay (*with* Wei, Victor K.) Minimum distance of logarithmic and fractional partial m-sequences. (English summary) **93f:94002**
Kushilevitz, Eyal Privacy and communication complexity. **93b:94001**
Kuz'min, A. B. Properties of the characteristics of point estimates of random signals. (Russian. Russian summary)
Li, Gyun Y Inversion of Toeplitz matrices and the determination of impulse reactions of discrete electric transmission lines without loss. (Russian. Russian summary) **93g:94004**
Lindström, Bernt *see* **Björner, Anders; et al., 93f:94001**
Morita, Eiko *see* **Nishikawa, Kiyoshi[2]**
Neifel'd, A. A. *see* **Zotikov, B. D.**
Nishikawa, Kiyoshi[2] (*with* Morita, Eiko) Design of IIR fan filters using IIR Hilbert transformer. (English summary)
Purcaru, Ion Note sur la fidélité entropique d'un canal de communications. [Note on the entropic faithfulness of a communications channel]
Reischuk, Rüdiger *see* **Halstenberg, Bernd, (93d:68002)**
del Río, E. *see* **Rul'kov, N. F.; et al.**
Rodríguez-Lozano, A. *see* **Rul'kov, N. F.; et al.**
Rul'kov, N. F. (*with* Volkovskiĭ, A. R.; Rodríguez-Lozano, A.; del Río, E.; Velarde, Manuel G.) Mutual synchronization of chaotic self-oscillators with dissipative coupling. (English summary)
Sadowsky, John S. *see* **Bucklew, James A., 93m:94001**
Schols, Huub ★ Delay-insensitive communication. (English. English and Dutch summaries) **93h:94002**
Skubiszewski, Marcin Binary periodic synchronizing sequences. **93d:94003**
Velarde, Manuel G. *see* **Rul'kov, N. F.; et al.**
Volkovskiĭ, A. R. *see* **Rul'kov, N. F.; et al.**
Wei, Victor K. *see* **Kumar, P. Vijay, 93f:94002**
Zhang, Chuan Zhi An investigation on group communications. (Chinese. English and Chinese summaries)
Zotikov, B. D. (*with* Neifel'd, A. A.) Parametric synthesis of first-order stationary polynomial filters. (Russian. Russian summary)

Items with secondary classifications in 94A05

Abramovich, Yu. I. *see* **Arov, D. Z., 93j:94038**
Arov, D. Z. (*with* Abramovich, Yu. I.) Realization of arbitrary rational matrix-function as the transfer function of passive ladder filter. (English summary) **93j:94038**
(Bendjaballah, C.) *see* **Quantum aspects of optical communications, 93e:81158**
Boersma, J. Uniform asymptotics of a Bessel-function series occurring in a transmission-line problem. **93a:41057**
Borm, P. E. M. (*with* Owen, Guillermo; Tijs, Stef H.) On the position value for communication situations. **93e:90080**
Brandt, Andreas (*with* Sulanke, H.) A queueing network model for a communication system with channel allocation. (English summary) **93f:90069**
Burrus, C. S. *see* **Gopinath, R. A., 93a:94002**
Danzig, Peter B. A cooperative game with applications to computer networks. **93d:90076**
Goldie, Charles M. (*with* Pinch, Richard G. E.) ★ Communication theory. **93a:94001**
Gopinath, R. A. (*with* Burrus, C. S.) Wavelet transforms and filter banks. **93a:94002**
Hajela, D. J. On faster than Nyquist signaling: further estimations on the minimum distance. **93h:42001**
(Hirota, Osamu) *see* **Quantum aspects of optical communications, 93e:81158**
Jedwab, Jonathan Nonexistence results for Barker arrays. **93f:11021**
Kalyanasundaram, Bala (*with* Schnitger, Georg) Communication complexity and lower bounds for sequential computation. (English summary) **93m:68049**
Kuzin, V. S. Analytical solution of the probabilities of an optimization problem when there are rigid constraints. (Russian. Russian summary) **93d:90046**
Lazard, E. Broadcasting in DMA-bound bounded degree graphs. (English and French summaries) **93f:68019**
Mitomo, Hitoshi Heterogeneous subscribers and the optimal two-part tariff of telecommunications service. (English summary)
Monti, Carlo M. (*with* Viaro, Umberto) State observation and error detection analysis in finite automata for coding systems. (English summary)
Ohya, Masanori (*with* Suyari, Hiroki) Rigorous derivation of error probability in coherent optical communication. (English summary) **93i:81315**
Owen, Guillermo *see* **Borm, P. E. M.; et al., 93e:90080**
Papoulis, Athanasios Innovations and entropy rate with applications in factorization, spectral estimation, and prediction. (English summary) **93f:94008**
Pellaumail, J. Décomposition de M-matrice et buffer d'un multiplexeur ATM. (English summary) [M-matrix decomposition and buffer of an ATM multiplexor] **93c:65060**
Pinch, Richard G. E. *see* **Goldie, Charles M., 93a:94001**
(Reynaud, S.) *see* **Quantum aspects of optical communications, 93e:81158**
Schiffer, Marcelo Quantum limit for information transmission. **93d:81026**
Schnitger, Georg *see* **Kalyanasundaram, Bala, 93m:68049**
Sulanke, H. *see* **Brandt, Andreas, 93f:90069**
Suyari, Hiroki *see* **Ohya, Masanori, 93i:81315**
T'ang, Ch'uan I (*with* Yang, Chieh Jên) On the complexity of some radio network design problems. (English and Chinese summaries) **93f:68046**
Tijs, Stef H. *see* **Borm, P. E. M.; et al., 93e:90080**
Viaro, Umberto *see* **Monti, Carlo M.**
Watanabe, Noboru Efficiency of optical modulations with coherent state. (English summary) **93i:81317**
Yang, Chieh Jên *see* **T'ang, Ch'uan I, 93f:68046**
Zhang, Yi Cheng Complexity and $1/f$ noise. A phase space approach. (English summary)

Items listed otherwise than by author

Lecture Notes in Physics ★ Quantum aspects of optical communications. **93e:81158**
Paris ★ Quantum aspects of optical communications. **93e:81158**

Quantum aspects of optical communications ★ Quantum aspects of optical communications. **93e:81158**

Workshop:

Quantum Aspects of Optical Communications ★ Quantum aspects of optical communications. **93e:81158**

94A11 Application of orthogonal functions in communication

Ando, Shigeru *see* **Peng, Chen**

Burrus, C. S. *see* **Gopinath, R. A., 93a:94002**

Gopinath, R. A. (*with* Burrus, C. S.) Wavelet transforms and filter banks. **93a:94002**

Gröchenig, Karlheinz Sharp results on irregular sampling of bandlimited functions. (English summary) **93h:94003**

Hajela, D. J. On polynomials with low peak signal to power (L_∞ to L_2 norm) ratios and theorems of Kashin and Spencer. **93h:94004**

Heller, William Complex analysis and frames in sampling theory. (English summary) **93g:94005**

Hwang, Wen Liang *see* **Mallat, Stephane, 93h:94005**

Jones, William B. (*with* Njåstad, Olav; Waadeland, Haakon) Asymptotics for Szegő polynomial zeros. (English summary) **93m:94002**

Kida, Takuro (*with* Sa-nguankotchakorn, Somsak) A study of generating functions of sampling theorems and optimum interpolation functions minimizing some kinds of measures. (English summary) **93m:94003**

Kovačević, Jelena (*with* Vetterli, Martin) Nonseparable multidimensional perfect reconstruction filter banks and wavelet bases for $\mathcal{R}^n$. **93b:94002**

Mallat, Stephane (*with* Hwang, Wen Liang) Characterization of singularities. (English summary) **93h:94005**

Njåstad, Olav *see* **Jones, William B.; et al., 93m:94002**

Peng, Chen (*with* Ando, Shigeru) A theory of waveform analysis based on exponentiality and anti-exponentiality. (English summary)

Piessens, Robert *see* **Sweldens, Wim, 93g:94006**

Sa-nguankotchakorn, Somsak *see* **Kida, Takuro, 93m:94003**

Suetin, P. K. Approximate inversion of a discrete convolution operator in connection with radio engineering problems. (Russian) (*see* **93k:00021**)

Sweldens, Wim (*with* Piessens, Robert) Calculation of the wavelet decomposition using quadrature formulae. (English summary) **93g:94006**

Vetterli, Martin *see* **Kovačević, Jelena, 93b:94002**

Waadeland, Haakon *see* **Jones, William B.; et al., 93m:94002**

Walter, Gilbert G. Nonuniform sampling of bandlimited functions of polynomial growth. **93i:94002**

Items with secondary classifications in 94A11

Agayan, S. S. (*with* Bayadyan, G. L.; Gevorkyan, D. Z.) Problems in the stability of orthogonal series summation, and calculations of linear transforms. (Russian) **93k:65102**

Akansu, Ali N. (*with* Haddad, Richard A.) ★ Multiresolution signal decomposition. **93m:94004**

Bayadyan, G. L. *see* **Agayan, S. S.; et al., 93k:65102**

Benveniste, Albert *see* **Zhang, Qinghua, (93g:93006)**

Bracewell, Ronald N. ★ Преобразование Хартли. (Russian. Russian summary) [The Hartley transform] **93j:44001**

Bunch, James R. Matrix properties of the Levinson and Schur algorithms. (English summary) **93h:65040**

Cheng, Bing (*with* Kay, J. W.) Multiresolution reconstruction of a corrupted image using the wavelet transform. (English summary) (*see* **93k:62003**)

Cohen, Albert Biorthogonal wavelets. **93c:42032**

Cole, R. E. (*with* Goodrich, R. K.) L_p-spectral estimation with an L_∞-upper bound. (English summary) **93m:90101**

Cosma, D. *see* **Stanomir, D.; et al., 93b:94008**

Creutzburg, R. *see* **Tasche, M.; et al., 93b:11170**

Feauveau, Jean-Christophe Nonorthogonal multiresolution analysis using wavelets. **93h:42022**

Gevorkyan, D. Z. *see* **Agayan, S. S.; et al., 93k:65102**

Goodrich, R. K. *see* **Cole, R. E., 93m:90101**

Haddad, Richard A. *see* **Akansu, Ali N., 93m:94004**

Heijmans, Henk J. A. M. Discrete wavelets and multiresolution analysis. (English summary) **93g:42023**

Hwang, Wen Liang *see* **Mallat, Stephane, 93b:94007**

Istas, Jacques Wavelet coefficients of a Gaussian process and applications. (English and French summaries) **93k:60085**

Jerri, Abdul J. ★ Integral and discrete transforms with applications and error analysis. **93m:44001**

Kay, J. W. *see* **Cheng, Bing, (93k:62003)**

Mallat, Stephane (*with* Hwang, Wen Liang) Singularity detection and processing with wavelets. **93b:94007**

Mănescu, O. *see* **Stanomir, D.; et al., 93b:94008**

(Pankov, A. I.) *see* **Bracewell, Ronald N., 93j:44001**

(Ryzhak, I. S.) *see* **Bracewell, Ronald N., 93j:44001**

Stanomir, D. (*with* Mănescu, O.; Cosma, D.) Signal restoration by the use of the singular value analysis. II. An analytical solution. (Romanian summary) **93b:94008**

Steidl, G. *see* **Tasche, M.; et al., 93b:11170**

Tasche, M. (*with* Steidl, G.; Creutzburg, R.) Number-theoretic transforms and a theorem of Sylvester-Kronecker-Zsigmondy. **93b:11170**

Vaĭnerman, L. I. Signal processing and harmonic analysis of generalized shift operators. (English summary) (*see* **93g:93006**)

Zhang, Qinghua (*with* Benveniste, Albert) Approximation by wavelet networks. (English summary) (*see* **93g:93006**)

94A12 Signal theory (characterization, reconstruction, etc.)

Adve, R. S. *see* **Sarkar, T. K., (93e:00029)**

Akansu, Ali N. (*with* Haddad, Richard A.) ★ Multiresolution signal decomposition. **93m:94004**

Aldroubi, Akram (*with* Unser, Michael) Families of wavelet transforms in connection with Shannon's sampling theory and the Gabor transform. **93a:94003**

— *see also* **Unser, Michael, 93a:94011**

Arruda, J. R. F. Analysis of non-equally spaced data using a regressive discrete Fourier series.

Auger, François (*with* Doncarli, Christian) Quelques commentaires sur des représentations temps-fréquence proposées récemment. (English summary) [Some remarks about recently proposed time-frequency representations] **93a:94004**

Barton, Timothy A. (*with* Fuhrmann, Daniel R.) Covariance structures for multidimensional data. (English summary) **93i:94003**

Beaty, M. G. (*with* Dodson, M. M.) The distribution of sampling rates for signals with equally wide, equally spaced spectral bands. (English summary)

Benveniste, Albert Multiscale signal processing: from QMF to wavelets. **93b:94003**

— *see also* **Zhang, Qinghua, (93g:93006)**

Berenstein, Carlos A. An overview of the problem of deconvolution. (*see* **93m:32003**)

Bespalov, V. M. *see* **Ugol'kov, V. N.; et al., (93d:00029)**

Borovik, A. V. (*with* Paderin, E. V.) ★ Теоретико-групповой подход к синтезу систем дискретных частотных сигналов. (Russian. English and Russian summaries) [A group-theoretic approach to the synthesis of systems of discrete frequency signals] **93d:94004**

Brown, David P. Stability of n-order state space digital filters with integer arithmetic. (English summary) **93f:94003**

— n-order direct form digital filters with integer arithmetic. (English summary) **93m:94005**

Catté, Francine (*with* Lions, Pierre-Louis; Morel, Jean-Michel; Coll, Tomeu) Image selective smoothing and edge detection by nonlinear diffusion. **93a:94005**

Cohen, Albert Wavelets and digital signal processing. **93j:94002**

Coifman, Ronald R. (*with* Meyer, Yves F.; Wickerhauser, Mladen Victor) Adapted wave form analysis, wavelet-packets and applications. (*see* **93b:00026**)

— (*with* Meyer, Yves F.; Wickerhauser, Mladen Victor) Wavelet analysis and signal processing. (*see* **93e:00031**)

Coll, Tomeu *see* **Catté, Francine; et al., 93a:94005**

Coroyer, Christophe *see* **Le Roux, Joël; et al., 93j:94003**

Cosma, D. *see* **Stanomir, D.; et al., 93b:94008**

Cui, Yu Jun *see* **Guo-Li, Ao; et al.**

Deng, T. (*with* Kawamata, M.; Higuchi, Tatsuo) Design of two-dimensional recursive digital filters based on the optimal decomposition of magnitude specifications. (English summary) (*see* **93g:93006**)

Dodson, M. M. *see* **Beaty, M. G.**

Doncarli, Christian *see* **Auger, François, 93a:94004**

Dougherty, Edward R. *see* **Mathew, A. V.; et al.**

Dragan, Ya. P. Covariance analysis of equidistant sampling of functions and of harmonizable random processes with a finite spectrum. (Russian) **93e:94003**

Dzyubenko, K. G. (*with* Erokhin, V. F.) Comparison of various methods for estimating the components of a group discrete parameter. (Russian. Russian summary) (*see* **93e:60008**)

Elliott, Robert James New finite-dimensional filters and smoothers for noisily observed Markov chains. (English summary) **93m:94006**

Ephraim, Yariv (*with* Merhav, Neri) Lower and upper bounds on the minimum mean-square error in composite source signal estimation. (English summary) **93m:94007**

Erokhin, V. F. *see* **Dzyubenko, K. G., (93e:60008)**

Feauveau, Jean-Christophe Wavelets for the quincunx pyramid. (*see* **93e:00031**)

Feichtinger, Hans G. (*with* Gröchenig, Karlheinz) Iterative reconstruction of multivariate band-limited functions from irregular sampling values. **93a:94006**

de Figueiredo, Rui J. P. *see* **Yu, Yao Qi, 93m:94009**

Fuhrmann, Daniel R. *see* **Barton, Timothy A., 93i:94003**

Fukunaga, Kunio *see* **Guo-Li, Ao; et al.**

Gilbert, Edgar N. (*with* Kadota, T. T.) The Lempel-Ziv algorithm and message complexity. (English summary)

Goggin, Eimear M. Convergence of filters with applications to the Kalman-Bucy case. **93b:94004**

Golomb, Solomon W. The T_4 and G_4 constructions for Costas arrays. **93b:94005**

Gröchenig, Karlheinz *see* **Feichtinger, Hans G., 93a:94006**

Grue, Klaus E. The importance of cardinality, separability, and compactness in computer science with an example from numerical signal analysis. (*see* **93h:68004**)

Guo, Tong Yi *see* **Huang, Ch'i; et al., 93m:94008**

Guo-Li, Ao (*with* Cui, Yu Jun; Izumi, Masao; Fukunaga, Kunio) Structural representation of the outline and its application. (English summary)

Haddad, Richard A. *see* **Akansu, Ali N., 93m:94004**

Halpern, P. H. (*with* Mohapatra, Ram Narayan; O'Hara, P. J.; Rodriguez, R. S.) An extremal problem concerning finite dimensional subspaces of $C[a, b]$ pertinent in signal theory.

Higgins, J. R. Sampling and aliasing for functions band-limited to a thin shell. **93a:94007**

Higuchi, Tatsuo *see* **Deng, T.; et al., (93g:93006)**

Huang, Ch'i (*with* Guo, Tong Yi; Shieh, Leang San) A lattice realization for 2-D separable-denominator digital filters. (English summary) **93m:94008**

Hwang, Wen Liang *see* **Mallat, Stephane, 93b:94007**

Iverson, Geoffrey J. (*with* Sheu, Ching Fan) Characterizing random variables in the context of signal detection theory. **93b:94006**

Izumi, Masao *see* **Guo-Li, Ao; et al.**

Jumarie, Guy Applications of entropy of patterns and forms to signal processing. (English summary) (*see* **93j:93007**)

Kadota, T. T. *see* **Gilbert, Edgar N.**

Kaiser, Gerald An algebraic theory of wavelets. I. Operational calculus and complex structure. **93a:94008**

Kawamata, M. *see* **Deng, T.; et al., (93g:93006)**

Kerber, Dirk On the determination of the worst sampling error in a communication system for pulse amplitude modulated signals. II. The finite-dimensional model. **93a:94009**

Kida, Takuro (*with* Mochizuki, Hiroshi) Study of the superiority of generalized linear interpolation approximation. **93a:94010**

Lempel, Abraham *see* **Weinberger, Marcelo J.; et al., 93a:94012**

Le Roux, Joël (*with* Coroyer, Christophe; Rossille, Delphine) Bispectral analysis and reconstruction in the frequency domain of mono- and bidimensional deterministic sampled signals. (English summary) **93j:94003**
Lions, Pierre-Louis *see* **Catté, Francine; et al., 93a:94005**
Lucier, Bradley J. Wavelets and image compression. (*see* **93d:65022**)
Mallat, Stephane (*with* Zhong, Sifen) Wavelet transform maxima and multiscale edges. (*see* **93e:00031**)
— (*with* Hwang, Wen Liang) Singularity detection and processing with wavelets. **93b:94007**
Mănescu, O. *see* **Stanomir, D.; et al., 93b:94008**
Mathew, A. V. (*with* Dougherty, Edward R.; Swarnakar, V.) Efficient derivation of the optimal mean-square binary morphological filter from the conditional expectation via a switching algorithm for discrete power-set lattice. (English summary)
Merhav, Neri *see* **Ephraim, Yariv, 93m:94007**
Meyer, Yves F. *see* **Coifman, Ronald R.; et al., (93b:00026)** *and* **(93e:00031)**
Mochizuki, Hiroshi *see* **Kida, Takuro, 93a:94010**
Mohapatra, Ram Narayan *see* **Halpern, P. H.; et al.**
Morel, Jean-Michel *see* **Catté, Francine; et al., 93a:94005**
Morgera, Salvatore D. The role of abstract algebra in structured estimation theory. **93c:94001**
Moroz, Irene M. Bifurcations in a class of complex differential equations. (English summary) **93d:94005**
Nakamori, Seiichi Estimations of signal and parameters using covariance information in linear continuous systems. (English summary) **93f:94004**
Nebylov, A. V. (*with* Trofimov, Yu. V.) Differentiation of a signal with bounded variances of the derivatives in the noise. (Russian. Russian summary)
Ogorzałek, Maciej J. Complex behavior in digital filters. **93f:94005**
O'Hara, P. J. *see* **Halpern, P. H.; et al.**
Paderin, E. V. *see* **Borovik, A. V., 93d:94004**
Rabinovitch, A. (*with* Thieberger, R.) Analysis of noisy signals. (English summary) **93h:94006**
Rodriguez, R. S. *see* **Halpern, P. H.; et al.**
Rossille, Delphine *see* **Le Roux, Joël; et al., 93j:94003**
Sarkar, T. K. (*with* Adve, R. S.) Generation of accurate broadband information from narrowband data using the Cauchy method. (English summary) (*see* **93e:00029**)
Sheu, Ching Fan *see* **Iverson, Geoffrey J., 93b:94006**
Shieh, Leang San *see* **Huang, Ch'i; et al., 93m:94008**
Stanomir, D. (*with* Mănescu, O.; Cosma, D.) Signal restoration by the use of the singular value analysis. II. An analytical solution. (Romanian summary) **93b:94008**
Swarnakar, V. *see* **Mathew, A. V.; et al.**
Tarasov, R. P. Computation of functions in the algebra of formal polynomials and algorithms for the digital processing of multidimensional signals. (Russian. Russian summary) **93j:94004**
Tchamitchian, Ph. (*with* Torrésani, Bruno) Ridge and skeleton extraction from the wavelet transform. (*see* **93e:00031**)
Thieberger, R. *see* **Rabinovitch, A., 93h:94006**
Torrésani, Bruno Time-frequency representations: wavelet packets and optimal decomposition. (French summary) **93e:94004**
— *see also* **Tchamitchian, Ph., (93e:00031)**
Trofimov, Yu. V. *see* **Nebylov, A. V.**
Tsitsiashvili, G. Sh. *see* **Ugol'kov, V. N.; et al., (93d:00029)**
Ugol'kov, V. N. (*with* Bespalov, V. M.; Tsitsiashvili, G. Sh.) Estimation of the parameters of a signal against a random noise background on the basis of observations at discrete times. (Russian. Russian summary) (*see* **93d:00029**)
Umegaki, Hisaharu A spectral property of one-parameter family of sampling functions—from signal analysis to functional analysis. **93d:94006**
Unser, Michael (*with* Aldroubi, Akram) Polynomial splines and wavelets—a signal processing perspective. **93a:94011**
— *see also* **Aldroubi, Akram, 93a:94003**
Vainerman, L. I. Signal processing and harmonic analysis of generalized shift operators. (English summary) (*see* **93g:93006**)
Vetterli, Martin Wavelets and filter banks for discrete-time signal processing. (*see* **93e:00031**)
Weinberger, Marcelo J. (*with* Ziv, Jacob; Lempel, Abraham) On the optimal asymptotic performance of universal ordering and of discrimination of individual sequences. **93a:94012**
Wickerhauser, Mladen Victor *see* **Coifman, Ronald R.; et al., (93b:00026)** *and* **(93e:00031)**
Yatsenko, L. V. On a problem of parametric optimization of a function series. (Russian) **93c:94002**
Yu, Yao Qi (*with* de Figueiredo, Rui J. P.) Convergence of the calculation of the innovation process. (English summary) **93m:94009**
Zakharova, T. G. Calculation of the Fourier transform in fields of characteristic 2. (Russian. Russian summary) **93h:94007**
Zelinskiĭ, D. I. On the reliability of signal distinction by a multichannel frequency-time code receiver. (Russian. Russian summary)
Zhang, Qinghua (*with* Benveniste, Albert) Approximation by wavelet networks. (English summary) (*see* **93g:93006**)
Zhong, Sifen *see* **Mallat, Stephane, (93e:00031)**
Ziv, Jacob *see* **Weinberger, Marcelo J.; et al., 93a:94012**

Items with secondary classifications in 94A12

Andonie, Răzvan (*with* Carai, Eugen) Gaussian smoothing by optimal iterated uniform convolutions. (English summary) **93h:68140**
Aved'yan, È. D. *see* **Tsypkin, Ya. Z., (93j:93007)**
Bajpai, S. D. Some results involving Laguerre polynomial, confluent hypergeometric function and Meijer's *G*-function. **93d:33010**
Balashov, L. A. (*with* Dreĭzin, Yu. A.; Mel'nikov, M. S.) Approximation of exponential functions and the relative proximity of stable signals. (Russian) **93a:41070**
Basu, Sankar (*with* Fontaine, Fred L.) Formal power series representation of lossless distributed multiports in terms of Padé approximants. **93c:94012**
Benedetto, John J. Irregular sampling and frames. **93c:42030**
Bertrand, Jacqueline (*with* Bertrand, Pierre) A class of affine Wigner functions with extended covariance properties. **93k:81126a**
— (*with* Bertrand, Pierre) Erratum: "A class of affine Wigner functions with extended covariance properties". **93k:81126b**
Bertrand, Pierre *see* **Bertrand, Jacqueline, 93k:81126a** *and* **93k:81126b**
(Beylkin, Gregory) *see* **Wavelets and their applications, 93e:00031**
Carai, Eugen *see* **Andonie, Răzvan, 93h:68140**
Chapman, C. J. Time-domain asymptotics and the method of stationary phase. (English summary) **93e:49054**
Chui, Charles K. Wavelets—with emphasis on spline-wavelets and applications to signal analysis. **93e:41016**
Cohen, Albert Biorthogonal wavelets. **93c:42032**
— (*with* Daubechies, Ingrid; Feauveau, Jean-Christophe) Biorthogonal bases of compactly supported wavelets. **93e:42044**
(Coifman, Ronald R.) *see* **Wavelets and their applications, 93e:00031**
Cole, R. E. (*with* Goodrich, R. K.) L_p-spectral estimation with an L_∞-upper bound. (English summary) **93m:90101**
Daubechies, Ingrid ★ Ten lectures on wavelets. **93e:42045**
— *see also* **Cohen, Albert; et al., 93e:42044**
Dinh Dung (*with* Dryanov, Dimiter P.) The minimal number of sample values for recovery of nonbandlimited functions. **93c:41035**
— The sampling theorem, L_q^T-approximation and ε-dimension. **93e:41028**
Donoho, David L. (*with* Logan, B. F.) Signal recovery and the large sieve. **93d:42003**
— Superresolution via sparsity constraints. (English summary) **93f:42023**
Dreĭzin, Yu. A. *see* **Balashov, L. A.; et al., 93a:41070**
Dryanov, Dimiter P. *see* **Dinh Dung, 93c:41035**
Du, Xi Yu *see* **Wang, Li Zhi; et al., 93d:93084**
(Durrani, T. S.) *see* **Adaptive systems in control and signal processing, 93j:93007**
Elliott, Robert James Finite-dimensional filters related to Markov chains. (English summary) **93m:93089**
Feauveau, Jean-Christophe *see* **Cohen, Albert; et al., 93e:42044**
Fontaine, Fred L. *see* **Basu, Sankar, 93c:94012**
Goodrich, R. K. *see* **Cole, R. E., 93m:90101**
Gorbunov, A. K. (*with* Pinsker, M. S.) Asymptotics of epsilon entropy without anticipation of Gaussian processes. (Russian) **93a:94014**
Gorshkov, A. S. (*with* Kravchenko, V. F.; Rvachëv, V. A.; Rvachëv, V. L.) On a number-theoretic method for the fast Fourier transform in the Fermat ring. (Russian) **93g:65171**
Granville, V. (*with* Rasson, J.-P.) A Bayesian filter for a mixture model of noise in image remote sensing. (English summary)
(Grimble, M. J.) *see* **Adaptive systems in control and signal processing, 93j:93007**
Gröchenig, Karlheinz Reconstruction algorithms in irregular sampling. **93a:41025**
Hwang, Wen Liang *see* **Mallat, Stephane, 93h:94005**
Jedwab, Jonathan Nonexistence results for Barker arrays. **93f:11021**
(Johnson, Michael A.) *see* **Adaptive systems in control and signal processing, 93j:93007**
Kaiser, Gerald (*with* Streater, Raymond F.) Windowed Radon transforms, analytic signals, and the wave equation. **93g:44008**
Kárný, Miroslav *see* **Nagy, Ivan, 93k:93111**
(Kimura, Hidenori) *see* **Recent advances in mathematical theory of systems, control, networks and signal processing, 93g:93006**
(Kodama, Shinzo) *see* **Recent advances in mathematical theory of systems, control, networks and signal processing, 93g:93006**
Kovačević, Jelena (*with* Vetterli, Martin) Nonseparable multidimensional perfect reconstruction filter banks and wavelet bases for $\mathcal{R}^n$. **93b:94002**
Kravchenko, V. F. *see* **Gorshkov, A. S.; et al., 93g:65171**
Leonov, V. A. (*with* Poplavskiĭ, B. K.) Filtering of measurement errors in the estimation of a linear transformation of a useful signal. (Russian. Russian summary) **93j:93145**
Lindquist, Anders (*with* Picci, Giorgio) A geometric approach to modelling and estimation of linear stochastic systems. **93a:93103**
Logan, B. F. *see* **Donoho, David L., 93d:42003**
Mallat, Stephane (*with* Hwang, Wen Liang) Characterization of singularities. (English summary) **93h:94005**
Mel'nikov, M. S. *see* **Balashov, L. A.; et al., 93a:41070**
Nagy, Ivan (*with* Kárný, Miroslav) A view on filtering of continuous data signals. (English summary) **93k:93111**
Nagy, James G. (*with* Plemmons, Robert J.) A fast algorithm for linear prediction. (English summary) (*see* **93g:93006**)
(Owens, David H.) *see* **Adaptive systems in control and signal processing, 93j:93007**
Picci, Giorgio *see* **Lindquist, Anders, 93a:93103**
Pinsker, M. S. *see* **Gorbunov, A. K., 93a:94014**
Plemmons, Robert J. *see* **Nagy, James G., (93g:93006)**
Poplavskiĭ, B. K. *see* **Leonov, V. A., 93j:93145**
Rasson, J.-P. *see* **Granville, V.**
Rioul, Olivier Simple regularity criteria for subdivision schemes. (English summary) **93k:39008**
(Ruskai, Mary Beth) *see* **Wavelets and their applications, 93e:00031**
Rvachëv, V. A. *see* **Gorshkov, A. S.; et al., 93g:65171**
Rvachëv, V. L. *see* **Gorshkov, A. S.; et al., 93g:65171**
Sinha, Naresh K. ★ Linear systems. **93d:93001**
Streater, Raymond F. *see* **Kaiser, Gerald, 93g:44008**
Subba Rao, T. *see* **Yuan, J., 93k:62198**
Tsypkin, Ya. Z. (*with* Aved'yan, È. D.) Optimal off-line signal processing. (English summary) (*see* **93j:93007**)
Vetterli, Martin *see* **Kovačević, Jelena, 93b:94002**
Volgin, L. I. ★ Математические структуры скалярных операторов. Свойства и законы, номенклатура воспроизводимых операций. (Russian) [Mathematical structures of scalar operators. Properties and laws, list of reproducible operations] **93f:03045**
Wang, Li Zhi (*with* Du, Xi Yu; Xia, Fei) Nonessential singularities of the second kind and stability for multidimensional digital filters. (English summary) **93d:93084**
Wellstead, P. E. Self-adaptive algorithms for two-dimensional signal sources. (English summary) (*see* **93j:93007**)

Xia, Fei *see* **Wang, Li Zhi; et al., 93d:93084**
Yuan, J. (*with* Subba Rao, T.) Higher order spectral estimation for random fields. (English summary) **93k:62198**
Yukhno, P. M. Space-trajectory filtering in correlation-extremal systems. (Russian. Russian summary) **93h:93081**
Zayed, Ahmed I. Kramer's sampling theorem for multidimensional signals and its relationship with Lagrange-type interpolations. (English summary) **93h:41008**

Items listed otherwise than by author

Adaptive systems in control and signal processing ★ Adaptive systems in control and signal processing. 1989. **93j:93007**
Glasgow ★ Adaptive systems in control and signal processing. 1989. **93j:93007**
IFAC Symposium:
Adaptive Systems in Control and Signal Processing ★ Adaptive systems in control and signal processing. 1989. **93j:93007**
Kobe ★ Recent advances in mathematical theory of systems, control, networks and signal processing. II. **93g:93006**
Recent advances in mathematical theory of systems, control, networks and signal processing ★ Recent advances in mathematical theory of systems, control, networks and signal processing. II. **93g:93006**
Symposium:
Mathematical Theory of Networks and Systems ★ Recent advances in mathematical theory of systems, control, networks and signal processing. II. **93g:93006**
Wavelets and their applications ★ Wavelets and their applications. **93e:00031**

94A13 Detection theory

Byrne, Charles L. Effects of modal phase errors on eigenvector and nonlinear methods for source localization in matched-field processing. (English summary)
Cadzow, James A. Direction finding: a signal subspace approach. (English summary)
Galkin, V. Ya. (*with* Karpenko, V. A.; Pliskin, S. Yu.) The accuracy of spectral estimates in problems of the identification of signals of a certain class. (Russian. Russian summary) (*see* **93f:00006**)
Ivanova, I. A. *see* **Tartakovskii, A. G., 93d:94007**
Karpenko, V. A. *see* **Galkin, V. Ya.; et al.,** (**93f:00006**)
Okello, Nickens N. *see* **Thomopoulos, Stelios C. A.**
Papamarcou, Adrian *see* **Shalaby, Hossam M. H., 93a:94013**
Pliskin, S. Yu. *see* **Galkin, V. Ya.; et al.,** (**93f:00006**)
Shalaby, Hossam M. H. (*with* Papamarcou, Adrian) Multiterminal detection with zero-rate data compression. **93a:94013**
Stensby, John Lock detection in phase-locked loops. (English summary) **93f:94006**
Tartakovskii, A. G. (*with* Ivanova, I. A.) Comparison of some sequential rules for detecting a change point. (Russian. Russian summary) **93d:94007**
Thomopoulos, Stelios C. A. (*with* Okello, Nickens N.) Distributed detection with consulting sensors and communication cost. (English summary)

Items with secondary classifications in 94A13

Al-Bassam, Sulaiman (*with* Venkatesan, R.; Bose, Bella) Codes for detecting and correcting propagation errors. **93b:94029**
Bose, Bella *see* **Al-Bassam, Sulaiman; et al., 93b:94029**
(Hashemi, H. R.) *see* **Veeravalli, Venugopal V., 93c:62018**
(Rhodes, Ian B.) *see* **Veeravalli, Venugopal V., 93c:62018**
Veeravalli, Venugopal V. Comments on: "Decentralized sequential detection" [IEEE Trans. Inform. Theory **35** (1989), no. 3, 509–520; MR 90i:62016] by H. R. Hashemi and I. B. Rhodes. **93c:62018**
Venkatesan, R. *see* **Al-Bassam, Sulaiman; et al., 93b:94029**

94A14 Modulation and demodulation

Aniya, Mitsuru *see* **Ogiwara, Haruo**
Bosov, A. A. Construction of a smoothing operator. (Russian)
Godara, Lal C. Beamforming in the presence of broadband correlated arrivals. (English summary)
Koski, Timo Nonlinear autoregression in the theory of signal compression. **93b:94009**
Ogiwara, Haruo (*with* Aniya, Mitsuru) Adaptive equalization and trellis-coded modulation for selective fading channel. (English summary)
Zhang, Wen Long Several fixed length RLL codes decodable by sliding blocks. (Chinese. English and Chinese summaries)

94A15 Information theory, general [see also 62B10]

Awad, Adnan M. On the Fisher information. (English summary) **93m:94010**
Bui Van Thanh Semi-continuous arbitrarily varying channels with general state constraints. **93h:94008**
Jumarie, Guy From entropy of fuzzy sets to fuzzy sets of entropies: a critical review and new results. **93j:94005**
Kapur, J. N. Burg's and Shannon's measures of entropy as limiting cases of two families of measures of entropy. **93b:94010**
Khan, Mohammad Zubair *see* **Saud, Ibne**
Olman, V. N. Optimal quantization of one-dimensional distributions with convex losses. (Russian. Russian summary) **93j:94006**
Purcaru, Ion Mesures généralisées de l'information. (French summary) [Generalized information measures]
Saud, Ibne (*with* Khan, Mohammad Zubair) Axiomatic characterization of a generalized information improvement. (English summary)
Shi, Kai Quan (*with* Wang, Zi Liang) Information grey set $X\{\otimes_i\}$ and its grey information characteristics. (English summary)
Tan, Choon Peng On some error bounds in information theory. (*see* **93b:00022**)
Wang, Zi Liang *see* **Shi, Kai Quan**

Items with secondary classifications in 94A15

Csiszár, Imre Why least squares and maximum entropy? An axiomatic approach to inference for linear inverse problems. **93c:62009**
Deng, Ju Long The forming relation $\mathbb{C}$ in grey system theory. (English summary)
— The unit of information representation in grey system theory. (English summary)
— Grey units. (English summary)
— Grey causality and information cover. (English summary)
Gil, María Angeles (*with* Gil Álvarez, Pedro Ángel) Fuzziness in the experimental outcomes: comparing experiments and removing the loss of information. **93e:62016**
Gil Álvarez, Pedro Ángel *see* **Gil, María Angeles, 93e:62016**
Goldie, Charles M. (*with* Pinch, Richard G. E.) ★ Communication theory. **93a:94001**
de Guzman, Adolfo M. An information-theoretic proof of Hadamard's inequality. **93b:26030**
Hirata, Hironori Modelling of flow networks using information coding: an application to ecological systems. (English summary) (*see* **93e:90003**)
Kabatyanskii, G. A. Order statistics and a problem of the time of transmission of messages along a network with packet switching. (Russian) (*see* **93b:60003**)
Kapur, J. N. *see* **Tripathi, G. P., 93g:26033**
Kowalczyk, Adam On rough models of history records. (*see* **93a:41001**)
Levitin, Lev B. Physical information theory for 30 years: basic concepts and results. (*see* **93e:81158**)
Menéndez, Maria L. *see* **Pardo, Leandro, 93e:62017**
Ohya, Masanori Information dynamics and its applications to optical communication processes. (English summary) (*see* **93e:81158**)
Pardo, Leandro (*with* Menéndez, Maria L.) Informational energy in the sequential design of experiments in a Bayesian context. **93e:62017**
Pinch, Richard G. E. *see* **Goldie, Charles M., 93a:94001**
Roman, Steven ★ Coding and information theory. **93d:94002**
Shi, Kai Quan (*with* Song, Zhong Min) Information grey element $\otimes_i$ and information grey set $X\{\otimes\}$. (English summary)
Song, Zhong Min *see* **Shi, Kai Quan**
Tripathi, G. P. (*with* Kapur, J. N.) Information-theoretic proofs of some inequalities. **93g:26033**
Wigderson, Avi Information-theoretic reasons for computational difficulty. **93m:68059**
Wood, Julian Harvey Is every compact code Huffman? **93j:94011**

94A17 Measures of information, entropy

Akashi, Shigeo A relation between Kolmogorov-Prokhorov's condition and Ohya's fractal dimensions. (English summary) **93e:94005**
Behara, M. (*with* Dudek, Zbigniew) On paraconcave entropy functions. **93f:94007**
Bhandari, Dinabandhu (*with* Pal, Nikhil R.) Some new information measures for fuzzy sets. (English summary) **93k:94002**
Bhatia, P. K. (*with* Taneja, H. C.) On quantitative-qualitative measure of inaccuracy and reversible symmetry. (English summary) **93j:94007**
Chakrabarti, C. G. (*with* Das, N. C.) Repeatable experiment and maximum-entropy principle. (English summary)
Chaudhary, Shobha *see* **Tuteja, R. K., 93f:94009**
Das, N. C. *see* **Chakrabarti, C. G.**
Dudek, Zbigniew *see* **Behara, M., 93f:94007**
Feng, Gui Yan Entropy and component properties of mixed traffic. (Chinese. English and Chinese summaries)
Gorbunov, A. K. (*with* Pinsker, M. S.) Asymptotics of epsilon entropy without anticipation of Gaussian processes. (Russian) **93a:94014**
Jumarie, Guy Quantum entropies of nonprobabilistic matrices. **93a:94015**
— Further results on the application of entropies of deterministic functions to information of fuzzy sets and related topics. **93b:94011**
— A (new) measure of fuzzy uncertainty via interval analysis, which is fully consistent with Shannon theory. **93a:94016**
— A new framework for systems analysis via geometrical entropy on path space. (English summary) **93j:94008**
— An approach to the entropy of (A or B) via maximization of conditional entropy. (English summary) **93j:94009**
Kapur, J. N. (*with* Kesavan, H. K.) ★ Entropy optimization principles with applications. **93k:94003**
Katětov, Miroslav On entropy-like functionals and codes for metrized probability spaces. II. **93i:94004**
Kaur, Man Mohan *see* **Nath, Prem, 93a:94018**
Kawabata, Tsutomu (*with* Yeung, Raymond W.) The structure of the I-measure of a Markov chain. **93a:94017**
Kawaguchi, Tomoaki *see* **Yamada, Masashi; et al.,** (**93d:53003**)
Kesavan, H. K. *see* **Kapur, J. N., 93k:94003**
Koski, Timo (*with* Persson, Lars-Erik) Some properties of generalized exponential entropies with applications to data compression. **93d:94008**
Luo, Liao Fu Second entropy and complexity. (English and Chinese summaries)
Menéndez, Maria L. (*with* Pardo Llorente, Julio Ángel; Pardo, Leandro) Some statistical applications of generalized Jensen difference divergence measures for fuzzy information systems. (English summary)
— *see also* **Taneja, Inder Jeet; et al., 93d:94010a** *and* **93d:94010b**
Mihoc, Ion On the measures of information of order α associated with some probability distributions. (Romanian summary) **93m:94011**
Miyata, Manabu *see* **Yamada, Masashi; et al.,** (**93d:53003**)
Nath, Prem (*with* Kaur, Man Mohan) Quasicyclic symmetry and the Shannon entropy. **93a:94018**
Ohya, Masanori Fractal dimensions of states. **93h:94009**
Ornstein, Donald Samuel (*with* Weiss, Benjamin) Entropy and data compression schemes. (English summary) **93m:94012**
Padet, Colette Information observation theory: an extension to two continuous sets of events. **93k:94004**

Pal, Nikhil R. (*with* Pal, Sankar Kumar) Entropy: a new definition and its applications. (English summary) **93i:94005**
— (*with* Pal, Sankar Kumar) Some properties of the exponential entropy. (English summary) **93k:94005**
— *see also* **Bhandari, Dinabandhu**, **93k:94002**
Pal, Sankar Kumar *see* **Pal, Nikhil R.**, **93i:94005** *and* **93k:94005**
Papoulis, Athanasios Innovations and entropy rate with applications in factorization, spectral estimation, and prediction. (English summary) **93f:94008**
Pardo, Leandro *see* **Taneja, Inder Jeet; et al.**, **93d:94010a**; **93d:94010b** *and* **Menéndez, Maria L.; et al.**
Pardo Llorente, Julio Ángel *see* **Menéndez, Maria L.; et al.**
Persson, Lars-Erik *see* **Koski, Timo**, **93d:94008**
Pinsker, M. S. *see* **Gorbunov, A. K.**, **93a:94014**
Purcaru, Ion Measures of the entropic fidelity of a communication channel. (French and Russian summaries) **93b:94012**
— Note sur l'entropie d'une distribution continue. [Note on the entropy of a continuous distribution] **93d:94009**
Săcuiu, I. The Onicescu informational energy in the continuous case.
Sanwaria, H. N. A generalized entropy of order α_j and type β_t for a discrete probability distribution. (English summary) **93h:94010**
— Some important conclusions on the generalised entropy $H_{s,R}^{a_1,\cdots,a_m;\beta}(P)$. (Hindi. English and Hindi summaries)
Singh, Ram Pal² (*with* Taneja, P.) On unified (r,s)-weighted information measures. (English summary) **93m:94013**
Taneja, H. C. *see* **Bhatia, P. K.**, **93j:94007**
Taneja, Inder Jeet (*with* Pardo, Leandro; Menéndez, Maria L.) On unified (r,s) J-divergence measures. **93d:94010b**
— (*with* Pardo, Leandro; Menéndez, Maria L.) Some inequalities among generalized divergence measures. **93d:94010a**
Taneja, P. *see* **Singh, Ram Pal²**, **93m:94013**
Tuteja, R. K. (*with* Chaudhary, Shobha) Order α-β weighted information energy. (English summary) **93f:94009**
Weiss, Benjamin *see* **Ornstein, Donald Samuel**, **93m:94012**
Wu, Min Jin General entropy and asymptotic calculation of the sampled entropy difference. (Chinese. English and Chinese summaries)
Yamada, Masashi (*with* Miyata, Manabu; Kawaguchi, Tomoaki) On a Riemannian approach to some relative entropies and statistical divergences. (*see* **93d:53003**)
Yeung, Raymond W. *see* **Kawabata, Tsutomu**, **93a:94017**
Zhang, Yi Cheng Complexity and $1/f$ noise. A phase space approach. (English summary)

Items with secondary classifications in 94A17

Adler, Roy L. The torus and the disk. (English summary) **93j:54028**
Akashi, Shigeo The asymptotic behavior of quantum ε-entropy. **93h:81035**
Barron, Andrew R. (*with* Györfi, László; van der Meulen, Edward C.) Distribution estimation consistent in total variation and in two types of information divergence. (English summary) **93h:62067**
Donoho, David L. (*with* Johnstone, Iain M.; Hoch, Jeffrey C.; Stern, Alan S.) Maximum entropy and the nearly black object. **93d:62010**
Dumitrescu, D. Entropy of a fuzzy process. (English summary)
Ebeling, Werner On the relation between the entropy concepts of Clausius, Boltzmann, Gibbs, Shannon and Kolmogorov. **93c:82003**
Ebrahimi, Nader Information theory and the failure time of a system. (English summary) **93k:62010**
Frieden, B. Roy Fisher information and uncertainty complementarity. (English summary) **93k:81022**
Golubev, G. K. Nonparametric estimation of smooth densities of a distribution in L_2. (Russian) **93f:62052**
Györfi, László *see* **Barron, Andrew R.; et al.**, **93h:62067**
Hoch, Jeffrey C. *see* **Donoho, David L.; et al.**, **93d:62010**
Johnstone, Iain M. *see* **Donoho, David L.; et al.**, **93d:62010**
Kapur, J. N. Dual problems arising from entropy optimisation principles. **93a:49022**
— Application of generalised maximum-entropy principle to population dynamics, innovation diffusion models and chemical reactions. (English summary) **93k:92008**
— *see also* **Tripathi, G. P.**, **93g:26033**
Madjid, F. Hadi (*with* Myers, John M.) Linkages between the calculable and the incalculable in quantum theory. (English summary) **93k:81026**
Mariz, Ananias M. On the irreversible nature of the Tsallis and Rényi entropies. **93d:58088**
van der Meulen, Edward C. *see* **Barron, Andrew R.; et al.**, **93h:62067**
Mielniczuk, Jan Grade estimation of Kullback-Leibler information number. (English summary). **93m:62079**
Minamide, Nariyasu (*with* Nikiforuk, Peter N.) Conditional entropy theorem for recursive parameter estimation and its application to state estimation problems. (English summary) **93k:93107**
Myers, John M. *see* **Madjid, F. Hadi**, **93k:81026**
Nikiforuk, Peter N. *see* **Minamide, Nariyasu**, **93k:93107**
Persson, Lars-Erik Generalizations of some classical inequalities and their applications. **93b:46067**
Quesada, Vicente (*with* Taneja, Inder Jeet) Order preserving property of unified (r,s)-information measures. (English summary) **93j:62012**
Shen, Shi Yi *see* **Yang, En Hui**, **93e:68040**
Slepokurov, A. A. Characteristics of robust rules for testing two-alternative hypotheses. (Russian. Russian summary) **93k:62076**
Steinberg, Y. (*with* Zeitouni, Ofer) On tests for normality. (English summary) **93k:62197**
Stern, Alan S. *see* **Donoho, David L.; et al.**, **93d:62010**
Taneja, Inder Jeet *see* **Quesada, Vicente**, **93j:62012**
Tripathi, G. P. (*with* Kapur, J. N.) Information-theoretic proofs of some inequalities. **93g:26033**
Venegas-Martínez, F. Erratum: "On regularity and optimality conditions for maximum entropy priors" [Rebrape **4** (1990), no. 2, 105–136; MR 92h:62007].
Wen, Wilson X. Information and probabilistic reasoning. (English summary) **93k:68092**
Wu, Xue Mou Pansystems philosophy, pansystems mathematics (PPPM) and applications to APTMS: affairology, physics, technology, medicine and strategics. II. (Chinese. English and Chinese summaries)
Yang, En Hui The proof of Levin's conjecture. **93m:68087**
— (*with* Shen, Shi Yi) Chaitin complexity, Shannon information content of a single event and infinite random sequences. I. **93e:68040**
Zeitouni, Ofer *see* **Steinberg, Y.**, **93k:62197**
Zhang, Wen Xiu Plausible inference of probabilistic propositions. (Chinese. English summary) **93g:03020**

94A24 Coding theorems (Shannon theory)

Dzhamburiya, L. G. *see* **Glonti, O. A.**, **93d:94011**
Glonti, O. A. (*with* Dzhamburiya, L. G.) Optimal transmission of Gaussian signals involving cost of feedback. **93d:94011**
Golomb, Solomon W. Probability, information theory, and prime number theory. (English summary) **93f:94010**
Klusch, Dieter The sampling theorem, Dirichlet series and Hankel transforms. (English summary) **93j:94010**
Lazić, Dejan E. (*with* Šenk, Vojin) A direct geometrical method for bounding the error exponent for any specific family of channel codes. I. Cutoff rate lower bound for block codes. (English summary)
van Lint, J. H., Jr. Coding for channels with localized errors. **93b:94013**
Popović, Branislav M. Generalized chirp-like polyphase sequences with optimum correlation properties. **93b:94014**
Šenk, Vojin *see* **Lazić, Dejan E.**
Shtar'kov, Yu. M. Switching discrete sources and their universal coding. (Russian. Russian summary) **93g:94007**
Walter, Gilbert G. A sampling theorem for wavelet subspaces. **93e:94006**

Items with secondary classifications in 94A24

(Adler, Roy L.) *see* **Marcus, Brian H.**, **93i:01026b**
Bui Van Thanh Semi-continuous arbitrarily varying channels with general state constraints. **93h:94008**
Einarsson, G. (*with* Ericson, Thomas H. E.; Ingemarsson, I.; Johannesson, Rolf; Zigangirov, K. Sh.; Sundberg, C.-E.) ★ Topics in coding theory.
Ericson, Thomas H. E. *see* **Einarsson, G.; et al.**
Goggin, Eimear M. Convergence of filters with applications to the Kalman-Bucy case. **93b:94004**
Ingemarsson, I. *see* **Einarsson, G.; et al.**
Johannesson, Rolf *see* **Einarsson, G.; et al.**
Katyshev, P. K. On uniformly optimal coding of Gaussian messages in white Gaussian channels with feedback. (English summary) **93h:94011**
Kaur, Man Mohan *see* **Nath, Prem**, **93a:94018**
Marcus, Brian H. The impact of Roy Adler's work on symbolic dynamics and applications to data storage (or "The Roy Adler story, Part II"). **93i:01026b**
Nath, Prem (*with* Kaur, Man Mohan) Quasicyclic symmetry and the Shannon entropy. **93a:94018**
Shen, Shi Yi *see* **Yang, En Hui**, **93f:68048**
Sundberg, C.-E. *see* **Einarsson, G.; et al.**
Yang, En Hui (*with* Shen, Shi Yi) Chaitin complexity, Shannon information content of a single event, and infinite random sequences. II. **93f:68048**
Zayed, Ahmed I. A proof of new summation formulae by using sampling theorems. **93d:40002**
(Zetterberg, Lars H.) *see* **Einarsson, G.; et al.**
Zigangirov, K. Sh. *see* **Einarsson, G.; et al.**

94A29 Source coding

Birmiwal, Kailash *see* **Papantoni-Kazakos, P.; et al.**, **93a:94019**
Buro, Michael On the maximum length of Huffman codes. (English summary) **93m:94014**
Fabris, Francesco Variable-length-to-variable-length source coding: a greedy step-by-step algorithm. (English summary)
Gibson, J. D. (*with* McClellan, S. A.) Block source coding over GF(q). **93m:94015**
Kazakos, Dimitri *see* **Papantoni-Kazakos, P.; et al.**, **93a:94019**
McClellan, S. A. *see* **Gibson, J. D.**, **93m:94015**
McGeoch, Catherine C. Data compression.
Nobel, Andrew (*with* Wyner, Aaron D.) A recurrence theorem for dependent processes with applications to data compression. (English summary) **93f:94011**
Papantoni-Kazakos, P. (*with* Kazakos, Dimitri; Birmiwal, Kailash) Predictive analog-to-digital conversion for resistance to data outliers. **93a:94019**
Peres, Yuval Iterating von Neumann's procedure for extracting random bits. **93b:94015**
Vinokur, A. B. Huffman codes and maximizing properties of Fibonacci numbers. (Russian. English, Russian and Ukrainian summaries) **93i:94006**
Wood, Julian Harvey Is every compact code Huffman? **93j:94011**
Wyner, Aaron D. *see* **Nobel, Andrew**, **93f:94011**
Yang, En Hui Universal almost sure data compression for abstract alphabets and arbitrary fidelity criterions. (Russian summary) **93b:94016**

Items with secondary classifications in 94A29

Feder, Meir (*with* Merhav, Neri; Gutman, Michael) Universal prediction of individual sequences. **93b:94019**
Goertzel, Ben On the structural complexity of sequences, images, and automata. (English summary) **93k:68109**
Gutman, Michael *see* **Feder, Meir; et al.**, **93b:94019**
Koski, Timo (*with* Persson, Lars-Erik) Some properties of generalized exponential entropies with applications to data compression. **93d:94008**
Merhav, Neri *see* **Feder, Meir; et al.**, **93b:94019**
Mohan, Seshadri *see* **Varghese, Matthew**, **93m:94042**

Ornstein, Donald Samuel (*with* Weiss, Benjamin) Entropy and data compression schemes. (English summary) **93m:94012**
Persson, Lars-Erik *see* **Koski, Timo, 93d:94008**
Speed, T. P. *see* **Yu, Bin, 93i:62036**
Szpankowski, Wojciech (Un)expected behavior of typical suffix trees. **93d:68015**
Varghese, Matthew (*with* Mohan, Seshadri) Tree coding and IFS fractals. (English summary) **93m:94042**
Weiss, Benjamin *see* **Ornstein, Donald Samuel, 93m:94012**
Yu, Bin (*with* Speed, T. P.) Data compression and histograms. **93i:62036**

94A34 Rate-distortion theory

Items with secondary classifications in 94A34

Privalov, A. Yu. *see* **Tsybakov, B. S., 93i:94007**
Tsybakov, B. S. (*with* Privalov, A. Yu.) The rate of transmission of a stack algorithm in a channel with N conflicts. (Russian. Russian summary) **93i:94007**

94A40 Channel models

Bernshtein, A. V. (*with* Chernova, S. S.) Probabilistic models of processes for the exchange of housekeeping information in data transmission networks. (Russian) (*see* **93b:60003**)
Bocharova, I. E. (*with* Kudryashov, B. D.) Construction of a discrete mapping model for channels with fading. (Russian. Russian summary) **93m:94016**
Cheng, Shi Xin *see* **You, Xiao Hu**
Chernova, S. S. *see* **Bernshtein, A. V., (93b:60003)**
Deslauriers, Gilles *see* **Montpetit, Marie-José; et al.**
Fedortsov, S. P. *see* **Tsybakov, B. S.; et al., 93g:94009**
Haccoun, David *see* **Montpetit, Marie-José; et al.**
Honkala, J. (*with* Salomaa, Arto) Characterization results about L codes. (French summary) **93d:94012**
Katyshev, P. K. On uniformly optimal coding of Gaussian messages in white Gaussian channels with feedback. (English summary) **93h:94011**
Kudryashov, B. D. *see* **Bocharova, I. E., 93m:94016**
Montpetit, Marie-José (*with* Haccoun, David; Deslauriers, Gilles) A branching process analysis of the stack algorithm for variable channel conditions. (English summary)
Orlitsky, Alon Average-case interactive communication. (English summary) **93g:94008**
Privalov, A. Yu. *see* **Tsybakov, B. S., 93i:94007**
Ryleeva, N. A. *see* **Tsybakov, B. S.; et al., 93g:94009**
Salomaa, Arto *see* **Honkala, J., 93d:94012**
Tsybakov, B. S. (*with* Fedortsov, S. P.; Ryleeva, N. A.) Multiple access with conflict resolution by means of station numbers. (Russian. Russian summary) **93g:94009**
— (*with* Privalov, A. Yu.) The rate of transmission of a stack algorithm in a channel with N conflicts. (Russian. Russian summary) **93i:94007**
Verdú, Sergio (*with* Wei, Victor K.) Explicit construction of optimal constant-weight codes for identification via channels. (English summary)
Wei, Victor K. *see* **Verdú, Sergio**
Yanagi, Kenjiro Necessary and sufficient condition for capacity of the discrete time Gaussian channel to be increased by feedback. (English summary) **93j:94012**
— Optimal mutual information for coders and jammers in mismatched communication channels. (English summary) **93i:94008**
You, Xiao Hu (*with* Cheng, Shi Xin) On minimum-error-probability channel equalization and its realizations using k-nearest neighbor rule and neural nets. (English summary)

Items with secondary classifications in 94A40

Aniya, Mitsuru *see* **Ogiwara, Haruo**
Bui Van Thanh Semi-continuous arbitrarily varying channels with general state constraints. **93h:94008**
Kul'man, N. K. Asymptotically optimal linear filtering of a Gaussian process in a channel with delay. (Russian) (*see* **93b:60003**)
Lazić, Dejan E. (*with* Šenk, Vojin) A direct geometrical method for bounding the error exponent for any specific family of channel codes. I. Cutoff rate lower bound for block codes. (English summary)
Ogiwara, Haruo (*with* Aniya, Mitsuru) Adaptive equalization and trellis-coded modulation for selective fading channel. (English summary)
Robinson, Derek R. The optimality of fixed channel assignment policies for cellular radio systems. **93f:90065**
Šenk, Vojin *see* **Lazić, Dejan E.**

94A45 Prefix, length-variable, comma-free codes [see also 20M35, 68Q45]

Bruyère, Véronique (*with* De Felice, Clelia) Synchronization and decomposability for a family of codes. (English summary) **93i:94009**
De Felice, Clelia *see* **Bruyère, Véronique, 93i:94009**
Gu, Chang Kang *see* **Zhang, Liang, 93f:94012**
Kapur, J. N. A note on coding theorems of information theory. **93b:94017**
Katsura, Masashi (*with* Tanaka, Genjiro) Groups of finite elementary codes. **93e:94007**
Lallement, Gérard J. Completely regular finite prefix codes. **93j:94013**
Long, Dong Yang On the structure of some group codes. **93e:94008**
Mândoiu, Ion Kraft-Chaitin's theorem for free-extensible codes. (English summary) **93m:94017**
Perrin, Dominique (*with* Schützenberger, Marcel-Paul) Synchronizing prefix codes and automata and the road coloring problem. (English summary) **93i:94010**
Satyanarayana, M. Uniformly synchronous codes. **93j:94014**
Schützenberger, Marcel-Paul *see* **Perrin, Dominique, 93i:94010**
Tanaka, Genjiro *see* **Katsura, Masashi, 93e:94007**
Thierrin, G. (*with* Yü, Shih Shêng) Shuffle relations and codes. **93e:94009**
Tjalkens, Tjalling J. (*with* Willems, Frans M. J.) A universal variable-to-fixed length source code based on Lawrence's algorithm. **93a:94020**
Willems, Frans M. J. *see* **Tjalkens, Tjalling J., 93a:94020**
Yü, Shih Shêng *see* **Thierrin, G., 93e:94009**
Zhang, Liang (*with* Gu, Chang Kang) On factorization of finite maximal codes. **93f:94012**
Ziv, Jacob Correction to: "Variable-to-fixed length codes are better than fixed-to-variable length codes for Markov sources" [IEEE Trans. Inform. Theory **36** (1990), no. 4, 861–863].

Items with secondary classifications in 94A45

Bruyère, Véronique Completion of codes. **93a:94026**
Capocelli, Renato M. (*with* De Santis, Alfredo; Gargano, Luisa; Vaccaro, Ugo) On the construction of statistically synchronizable codes. **93a:94037**
De Santis, Alfredo *see* **Capocelli, Renato M.; et al., 93a:94037**
Devolder, J. (*with* Timmerman, E.) Finitary codes for biinfinite words. (French summary) **93i:68106**
Đỗ Long Vân (*with* Le Saëc, Bertrand; Litovsky, Igor) On coding morphisms for zigzag codes. (English and French summaries) **93m:20105**
Gargano, Luisa *see* **Capocelli, Renato M.; et al., 93a:94037**
Le Saëc, Bertrand *see* **Đỗ Long Vân; et al., 93m:20105**
Litovsky, Igor *see* **Đỗ Long Vân; et al., 93m:20105**
Timmerman, E. *see* **Devolder, J., 93i:68106**
Vaccaro, Ugo *see* **Capocelli, Renato M.; et al., 93a:94037**
Wood, Julian Harvey Is every compact code Huffman? **93j:94011**

94A50 Theory of questionnaires

Bouchon, Bernadette Questionnaires with fuzzy and probabilistic elements. (*see* **93c:90002**)

94A55 Shift register sequences

Alon, Noga (*with* Goldreich, Oded; Håstad, Johan; Peralta, René) Simple constructions of almost k-wise independent random variables. **93k:94006a**
— (*with* Goldreich, Oded; Håstad, Johan; Peralta, René) Addendum to: "Simple constructions of almost k-wise independent random variables". **93k:94006b**
Carter, G. Enumeration results on linear complexity profiles. **93b:94018**
Feder, Meir (*with* Merhav, Neri; Gutman, Michael) Universal prediction of individual sequences. **93b:94019**
Feng, Ke Qin A new family of binary sequences with optimal autocorrelation values and nice pseudo-random properties. (English summary) **93j:94015**
Goldreich, Oded *see* **Alon, Noga; et al., 93k:94006a** *and* **93k:94006b**
Golomb, Solomon W. "Periods" of de Bruijn sequences. **93h:94012**
Gutman, Michael *see* **Feder, Meir; et al., 93b:94019**
Håstad, Johan *see* **Alon, Noga; et al., 93k:94006a** *and* **93k:94006b**
Helleseth, Tor (*with* Kløve, Torleiv) The number of cross-join pairs in maximum length linear sequences. **93a:94021**
Khachatryan, L. G. The lower bound of the quadratic spans of de Bruijn sequences. (English summary) **93j:94016**
Kim, Chulki (*with* Komo, John J.) A new family of nonbinary sequences with large linear span. (English summary) **93j:94017**
Kløve, Torleiv *see* **Helleseth, Tor, 93a:94021**
Komo, John J. *see* **Liu, Shyh-Chang, 93f:94013** *and* **Kim, Chulki, 93j:94017**
Liu, Shyh-Chang (*with* Komo, John J.) Nonbinary Kasami sequences over GF(p). **93f:94013**
Lu, Pei Zhong (*with* Song, Guo Wen; Zhou, Jin Jun) Tensor products with applications to linear recurring sequences. (English and Chinese summaries) **93j:94018**
Ma, Shao Han *see* **Zhu, Da Ming**
Merhav, Neri *see* **Feder, Meir; et al., 93b:94019**
Peralta, René *see* **Alon, Noga; et al., 93k:94006a** *and* **93k:94006b**
Shen, Ba Zhong *see* **Xiao, Guo Zhen, 93j:94019**
Simmons, Gustavus J. Ezekiel graphs. **93a:94022**
Song, Guo Wen *see* **Lu, Pei Zhong; et al., 93j:94018**
Wolfmann, Jacques Almost perfect autocorrelation sequences. **93h:94013**
Xiao, Guo Zhen (*with* Shen, Ba Zhong) Root representations of sequences without binomial coefficients. (Chinese. English and Chinese summaries) **93j:94019**
Yang, Jun Hui Constructing the Hamilton cycle on r-ary de Bruijn-Good graph—the r-ary de Bruijn sequence. (English summary) **93h:94014**
Zhou, Jin Jun *see* **Lu, Pei Zhong; et al., 93j:94018**
Zhu, Da Ming (*with* Ma, Shao Han) Two algorithms for generating binary de Bruijn sequences. (Chinese. English and Chinese summaries)

Items with secondary classifications in 94A55

Compagner, Aaldert The hierarchy of correlations in random binary sequences. **93c:65012**
Jedwab, Jonathan Generalized perfect arrays and Menon difference sets. **93f:05020**
Kumar, P. Vijay (*with* Wei, Victor K.) Minimum distance of logarithmic and fractional partial m-sequences. (English summary) **93f:94002**
Rueppel, Rainer A. Stream ciphers. (*see* **93k:94009**)
Wei, Victor K. *see* **Kumar, P. Vijay, 93f:94002**

94A60 Cryptography [see also 11T71, 68P25]

Agnew, G. B. (*with* Beth, Thomas; Mullin, R. C.; Vanstone, Scott A.) Arithmetic operations in GF(2^m). (English summary) **93m:94018**
Beth, Thomas *see* **Agnew, G. B.; et al., 93m:94018**
Biham, Eli (*with* Shamir, Adi) Differential cryptanalysis of DES-like cryptosystems. (English summary) **93j:94020**
Bird, Gregory J. *see* **Loxton, J. H.; et al., 93c:94004**
Bos, Jurjen N. E. Provably unforgeable signatures. (English summary)
Brickell, E. F. (*with* Odlyzko, Andrew M.) Cryptanalysis: a survey of recent results. (English summary) (*see* **93k:94009**)
— (*with* Stinson, Douglas R.) Some improved bounds on the information rate of perfect secret sharing schemes. (English summary) **93j:94021**

Burmester, Mike An almost-constant round interactive zero-knowledge proof.
Chandler, Richard *see* **Levine, Jack, 93m:94019**
Dai, Zong Duo *see* **Yang, Jun Hui; et al., 93g:94011**
Diffie, Whitfield The first ten years of public key cryptology. (English summary) (*see* **93k:94009**)
Eugeni, Franco Combinatorics and cryptography. (*see* **93f:05003**)
— (*with* Maturo, Antonio) A new authentication system based on the generalized affine planes. (English summary) **93h:94015**
Evertse, Jan-Hendrik (*with* van Heyst, Eugène) Which new RSA-signatures can be computed from certain given RSA-signatures? **93g:94010**
Feigenbaum, Joan Overview of interactive proof systems and zero-knowledge. (English summary) (*see* **93k:94009**)
Georgiades, Jean Some remarks on the security of the identification scheme based on permuted kernels.
Gollmann, D. Automata theory and cryptanalysis. **93a:94023**
Golomb, Solomon W. *see* **Mayhew, Gregory L., 93h:94018**
Harari, Sami Sacs à dos orthogonaux et sacs à dos divisibles. (English and French summaries) [Orthogonal and divisible knapsacks] **93j:94022**
Hardjono, Thomas *see* **Zheng, Yuliang; et al., 93k:94008**
He, Jing Min An improved knapsack-based public key cryptosystem. (Chinese. English and Chinese summaries) **93i:94011**
van Heijst, Eugène Josephus Leonardus Johannes ★ Special signature schemes. **93j:94023**
van Heyst, Eugène *see* **Evertse, Jan-Hendrik, 93g:94010**
Jefferies, N. (*with* Walker, Michael) An algebraic zero-knowledge identification scheme. **93a:94024**
Kersten, Annette G. Shared Secret Schemes aus geometrischer Sicht. [Shared secret schemes from a geometric point of view] **93h:94016**
Khoo, David S. P. *see* **Loxton, J. H.; et al., 93c:94004**
Lamont, P. J. C. Unique factorization in Cayley arithmetics and cryptology. **93k:94007**
Lei, Chin Laung *see* **Liaw, Heh Tyan; et al.**
Levine, Jack (*with* Chandler, Richard) The two-message problem in the Hill cryptographic system with unknown cipher alphabet. (English summary) **93m:94019**
Liaw, Heh Tyan (*with* Wang, S. J.; Lei, Chin Laung) A dynamic cryptographic key assignment scheme in a tree structure. (English summary)
Lloyd, Sheelagh Characterising and counting functions satisfying the strict avalanche criterion of order $(n-3)$. **93c:94003**
— Counting binary functions with certain cryptographic properties. **93e:94010**
— Balance, uncorrelatedness and the strict avalanche criterion. (English summary) **93i:94012**
Long, Yong Hong² Using Diophantine equations to construct public-key cryptosystems. (Chinese. English and Chinese summaries) **93j:94024**
Loxton, J. H. (*with* Khoo, David S. P.; Bird, Gregory J.; Seberry, Jennifer) A cubic RSA code equivalent to factorization. **93c:94004**
Magliveras, Spyros S. (*with* Memon, Nasir D.) Algebraic properties of cryptosystem PGM. (English summary) **93h:94017**
Massey, James L. Contemporary cryptology: an introduction. (English summary) (*see* **93k:94009**)
Maturo, Antonio *see* **Eugeni, Franco, 93h:94015**
Maurer, Ueli M. Conditionally-perfect secrecy and a provably-secure randomized cipher.
Mayhew, Gregory L. (*with* Golomb, Solomon W.) Characterizations of generators for modified de Bruijn sequences. (English summary) **93h:94018**
Meier, Willi (*with* Staffelbach, Othmar) Correlation properties of combiners with memory in stream ciphers.
Memon, Nasir D. *see* **Magliveras, Spyros S., 93h:94017**
Mitchell, C. J. (*with* Piper, F.; Wild, Peter) Digital signatures. (*see* **93k:94009**)
Moore, Judy Hennessey Protocol failures in cryptosystems. (English summary) (*see* **93k:94009**)
Mullin, R. C. *see* **Agnew, G. B.; et al., 93m:94018**
Nechvatal, James Public key cryptography. (*see* **93k:94009**)
Nilsen, Leif Modular square roots and modern cryptology. (Norwegian. English summary)
O'Connor, Luke The inclusion-exclusion principle and its applications to cryptography. (English summary) **93i:94013**
Odlyzko, Andrew M. *see* **Brickell, E. F., (93k:94009)**
O'Keefe, Christine M. Applications of finite geometries to information security. (English summary) **93m:94020**
van Oorschot, Paul C. A comparison of practical public key cryptosystems based on integer factorization and discrete logarithms. (English summary) (*see* **93k:94009**)
Pethő, Attila On a polynomial transformation and its application to the construction of a public key cryptosystem. **93e:94011**
Piper, F. *see* **Mitchell, C. J.; et al., (93k:94009)**
Rueppel, Rainer A. Stream ciphers. (*see* **93k:94009**)
Seberry, Jennifer *see* **Loxton, J. H.; et al., 93c:94004** *and* **Zheng, Yuliang; et al., 93k:94008**
Shamir, Adi *see* **Biham, Eli, 93j:94020**
Simmons, Gustavus J. A survey of information authentication. (English summary) (*see* **93k:94009**)
— An introduction to shared secret and/or shared control schemes and their application. (*see* **93k:94009**)
— *see also* **Contemporary cryptology, 93k:94009**
Staffelbach, Othmar *see* **Meier, Willi**
Stephens, Nelson Cryptography, or sending secret messages. (English summary) (*see* **93g:00019**)
— The zero-square algorithm for computing linear complexity profiles. **93d:94013**
Stinson, Douglas R. Combinatorial characterizations of authentication codes. **93d:94014**
— An explication of secret sharing schemes. (English summary) **93m:94021**
— *see also* **Brickell, E. F., 93j:94021**
Vanstone, Scott A. *see* **Agnew, G. B.; et al., 93m:94018**
Venkaiah, V. Ch. An RSA based public-key cryptosystem for secure communication. (English summary)
Walker, Michael *see* **Jefferies, N., 93a:94024**
Wan, Zhe Xian Further constructions of Cartesian authentication codes from symplectic geometry. **93b:94020**
Wang, S. J. *see* **Liaw, Heh Tyan; et al.**
Wang, Xiao Yun A Diophantine-knapsack type public-key cryptosystem. (Chinese. English summary)
Wayner, Peter Mimic functions.
Webb, William A. A public key cryptosystem based on complementing sets. **93a:94025**
Wild, Peter *see* **Mitchell, C. J.; et al., (93k:94009)**
Wu, Tzong Chen (*with* Yeh, Yi Shiung) A conference key distribution system based on cross-product. (English summary) **93h:94019**
Xie, Dong Qing Partially efficient computation and criteria of security for public key cryptosystems. (Chinese. English and Chinese summaries) **93m:94022**
Yang, Jun Hui (*with* Dai, Zong Duo; Zeng, Ken Cheng) A cryptographic study on *S*-boxes of DES type. III. (English summary) **93g:94011**
Yeh, Yi Shiung *see* **Wu, Tzong Chen, 93h:94019**
Yu, Xiu Yuan A note on the trap-door knapsack public-key cryptosystem. (Chinese. English and Chinese summaries) **93i:94014**
Zeng, Ken Cheng *see* **Yang, Jun Hui; et al., 93g:94011**
Zheng, Yuliang (*with* Hardjono, Thomas; Seberry, Jennifer) How to recycle shares in secret sharing schemes. (English summary) **93k:94008**

Items listed otherwise than by author

Contemporary cryptology ★ Contemporary cryptology. **93k:94009**

Items with secondary classifications in 94A60

Beutelspacher, Albrecht Applications of finite geometry to cryptography. **93i:51017**
Blum, Manuel (*with* De Santis, Alfredo; Micali, Silvio; Persiano, Giuseppe) Noninteractive zero-knowledge. **93c:68028**
Boyar, Joan (*with* Friedl, Katalin; Lund, Carsten) Practical zero-knowledge proofs: giving hints and using deficiencies. (English summary) **93m:68144**
Capocelli, Renato M. (*with* Gargano, Luisa; Vaccaro, Ugo) Efficient q-ary immutable codes. **93a:68034**
Chen, De Meng (*with* Stanton, R. G.; Stinson, Douglas R.) Disjoint packings on $6k+5$ points. **93b:05013**
Chor, Benny (*with* Kushilevitz, Eyal) A communication-privacy tradeoff for modular addition. (English summary) **93m:68070**
Dai, Zong Duo (*with* Huang, Min Qiang) Linear complexity and the minimal polynomial of linear recurring sequences over $\mathbf{Z}/(m)$. (English summary) **93g:11018**
De Santis, Alfredo *see* **Blum, Manuel; et al., 93c:68028**
Friedl, Katalin *see* **Boyar, Joan; et al., 93m:68144**
Gargano, Luisa *see* **Capocelli, Renato M.; et al., 93a:68034**
Goldreich, Oded (*with* Micali, Silvio; Wigderson, Avi) Proofs that yield nothing but their validity, or All languages in NP have zero-knowledge proof systems. **93b:68025**
— (*with* Krawczyk, Hugo) Sparse pseudorandom distributions. **93b:68029**
Homer, Steven (*with* Selman, Alan L.) Oracles for structural properties: the isomorphism problem and public-key cryptography. **93j:68060**
Honkala, J. (*with* Salomaa, Arto) Characterization results about L codes. (French summary) **93d:94012**
Huang, Min Qiang *see* **Dai, Zong Duo, 93g:11018**
Kasahara, Masao *see* **Morii, Masakatu, 93j:68081**
Koblitz, Neal Elliptic curve implementation of zero-knowledge blobs. (English summary) **93m:68080**
Krawczyk, Hugo How to predict congruential generators. (English summary) **93g:65013**
— *see also* **Goldreich, Oded, 93b:68029**
Kushilevitz, Eyal *see* **Chor, Benny, 93m:68070**
Lu, Pei Zhong (*with* Song, Guo Wen; Zhou, Jin Jun) Tensor products with applications to linear recurring sequences. (English and Chinese summaries) **93j:94018**
Lund, Carsten *see* **Boyar, Joan; et al., 93m:68144**
Maurer, Ueli M. Some number-theoretic conjectures and their relation to the generation of cryptographic primes. **93g:11129**
— A universal statistical test for random bit generators. **93e:65011**
Micali, Silvio *see* **Goldreich, Oded; et al., 93b:68025** *and* **Blum, Manuel; et al., 93c:68028**
Mitchell, Douglas W. A nonlinear random number generator with known, long cycle length. (English summary)
More, Willi Rasches Auswerten von Rédei-Funktionen. (German summary) [Fast evaluation of Rédei functions] **93k:11118**
Morii, Masakatu (*with* Kasahara, Masao) Perfect staircase profile of linear complexity for finite sequences. (English summary) **93j:68081**
Niederreiter, Harald Finite fields and cryptology. **93m:11133**
Persiano, Giuseppe *see* **Blum, Manuel; et al., 93c:68028**
Phillips, Nicholas C. *see* **Phillips, Steven J., 93g:68031**
Phillips, Steven J. (*with* Phillips, Nicholas C.) Strongly ideal secret sharing schemes. (English summary) **93g:68031**
Rubinstein, Ariel The electronic mail game: strategic behavior under "almost common knowledge". (*see* **93i:90006**)
Salomaa, Arto *see* **Honkala, J., 93d:94012**
Selman, Alan L. A survey of one-way functions in complexity theory. **93a:68046**
— *see also* **Homer, Steven, 93j:68060**
Song, Guo Wen *see* **Lu, Pei Zhong; et al., 93j:94018**
Stanton, R. G. *see* **Chen, De Meng; et al., 93b:05013**
Stinson, Douglas R. *see* **Chen, De Meng; et al., 93b:05013**
Vaccaro, Ugo *see* **Capocelli, Renato M.; et al., 93a:68034**
Webb, William A. Cryptography using complementing subsets of polynomials over finite fields. (English summary) **93m:11134**
Wigderson, Avi *see* **Goldreich, Oded; et al., 93b:68025**
Zagier, Don Primzahlen: Theorie und Anwendung. [Prime numbers: theory and application] **93c:11112**
Zhou, Jin Jun *see* **Lu, Pei Zhong; et al., 93j:94018**

94A99 None of the above, but in this section

Lazarev, A. G. Group-theoretic bases of methods for information transformation. (Russian. English and Ukrainian summaries) **93j:94025**

Items with secondary classifications in 94A99

Álvarez León, Luis (*with* Lions, Pierre-Louis; Morel, Jean-Michel) Image selective smoothing and edge detection by nonlinear diffusion. II. **93a:35072**
Lions, Pierre-Louis *see* **Álvarez León, Luis; et al., 93a:35072**
Morel, Jean-Michel *see* **Álvarez León, Luis; et al., 93a:35072**
Woodall, Douglas Local and global proportionality. **93d:05005**

94Bxx Theory of error-correcting codes

Bruyère, Véronique Completion of codes. **93a:94026**
Pretzel, Oliver ★ Error-correcting codes and finite fields. **93j:94026**

Items with secondary classifications in 94Bxx

(Cameron, Peter J.) *see* **Collection: Contributions in honour of Jack van Lint**
Einarsson, G. (*with* Ericson, Thomas H. E.; Ingemarsson, I.; Johannesson, Rolf; Zigangirov, K. Sh.; Sundberg, C.-E.) ★ Topics in coding theory.
Ericson, Thomas H. E. *see* **Einarsson, G.; et al.**
Hoffman, Dean G. (*with* Leonard, D. A.; Lindner, Charles C.; Phelps, Kevin T.; Rodger, Chris A.; Wall, J. R.) ★ Coding theory. **93d:94001**
Ingemarsson, I. *see* **Einarsson, G.; et al.**
Johannesson, Rolf *see* **Einarsson, G.; et al.**
Leonard, D. A. *see* **Hoffman, Dean G.; et al., 93d:94001**
Lindner, Charles C. *see* **Hoffman, Dean G.; et al., 93d:94001**
(van Lint, J. H., Jr.) *see* **Collection: Contributions in honour of Jack van Lint**
Phelps, Kevin T. *see* **Hoffman, Dean G.; et al., 93d:94001**
Rodger, Chris A. *see* **Hoffman, Dean G.; et al., 93d:94001**
Roman, Steven ★ Coding and information theory. **93d:94002**
Sundberg, C.-E. *see* **Einarsson, G.; et al.**
(van Tilborg, Henk C. A.) *see* **Collection: Contributions in honour of Jack van Lint**
Wall, J. R. *see* **Hoffman, Dean G.; et al., 93d:94001**
(Zetterberg, Lars H.) *see* **Einarsson, G.; et al.**
Zigangirov, K. Sh. *see* **Einarsson, G.; et al.**

Items listed otherwise than by author

Collection:
Contributions in honour of Jack van Lint ★ A collection of contributions in honour of Jack van Lint.
Special Issue:
Collection of contributions in honour of Jack van Lint ★ A collection of contributions in honour of Jack van Lint.

94B05 Linear codes, general

Al-Bassam, Sulaiman *see* **Bose, Bella, 93m:94024**
Baggen, C. P. M. J. *see* **Tolhuizen, L. M. G. M., 93f:94022**
Bastian, Michael A perfect lot-tree procedure for the discounted dynamic lot-size problem with speculation. **93f:94014**
Behrendt, Gerhard Graph-perfect binary codes. (English summary) **93m:94023**
Berger, Thierry (*with* Charpin, Pascale) Groupe d'automorphismes des codes de Reed et Muller q-aires. (English summary) [The automorphism group of q-ary Reed-Muller codes] **93a:94027**
Bose, Bella (*with* Al-Bassam, Sulaiman) Byte unidirectional error correcting and detecting codes. (English summary) **93m:94024**
Brualdi, Richard A. (*with* Cai, Ning; Pless, Vera S.) Orphan structure of the first-order Reed-Muller codes. **93b:94021**
Cai, Ning *see* **Brualdi, Richard A.; et al., 93b:94021**
Calderbank, A. R. Covering machines. (English summary) **93j:94027**
— (*with* Delsarte, Philippe) On error-correcting codes and invariant linear forms. (English summary) **93m:94025**
Carlet, Claude Les groupes d'automorphismes des codes de Delsarte-Goethals. (English and French summaries) [The automorphism groups of Delsarte-Goethals codes] **93f:94015**
Charpin, Pascale *see* **Berger, Thierry, 93a:94027**
Chepyzhov, V. V. New lower bounds for the minimal distance of linear quasicyclic and almost linear cyclic codes. (Russian) **93d:94015**
Chernov, V. G. On the Fourier transform of the Hamming norm. (Russian. Russian and Ukrainian summaries) **93h:94020**
Clark, W. Edwin (*with* Dunning, Larry A.) Partial partitions of vector spaces arising from the construction of byte error control codes. (English summary) **93g:94012**
Conway, J. H. (*with* Sloane, N. J. A.) Self-dual codes over the integers modulo 4. (English summary) **93m:94026**
Daskalov, Rumen N. (*with* Kapralov, Stoyan N.) New minimum distance bounds for certain binary linear codes. (English summary) **93g:94013**
Delsarte, Philippe *see* **Calderbank, A. R., 93m:94025**
Dodunekov, Stefan M. (*with* Nilsson, Jan E. M.) Algebraic decoding of the Zetterberg codes. (English summary)
Dunning, Larry A. *see* **Clark, W. Edwin, 93g:94012**
Ferdinand, Christian (*with* Seidl, Helmut; Wilhelm, Reinhard) Baumautomaten zur Codeselektion. (German summary) [Tree automata for code selection] **93e:94012**
Fujiwara, Toru *see* **Kasami, Tadao; et al., 93m:94027**
Greenough, P. P. (*with* Hill, Raymond) Optimal ternary quasi-cyclic codes. **93d:94016**
Hamada, Noboru (*with* Helleseth, Tor) A characterization of some linear codes over GF(4) meeting the Griesmer bound. **93c:94005**
Helleseth, Tor (*with* Kløve, Torleiv; Ytrehus, Øyvind) Generalized Hamming weights of linear codes. **93a:94028**
— *see also* **Hamada, Noboru, 93c:94005**
Hill, Raymond *see* **Greenough, P. P., 93d:94016**
Hirzebruch, Friedrich Codierungstheorie und ihre Beziehung zu Geometrie und Zahlentheorie. [Coding theory and its relation to geometry and number theory] **93e:94013**
Kapralov, Stoyan N. *see* **Daskalov, Rumen N., 93g:94013**
Kasami, Tadao (*with* Takata, Toyoo; Fujiwara, Toru; Lin, Shu) On the optimum bit orders with respect to the state complexity of trellis diagrams for binary linear codes. (English summary) **93m:94027**
Kløve, Torleiv Support weight distribution of linear codes. (English summary) **93g:94014**
— *see also* **Helleseth, Tor; et al., 93a:94028**
Konopel'ko, V. K. Tabular low-density codes that correct modulus and burst error. (Russian. Russian summary) **93f:94016**
Kschischang, Frank R. (*with* Pasupathy, Subbarayan) Some ternary and quaternary codes and associated sphere packings. **93a:94029**
Lempel, Abraham *see* **Roth, Ron M., 93f:94020**
Lin, Shu *see* **Kasami, Tadao; et al., 93m:94027**
Maruta, Tatsuya On the uniqueness of cyclic MDS codes. (English summary) **93f:94017**
Massey, James L. Linear codes with complementary duals. (English summary) **93d:94017**
Maurer, H. A. (*with* Salomaa, Arto; Wood, Derick) Bounded delay L codes. **93e:94014**
Monti, Carlo M. (*with* Pierobon, Gianfranco L.; Viaro, Umberto) Error monitoring characterization in coding systems using finite automata. (English summary) (*see* **93g:93006**)
Munuera Gómez, Carlos On the main conjecture on geometric MDS codes. (English summary) **93g:94015**
Nilsson, Jan E. M. *see* **Dodunekov, Stefan M.**
O'Keefe, Christine M. An introduction to error-correcting codes. (English summary)
Okol'nishnikova, E. A. Lower bounds on complexity for the realization of characteristic functions of binary codes by binary programs. (Russian. Russian summary) **93m:94028**
Oral, Haluk Self-orthogonal codes with distance four are not rigid. **93f:94018**
— (*with* Phelps, Kevin T.) Almost all self-dual codes are rigid. **93b:94022**
Pasupathy, Subbarayan *see* **Kschischang, Frank R., 93a:94029**
Pellikaan, Ruud On decoding by error location and dependent sets of error positions. (English summary) **93h:94021**
Phelps, Kevin T. *see* **Oral, Haluk, 93b:94022**
Pierobon, Gianfranco L. *see* **Monti, Carlo M.; et al., (93g:93006)**
Pless, Vera S. More on the uniqueness of the Golay codes. (English summary) **93g:94016**
— *see also* **Brualdi, Richard A.; et al., 93b:94021**
Pott, Alexander On abelian difference set codes. (English summary) **93i:94015**
Qiu, Wei De (*with* Zhang, Liang) The structure of solvably recognizable strong codes. (Chinese) **93f:94019**
Roth, Ron M. (*with* Lempel, Abraham) t-sum generators of finite abelian groups. **93f:94020**
Salomaa, Arto *see* **Maurer, H. A.; et al., 93e:94014**
Sapozhnikov, V. V. (*with* Sapozhnikov, Vl. V.) Self-checking checkers for equilibrium codes. (Russian. Russian summary) **93d:94018**
Sapozhnikov, Vl. V. *see* **Sapozhnikov, V. V., 93d:94018**
Seidl, Helmut *see* **Ferdinand, Christian; et al., 93e:94012**
Šešelja, Branimir (*with* Tepavčević, Andreja; Vojvodić, Gradimir) L-fuzzy sets and codes. (English summary) **93j:94028**
Simonis, Juriaan A description of the [16, 7, 6] codes. **93f:94021**
Sloane, N. J. A. *see* **Conway, J. H., 93m:94026**
Takata, Toyoo *see* **Kasami, Tadao; et al., 93m:94027**
Tepavčević, Andreja *see* **Šešelja, Branimir; et al., 93j:94028**
Tolhuizen, L. M. G. M. (*with* Baggen, C. P. M. J.) On the weight enumerator of product codes. (English summary) **93f:94022**
Viaro, Umberto *see* **Monti, Carlo M.; et al., (93g:93006)**
Vojvodić, Gradimir *see* **Šešelja, Branimir; et al., 93j:94028**
Wilhelm, Reinhard *see* **Ferdinand, Christian; et al., 93e:94012**
Wood, Derick *see* **Maurer, H. A.; et al., 93e:94014**
Ytrehus, Øyvind *see* **Helleseth, Tor; et al., 93a:94028**
Zhang, Liang *see* **Qiu, Wei De, 93f:94019**
Zimmermann, Karl-Heinz On a complete decoding scheme for binary radical codes. **93h:94022**

Items with secondary classifications in 94B05

Aleksanyan, A. A. ★ Дизъюнктивные нормальные формы над линейными функциями. (Russian) [Disjunctive normal forms over linear functions] **93h:06024**
Bagchi, Bhaskar (*with* Brouwer, Andries; Wilbrink, H. A.) Notes on binary codes related to the O(5, q) generalized quadrangle for odd q. **93e:51017**
Bhandari, M. C. (*with* Garg, M. S.) Optimum codes of dimension 3 and 4 over GF(4). (English summary) **93g:94031**
Blokhuis, Aart (*with* Calderbank, A. R.; Metsch, Klaus; Seress, Ákos) An embedding theorem for partial linear spaces. **93b:51010**
Boley, Daniel L. (*with* Brent, Richard P.; Golub, Gene H.; Luk, Franklin T.) Algorithmic fault tolerance using the Lanczos method. **93f:65034**
Brent, Richard P. *see* **Boley, Daniel L.; et al., 93f:65034**
Brouwer, Andries *see* **Bagchi, Bhaskar; et al., 93e:51017**
Calderbank, A. R. *see* **Blokhuis, Aart; et al., 93b:51010**
Cameron, Peter J. (*with* van Lint, J. H., Jr.) ★ Designs, graphs, codes and their links. **93c:05001**
Ceccherini, Pier Vittorio (*with* Hirschfeld, J. W. P.) The dimension of projective geometry codes. (English summary) **93i:51018**
Cohen, Gérard Denis (*with* Litsyn, S. N.) On the covering radius of Reed-Muller codes. (English summary) **93e:94016**
Conway, J. H. (*with* Pless, Vera S.; Sloane, N. J. A.) The binary self-dual codes of length up to 32: a revised enumeration. **93e:11150**
Deza, Michel *see* **Hamada, Noboru, 93i:51019**
Drane, C. R. ★ Positioning systems. **93k:94001**
Garg, M. S. *see* **Bhandari, M. C., 93g:94031**
Goldie, Charles M. (*with* Pinch, Richard G. E.) ★ Communication theory. **93a:94001**
Golub, Gene H. *see* **Boley, Daniel L.; et al., 93f:65034**

Hamada, Noboru (*with* Deza, Michel) A characterization of $\{2v_{\alpha+1}+2v_{\beta+1}, 2v_\alpha+2v_\beta; t, q\}$-minihypers in PG$(t,q)$ $(t \geq 2,\ q \geq 5$ and $0 \leq \alpha < \beta < t)$ and its applications to error-correcting codes. **93i:51019**

— (*with* Helleseth, Tor) A characterization of some minihypers and codes meeting the Griesmer bound over GF(q), $q > 9$. (English summary) **93k:51018**

Helleseth, Tor *see* **Hamada, Noboru, 93k:51018**

Hirschfeld, J. W. P. *see* **Ceccherini, Pier Vittorio, 93i:51018**

Kuz'min, A. S. (*with* Nechaev, A. A.) Construction of noise-stable codes using linear recurrent sequences over Galois rings. (Russian) **93m:51010**

Langevin, Philippe Covering radius of RM(1, 9) in RM(3, 9). **93c:94010**

Lin, Cantian (*with* Lin, Hai Ping; Wallis, Walter; Yucas, Joseph L.) Codes from Hadamard matrices and profiles of Hadamard matrices. (English summary) **93h:05033**

Lin, Hai Ping *see* **Lin, Cantian; et al., 93h:05033**

van Lint, J. H., Jr. *see* **Cameron, Peter J., 93c:05001**

Litsyn, S. N. *see* **Cohen, Gérard Denis, 93e:94016**

Luk, Franklin T. *see* **Boley, Daniel L.; et al., 93f:65034**

Metsch, Klaus *see* **Blokhuis, Aart; et al., 93b:51010**

Nechaev, A. A. *see* **Kuz'min, A. S., 93m:51010**

Pellikaan, Ruud (*with* Shen, Ba Zhong; van Wee, G. J. M.) Which linear codes are algebraic-geometric? **93g:94023**

Pilz, G. F. Codes, block designs, Frobenius groups, and near-rings. (English summary) **93j:94037**

Pinch, Richard G. E. *see* **Goldie, Charles M., 93a:94001**

Pless, Vera S. *see* **Conway, J. H.; et al., 93e:11150**

Rotillon, D. (*with* Thiong Ly, J.-A.) Decoding of codes on the Klein quartic. **93b:94028**

Seress, Ákos *see* **Blokhuis, Aart; et al., 93b:51010**

Shen, Ba Zhong *see* **Pellikaan, Ruud; et al., 93g:94023**

Simonis, Juriaan The [18, 9, 6] code is unique. (English summary) **93d:94023**

Sloane, N. J. A. *see* **Conway, J. H.; et al., 93e:11150**

Storme, L. (*with* Thas, J. A.) Generalized Reed-Solomon codes and normal rational curves: an improvement of results by Seroussi and Roth. **93e:51016**

Thas, J. A. *see* **Storme, L., 93e:51016**

Thiong Ly, J.-A. *see* **Rotillon, D., 93b:94028**

Wallis, Walter *see* **Lin, Cantian; et al., 93h:05033**

van Wee, G. J. M. *see* **Pellikaan, Ruud; et al., 93g:94023**

Wilbrink, H. A. *see* **Bagchi, Bhaskar; et al., 93e:51017**

Xing, Chao Ping Remarks on self-dual elliptic codes. **93a:94036**

Yucas, Joseph L. *see* **Lin, Cantian; et al., 93h:05033**

94B10 Convolutional codes

Chepyzhov, V. V. (*with* Smeets, Ben J. M.; Zigangirov, K. Sh.) The free distance of fixed convolutional rate 2/4 codes meets the Costello bound. **93d:94019**

Smeets, Ben J. M. *see* **Chepyzhov, V. V.; et al., 93d:94019**

Soardi, Paolo M. Parabolic networks and polynomial growth. **93g:94017**

Zigangirov, K. Sh. *see* **Chepyzhov, V. V.; et al., 93d:94019**

Items with secondary classifications in 94B10

Bezrukov, S. L. Two extremal problems for oriented lattices. (Russian. Russian summary) **93g:05060**

Bogart, Kenneth P. ★ Introductory combinatorics.

Honkala, J. (*with* Salomaa, Arto) Characterization results about L codes. (French summary) **93d:94012**

Salomaa, Arto *see* **Honkala, J., 93d:94012**

94B12 Combined modulation schemes (including trellis codes)

Calderbank, A. R. (*with* Pottie, G. J.) Upper bounds for small trellis codes. (English summary) **93g:94018**

Johannesson, Rolf *see* **Zigangirov, K. Sh., 93j:94029**

Pottie, G. J. *see* **Calderbank, A. R., 93g:94018**

Zigangirov, K. Sh. (*with* Johannesson, Rolf) A trellis coding scheme based on the splitting of the signal alphabet. (Russian. Russian summary) **93j:94029**

94B15 Cyclic codes

Augot, Daniel (*with* Charpin, Pascale; Sendrier, Nicolas) Studying the locator polynomials of minimum weight codewords of BCH codes. **93a:94030**

Barg, A. M. (*with* Dumer, I. I.) On computing the weight spectrum of cyclic codes. **93b:94023**

Berger, Thierry A direct proof for the automorphism group of Reed-Solomon codes. **93d:94020**

Bhargava, Vijay K. *see* **Gulliver, T. Aaron, 93j:94030**

Blahut, Richard E. A note on binary cyclic codes of blocklength 63. (English summary) **93h:94023**

Camion, Paul (*with* Courteau, Bernard; Montpetit, André) Weight distribution of cosets of 2-error-correcting binary BCH codes of length 15, 63, and 255. **93b:94024**

Charpin, Pascale *see* **Augot, Daniel; et al., 93a:94030**

Chen, J. (*with* Owsley, P.) A burst-error-correcting algorithm for Reed-Solomon codes. (English summary) **93i:94016**

Courteau, Bernard *see* **Camion, Paul; et al., 93b:94024**

Dumer, I. I. *see* **Barg, A. M., 93b:94023**

Feng, Gui Liang (*with* Tzeng, K. K.; Wei, Victor K.) On the generalized Hamming weights of several classes of cyclic codes. **93b:94025**

Goldman, Jerry (*with* Homer, Steven) Doubly-periodic sequences and a class of two-dimensional cyclic codes. **93g:94019**

Gulliver, T. Aaron (*with* Bhargava, Vijay K.) Nine good rate $(m-1)/pm$ quasi-cyclic codes.

— (*with* Bhargava, Vijay K.) Some best rate $1/p$ and rate $(p-1)/p$ systematic quasi-cyclic codes over GF(3) and GF(4).

— (*with* Bhargava, Vijay K.) A systematic (16, 8) code for correcting double errors and detecting triple-adjacent errors. (English summary) **93j:94030**

Helleseth, Tor Legendre sums and codes related to QR codes. **93c:94006**

Homer, Steven *see* **Goldman, Jerry, 93g:94019**

Huffman, W. Cary (*with* Job, Vanessa R.; Pless, Vera S.) Multipliers and generalized multipliers of cyclic objects and cyclic codes. (English summary) **93m:94029**

Jensen, Jørn M. Cyclic concatenated codes with constacyclic outer codes. **93d:94021**

Job, Vanessa R. Some results on equivalence of cyclic codes. **93b:94026**

— *see also* **Huffman, W. Cary; et al., 93m:94029**

Landrock, Peter (*with* Manz, Olaf) Classical codes as ideals in group algebras. (English summary) **93i:94017**

Manz, Olaf *see* **Landrock, Peter, 93i:94017**

Maruta, Tatsuya A geometric approach to semi-cyclic codes. **93a:94031**

Montpetit, André *see* **Camion, Paul; et al., 93b:94024**

Owsley, P. *see* **Chen, J., 93i:94016**

Pless, Vera S. *see* **Huffman, W. Cary; et al., 93m:94029**

Rajan, B. Sundar (*with* Siddiqi, M. U.) Transform domain characterization of abelian codes. (English summary) **93g:94020**

Sagalovich, Yu. L. Partition of a vector space into orbits under the action of groups of automorphisms of certain codes. (Russian. Russian summary) **93h:94024**

Sendrier, Nicolas *see* **Augot, Daniel; et al., 93a:94030**

Siddiqi, M. U. *see* **Rajan, B. Sundar, 93g:94020**

Tzeng, K. K. *see* **Feng, Gui Liang; et al., 93b:94025**

Velikova, Evguenia On the covering radius of some binary cyclic codes. (English and Russian summaries)

Wei, Victor K. *see* **Feng, Gui Liang; et al., 93b:94025**

Yang, Yi Xian Enumeration results for the codewords having no inner periods in Reed-Solomon codes. **93h:94025**

Zimmermann, Karl-Heinz The weight distribution of indecomposable cyclic codes over 2-groups. **93e:94015**

Items with secondary classifications in 94B15

Calderbank, A. R. Covering machines. (English summary) **93j:94027**

Chepyzhov, V. V. New lower bounds for the minimal distance of linear quasicyclic and almost linear cyclic codes. (Russian) **93d:94015**

Clark, W. Edwin (*with* Dunning, Larry A.) Partial partitions of vector spaces arising from the construction of byte error control codes. (English summary) **93g:94012**

Dunning, Larry A. *see* **Clark, W. Edwin, 93g:94012**

Greenough, P. P. (*with* Hill, Raymond) Optimal ternary quasi-cyclic codes. **93d:94016**

Hill, Raymond *see* **Greenough, P. P., 93d:94016**

Koukouvinos, Christos *see* **Kounias, Stratis; et al., 93e:05006**

Kounias, Stratis (*with* Koukouvinos, Christos; Sotirakoglou, K.) On Golay sequences. **93e:05006**

Kuz'min, A. S. (*with* Nechaev, A. A.) Construction of noise-stable codes using linear recurrent sequences over Galois rings. (Russian) **93m:51010**

Nechaev, A. A. *see* **Kuz'min, A. S., 93m:51010**

Sotirakoglou, K. *see* **Kounias, Stratis; et al., 93e:05006**

94B20 Burst-correcting codes

Blaum, Mario (*with* Roth, Ron M.) New array codes for multiple phased burst correction. (English summary)

Evdokimov, A. A. Embedding of chains and cycles in a hypercube. I. (Russian) **93c:94007**

Roth, Ron M. *see* **Blaum, Mario**

van Tilborg, Henk C. A. Fire codes revisited. (English summary) **93d:94022**

Items with secondary classifications in 94B20

Berger, Thierry A direct proof for the automorphism group of Reed-Solomon codes. **93d:94020**

Chen, J. (*with* Owsley, P.) A burst-error-correcting algorithm for Reed-Solomon codes. (English summary) **93i:94016**

Kumar, P. Vijay (*with* Wei, Victor K.) Minimum distance of logarithmic and fractional partial m-sequences. (English summary) **93f:94002**

Owsley, P. *see* **Chen, J., 93i:94016**

Wei, Victor K. *see* **Kumar, P. Vijay, 93f:94002**

94B25 Combinatorial codes

Adams, C. M. (*with* Tavares, S. E.) Generating bent sequences. (English summary) **93f:94023**

Dodunekov, Stefan M. (*with* Encheva, S. B.) Uniqueness of some linear subcodes of the binary extended Golay code. (Russian. Russian summary) **93m:94030**

Encheva, S. B. *see* **Dodunekov, Stefan M., 93m:94030**

Hamada, Noboru (*with* Helleseth, Tor; Ytrehus, Øyvind) On the construction of $[q^4+q^2-q, 5, q^4-q^3+q^2-2q; q]$-codes meeting the Griesmer bound. (English summary) **93h:94026**

Helleseth, Tor *see* **Hamada, Noboru; et al., 93h:94026**

Hill, Raymond (*with* Newton, D. E.) Optimal ternary linear codes. **93h:94027**

Kratochvíl, Jan Perfect codes in general graphs. (Russian summary) **93f:94024**

Newton, D. E. *see* **Hill, Raymond, 93h:94027**

Pallo, J. M. Coding binary trees by words over an alphabet with four letters. (English summary) **93i:94018**

Simonis, Juriaan The [18, 9, 6] code is unique. (English summary) **93d:94023**

Spence, Edward (*with* Tonchev, Vladimir D.) Extremal self-dual codes from symmetric designs. (English summary) **93j:94031**

Tavares, S. E. *see* **Adams, C. M., 93f:94023**

Tonchev, Vladimir D. *see* **Spence, Edward, 93j:94031**

Ytrehus, Øyvind *see* **Hamada, Noboru; et al., 93h:94026**

Items with secondary classifications in 94B25

Assmus, E. F., Jr. (*with* Key, J. D.) ★ Designs and their codes. **93j:51003**
Bagchi, Bhaskar (*with* Brouwer, Andries; Wilbrink, H. A.) Notes on binary codes related to the $O(5, q)$ generalized quadrangle for odd q. **93e:51017**
Barg, A. M. At the dawn of the theory of codes. **93m:01041**
Behrendt, Gerhard Graph-perfect binary codes. (English summary) **93m:94023**
Brouwer, Andries (*with* Wilbrink, H. A.; Haemers, Willem H.) Some 2-ranks. (English summary) **93k:51006**
— *see also* **Bagchi, Bhaskar; et al., 93e:51017**
Ghafoor, Arif *see* **Solé, Patrick, 93e:05017**
Haemers, Willem H. *see* **Brouwer, Andries; et al., 93k:51006**
Key, J. D. *see* **Assmus, E. F., Jr., 93j:51003**
Negro, Alberto (*with* Sereno, Matteo) Ulam's searching game with three lies. (English summary) **93i:90129**
Sereno, Matteo *see* **Negro, Alberto, 93i:90129**
Shaw, Ronald A characterization of the primals in $PG(m, 2)$. (English summary) **93i:51020**
Solé, Patrick (*with* Ghafoor, Arif) The covering radius of doubled 2-designs in $2O_k$. **93e:05017**
Stinson, Douglas R. Combinatorial characterizations of authentication codes. **93d:94014**
Wilbrink, H. A. *see* **Bagchi, Bhaskar; et al., 93e:51017** *and* **Brouwer, Andries; et al., 93k:51006**

94B27 Geometric methods (including applications of algebraic geometry) [see also 11T71]

Abdurakhmanov, Zh. K. (*with* Pulatov, A. K.) Construction of perfect codes on convex polyhedra. (Russian)
Adney, Joseph E. *see* **Roseiro, Albert M.; et al., 93b:94027**
Assmus, E. F., Jr. On the Reed-Muller codes. (English summary) **93h:94028**
Chabanne, Hervé Permutation decoding of abelian codes. (English summary)
Cohen, Gérard Denis (*with* Litsyn, S. N.) On the covering radius of Reed-Muller codes. (English summary) **93e:94016**
Ehrhard, Dirk Decoding algebraic-geometric codes by solving a key equation. **93i:94019**
Feng, Gui Liang (*with* Rao, T. R. N.) Decoding algebraic-geometric codes up to the designed minimum distance. (English summary) **93m:94031**
García, Arnaldo (*with* Lax, R. F.) Goppa codes and Weierstrass gaps. **93m:94032**
van der Geer, Gerard (*with* van der Vlugt, Marcel) Weight distributions for a certain class of codes and maximal curves. (English summary) **93i:94020**
Hall, Jonathan I. *see* **Roseiro, Albert M.; et al., 93b:94027**
Hou, Xiang Dong Some inequalities about the covering radius of Reed-Muller codes. (English summary) **93g:94021**
Kurihara, Masazumi (*with* Mizuno, Hirobumi) Fast algorithm for finding an error locator function for algebraic-geometric codes from elliptic and hyperelliptic curves: $O(n^2)$. (Japanese. English summary) **93i:94021**
Lachaud, Gilles Artin-Schreier curves, exponential sums, and coding theory. **93a:94032**
Lax, R. F. *see* **García, Arnaldo, 93m:94032**
Le Brigand, Dominique Decoding of codes on hyperelliptic curves. **93a:94033**
Litsyn, S. N. *see* **Cohen, Gérard Denis, 93e:94016**
Matzat, B. Heinrich Kanonische Codes auf einigen Überdeckungskurven. (German summary) [Canonical codes on some covering curves] **93j:94032**
Mizuno, Hirobumi *see* **Kurihara, Masazumi, 93i:94021**
Moreno, Carlos J. (*with* Moreno, Oscar) Exponential sums and Goppa codes. II. **93g:94022**
Moreno, Oscar *see* **Moreno, Carlos J., 93g:94022**
Pellikaan, Ruud (*with* Shen, Ba Zhong; van Wee, G. J. M.) Which linear codes are algebraic-geometric? **93g:94023**
— *see also* **Porter, S. C.; et al., 93m:94033**
Porter, S. C. (*with* Shen, Ba Zhong; Pellikaan, Ruud) Decoding geometric Goppa codes using an extra place. (English summary) **93m:94033**
Pulatov, A. K. *see* **Abdurakhmanov, Zh. K.**
Rao, T. R. N. *see* **Feng, Gui Liang, 93m:94031**
Rentería, C. (*with* Tapia-Recillas, Horacio) A geometric code on an Artin-Schreier curve. **93c:94008**
— (*with* Tapia-Recillas, Horacio) Some Artin-Schreier codes and ideals. (English summary) **93m:94034**
Roseiro, Albert M. (*with* Hall, Jonathan I.; Adney, Joseph E.; Siegel, Marvin) The trace operator and redundancy of Goppa codes. **93b:94027**
Rotillon, D. (*with* Thiong Ly, J.-A.) Decoding of codes on the Klein quartic. **93b:94028**
Shen, Ba Zhong *see* **Pellikaan, Ruud; et al., 93g:94023** *and* **Porter, S. C.; et al., 93m:94033**
Shokrollahi, Mohammad Amin Beiträge zur Codierungs- und Komplexitätstheorie mittels algebraischer Funktionenkörper. [Contributions to coding and complexity theory by means of algebraic function fields] **93g:94024**
Siegel, Marvin *see* **Roseiro, Albert M.; et al., 93b:94027**
Skorobogatov, A. N. The parameters of subcodes of algebraic-geometric codes over prime subfields. **93e:94017**
Sørensen, Anders Bjært Weighted Reed-Muller codes and algebraic-geometric codes. (English summary) **93i:94022**
Tallini, Giuseppe Even type and odd type sets in a Steiner system and linear codes. **93h:94029**
Tapia-Recillas, Horacio *see* **Rentería, C., 93c:94008** *and* **93m:94034**
Thiong Ly, J.-A. *see* **Rotillon, D., 93b:94028**
Tsfasman, M. A. (*with* Vlăduț, Sergei G.) ★ Algebraic-geometric codes. **93i:94023**
— Algebraic-geometric codes and asymptotic problems. **93a:94034**
Vlăduț, Sergei G. *see* **Tsfasman, M. A., 93i:94023**
van der Vlugt, Marcel A new upper bound for the dimension of trace codes. **93d:94024**
— *see also* **van der Geer, Gerard, 93i:94020**
Voss, Conny Asymptotically good families of geometric Goppa codes and the Gilbert-Varshamov bound. **93a:94035**
van Wee, G. J. M. *see* **Pellikaan, Ruud; et al., 93g:94023**
Xing, Chao Ping Remarks on self-dual elliptic codes. **93a:94036**
— When are two geometric Goppa codes equal? **93c:94009**

Items with secondary classifications in 94B27

Aubry, Yves Reed-Muller codes associated to projective algebraic varieties. (English summary) **93g:11127**
Blokhuis, Aart (*with* Brouwer, Andries; Wilbrink, H. A.) Hermitian unitals are code words. **93b:51017**
Brouwer, Andries *see* **Blokhuis, Aart; et al., 93b:51017**
Chung, Fan R. K. (*with* Salehi, Jawad A.; Wei, Victor K.) Correction to: "Optical orthogonal codes: design, analysis, and applications" [IEEE Trans. Inform. Theory 35 (1989), no. 3, 595–604; MR 91g:94032].
van der Geer, Gerard (*with* van der Vlugt, Marcel) Reed-Muller codes and supersingular curves. I. **93k:14038**
— (*with* van der Vlugt, Marcel) Trace codes and families of algebraic curves. **93c:14023**
Hamada, Noboru (*with* Helleseth, Tor; Ytrehus, Øyvind) On the construction of $[q^4 + q^2 - q, 5, q^4 - q^3 + q^2 - 2q; q]$-codes meeting the Griesmer bound. (English summary) **93h:94026**
Helleseth, Tor *see* **Hamada, Noboru; et al., 93h:94026**
Kantor, William M. Kerdock codes and related planes. (English summary) **93i:51022**
Kschischang, Frank R. (*with* Pasupathy, Subbarayan) Some ternary and quaternary codes and associated sphere packings. **93a:94029**
Lachaud, Gilles Artin-Schreier curves, exponential sums, and the Carlitz-Uchiyama bound for geometric codes. **93c:11108**
Moreno, Carlos J. (*with* Moreno, Oscar) An improved Bombieri-Weil bound and applications to coding theory. (English summary) **93f:11047**
Moreno, Oscar *see* **Moreno, Carlos J., 93f:11047**
Munuera Gómez, Carlos On the main conjecture on geometric MDS codes. (English summary) **93g:94015**
Ozeki, Michio Quinary code construction of the Leech lattice. **93b:11084**
Pasupathy, Subbarayan *see* **Kschischang, Frank R., 93a:94029**
Pellikaan, Ruud On the gonality of curves, abundant codes and decoding. **93j:14023**
Salehi, Jawad A. *see* **Chung, Fan R. K.; et al.**
Schulze-Pillot, Rainer Quadratic residue codes and cyclotomic lattices. **93i:11078**
Shen, Ba Zhong ★ Algebraic-geometric codes and their decoding algorithm. (English. Dutch summary) **93g:94002**
(Stichtenoth, Henning) *see* **Coding theory and algebraic geometry, 93d:11002**
(Tsfasman, M. A.) *see* **Coding theory and algebraic geometry, 93d:11002**
van der Vlugt, Marcel *see* **van der Geer, Gerard, 93c:14023** *and* **93k:14038**
Wei, Victor K. *see* **Chung, Fan R. K.; et al.**
Wilbrink, H. A. *see* **Blokhuis, Aart; et al., 93b:51017**
Xing, Chao Ping Quadratic function fields and codes. **93b:11163**
Ytrehus, Øyvind *see* **Hamada, Noboru; et al., 93h:94026**

Items listed otherwise than by author

Coding theory and algebraic geometry ★ Coding theory and algebraic geometry. **93d:11002**
Lecture Notes in Mathematics ★ Coding theory and algebraic geometry. **93d:11002**
Luminy ★ Coding theory and algebraic geometry. **93d:11002**
Workshop:
Algebraic Geometry and Coding Theory ★ Coding theory and algebraic geometry. **93d:11002**

94B30 Majority codes

Items with secondary classifications in 94B30

Zimmermann, Karl-Heinz On a complete decoding scheme for binary radical codes. **93h:94022**

94B35 Decoding

Anderson, Jeffrey L. On minimal decoding sets for the extended binary Golay code. (English summary)
Arikan, Erdal *see* **Radosavljevic, Branko; et al.**
Blinovskiĭ, V. M. List decoding. (English summary) **93j:94033**
Capocelli, Renato M. (*with* De Santis, Alfredo; Gargano, Luisa; Vaccaro, Ugo) On the construction of statistically synchronizable codes. **93a:94037**
Chen, Xuemin *see* **Reed, Irving S.; et al., 93h:94031**
De Santis, Alfredo *see* **Capocelli, Renato M.; et al., 93a:94037**
Ferreira, Hendrik C. *see* **Helberg, Albertus S. J., 93m:94035**
Gargano, Luisa *see* **Capocelli, Renato M.; et al., 93a:94037**
Hajek, Bruce *see* **Radosavljevic, Branko; et al.**
He, Pei Yu *see* **Zhong, Guo Fa**
Helberg, Albertus S. J. (*with* Ferreira, Hendrik C.) On the complete decoding of constrained codes. (English summary) **93m:94035**
Humphreys, John F. Algebraic decoding of the ternary (13, 7, 5) quadratic residue code. **93h:94030**
Kasahara, Masao *see* **Morii, Masakatu, 93g:94025**
Logachev, A. S. A recursive algorithm for decoding some subsets of first-order Reed-Muller codes. (Russian. Russian summary) **93f:94025**
Lucanu, M. *see* **Munteanu, Valeriu; et al.**
Morii, Masakatu (*with* Kasahara, Masao) Generalized key-equation of remainder decoding algorithm for Reed-Solomon codes. (English summary) **93g:94025**
Munteanu, Valeriu (*with* Lucanu, M.; Păstrăvanu, Adriana) A new method for BCH binary codes decoding. (Romanian summary)
Păstrăvanu, Adriana *see* **Munteanu, Valeriu; et al.**
Pershakov, A. S. *see* **Sidel'nikov, V. M., 93j:94034**
Radosavljevic, Branko (*with* Arikan, Erdal; Hajek, Bruce) Sequential decoding of low-density parity-check codes by adaptive reordering of parity checks. (English summary)

Reed, Irving S. (*with* Truong, T. K.; Chen, Xuemin; Yin, Xiaowei) The algebraic decoding of the (41, 21, 9) quadratic residue code. **93h:94031**
Sidel'nikov, V. M. (*with* Pershakov, A. S.) Decoding Reed-Muller codes with a large number of errors. (Russian. Russian summary) **93j:94034**
Truong, T. K. *see* **Reed, Irving S.; et al., 93h:94031**
Vaccaro, Ugo *see* **Capocelli, Renato M.; et al., 93a:94037**
Xu, Wen Yuan (*with* Zhang, Zhao Zhi; Ye, Bai Qing) Estimating the code symbol metric for soft decision sequential decoding on a channel with additive white Gaussian noise. (Chinese. English summary)
Ye, Bai Qing *see* **Xu, Wen Yuan; et al.**
Yin, Xiaowei *see* **Reed, Irving S.; et al., 93h:94031**
Zhang, Zhao Zhi *see* **Xu, Wen Yuan; et al.**
Zhong, Guo Fa (*with* He, Pei Yu) Error-trapping decoding using duadic codes. (Chinese. English and Chinese summaries)

Items with secondary classifications in 94B35

Blaum, Mario *see* **Bruck, Jehoshua**
Bruck, Jehoshua (*with* Blaum, Mario) New techniques for constructing EC/AUED codes. (English summary)
Feng, Gui Liang (*with* Rao, T. R. N.) Decoding algebraic-geometric codes up to the designed minimum distance. (English summary) **93m:94031**
Huang, Ben Xiong (*with* Zhou, Xiao Mai; Xiong, Zhao Fei) Application of neural networks to soft-decision decoding for block error-correcting codes. (Chinese. English summary)
Johannesson, Rolf *see* **Zigangirov, K. Sh., 93j:94029**
Konopel'ko, V. K. Tabular low-density codes that correct modulus and burst error. (Russian. Russian summary) **93f:94016**
Landrock, Peter (*with* Manz, Olaf) Classical codes as ideals in group algebras. (English summary) **93i:94017**
Le Brigand, Dominique Decoding of codes on hyperelliptic curves. **93a:94033**
Manz, Olaf *see* **Landrock, Peter, 93i:94017**
Pallo, J. M. Coding binary trees by words over an alphabet with four letters. (English summary) **93i:94018**
Pellikaan, Ruud On decoding by error location and dependent sets of error positions. (English summary) **93h:94021**
Rao, T. R. N. *see* **Feng, Gui Liang, 93m:94031**
Rotillon, D. (*with* Thiong Ly, J.-A.) Decoding of codes on the Klein quartic. **93b:94028**
Thiong Ly, J.-A. *see* **Rotillon, D., 93b:94028**
Xiong, Zhao Fei *see* **Huang, Ben Xiong; et al.**
Zhou, Xiao Mai *see* **Huang, Ben Xiong; et al.**
Zigangirov, K. Sh. (*with* Johannesson, Rolf) A trellis coding scheme based on the splitting of the signal alphabet. (Russian. Russian summary) **93j:94029**
Zimmermann, Karl-Heinz On a complete decoding scheme for binary radical codes. **93h:94022**

94B40 Arithmetic codes [see also 11T71]

Lobstein, Antoine-C. On perfect arithmetic codes. (English summary) **93g:94026**

94B50 Synchronization error-correcting codes

Al-Bassam, Sulaiman (*with* Venkatesan, R.; Bose, Bella) Codes for detecting and correcting propagation errors. **93b:94029**
Bassalygo, L. A. (*with* Gel'fand, S. I.; Pinsker, M. S.) Bounds for codes with separately localized errors. (Russian) **93d:94025**
Blaum, Mario (*with* Litsyn, S. N.; Buskens, Vincent; van Tilborg, Henk C. A.) Error-correcting codes with bounded running digital sum. (English summary) **93m:94036**
Bose, Bella *see* **Al-Bassam, Sulaiman; et al., 93b:94029**
Buskens, Vincent *see* **Blaum, Mario; et al., 93m:94036**
Gel'fand, S. I. *see* **Bassalygo, L. A.; et al., 93d:94025**
Litsyn, S. N. *see* **Blaum, Mario; et al., 93m:94036**
Pinsker, M. S. *see* **Bassalygo, L. A.; et al., 93d:94025**
van Tilborg, Henk C. A. *see* **Blaum, Mario; et al., 93m:94036**
Venkatesan, R. *see* **Al-Bassam, Sulaiman; et al., 93b:94029**

Items with secondary classifications in 94B50

Komo, John J. *see* **Liu, Shyh-Chang, 93f:94013**
Liu, Shyh-Chang (*with* Komo, John J.) Nonbinary Kasami sequences over GF(p). **93f:94013**

94B60 Other types of codes

Amit, Yali (*with* Miller, Michael I.) Large deviations for the asymptotics of Ziv-Lempel codes for 2-D Gibbs fields.
Bassalygo, L. A. (*with* Pinsker, M. S.) Binary constant-weight codes that correct localized errors. (Russian. Russian summary) **93j:94035**
Blaum, Mario *see* **Bruck, Jehoshua**
Boekee, D. E. *see* **Weber, J. H.; et al., 93g:94030**
Bruck, Jehoshua (*with* Blaum, Mario) New techniques for constructing EC/AUED codes. (English summary)
Buza, M. K. (*with* Kan Sen Cher) On a normalized rank-free system in a residue code. (Russian. Russian summary)
Carlet, Claude The automorphism groups of the Kerdock codes. **93f:94026**
— A general case of formal duality between binary nonlinear codes. (English summary) **93m:94037**
Chung, Fan R. K. (*with* Salehi, Jawad A.; Wei, Victor K.) Correction to: "Optical orthogonal codes: design, analysis, and applications" [IEEE Trans. Inform. Theory **35** (1989), no. 3, 595–604; MR 91g:94032]. **93h:94032**
Diaconis, Persi (*with* Graham, R. L.) Binomial coefficient codes over GF(2). (English summary) **93i:94024**
Ericson, Thomas H. E. (*with* Zinov'ev, V. A.) On spherical codes generating the kissing number in dimensions 8 and 24. (English summary) **93g:94027**
— *see also* **Zinov'ev, V. A., 93f:94028**
Etzion, Tuvi Optimal codes for correcting single errors and detecting adjacent errors.
— (*with* Greenberg, Gadi) Constructions for perfect mixed codes and other covering codes. (English summary) **93m:94038**
Forney, G. David, Jr. On the Hamming distance properties of group codes. (English summary) **93j:94036**
Fredricksen, Harold Gray codes and the Thue-Morse-Hedlund sequence. **93a:94038**
Graham, R. L. *see* **Diaconis, Persi, 93i:94024**
Greenberg, Gadi *see* **Etzion, Tuvi, 93m:94038**
Haemers, Willem H. (*with* Parker, Christopher; Pless, Vera S.; Tonchev, Vladimir D.) A design and a code invariant under the simple group Co_3. (English summary) **93m:94039**
Huffman, W. Cary On extremal self-dual ternary codes of lengths 28 to 40. **93b:94030**
Imanishi, Shigeru *see* **Muranaka, Noriaki**
Kan Sen Cher *see* **Buza, M. K.**
Kaplan, Michael A. A class of cosets of second order Reed-Muller codes. (*see* **93m:00040**)
Krokos, Alexandros *see* **Nikolos, Dimitris, 93b:94031**
Lam, C. W. H. (*with* Thiel, Larry Henry; Pautasso, A.) On ternary codes generated by Hadamard matrices of order 24. (English summary) **93k:94010**
de Launey, Warwick A note on n-dimensional Hadamard matrices of order 2^t and Reed-Muller codes. **93a:94039**
Leon, Jeffrey S. *see* **Pless, Vera S.; et al., 93m:94040**
Miller, Michael I. *see* **Amit, Yali**
Mohan, Seshadri *see* **Varghese, Matthew, 93m:94042**
Mohanty, Supriya *see* **Satyanarayana, M., 93f:94027**
Monti, Carlo M. (*with* Viaro, Umberto) State observation and error detection analysis in finite automata for coding systems. (English summary)
Muranaka, Noriaki (*with* Imanishi, Shigeru) Design of a ternary coding scheme and of single-error-correcting ternary Hamming codes. (English summary)
Neumaier, Arnold Completely regular codes. (English summary) **93g:94028**
Nikolos, Dimitris (*with* Krokos, Alexandros) Theory and design of t-error correcting, k-error detecting and d-unidirectional error detecting codes with $d > k > t$. **93b:94031**
Parker, Christopher *see* **Haemers, Willem H.; et al., 93m:94039**
Pautasso, A. *see* **Lam, C. W. H.; et al., 93k:94010**
Pinsker, M. S. *see* **Bassalygo, L. A., 93j:94035**
Pless, Vera S. (*with* Tonchev, Vladimir D.; Leon, Jeffrey S.) On the existence of a certain (64, 32, 12) extremal code. (English summary) **93m:94040**
— *see also* **Haemers, Willem H.; et al., 93m:94039**
Retter, Charles T. Gaps in the binary weight distributions of Reed-Solomon codes. (English summary) **93h:94032**
Ruiz, Mari-Jo P. The Mariner code. **93m:94041**
Salehi, Jawad A. *see* **Chung, Fan R. K.; et al.**
Satyanarayana, M. (*with* Mohanty, Supriya) Limited semaphore codes. **93f:94027**
Thiel, Larry Henry *see* **Lam, C. W. H.; et al., 93k:94010**
Tonchev, Vladimir D. *see* **Haemers, Willem H.; et al., 93m:94039** *and* **Pless, Vera S.; et al., 93m:94040**
Tsai, Han Ping Existence of some extremal self-dual codes. (English summary) **93g:94029**
Varghese, Matthew (*with* Mohan, Seshadri) Tree coding and IFS fractals. (English summary) **93m:94042**
Viaro, Umberto *see* **Monti, Carlo M.**
de Vroedt, Cornelis *see* **Weber, J. H.; et al., 93g:94030**
Weber, J. H. (*with* de Vroedt, Cornelis; Boekee, D. E.) Necessary and sufficient conditions on block codes correcting/detecting errors of various types. (English summary) **93g:94030**
Wei, Victor K. *see* **Chung, Fan R. K.; et al.**
Zinov'ev, V. A. (*with* Ericson, Thomas H. E.) New packings on a Euclidean sphere for finite dimensions. (Russian. Russian summary) **93f:94028**
— *see also* **Ericson, Thomas H. E., 93g:94027**

Items with secondary classifications in 94B60

Carlet, Claude Les groupes d'automorphismes des codes de Delsarte-Goethals. (English and French summaries) [The automorphism groups of Delsarte-Goethals codes] **93f:94015**
Clarke, Francis The Gray code function. **93i:11143**
Cummings, Larry J. Gray arrays and Gray tori. **93c:11110**
Etzion, Tuvi Partitions of triples into optimal packings. **93h:05048**
Ferdinand, Christian (*with* Seidl, Helmut; Wilhelm, Reinhard) Baumautomaten zur Codeselektion. (German summary) [Tree automata for code selection] **93e:94012**
Ghafoor, Arif *see* **Solé, Patrick; et al., 93h:94035**
Ito, Masami[1] (*with* Jürgensen, Helmut; Shih, Hui Jan; Thierrin, G.) Languages whose n-element subsets are codes. **93f:68059**
Jürgensen, Helmut *see* **Ito, Masami[1]; et al., 93f:68059**
Katsura, Masashi (*with* Tanaka, Genjiro) Groups of finite elementary codes. **93e:94007**
Kløve, Torleiv Optimal codes for error detection. **93b:94033**
Mohanty, Supriya *see* **Satyanarayana, M., 93j:20124**
Rodier, François On the spectra of the duals of binary BCH codes of designed distance $\delta = 9$. **93a:94041**
Satyanarayana, M. (*with* Mohanty, Supriya) Uniformly synchronous limited codes. **93j:20124**
Seidl, Helmut *see* **Ferdinand, Christian; et al., 93e:94012**
Sheikh, Sohail A. *see* **Solé, Patrick; et al., 93h:94035**
Shih, Hui Jan *see* **Ito, Masami[1]; et al., 93f:68059**
Solé, Patrick (*with* Ghafoor, Arif; Sheikh, Sohail A.) The covering radius of Hadamard codes in odd graphs. (English summary) **93h:94035**
Tanaka, Genjiro *see* **Katsura, Masashi, 93e:94007**
Thierrin, G. *see* **Ito, Masami[1]; et al., 93f:68059**
Wilhelm, Reinhard *see* **Ferdinand, Christian; et al., 93e:94012**
Zhang, Wen Long Several fixed length RLL codes decodable by sliding blocks. (Chinese. English and Chinese summaries)

94B65 Bounds on codes

Be'ery, Yair *see* **Berger, Yuval, 93m:94043**
Berger, Yuval (*with* Be'ery, Yair) Bounds on the trellis size of linear block codes. (English summary) **93m:94043**
Bhandari, M. C. (*with* Garg, M. S.) Optimum codes of dimension 3 and 4 over GF(4). (English summary) **93g:94031**
Boyvalenkov, Peter Nonexistence of certain symmetric spherical codes. (English summary) **93m:94044**
Calderbank, A. R. Covering bounds for codes. **93a:94040**
Garg, M. S. *see* **Bhandari, M. C., 93g:94031**
Helleseth, Tor Projective codes meeting the Griesmer bound. (English summary) **93m:94045**
Kumar, P. Vijay *see* **Patapoutian, Ara**
Marcus, Brian H. (*with* Roth, Ron M.) Improved Gilbert-Varshamov bound for constrained systems. **93b:94032**
Patapoutian, Ara (*with* Kumar, P. Vijay) The (d, k) subcode of a linear block code.
Pilz, G. F. Codes, block designs, Frobenius groups, and near-rings. (English summary) **93j:94037**
Rodier, François On the spectra of the duals of binary BCH codes of designed distance $\delta = 9$. **93a:94041**
Roth, Ron M. *see* **Marcus, Brian H., 93b:94032**
Shen, Ba Zhong A Justesen construction of binary concatenated codes that asymptotically meet the Zyablov bound for low rate. (English summary) **93m:94046**
Xia, Xiang Gen *see* **Zhang, Zhen, 93e:94018**
Zhang, Zhen (*with* Xia, Xiang Gen) New lower bounds for binary codes of asymmetric distance two. (English summary) **93e:94018**

Items with secondary classifications in 94B65

Calderbank, A. R. (*with* Pottie, G. J.) Upper bounds for small trellis codes. (English summary) **93g:94018**
Cohen, Gérard Denis *see* **Zémor, Gilles, 93h:68115**
Daskalov, Rumen N. (*with* Kapralov, Stoyan N.) New minimum distance bounds for certain binary linear codes. (English summary) **93g:94013**
García, Arnaldo (*with* Lax, R. F.) Goppa codes and Weierstrass gaps. **93m:94032**
Hamada, Noboru (*with* Helleseth, Tor) On a characterization of some minihypers in PG(t, q) ($q = 3$ or 4) and its applications to error-correcting codes. (English summary) **93j:51006**
Helleseth, Tor (*with* Kløve, Torleiv; Ytrehus, Øyvind) Generalized Hamming weights of linear codes. **93a:94028**
— *see also* **Hamada, Noboru, 93j:51006**
Kapralov, Stoyan N. *see* **Daskalov, Rumen N., 93g:94013**
Kløve, Torleiv *see* **Helleseth, Tor; et al., 93a:94028**
Lax, R. F. *see* **García, Arnaldo, 93m:94032**
Levenshtein, V. I. Designs as maximum codes in polynomial metric spaces. (English summary) **93j:05012**
Lo, Chiaming *see* **Zhang, Zhen, 93m:94048**
Negro, Alberto (*with* Sereno, Matteo) Ulam's searching game with three lies. (English summary) **93i:90129**
Pottie, G. J. *see* **Calderbank, A. R., 93g:94018**
Sereno, Matteo *see* **Negro, Alberto, 93i:90129**
Ytrehus, Øyvind *see* **Helleseth, Tor; et al., 93a:94028**
Zémor, Gilles (*with* Cohen, Gérard Denis) Application of coding theory to interconnection networks. (English summary) **93h:68115**
Zhang, Zhen (*with* Lo, Chiaming) Linear inequalities for covering codes. II. Triple covering inequalities. (English summary) **93m:94048**

94B70 Error probability

Chao, Chi Chao (*with* McEliece, Robert J.; Swanson, Laif; Rodemich, Eugene R.) Performance of binary block codes at low signal-to-noise ratios. (English summary) **93h:94033**
Kløve, Torleiv Optimal codes for error detection. **93b:94033**
McEliece, Robert J. *see* **Chao, Chi Chao; et al., 93h:94033**
Rodemich, Eugene R. *see* **Chao, Chi Chao; et al., 93h:94033**
Swanson, Laif *see* **Chao, Chi Chao; et al., 93h:94033**

94B75 Applications of the theory of convex sets and geometry of numbers (covering radius, etc.) [see also 11H31]

Ghafoor, Arif *see* **Solé, Patrick; et al., 93h:94035**
Hamada, Noboru (*with* Helleseth, Tor) A characterization of some $\{2v_{\alpha+1} + v_{\gamma+1}, 2v_\alpha + v_\gamma; k-1, 3\}$-minihypers and some $(n, k, 3^{k-1} - 2 \cdot 3^\alpha - 3^\gamma; 3)$-codes ($k \geq 3$, $0 \leq \alpha < \gamma < k-1$) meeting the Griesmer bound. **93f:94029**
Helleseth, Tor *see* **Hamada, Noboru, 93f:94029**
Honkala, Iiro On lengthening of covering codes. (English summary) **93h:94034**
Lahtonen, Jyrki An optimal polynomial for a covering radius problem. (English summary) **93g:94032**
Langevin, Philippe Covering radius of RM(1, 9) in RM(3, 9). **93c:94010**
Lo, Chiaming *see* **Zhang, Zhen, 93m:94048**
Sheikh, Sohail A. *see* **Solé, Patrick; et al., 93h:94035**
Solé, Patrick On the parameters of codes for the Lee and modular distance. **93a:94042**
— (*with* Ghafoor, Arif; Sheikh, Sohail A.) The covering radius of Hadamard codes in odd graphs. (English summary) **93h:94035**
Stokes, Philip The domain of covering codes. (English summary) **93m:94047**
Zhang, Zhen Linear inequalities for covering codes. I. Pair covering inequalities. **93d:94026**
— (*with* Lo, Chiaming) Linear inequalities for covering codes. II. Triple covering inequalities. (English summary) **93m:94048**

Items with secondary classifications in 94B75

(Bannai, Eiichi) *see* **Conway, J. H., 93h:11069**
(Borcherds, R. E.) *see* **Conway, J. H., 93h:11069**
Conway, J. H. (*with* Sloane, N. J. A.) ★ Sphere packings, lattices and groups. **93h:11069**
Ghafoor, Arif *see* **Solé, Patrick, 93e:05017**
Kapur, J. N. A note on coding theorems of information theory. **93b:94017**
(Leech, John) *see* **Conway, J. H., 93h:11069**
(Norton, S. P.) *see* **Conway, J. H., 93h:11069**
(Odlyzko, Andrew M.) *see* **Conway, J. H., 93h:11069**
(Parker, Richard A.) *see* **Conway, J. H., 93h:11069**
(Queen, L.) *see* **Conway, J. H., 93h:11069**
Sloane, N. J. A. *see* **Conway, J. H., 93h:11069**
Solé, Patrick (*with* Ghafoor, Arif) The covering radius of doubled 2-designs in $2\mathcal{O}_k$. **93e:05017**
(Venkov, B. B.) *see* **Conway, J. H., 93h:11069**

94B99 None of the above, but in this section

Aarts, Emile H. L. (*with* van Laarhoven, Peter J. M.) Local search in coding theory. (English summary) **93h:94036**
van Laarhoven, Peter J. M. *see* **Aarts, Emile H. L., 93h:94036**
Lin, Dong Dai (*with* Liu, Mu Lan) Syntheses of arrays. (English summary) **93m:94049**
Liu, Mu Lan *see* **Lin, Dong Dai, 93m:94049**
Wu, Xiaolin Image coding by adaptive tree-structured segmentation. (English summary)

Items with secondary classifications in 94B99

Lazarev, A. G. Group-theoretic bases of methods for information transformation. (Russian. English and Ukrainian summaries) **93j:94025**
Sharma, Bhu Dev (*with* Sookoo, Norris) Association and other schemes related to Sharma-Kaushik class of distances over finite rings. (English summary) **93f:05105**
Sookoo, Norris *see* **Sharma, Bhu Dev, 93f:05105**

94Cxx Circuits, networks

Marinov, Corneliu A. (*with* Neittaanmäki, Pekka) ★ Mathematical models in electrical circuits: theory and applications. **93h:94037**
Neittaanmäki, Pekka *see* **Marinov, Corneliu A., 93h:94037**

94C05 Analytic circuit theory

Abramovich, Yu. I. *see* **Arov, D. Z., 93j:94038**
Anishchenko, V. S. (*with* Safonova, M. A.; Chua, Leon O.) Stochastic resonance in Chua's circuit. (English summary)
Arov, D. Z. (*with* Abramovich, Yu. I.) Realization of arbitrary rational matrix-function as the transfer function of passive ladder filter. (English summary) **93j:94038**
Brooks, R. L. (*with* Smith, C. A. B.; Stone, A. H.; Tutte, William T.) Determinants and current flows in electric networks. **93c:94011**
Bun', R. A. (*with* Vasil'ev, E. D.; Semotyuk, V. N.) ★ Моделирование электрических цепей методом подсхем. (Russian. Russian summary) [Modeling electrical circuits by the subscheme method] **93m:94050**
Chua, Leon O. *see* **Anishchenko, V. S.; et al.** *and* **Pérez-Muñuzuri, V.; et al.**
Dorband, John E. *see* **Raadhakrishnan, Poovendran; et al., 93k:94011**
Hasler, Martin Topological methods for the qualitative analysis of nonlinear circuits. (English summary) (*see* **93g:93006**)
Kampowsky, Wilfried (*with* Rentrop, Peter; Schmidt, Walter) Classification and numerical simulation of electric circuits. (English summary) **93h:94038**
Li, Ling Yuan Four-valued logic and an analysis of competition and risk in digital circuits. (Chinese. English and Chinese summaries)
Li, Ming^5 (*with* Wu, Yong Shi^2) Realizability and synthesis methods for semiuniform frequency-dependent lossy broadband matching networks. (Chinese. English and Chinese summaries)
Lin, Dong Dai *see* **Liu, Mu Lan, 93d:94027**
Liu, Mu Lan (*with* Lin, Dong Dai) Enumeration of linear recurring m-arrays. **93d:94027**
Lu, Xin Ming Properties and solutions of a class of nonlinear power network equations and their applications. (Chinese. English summary)
Pérez-Muñuzuri, V. (*with* Pérez-Villar, V.; Chua, Leon O.) Propagation failure in linear arrays of Chua's circuits. (English summary)
Pérez-Villar, V. *see* **Pérez-Muñuzuri, V.; et al.**
Raadhakrishnan, Poovendran (*with* Yagle, Andrew E.; Rao, B. V.; Dorband, John E.) On upper bounds of the equivalent oscillator and notch-filter circuits: a noncommutative group-theoretic approach. (English summary) **93k:94011**
Rao, B. V. *see* **Raadhakrishnan, Poovendran; et al., 93k:94011**
Rentrop, Peter *see* **Kampowsky, Wilfried; et al., 93h:94038**
Safonova, M. A. *see* **Anishchenko, V. S.; et al.**
Schlesinger, E. Infinite networks and Markov chains. (Italian summary) **93m:94051**
Schmidt, Walter *see* **Kampowsky, Wilfried; et al., 93h:94038**
Semotyuk, V. N. *see* **Bun', R. A.; et al., 93m:94050**
Smith, C. A. B. *see* **Brooks, R. L.; et al., 93c:94011**
Stone, A. H. *see* **Brooks, R. L.; et al., 93c:94011**
Sun, Shi Qian (*with* Wu, Zhi Hong) Potential functions in nonlinear LC networks and Lagrange equations. (Chinese. English and Chinese summaries) **93m:94052**
Tutte, William T. *see* **Brooks, R. L.; et al., 93c:94011**
Vasil'ev, E. D. *see* **Bun', R. A.; et al., 93m:94050**
Wu, Yong Shi^2 *see* **Li, Ming^5**
Wu, Zhi Hong *see* **Sun, Shi Qian, 93m:94052**
Yagle, Andrew E. *see* **Raadhakrishnan, Poovendran; et al., 93k:94011**
Yamamura, Kiyotaka On piecewise-linear approximation of nonlinear mappings containing Gummel-Poon models or Shichman-Hodges models. (English summary) **93k:94012**
Zemanian, Armen H. Transfinite resistive networks. (English summary) **93d:94028**

— ★ Infinite electrical networks. **93b:94034**

Zhou, Su Quan Semi-indefinite admittance matrices and their application. (Chinese. English and Chinese summaries)

Items with secondary classifications in 94C05

Archdeacon, Dan The medial graph and voltage-current duality. **93i:05051**

Boyar, Joan (*with* Frandsen, Gudmund; Sturtivant, Carl) An arithmetic model of computation equivalent to threshold circuits. **93f:68023**

Chen, Jun *see* **Yang, Shu Kong**

Franco, John Probabilistic analysis of algorithms for stuck-at test generation in PLAs. **93c:68008**

Frandsen, Gudmund *see* **Boyar, Joan; et al., 93f:68023**

Freire Macías, Emilio (*with* Rodríguez-Luis, A. J.; Gamero, E.; Ponce, E.) A case study for homoclinic chaos in an autonomous electronic circuit. A trip from Takens-Bogdanov to Hopf-Šil'nikov. (English summary) **93m:58071**

Gamero, E. *see* **Freire Macías, Emilio; et al., 93m:58071**

Genesio, R. (*with* Tesi, Alberto) A harmonic balance approach for chaos prediction: Chua's circuit. **93e:58128**

Hell, Pavol *see* **de Werra, D.; et al., 93i:68031**

Horiuchi, Kazuo *see* **Makino, Mitsunori; et al., 93b:65078**

Jin, Jun Topological structure of the singular points of the third order phase locked loop equations with the character of detected phase being $g(\varphi) = (1 + k)\sin\varphi/(1 + k\cos\varphi)$. (Chinese. English and Chinese summaries)

Kameda, Tsunehiko *see* **de Werra, D.; et al., 93i:68031**

Kashiwagi, Masahide *see* **Makino, Mitsunori; et al., 93b:65078**

Katoh, Naoki *see* **de Werra, D.; et al., 93i:68031**

Kudrewicz, Jacek ★ Dynamika pętli fazowej. (Polish) [Dynamics of phase-locked loops] **93c:34082**

Li, Gyun Y Inversion of Toeplitz matrices and the determination of impulse reactions of discrete electric transmission lines without loss. (Russian. Russian summary) **93g:94004**

Luca, Rodica (*with* Moroşanu, Gheorghe) Hyperbolic problems in integrated circuits modelling. **93k:35162**

Makino, Mitsunori (*with* Oishi, Shin'ichi; Kashiwagi, Masahide; Horiuchi, Kazuo) Computational complexity of the homotopy method for calculating solutions of strongly monotonic resistive circuit equations. **93b:65078**

Marenich, E. E. On the number of bipolar sequential-parallel networks of different type. (Russian. Russian summary) (*see* **93m:00032**)

Marinov, Corneliu A. (*with* Neittaanmäki, Pekka; Santanen, Jukka-Pekka) Bounds for the solution of a system of parabolic equations arising in circuit theory. (English summary) **93j:35090**

Moroşanu, Gheorghe *see* **Luca, Rodica, 93k:35162**

Neittaanmäki, Pekka *see* **Marinov, Corneliu A.; et al., 93j:35090**

Oishi, Shin'ichi *see* **Makino, Mitsunori; et al., 93b:65078**

Ponce, E. *see* **Freire Macías, Emilio; et al., 93m:58071**

Rodríguez-Luis, A. J. *see* **Freire Macías, Emilio; et al., 93m:58071**

Santanen, Jukka-Pekka *see* **Marinov, Corneliu A.; et al., 93j:35090**

Schättler, Heinz M. *see* **Venkatasubramanian, V.; et al.**

Soardi, Paolo M. Parabolic networks and polynomial growth. **93g:94017**

Solot, Ph. *see* **de Werra, D.; et al., 93i:68031**

Sturtivant, Carl *see* **Boyar, Joan; et al., 93f:68023**

Tesi, Alberto *see* **Genesio, R., 93e:58128**

Venkatasubramanian, V. (*with* Schättler, Heinz M.; Zaborszky, J.) Voltage dynamics: study of a generator with voltage control, transmission, and matched MW load. (English summary)

de Werra, D. (*with* Hell, Pavol; Kameda, Tsunehiko; Katoh, Naoki; Solot, Ph.; Yamashita, Masafumi) Graph endpoint coloring and distributed processing. (English summary) **93i:68031**

Yamashita, Masafumi *see* **de Werra, D.; et al., 93i:68031**

Yang, Shu Kong (*with* Chen, Jun) Periodic bifurcation and chaotic behavior of UJT forced oscillation circuits. (Chinese. English and Chinese summaries)

Zaborszky, J. *see* **Venkatasubramanian, V.; et al.**

94C10 Switching theory, application of Boolean algebra; Boolean functions [see also 06E30]

Akella, Ram (*with* Rajagopalan, S.; Singh, Medini R.) Part dispatch in random yield multistage flexible test systems for printed circuit boards. (English summary)

Alekhina, M. A. Reliability of schemes in the basis $\{x \& y, x \vee y, \overline{x}\}$ with one-type constant faults on the element outputs. (Russian)

Booth, David Douglas Logical feedback. **93h:94039**

Chua, Leon O. *see* **Feely, Orla**

Ermilov, V. A. Modeling digital circuits taking into account the dependence of indeterminate signals. (Russian. Russian summary) **93d:94029**

Feely, Orla (*with* Chua, Leon O.) Nonlinear dynamics of a class of analog-to-digital converters. (English summary)

Garlauskas, Algis (*with* Shimoliunas, Algirdas; Gutman, Aron) Some logic functions realized on a stationary nonlinear dendrite. I. Exciting synapses. (English, Russian and Lithuanian summaries)

Grinchuk, M. I. Complexity of realization of symmetric Boolean functions by switching circuits. (Russian) **93a:94043**

Gutman, Aron *see* **Garlauskas, Algis; et al.**

Halpenny, Liam (*with* Smyth, Christopher J.) A classification of minimal standard-path 2×2 switching networks. **93e:94019**

Hollmann, H. D. L. (*with* van Lint, J. H., Jr.) Nonblocking self-routing switching networks. (English summary) **93g:94033**

Hu, Mou A multiple-valued algebra for modeling MOS VLSI circuits at switch-level.

Hu, Xiao Dong (*with* Hwang, F. K.) An improved upper bound for the subarray partial concentrators. (English summary) **93g:94034**

Hwang, F. K. *see* **Hu, Xiao Dong, 93g:94034**

(Khrapchenko, V. M.) *see* **Nigmatullin, R. G., 93e:94021**

Koshkin, M. A. *see* **Lozhkin, S. A., 93e:94020**

Kuku, I. V. (*with* Ratsa, M. F.) Parametric completeness in the logic of the simplest pseudo-Boolean algebra with incomparable elements. (Russian. English, Russian and Moldavian summaries)

Kundu, Snehamay Basis sets for synthesis of switching functions. **93a:94044**

(Kuznetsov, S. E.) *see* **Nigmatullin, R. G., 93e:94021**

van Lint, J. H., Jr. *see* **Hollmann, H. D. L., 93g:94033**

Lozhkin, S. A. (*with* Koshkin, M. A.) On the complexity of realization of certain systems of Boolean functions by switching and generalized switching circuits. (Russian) **93e:94020**

Lui, P. K. (*with* Muzio, J. C.) Boolean matrix transforms for the minimization of modulo-2 canonical expansions. **93a:94045**

Miller, Richard K. (*with* Unterreiter, Andreas) Switching behavior of PN-diodes: Volterra integral equation models. **93f:94030**

Mizutani, Hikaru *see* **Suetsugu, Tadashi; et al.**

Mori, Shinsaku *see* **Suetsugu, Tadashi; et al.**

Muzio, J. C. *see* **Lui, P. K., 93a:94045**

Nigmatullin, R. G. ★ Сложность булевых функций. (Russian) [Complexity of Boolean functions] **93e:94021**

(Nurmeev, N.) *see* **Nigmatullin, R. G., 93e:94021**

Rajagopalan, S. *see* **Akella, Ram; et al.**

Ratsa, M. F. *see* **Kuku, I. V.**

Rychkov, K. L. Minimal π-schemes for linear Boolean functions. (Russian. Russian summary) **93h:94040**

Shimoliunas, Algirdas *see* **Garlauskas, Algis; et al.**

Singh, Medini R. *see* **Akella, Ram; et al.**

Smyth, Christopher J. *see* **Halpenny, Liam, 93e:94019**

Suetsugu, Tadashi (*with* Mori, Shinsaku; Mizutani, Hikaru; Tanaka, Mamoru) Switched network analysis based on final value theorem of Laplace transform. (English summary)

Tanaka, Mamoru *see* **Suetsugu, Tadashi; et al.**

Tarazevich, Yu. G. Realization of a linear function by plane switching circuits and by circuits on a plane integral lattice. (Russian) **93d:94030**

— Complexity of the realization of multipoles by plane switching circuits. (Russian)

Unterreiter, Andreas *see* **Miller, Richard K., 93f:94030**

Yamamoto, Yoshinori Definition of the fuzzy threshold function and its application: an application of new switching functions defined on an extended infinite multiple-valued logic to approximate reasoning and process control. (English summary)

Zuev, Yu. A. Combinatorial-probability and geometric methods in threshold logic. (Russian) **93d:94031**

Items listed otherwise than by author

Bibliography:
Nigmatullin, R. G. *see* **Nigmatullin, R. G., 93e:94021**

Biography:
Nigmatullin, R. G. *see* **Nigmatullin, R. G., 93e:94021**

Items with secondary classifications in 94C10

Aleksanyan, A. A. ★ Дизъюнктивные нормальные формы над линейными функциями. (Russian) [Disjunctive normal forms over linear functions] **93h:06024**

Aoki, Takafumi (*with* Kameyama, Michitaka; Higuchi, Tatsuo) Design of an ultrahigher-valued biocomputing system based on set-valued logic networks. (English summary)

Brown, Frank Markham ★ Boolean reasoning. **93c:03009**

Bruck, Jehoshua (*with* Smolensky, Roman) Polynomial threshold functions, AC^0 functions, and spectral norms. **93a:68053**

Bushnell, Michael L. *see* **Chakradhar, Srimat T., 93d:90041**

Chakradhar, Srimat T. (*with* Bushnell, Michael L.) A solvable class of quadratic 0-1 programming. **93d:90041**

Chan, Mee Yee Embedding of grids into optimal hypercubes. **93c:68003**

Chasovskikh, A. A. Completeness in the class of linear automata. (Russian) **93b:03063**

Clausen, Michael Almost all Boolean functions have no linear symmetries. **93d:68022**

Evdokimov, A. A. Embedding of chains and cycles in a hypercube. I. (Russian) **93c:94007**

Gelenbe, Erol Une généralisation probabiliste du problème SAT. (English and French summaries) [A probabilistic generalization of the SAT problem] **93i:68086**

Goldmann, Mikael (*with* Håstad, Johan) A simple lower bound for monotone clique using a communication game. **93a:68115**

Graham, C. Robin (*with* Méléard, Sylvie) Propagation of chaos for a fully connected loss network with alternate routing. (English summary) **93h:60163**

Gurvich, V. A. Criteria for nonrepetitiveness of truth functions. (Russian) **93a:06014**

Håstad, Johan *see* **Goldmann, Mikael, 93a:68115**

Higuchi, Tatsuo *see* **Aoki, Takafumi; et al.**

Kameyama, Michitaka *see* **Aoki, Takafumi; et al.**

Korshunov, A. D. Minimal tests for binary rectangular and cylindrical tables with distributed blocks of units. (Russian) **93e:94022**

Lloyd, Sheelagh Characterising and counting functions satisfying the strict avalanche criterion of order $(n - 3)$. **93c:94003**

Luo, Chuan Ping A new method for processing compressions of computer image operators—simplification of multivalued logic functions. (Chinese. English and Chinese summaries)

Marchenkov, S. S. (*with* Ugol'nikov, A. B.) ★ Замкнутые классы булевых функций. (Russian) [Closed classes of Boolean functions] **93a:06015**

Méléard, Sylvie *see* **Graham, C. Robin, 93h:60163**

Radhakrishnan, Jaikumar Better bounds for threshold formulas. (English summary) (*see* **93d:68005**)

Reif, John H. (*with* Tate, Stephen R.) On threshold circuits and polynomial computation. (English summary) **93i:68091**

Smolensky, Roman *see* **Bruck, Jehoshua, 93a:68053**

Strzemecki, Tadeusz Polynomial-time algorithms for generation of prime implicants. **93e:68028**

Tate, Stephen R. *see* **Reif, John H., 93i:68091**

Timoshkin, A. I. The problem of constructing reduced disjunctive normal forms of Boolean functions from the standpoint of lattice theory. (Russian. English and Lithuanian

summaries) **93b:06029**
Ugol'nikov, A. B. *see* **Marchenkov, S. S., 93a:06015**
Venkateswaran, H. Circuit definitions of nondeterministic complexity classes. **93g:68048**

94C12 Fault detection; testing

Basu, Sankar (*with* Fontaine, Fred L.) Formal power series representation of lossless distributed multiports in terms of Padé approximants. **93c:94012**
Camarda, Pietro (*with* Gerla, Mario) Design and analysis of fault-tolerant multibus interconnection networks. (English summary)
de Cambry, Olivier A new method for studying some statistical failure-detection algorithm. (English summary)
Chen, Jonq Chyuan *see* **Wang, Shun Hsiang**
Colbourn, Charles J. (*with* Harms, Daryl D.; Myrvold, Wendy J.) Reliability polynomials can cross twice. (English summary) **93m:94053**
Davydov, V. A. Codes for correcting defects. (Russian. Russian summary) **93m:94054**
Fontaine, Fred L. *see* **Basu, Sankar, 93c:94012**
Gerla, Mario *see* **Camarda, Pietro**
Gordon, Jesse M. Analysis of minimal path routing schemes in the presence of faults. (English summary) **93f:94031**
Harms, Daryl D. *see* **Colbourn, Charles J.; et al., 93m:94053**
Hayashi, Masahiro Network reliability analysis using dual graph. **93a:94046**
Huang, Dong Quan (*with* Ye, Feng; Yang, Zu Ying) Topological conditions for fault diagnosability at subnetwork-level. (English summary) **93i:94025**
Kolev, Lubomir V. Approximate solution of a transient tolerance problem for linear circuits. (English summary) **93k:94013**
Korshunov, A. D. Minimal tests for binary rectangular and cylindrical tables with distributed blocks of units. (Russian) **93e:94022**
Mattson, H. F., Jr. Fault-detection in networks. (English summary) **93f:94032**
Myrvold, Wendy J. *see* **Colbourn, Charles J.; et al., 93m:94053**
Sparmann, Uwe Derivation of high quality tests for large heterogeneous circuits: floating-point operations. (English summary) **93j:94039**
Stolov, E. L. Exhaustive testing and signature analysis. (Russian. Russian summary) **93g:94035**
Styblinski, M. A. A generalized approach to circuit performance variability reduction: methods and algorithms. (English summary) **93j:94040**
Tarasov, V. V. Reserves for ensuring the reliable design of logic circuits. (Russian. English, Russian and Ukrainian summaries)
Timoshkin, A. I. A class of combinational circuits consisting of m-output functional elements that can be checked by two test devices. (Russian. English, Russian and Estonian summaries)
Wang, Shun Hsiang (*with* Chen, Jonq Chyuan) A fault detecting DCT architecture. (English summary)
Yang, Shi Yuan A new K-fault diagnosis method for analog circuits. (Chinese. English and Chinese summaries)
Yang, Zu Ying *see* **Huang, Dong Quan; et al., 93i:94025**
Ye, Feng *see* **Huang, Dong Quan; et al., 93i:94025**

Items with secondary classifications in 94C12

Barashko, A. S. (*with* Skobtsov, Yu. A.; Speranskii, D. V.) ★ Моделирование и тестирование дискретных устройств. (Russian. Russian summary) [Modeling and testing discrete devices] **93j:68020**
Becker, Bernd (*with* Sparmann, Uwe) Computations over finite monoids and their test complexity. **93a:68016**
Chen, Xie Bin Optimal fault-tolerant extensions of a class of networks. (Chinese. English and Chinese summaries) **93h:94041**
Chung, Chi Ming (*with* Pai, Wen C.) A family of testing path selecting criteria. (English summary)
Ishida, Yoshiteru A generalization of diagnosability analysis. (English summary) **93h:68012**
Leighton, Frank Thomson (*with* Ma, Yuan; Plaxton, C. Greg) Highly fault-tolerant sorting circuits. (English summary) (*see* **93d:68005**)
Li, Zhonggang (*with* Wu, Jie) A novel method of function decomposition. (English summary) **93j:68021**
Lobanov, A. V. Mutual information coordination with identification of faults in distributed computer systems. (Russian. Russian summary)
Loulou, Richard Minimal cut cover of a graph with an application to the testing of electronic boards. (English summary) **93h:05160**
Ma, Yuan *see* **Leighton, Frank Thomson; et al., (93d:68005)**
Pai, Wen C. *see* **Chung, Chi Ming**
Plaxton, C. Greg *see* **Leighton, Frank Thomson; et al., (93d:68005)**
Reif, John H. Efficient VLSI fault simulation. (English summary) **93i:68096**
Skobtsov, Yu. A. *see* **Barashko, A. S.; et al., 93j:68020**
Sparmann, Uwe *see* **Becker, Bernd, 93a:68016**
Speranskii, D. V. *see* **Barashko, A. S.; et al., 93j:68020**
Wu, Jie *see* **Li, Zhonggang, 93j:68021**
Zhang, Jian Zhou The structure of optimally reliable random networks. (Chinese. English and Chinese summaries) **93k:05158**

94C15 Applications of graph theory [see also 05Cxx, 68R10]

Bar-Yehuda, Reuven (*with* Etzion, Tuvi) Connections between two cycles—a new design of dense processor interconnection networks. (English summary) **93f:94033**
Beichelt, Frank (*with* Tittmann, Peter) A splitting formula for the K-terminal reliability of stochastic networks. **93d:94032**
Braun, Jaromír ★ Kombinatorické metody v analýze a modelování elektronických soustav. (Czech) [Combinatorial methods in the analysis and modeling of electronic systems] **93a:94047**
Chen, Xie Bin Optimal fault-tolerant extensions of a class of networks. (Chinese. English and Chinese summaries) **93h:94041**
Etzion, Tuvi *see* **Bar-Yehuda, Reuven, 93f:94033**
Kudryavtsev, V. A. The problem of pre-design structuring of technical systems. (Russian. Russian summary)
Liestman, Arthur L. (*with* Peters, Joseph G.) Minimum broadcast digraphs. (English summary) **93j:94041**
Montpetit, André Coherent partitions and codes. **93g:94036**
Peters, Joseph G. *see* **Liestman, Arthur L., 93j:94041**
Pippenger, Nicholas The asymptotic optimality of spider-web networks. (English summary) **93f:94034**
Servatius, Brigitte *see* **Shi, Wei Geng, 93d:94033**
Shi, Wei Geng (*with* Servatius, Brigitte) Improving the reliability of computer communication networks. **93d:94033**
Tittmann, Peter *see* **Beichelt, Frank, 93d:94032**
Zemanian, Armen H. Transfinite graphs and electrical networks. **93i:94026**

Items with secondary classifications in 94C15

Alspach, Brian Cayley graphs with optimal fault tolerance. (English summary) **93g:05065**
Bar-David, Israel *see* **Etzion, Tuvi, 93g:90036**
Borie, Richard B. (*with* Parker, R. Gary; Tovey, Craig A.) Algorithms for recognition of regular properties and decomposition of recursive graph families. **93e:05090**
Carter, G. Enumeration results on linear complexity profiles. **93b:94018**
Cozzens, Margaret B. (*with* Roberts, Fred S.) Greedy algorithms for T-colorings of complete graphs and the meaningfulness of conclusions about them. (English summary) **93i:05059**
Du, Ding Zhu (*with* Hsu, D. Frank; Peck, G. W.) Connectivity of consecutive-d digraphs. (English summary) **93g:05089**
Etzion, Tuvi (*with* Bar-David, Israel) An explicit construction of Euler circuits in shuffle nets and related networks. (English summary) **93g:90036**
Gargano, Luisa (*with* Vaccaro, Ugo) Minimum time broadcast networks tolerating a logarithmic number of faults. **93f:90064**
Ghafoor, Arif Connectivity, persistence and fault diagnosis of interconnection networks based on O_k and $2O_k$ graphs. (English summary) **93g:05091**
Halpenny, Liam (*with* Smyth, Christopher J.) A classification of minimal standard-path 2×2 switching networks. **93e:94019**
Haynes, Teresa W. *see* **Lawson, Linda M., 93j:05153**
Heath, Lenwood S. (*with* Leighton, Frank Thomson; Rosenberg, Arnold L.) Comparing queues and stacks as mechanisms for laying out graphs. **93d:05150**
Heydemann, M.-C. (*with* Opatrný, J.; Sotteau, D.) Broadcasting and spanning trees in de Bruijn and Kautz networks. (English summary) **93g:05137**
Hsu, D. Frank *see* **Du, Ding Zhu; et al., 93g:05089**
Klawe, Maria M. (*with* Leighton, Frank Thomson) A tight lower bound on the size of planar permutation networks. (English summary) **93h:05101**
Konsowa, Mokhtar H. Effective resistance and random walks on finite graphs. (English and Arabic summaries)
Lawson, Linda M. (*with* Haynes, Teresa W.) E-graphs, a generalization of several network designs. (English summary) **93j:05153**
Leighton, Frank Thomson (*with* Newman, Mark J.; Ranade, Abhiram G.; Schwabe, Eric J.) Dynamic tree embeddings in butterflies and hypercubes. **93f:68043**
— *see also* **Heath, Lenwood S.; et al., 93d:05150** *and* **Klawe, Maria M., 93h:05101**
Machado, Arlene Fortunato (*with* Perin, Clovis) A generalization of the selection problem in digraphs. (English summary) **93m:68137**
Newman, Mark J. *see* **Leighton, Frank Thomson; et al., 93f:68043**
Opatrný, J. *see* **Heydemann, M.-C.; et al., 93g:05137**
Parker, R. Gary *see* **Borie, Richard B.; et al., 93e:05090**
Peck, G. W. *see* **Du, Ding Zhu; et al., 93g:05089**
Perin, Clovis *see* **Machado, Arlene Fortunato, 93m:68137**
Ranade, Abhiram G. *see* **Leighton, Frank Thomson; et al., 93f:68043**
Roberts, Fred S. *see* **Cozzens, Margaret B., 93i:05059**
Rosenberg, Arnold L. *see* **Heath, Lenwood S.; et al., 93d:05150**
Schwabe, Eric J. *see* **Leighton, Frank Thomson; et al., 93f:68043**
Smyth, Christopher J. *see* **Halpenny, Liam, 93e:94019**
Sotteau, D. *see* **Heydemann, M.-C.; et al., 93g:05137**
Tovey, Craig A. *see* **Borie, Richard B.; et al., 93e:05090**
Trubin, V. A. Strength of a network, its amplification and packing of trees. (Russian. English and Ukrainian summaries) **93a:90023**
Vaccaro, Ugo *see* **Gargano, Luisa, 93f:90064**
Zemanian, Armen H. Transfinite resistive networks. (English summary) **93d:94028**

94C30 Applications of design theory [see also 05Bxx]

Items with secondary classifications in 94C30

Budach, Lothar Recursive VLSI-design and fractals. (English summary) **93j:68083**
Bun', R. A. (*with* Vasil'ev, E. D.; Semotyuk, V. N.) ★ Моделирование электрических цепей методом подсхем. (Russian. Russian summary) [Modeling electrical circuits by the subscheme method] **93m:94050**
Rokowska, Barbara (*with* Wilczyńska, Krystyna) On number of intersections in a symmetrical system. (English summary) **93i:05017**
Semotyuk, V. N. *see* **Bun', R. A.; et al., 93m:94050**
Vasil'ev, E. D. *see* **Bun', R. A.; et al., 93m:94050**
Wilczyńska, Krystyna *see* **Rokowska, Barbara, 93i:05017**

94D05 Fuzzy sets and logic [see also 03B52, 03E72, 04A72, 28E10]

Laviolette, Michael (*with* Seaman, John W., Jr.) Evaluating fuzzy representations of uncertainty.
Seaman, John W., Jr. *see* **Laviolette, Michael**

Items with secondary classifications in 94D05

Asai, Kiyoji *see* **Terano, Toshiro; et al., 93c:04006**

De Mitri, C. (*with* Guido, C.) *G*-fuzzy topological spaces and subspaces. **93m:54015**

Guido, C. *see* **De Mitri, C., 93m:54015**

Jumarie, Guy A (new) measure of fuzzy uncertainty via interval analysis, which is fully consistent with Shannon theory. **93a:94016**

— From entropy of fuzzy sets to fuzzy sets of entropies: a critical review and new results. **93j:94005**

Murty, M. Narasimha *see* **Vidyamurthy, G., 93d:00022**

Pal, Nikhil R. (*with* Pal, Sankar Kumar) Some properties of the exponential entropy. (English summary) **93k:94005**

Pal, Sankar Kumar *see* **Pal, Nikhil R., 93k:94005**

Pardo Llorente, Julio Ángel Connection between the criterion based on (α, β)-information energy and other criteria for comparing fuzzy information systems. (Spanish. English summary) **93e:62018**

Sakawa, Masatoshi (*with* Yano, Hitoshi; Takahashi, Junya) Pareto optimality for multiobjective linear fractional programming problems with fuzzy parameters. **93c:90070**

Schott, Brian *see* **Whalen, Thomas, 93i:03031**

Sugeno, Michio *see* **Terano, Toshiro; et al., 93c:04006**

Takahashi, Junya *see* **Sakawa, Masatoshi; et al., 93c:90070**

Terano, Toshiro (*with* Asai, Kiyoji; Sugeno, Michio) ★ Fuzzy systems theory and its applications. **93c:04006**

Vidyamurthy, G. (*with* Murty, M. Narasimha) Musical harmony—a fuzzy entropic characterization. (English summary) **93d:00022**

Whalen, Thomas (*with* Schott, Brian) Usuality, regularity, and fuzzy set logic. **93i:03031**

Wygralak, Maciej Powers and generalized cardinal numbers for HCH-objects—basic notions. **93g:03049**

Yamamoto, Yoshinori Definition of the fuzzy threshold function and its application: an application of new switching functions defined on an extended infinite multiple-valued logic to approximate reasoning and process control. (English summary)

Yano, Hitoshi *see* **Sakawa, Masatoshi; et al., 93c:90070**

Zhang, Chuan Zhi An investigation on group communications. (Chinese. English and Chinese summaries)

1991 MATHEMATICS SUBJECT CLASSIFICATION

Compiled in the Editorial Offices of MATHEMATICAL REVIEWS and ZENTRALBLATT FÜR MATHEMATIK

TABLE OF CONTENTS

00 General
01 History and biography
03 Mathematical logic and foundations
04 Set theory
05 Combinatorics
06 Order, lattices, ordered algebraic structures
08 General algebraic systems
11 Number theory
12 Field theory and polynomials
13 Commutative rings and algebras
14 Algebraic geometry
15 Linear and multilinear algebra; matrix theory
16 Associative rings and algebras
17 Nonassociative rings and algebras
18 Category theory, homological algebra
19 K-theory
20 Group theory and generalizations
22 Topological groups, Lie groups
26 Real functions
28 Measure and integration
30 Functions of a complex variable
31 Potential theory
32 Several complex variables and analytic spaces
33 Special functions
34 Ordinary differential equations
35 Partial differential equations
39 Finite differences and functional equations
40 Sequences, series, summability
41 Approximations and expansions
42 Fourier analysis
43 Abstract harmonic analysis
44 Integral transforms, operational calculus
45 Integral equations
46 Functional analysis
47 Operator theory
49 Calculus of variations and optimal control; optimization
51 Geometry
52 Convex and discrete geometry
53 Differential geometry
54 General topology
55 Algebraic topology
57 Manifolds and cell complexes
58 Global analysis, analysis on manifolds
60 Probability theory and stochastic processes
62 Statistics
65 Numerical analysis
68 Computer science
70 Mechanics of particles and systems
73 Mechanics of solids
76 Fluid mechanics
78 Optics, electromagnetic theory
80 Classical thermodynamics, heat transfer
81 Quantum theory
82 Statistical mechanics, structure of matter
83 Relativity and gravitational theory
85 Astronomy and astrophysics
86 Geophysics
90 Economics, operations research, programming, games
92 Biology and other natural sciences, behavioral sciences
93 Systems theory; control
94 Information and communication, circuits

1991 Mathematics Subject Classification

1991 Mathematics Subject Classification (MSC)

This is a reprint of the 1991 MSC which has been in use at MR starting with the January 1991 issue. The 1991 MSC was first printed in the Annual Index for 1990 together with a brief summary of the changes from the 1985 revision of the 1980 MSC. Conversion tables with a more detailed description of the changes are available from the Editorial Office of MR.

Instructions for using the 1991 Mathematics Subject Classification

These instructions apply uniformly to all fields listed. The main purpose of the classification is to help readers to find the items of present or potential interest to them as readily as possible—in MR, in Zbl, or anywhere else where this classification system is used. The review of a paper or book should be printed in the section where it will receive the broadest attention from all readers possibly interested in it—these include both people working in that area and people who are familiar with that area and apply its results and methods elsewhere (inside or outside of mathematics). It will be extremely useful for both readers and classifiers to familiarize themselves with the entire classification system and thus to become aware of all the classifications of possible interest to them.

Every paper or book reviewed in MR receives precisely one "primary" classification number, which is simply the number of the section in which the review of the item will be printed. This section should be the one that covers the principal contribution. When a paper contains several principal contributions in different areas, the primary classification should cover the "most important" among them. A paper or book may receive one or several "secondary" classification numbers (or "cross-references") to cover any remaining principal contributions, ancillary results, motivation or origin of the problems discussed, intended or potential field of application, or other significant aspects worthy of notice.

The "primary" principal contribution is meant to be the one including the most important part of the work actually done in the paper. For example, a paper whose main overall content is the solution of a problem in graph theory, which arose in computer science and whose solution is (perhaps) at present only of interest to computer scientists, belongs primarily in 05C with a cross-reference in 68; conversely, a paper whose overall content lies mainly in computer science should receive a primary classification in 68, even if it makes heavy use of graph theory and proves several new graph-theoretic results along the way.

For an item with its primary classification in an "applied" section (68 through 94), it is recommended that a cross-reference be given to any "pure" mathematics section (00 through 65) to which the item being classified makes a contribution.

There are two types of cross-references given after many classifications in the list. The first type is of the form "{For A, see X}"; if this appears in section Y, it means that for contributions described by A one should usually assign the classification X, not Y. The other type of cross-reference merely points out related classifications; it is of the form "[See also...]", "[See mainly...]", etc., and the classifications listed in the brackets may, but need not, be added to the classification of a paper, or they may be used in place of the classification where the cross-reference is given. The classifier will have to judge which classification is the most appropriate for the paper at hand.

00–XX GENERAL
- 00–01 Instructional exposition (textbooks, tutorial papers, etc.)
- 00–02 Research exposition (monographs, survey articles)
- **00Axx General and miscellaneous specific topics**
- 00A05 General mathematics
- 00A06 Mathematics for nonmathematicians (engineering, social sciences, etc.)
- 00A07 Problem books
- 00A08 Recreational mathematics
- 00A15 Bibliographies
- 00A20 Dictionaries and other general reference works
- 00A22 Formularies
- 00A30 Philosophy of mathematics [See also 03A05]
- 00A35 Methodology of mathematics, didactics
- 00A69 General applied mathematics {For physics, see 00A79 and Sections 70 through 86}
- 00A71 Theory of mathematical modeling
- 00A72 General methods of simulation
- 00A73 Dimensional analysis
- 00A79 Physics (use more specific entries from Sections 70 through 86 when possible)
- 00A99 Miscellaneous topics
- **00Bxx Conference proceedings and collections of papers**
- 00B05 Collections of abstracts of lectures
- 00B10 Collections of articles of general interest
- 00B15 Collections of articles of miscellaneous specific content
- 00B20 Proceedings of conferences of general interest
- 00B25 Proceedings of conferences of miscellaneous specific interest
- 00B30 Festschriften
- 00B50 Volumes of selected translations
- 00B55 Miscellaneous volumes of translations
- 00B60 Collections of reprinted articles [See also 01A75]

01–XX HISTORY AND BIOGRAPHY [See also the classification number –03 in the other sections]
- 01–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 01–01 Instructional exposition (textbooks, tutorial papers, etc.)
- 01–02 Research exposition (monographs, survey articles)
- 01–06 Proceedings, conferences, collections, etc.
- 01–08 Computational methods
- **01Axx History of mathematics and mathematicians**
- 01A05 General histories, source books
- 01A07 Ethnomathematics, general
- 01A10 Paleolithic, Neolithic
- 01A12 Indigenous cultures of the Americas
- 01A13 Other indigenous cultures (non-European)
- 01A15 Indigenous European cultures (pre-Greek, etc.)
- 01A16 Egyptian
- 01A17 Babylonian
- 01A20 Greek, Roman
- 01A25 China
- 01A27 Japan
- 01A29 Southeast Asia
- 01A30 Islam (Medieval)
- 01A32 India
- 01A35 Medieval
- 01A40 15th and 16th centuries, Renaissance
- 01A45 17th century
- 01A50 18th century
- 01A55 19th century
- 01A60 20th century
- 01A65 Contemporary
- 01A67 Future prospectives
- 01A70 Biographies, obituaries, personalia, bibliographies
- 01A72 Schools of mathematics
- 01A73 Universities
- 01A74 Other institutions and academies
- 01A75 Collected or selected works; reprintings or translations of classics [See also 00B60]
- 01A80 Sociology (and profession) of mathematics
- 01A99 Miscellaneous topics

03–XX MATHEMATICAL LOGIC AND FOUNDATIONS
- 03–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
- 03–01 Instructional exposition (textbooks, tutorial papers, etc.)
- 03–02 Research exposition (monographs, survey articles)
- 03–03 Historical (must also be assigned at least one classification number from Section 01)
- 03–04 Explicit machine computation and programs (not the theory of computation or programming)
- 03–06 Proceedings, conferences, collections, etc.
- **03A05 Philosophical and critical {For philosophy of mathematics, see 00A30}**
- **03Bxx General logic**
- 03B05 Classical propositional logic
- 03B10 Classical first-order logic
- 03B15 Higher-order logic and type-theory
- 03B20 Subsystems of classical logic (including intuitionistic logic)
- 03B22 Abstract deductive systems
- 03B25 Decidability of theories and sets of sentences [See also 11U05, 12L05, 20F10]
- 03B30 Foundations and axiomatics of classical theories
- 03B35 Mechanization of proofs and logical operations [See also 68T15]
- 03B40 Combinatory logic and λ-calculus
- 03B45 Modal and tense logic {For provability logics, see also 03F40}
- 03B46 Relevance and entailment
- 03B48 Probability and inductive logic [See also 60A05]
- 03B50 Many-valued logic
- 03B52 Fuzzy logic [See also 94D05]
- 03B53 Paraconsistent logic
- 03B55 Intermediate logics
- 03B60 Other nonclassical logic

03B65 Logic of natural languages [See also 68S05, 92K20]
03B70 Logic of programming [See also 68Q55, 68Q60]
03B80 Other applications of logic
03B99 None of the above, but in this section
03Cxx Model theory
03C05 Equational classes, universal algebra [See also 08Axx]
03C07 Basic properties of first-order languages and structures
03C10 Quantifier elimination and related topics
03C13 Finite structures
03C15 Denumerable structures
03C20 Ultraproducts and related constructions
03C25 Model-theoretic forcing
03C30 Other model constructions
03C35 Categoricity and completeness of theories
03C40 Interpolation, preservation, definability
03C45 Stability and related concepts
03C50 Models with special properties (saturated, rigid, etc.)
03C52 Properties of classes of models
03C55 Set-theoretic model theory
03C57 Recursion-theoretic model theory [See also 03D45]
03C60 Model-theoretic algebra [See also 08C10, 12Lxx, 13L05]
03C62 Models of arithmetic and set theory [See also 03Hxx]
03C65 Models of other mathematical theories
03C68 Other classical first-order model theory
03C70 Logic on admissible sets
03C75 Other infinitary logic
03C80 Logic with extra quantifiers and operators [See also 03B45]
03C85 Second- and higher-order model theory
03C90 Nonclassical models (Boolean-valued, sheaf, etc.)
03C95 Abstract model theory
03C99 None of the above, but in this section
03Dxx Recursion theory
03D03 Thue and Post systems, etc.
03D05 Automata and formal grammars in connection with logical questions [See also 68Qxx]
03D10 Turing machines and related notions [See also 68Q05]
03D15 Complexity of computation [See also 68Q15]
03D20 Recursive functions and relations, subrecursive hierarchies
03D25 Recursively enumerable sets and degrees
03D30 Other degrees; reducibilities
03D35 Undecidability and degrees of sets of sentences
03D40 Word problems, etc. [See also 06B25, 08A50, 20F10]
03D45 Theory of numerations, effectively presented structures [See also 03C57]
03D50 Recursive equivalence types of sets and structures, isols
03D55 Hierarchies
03D60 Recursion theory on ordinals, admissible sets, etc.
03D65 Higher-type and set recursion theory
03D70 Inductive definability
03D75 Abstract and axiomatic recursion theory
03D80 Applications of recursion theory
03D99 None of the above, but in this section
03Exx Set theory [See also 04–XX]
03E05 Combinatorial set theory [See also 04A20]
03E10 Ordinal and cardinal numbers [See also 04A10]
03E15 Descriptive set theory [See also 04A15, 28A05, 54H05]
03E20 Other classical set theory
03E25 Axiom of choice and related propositions [See also 04A25]
03E30 Axiomatics of classical set theory and its fragments
03E35 Consistency and independence results
03E40 Other aspects of forcing and Boolean-valued models
03E45 Constructibility, ordinal definability, and related notions
03E47 Other notions of set-theoretic definability
03E50 Continuum hypothesis and Martin's axiom [See also 04A30, 54A25]
03E55 Large cardinals
03E60 Determinacy and related principles which contradict the axiom of choice
03E65 Other hypotheses and axioms
03E70 Nonclassical and second-order set theories
03E72 Fuzzy sets [See mainly 04A72]
03E75 Applications
03E99 None of the above, but in this section
03Fxx Proof theory and constructive mathematics
03F03 Proof theory, general
03F05 Cut-elimination and normal-form theorems
03F07 Structure of proofs
03F10 Functionals in proof theory
03F15 Recursive ordinals and ordinal notations
03F20 Complexity of proofs
03F25 Relative consistency and interpretations
03F30 First-order arithmetic and fragments
03F35 Second- and higher-order arithmetic and fragments [See also 03E30, 03E70]
03F40 Gödel numberings in proof theory
03F50 Metamathematics of constructive systems
03F55 Intuitionistic mathematics
03F60 Constructive and recursive analysis [See also 26E40, 46S30, 47S30]
03F65 Other constructive mathematics [See also 26E40, 46S30, 47S30]
03F99 None of the above, but in this section
03Gxx Algebraic logic
03G05 Boolean algebras [See also 06Exx]
03G10 Lattices and related structures [See also 06Bxx]
03G12 Quantum logic [See also 81P10]
03G15 Cylindric and polyadic algebras; relation algebras
03G20 Lukasiewicz and Post algebras [See also 06D25, 06D30]
03G25 Other algebras related to logic [See also 06F35]
03G30 Categorical logic, topoi [See also 18B25]
03G99 None of the above, but in this section
03Hxx Nonstandard models [See also 03C62]
03H05 Nonstandard models in mathematics [See also 26E35, 28E05, 30G06, 46S20, 47S20, 54J05]
03H10 Other applications of nonstandard models (economics, physics, etc.)
03H15 Nonstandard models of arithmetic [See also 11U10, 12L15, 13L05]
03H99 None of the above, but in this section

04–XX SET THEORY [See also 03Exx]
04–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
04–01 Instructional exposition (textbooks, tutorial papers, etc.)
04–02 Research exposition (monographs, survey articles)
04–03 Historical (must also be assigned at least one classification number from Section 01)
04–04 Explicit machine computation and programs (not the theory of computation or programming)
04–06 Proceedings, conferences, collections, etc.
04A03 Set algebra
04A05 Relations, functions [See also 08A02]
04A10 Ordinal and cardinal numbers; generalizations [See also 03E10]
04A15 Descriptive set theory; Borel classifications, Suslin schemes, etc. [See also 03E15, 26A21, 28A05, 54H05]
04A20 Combinatorial set theory [See also 03E05, 05A05]; filters
04A25 Axiom of choice and equivalent propositions (Zorn's lemma, etc.) [See also 03E25]
04A30 Continuum hypothesis, generalized continuum hypothesis [See also 03E50, 54A25]
04A72 Fuzzy sets, fuzzy relations [See also 03E72, 94D05] {For fuzzy versions, see specific sections}
04A99 Miscellaneous topics

05–XX COMBINATORICS {For finite fields, see 11Txx}
05–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
05–01 Instructional exposition (textbooks, tutorial papers, etc.)
05–02 Research exposition (monographs, survey articles)
05–03 Historical (must also be assigned at least one classification number from Section 01)
05–04 Explicit machine computation and programs (not the theory of computation or programming)
05–06 Proceedings, conferences, collections, etc.
05Axx Classical combinatorial problems
05A05 Combinatorial choice problems (subsets, representatives, permutations)
05A10 Factorials, binomial coefficients, combinatorial functions [See also 11B65, 33Cxx]
05A15 Exact enumeration problems, generating functions [See also 33Cxx, 33Dxx]
05A16 Asymptotic enumeration
05A17 Partitions of integers [See also 11P81, 11P82, 11P83]
05A18 Partitions of sets
05A19 Combinatorial identities
05A20 Combinatorial inequalities
05A30 q-calculus and related topics [See also 03Dxx]
05A40 Umbral calculus
05A99 None of the above, but in this section
05Bxx Designs and configurations {For applications of design theory, see 94C30}
05B05 Block designs [See also 51E05, 62K10]
05B07 Triple systems
05B10 Difference sets (number-theoretic, group-theoretic, etc.) [See also 11B13]
05B15 Orthogonal arrays, Latin squares, Room squares
05B20 Matrices (incidence, Hadamard, etc.)
05B25 Finite geometries [See also 51D20, 51Exx]
05B30 Other designs, configurations [See also 51E30]
05B35 Matroids, geometric lattices [See also 52B40, 90C27]
05B40 Packing and covering [See also 11H31, 52C15, 52C17]
05B45 Tessellation and tiling problems [See also 52C20, 52C22]

05B50 Polyominoes
05B99 None of the above, but in this section
05Cxx Graph theory {For applications of graphs, see 68Q90, 68R10, 90C35, 94C15}
05C05 Trees
05C10 Topological graph theory, embedding [See also 57M15, 57M25]
05C12 Distance in graphs
05C15 Chromatic theory of graphs and maps
05C20 Directed graphs (digraphs), tournaments
05C25 Graphs and groups [See also 20F32]
05C30 Enumeration of graphs and maps
05C35 Extremal problems [See also 90C35]
05C38 Paths and cycles [See also 90B10]
05C40 Connectivity
05C45 Eulerian and Hamiltonian graphs
05C50 Graphs and matrices
05C55 Generalized Ramsey theory
05C60 Isomorphism problems (reconstruction conjecture, perfect graphs, etc.)
05C65 Hypergraphs
05C70 Factorization, matching, covering and packing
05C75 Structural characterization of types of graphs
05C78 Graph labelling (graceful graphs, bandwidth, etc.)
05C80 Random graphs
05C85 Graph algorithms [See also 68Q20, 68R10]
05C90 Applications
05C99 None of the above, but in this section
05Dxx Extremal combinatorics
05D05 Extremal set theory
05D10 Ramsey theory
05D15 Transversal (matching) theory
05D99 None of the above, but in this section
05Exx Algebraic combinatorics
05E05 Symmetric functions
05E10 Tableaux, representations of the symmetric group [See also 20C30]
05E15 Combinatorial problems concerning the classical groups [See also 22E45, 33C80]
05E20 Group actions on designs, geometries and codes
05E25 Group actions on posets and homology groups of posets [See also 06A09]
05E30 Association schemes, strongly regular graphs
05E35 Orthogonal polynomials [See also 33C45, 33C50, 33D45]
05E99 None of the above, but in this section

06-XX ORDER, LATTICES, ORDERED ALGEBRAIC STRUCTURES [See also 18B35]
06-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
06-01 Instructional exposition (textbooks, tutorial papers, etc.)
06-02 Research exposition (monographs, survey articles)
06-03 Historical (must also be assigned at least one classification number from Section 01)
06-04 Explicit machine computation and programs (not the theory of computation or programming)
06-06 Proceedings, conferences, collections, etc.
06Axx Ordered sets
06A05 Total order
06A06 Partial order, general
06A07 Combinatorics of partially ordered sets
06A08 Shellable posets, Cohen-Macaulay posets [See also 52B20]
06A09 Cohomology of posets [See also 05E25]
06A12 Semilattices [See also 20M10]
06A15 Galois correspondences, closure operators
06A23 Complete lattices, completions
06A99 None of the above, but in this section
06Bxx Lattices [See also 03G10]
06B05 Structure theory
06B10 Ideals, congruence relations
06B15 Representation theory
06B20 Varieties of lattices
06B25 Free lattices, projective lattices, word problems [See also 03D40, 08A50, 20F10]
06B30 Topological lattices, order topologies [See also 06F30, 22A26, 54F05, 54H12]
06B35 Continuous lattices, generalizations, applications [See also 06B30, 06D10, 06F30, 18B35, 22A26, 68Q55]
06B99 None of the above, but in this section
06Cxx Modular lattices, complemented lattices
06C05 Modular lattices, Desarguesian lattices
06C10 Semimodular lattices, geometric lattices
06C15 Complemented lattices, orthocomplemented lattices
06C20 Complemented modular lattices, continuous geometries
06C99 None of the above, but in this section
06Dxx Distributive lattices
06D05 Structure and representation theory
06D10 Complete distributivity
06D15 Pseudocomplemented lattices
06D20 Heyting algebras [See also 03Gxx]
06D25 Post algebras [See also 03G20]
06D30 De Morgan algebras, Lukasiewicz algebras [See also 03G20]
06D99 None of the above, but in this section
06Exx Boolean algebras (Boolean rings) [See also 03G05]
06E05 Structure theory
06E10 Chain conditions, complete algebras
06E15 Stone space and related constructions
06E20 Ring-theoretic properties [See also 16E50, 16G30]
06E25 Boolean algebras with additional operations (diagonalizable algebras, etc.)
06E30 Boolean functions [See also 94C10]
06E99 None of the above, but in this section
06Fxx Ordered structures
06F05 Ordered semigroups [See also 20Mxx]
06F10 Noether lattices
06F15 Ordered groups [See also 20F60]
06F20 Ordered abelian groups, Riesz groups, ordered linear spaces [See also 46A40]
06F25 Ordered rings, algebras, modules {For ordered fields, see 12J15; see also 13J25, 16W80}
06F30 Topological lattices, order topologies [See also 06B30, 22A26, 54F05, 54H12]
06F35 BCK-algebras, BCI-algebras [See also 03G25]
06F99 None of the above, but in this section

08-XX GENERAL ALGEBRAIC SYSTEMS
08-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
08-01 Instructional exposition (textbooks, tutorial papers, etc.)
08-02 Research exposition (monographs, survey articles)
08-03 Historical (must also be assigned at least one classification number from Section 01)
08-04 Explicit machine computation and programs (not the theory of computation or programming)
08-06 Proceedings, conferences, collections, etc.
08Axx Algebraic structures [See also 03C05]
08A02 Relational systems, laws of composition
08A05 Structure theory
08A30 Subalgebras, congruence relations
08A35 Automorphisms, endomorphisms
08A40 Operations, polynomials, primal algebras
08A45 Equational compactness
08A50 Word problems [See also 03D40, 06B25, 20F10, 68R15]
08A55 Partial algebras
08A60 Unary algebras
08A62 Finitary algebras
08A65 Infinitary algebras
08A70 Applications of universal algebra in computer science
08A99 None of the above, but in this section
08Bxx Varieties
08B05 Equational logic, Mal'cev (Mal'tsev) conditions
08B10 Congruence modularity, congruence distributivity
08B15 Lattices of varieties
08B20 Free algebras
08B25 Products, amalgamated products, and other kinds of limits and colimits [See also 18A30]
08B26 Subdirect products and subdirect irreducibility
08B30 Injectives, projectives
08B99 None of the above, but in this section
08Cxx Other classes of algebras
08C05 Categories of algebras [See also 18C05]
08C10 Axiomatic model classes [See also 03Cxx, in particular 03C60]
08C15 Quasivarieties
08C99 None of the above, but in this section

11-XX NUMBER THEORY
11-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
11-01 Instructional exposition (textbooks, tutorial papers, etc.)
11-02 Research exposition (monographs, survey articles)
11-03 Historical (must also be assigned at least one classification number from Section 01)
11-04 Explicit machine computation and programs (not the theory of computation or programming)
11-06 Proceedings, conferences, collections, etc.
11Axx Elementary number theory {For analogues in number fields, see 11R04}
11A05 Multiplicative structure; Euclidean algorithm; greatest common divisors
11A07 Congruences; primitive roots; residue systems
11A15 Power residues, reciprocity

11A25 Arithmetic functions; related numbers; inversion formulas
11A41 Primes
11A51 Factorization; primality
11A55 Continued fractions {For approximation results, see 11J70; see also 11K50, 30B70, 40A15}
11A63 Radix representation; digital problems {For metric results, see 11K16}
11A67 Other representations
11A99 None of the above, but in this section

11Bxx Sequences and sets
11B05 Density, gaps, topology
11B13 Additive bases [See also 05B10]
11B25 Arithmetic progressions [See also 11N13]
11B34 Representation functions
11B37 Recurrences {For applications to special functions, see 33–XX}
11B39 Fibonacci and Lucas numbers and polynomials and generalizations
11B50 Sequences (mod m)
11B57 Farey sequences; the sequences $\{1^k, 2^k, \cdots\}$
11B65 Binomial coefficients; factorials; q-identities [See also 05A10, 05A30]
11B68 Bernoulli and Euler numbers and polynomials
11B73 Bell and Stirling numbers
11B75 Other combinatorial number theory
11B83 Special sequences and polynomials
11B85 Automata sequences
11B99 None of the above, but in this section

11Cxx Polynomials and matrices
11C08 Polynomials [See also 13F20]
11C20 Matrices, determinants [See also 15A36]
11C99 None of the above, but in this section

11Dxx Diophantine equations [See also 11Gxx, 14Gxx]
11D04 Linear equations
11D09 Quadratic and bilinear equations
11D25 Cubic and quartic equations
11D41 Higher degree equations; Fermat's equation
11D57 Multiplicative and norm form equations
11D61 Exponential equations
11D68 Rational numbers as sums of fractions
11D72 Equations in many variables [See also 11P55]
11D75 Diophantine inequalities [See also 11J25]
11D79 Congruences in many variables
11D85 Representation problems [See also 11P55]
11D88 p-adic and power series fields
11D99 None of the above, but in this section

11Exx Forms and linear algebraic groups [See also 19Gxx] {For quadratic forms in linear algebra, see 15A63}
11E04 Quadratic forms over general fields
11E08 Quadratic forms over local rings and fields
11E10 Forms over real fields
11E12 Quadratic forms over global rings and fields
11E16 General binary quadratic forms
11E20 General ternary and quaternary quadratic forms; forms of more than two variables
11E25 Sums of squares and representations by other particular quadratic forms
11E39 Bilinear and Hermitian forms
11E41 Class numbers of quadratic and Hermitian forms
11E45 Analytic theory (Epstein zeta functions; relations with automorphic forms and functions)
11E57 Classical groups [See also 14Lxx, 20Gxx]
11E70 K-theory of quadratic and Hermitian forms
11E72 Galois cohomology of linear algebraic groups [See also 20G10]
11E76 Forms of degree higher than two
11E81 Algebraic theory of quadratic forms; Witt groups and rings [See also 19G12, 19G24]
11E88 Quadratic spaces; Clifford algebras [See also 15A63, 15A66]
11E95 p-adic theory
11E99 None of the above, but in this section

11Fxx Discontinuous groups and automorphic forms [See also 11R39, 11S37, 14Gxx, 14Kxx, 22E50, 22E55, 30F35, 32Nxx; for relations with quadratic forms, see 11E45]
11F03 Modular and automorphic functions
11F06 Structure of modular groups and generalizations; arithmetic groups [See also 20H05, 20H10, 22E40]
11F11 Modular forms, one variable
11F12 Automorphic forms, one variable
11F20 Dedekind eta function, Dedekind sums
11F22 Relationship to Lie algebras and finite simple groups
11F25 Hecke-Petersson operators, differential operators (one variable)
11F27 Theta series; Weil representation
11F30 Fourier coefficients of automorphic forms
11F32 Modular correspondences, etc.
11F33 Congruences for modular and p-adic modular forms [See also 14G20, 22E50]
11F37 Forms of half-integer weight; nonholomorphic modular forms
11F41 Hilbert and Hilbert-Siegel modular groups and their modular and automorphic forms; Hilbert modular surfaces [See also 14J20]
11F46 Siegel modular groups and their modular and automorphic forms
11F55 Other groups and their modular and automorphic forms (several variables)
11F60 Hecke-Petersson operators, differential operators (several variables)
11F66 Dirichlet series and functional equations in connection with modular forms
11F67 Special values of automorphic L-series, periods of modular forms, cohomology, modular symbols
11F70 Representation-theoretic methods; automorphic representations over local and global fields
11F72 Spectral theory; Selberg trace formula
11F75 Cohomology of arithmetic groups
11F80 Galois properties
11F85 p-adic theory, local fields [See also 14G20, 22E50]
11F99 None of the above, but in this section

11Gxx Arithmetic algebraic geometry (Diophantine geometry) [See also 11Dxx, 14Gxx, 14Kxx]
11G05 Elliptic curves over global fields [See also 14H52]
11G07 Elliptic curves over local fields [See also 14G20, 14H52]
11G09 Drinfel'd modules; higher-dimensional motives, etc. [See also 14L05]
11G10 Abelian varieties of dimension >1 [See also 14Kxx]
11G15 Complex multiplication and moduli of abelian varieties [See also 14K22]
11G16 Elliptic and modular units [See also 11R27]
11G18 Arithmetic aspects of modular and Shimura varieties [See also 14G35]
11G20 Curves over finite and local fields [See also 14H25]
11G25 Varieties over finite and local fields [See also 14G15, 14G20]
11G30 Curves of arbitrary genus or genus $\neq 1$ over global fields [See also 14H25]
11G35 Varieties over global fields [See also 14G25]
11G40 L-functions of varieties over global fields; Birch-Swinnerton-Dyer conjecture [See also 14G10]
11G45 Geometric class field theory [See also 11R37, 14C35, 19F05]
11G99 None of the above, but in this section

11Hxx Geometry of numbers {For applications in coding theory, see 94B75}
11H06 Lattices and convex bodies [See also 11P21, 52C05, 52C07]
11H16 Nonconvex bodies
11H31 Lattice packing and covering [See also 05B40, 52C15, 52C17]
11H46 Products of linear forms
11H50 Minima of forms
11H55 Quadratic forms (reduction theory, extreme forms, etc.)
11H56 Automorphism groups of lattices
11H60 Mean value and transfer theorems
11H99 None of the above, but in this section

11Jxx Diophantine approximation, transcendental number theory [See also 11K60]
11J04 Homogeneous approximation to one number
11J06 Markov and Lagrange spectra and generalizations
11J13 Simultaneous homogeneous approximation, linear forms
11J17 Approximation by numbers from a fixed field
11J20 Inhomogeneous linear forms
11J25 Diophantine inequalities [See also 11D75]
11J54 Small fractional parts of polynomials and generalizations
11J61 Approximation in non-Archimedean valuations
11J68 Approximation to algebraic numbers
11J70 Continued fractions and generalizations [See also 11A55, 11K50]
11J71 Distribution modulo one [See also 11K06]
11J72 Irrationality; linear independence over a field
11J81 Transcendence (general theory)
11J82 Measures of irrationality and of transcendence
11J83 Metric theory
11J85 Algebraic independence; Gel'fond's method
11J86 Linear forms in logarithms; Baker's method
11J89 Transcendence theory of elliptic and abelian functions
11J91 Transcendence theory of other special functions
11J99 None of the above, but in this section

11Kxx Probabilistic theory: distribution modulo 1; metric theory of algorithms
11K06 General theory of distribution modulo 1 [See also 11J71]
11K16 Normal numbers, radix expansions, etc. [See also 11A63]
11K31 Special sequences
11K36 Well-distributed sequences and other variations
11K38 Irregularities of distribution, discrepancy [See also 11Nxx]
11K41 Continuous, p-adic and abstract analogues
11K45 Pseudo-random numbers; Monte Carlo methods
11K50 Metric theory of continued fractions [See also 11A55, 11J70]
11K55 Metric theory of other algorithms and expansions; measure and Hausdorff dimension [See also 11N99, 28Dxx]
11K60 Diophantine approximation [See also 11Jxx]
11K65 Arithmetic functions [See also 11Nxx]

11K70 Harmonic analysis and almost periodicity
11K99 None of the above, but in this section
11Lxx Exponential sums and character sums {For finite fields, see 11Txx}
11L03 Trigonometric and exponential sums, general
11L05 Gauss and Kloosterman sums; generalizations
11L07 Estimates on exponential sums
11L10 Jacobsthal and Brewer sums; other complete character sums
11L15 Weyl sums
11L20 Sums over primes
11L26 Sums over arbitrary intervals
11L40 Estimates on character sums
11L99 None of the above, but in this section
11Mxx Zeta and L-functions: analytic theory
11M06 $\zeta(s)$ and $L(s, \chi)$
11M20 Real zeros of $L(s, \chi)$; results on $L(1, \chi)$
11M26 Nonreal zeros of $\zeta(s)$ and $L(s, \chi)$; Riemann and other hypotheses
11M35 Hurwitz and Lerch zeta functions
11M41 Other Dirichlet series and zeta functions {For local and global ground fields, see 11R42, 11R52, 11S40, 11S45; for algebro-geometric methods, see 14G10; see also 11E45, 11F66, 11F70, 11F72}
11M45 Tauberian theorems [See also 40E05]
11M99 None of the above, but in this section
11Nxx Multiplicative number theory
11N05 Distribution of primes
11N13 Primes in progressions [See also 11B25]
11N25 Distribution of integers with specified multiplicative constraints
11N30 Turán theory [See also 30Bxx]
11N32 Primes represented by polynomials; other multiplicative structure of polynomial values
11N35 Sieves
11N36 Applications of sieve methods
11N37 Asymptotic results on arithmetic functions
11N45 Asymptotic results on counting functions for algebraic and topological structures
11N56 Rate of growth of arithmetic functions
11N60 Distribution functions associated with additive and positive multiplicative functions
11N64 Other results on the distribution of values or the characterization of arithmetic functions
11N69 Distribution of integers in special residue classes
11N75 Applications of automorphic functions and forms to multiplicative problems [See also 11Fxx]
11N80 Generalized primes and integers
11N99 None of the above, but in this section
11Pxx Additive number theory; partitions
11P05 Waring's problem and variants
11P21 Lattice points in specified regions
11P32 Goldbach-type theorems; other additive questions involving primes
11P55 Applications of the Hardy-Littlewood method [See also 11D85]
11P81 Elementary theory of partitions [See also 05A17]
11P82 Analytic theory of partitions
11P83 Partitions; congruences and congruential restrictions
11P99 None of the above, but in this section
11Rxx Algebraic number theory: global fields {For complex multiplication, see 11G15}
11R04 Algebraic numbers; rings of algebraic integers
11R06 PV-numbers and generalizations; other special algebraic numbers
11R09 Polynomials (irreducibility, etc.)
11R11 Quadratic extensions
11R16 Cubic and quartic extensions
11R18 Cyclotomic extensions
11R20 Other abelian and metabelian extensions
11R21 Other number fields
11R23 Iwasawa theory
11R27 Units and factorization
11R29 Class numbers, class groups, discriminants
11R32 Galois theory
11R33 Integral representations related to algebraic numbers; Galois module structure of rings of integers [See also 20C10]
11R34 Galois cohomology [See also 12Gxx, 16H05, 19A31]
11R37 Class field theory
11R39 Langlands-Weil conjectures, nonabelian class field theory [See also 11Fxx, 22E55]
11R42 Zeta functions and L-functions of number fields [See also 11M41, 19F27]
11R44 Distribution of prime ideals [See also 11N05]
11R45 Density theorems
11R47 Other analytic theory [See also 11Nxx]
11R52 Quaternion and other division algebras: arithmetic, zeta functions
11R54 Other algebras and orders, and their zeta and L-functions [See also 11S45, 16H05, 16Kxx]
11R56 Adèle rings and groups
11R58 Arithmetic theory of algebraic function fields [See also 14–XX]
11R65 Class groups and Picard groups of orders
11R70 K-theory of global fields [See also 19Fxx]
11R80 Totally real and totally positive fields [See also 12J15]
11R99 None of the above, but in this section
11Sxx Algebraic number theory: local and p-adic fields
11S05 Polynomials
11S15 Ramification and extension theory
11S20 Galois theory
11S23 Integral representations
11S25 Galois cohomology [See also 12Gxx, 16H05]
11S31 Class field theory; p-adic formal groups [See also 14L05]
11S37 Langlands-Weil conjectures, nonabelian class field theory [See also 11Fxx, 22E50]
11S40 Zeta functions and L-functions [See also 11M41, 19F27]
11S45 Algebras and orders, and their zeta functions [See also 11R52, 11R54, 16H05, 16Kxx]
11S70 K-theory of local fields [See also 19Fxx]
11S80 Other analytic theory (analogues of beta and gamma functions, p-adic integration, etc.)
11S85 Other nonanalytic theory
11S99 None of the above, but in this section
11Txx Finite fields and commutative rings (number-theoretic aspects)
11T06 Polynomials
11T22 Cyclotomy
11T23 Exponential sums
11T24 Other character sums and Gauss sums
11T30 Structure theory
11T55 Arithmetic theory of polynomial rings over finite fields
11T71 Algebraic coding theory; cryptography
11T99 None of the above, but in this section
11Uxx Connections with logic
11U05 Decidability [See also 03B25]
11U07 Ultraproducts [See also 03C20]
11U09 Model theory [See also 03Cxx]
11U10 Nonstandard arithmetic [See also 03H15]
11U99 None of the above, but in this section
11Yxx Computational number theory [See also 11–04]
11Y05 Factorization
11Y11 Primality
11Y16 Algorithms; complexity [See also 68Q25]
11Y35 Analytic computations
11Y40 Algebraic number theory computations
11Y50 Computer solution of Diophantine equations
11Y55 Calculation of integer sequences
11Y60 Evaluation of constants
11Y65 Continued fraction calculations
11Y70 Values of arithmetic functions; tables
11Y99 None of the above, but in this section
11Z50 Miscellaneous applications of number theory

12–XX FIELD THEORY AND POLYNOMIALS

12–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
12–01 Instructional exposition (textbooks, tutorial papers, etc.)
12–02 Research exposition (monographs, survey articles)
12–03 Historical (must also be assigned at least one classification number from Section 01)
12–04 Explicit machine computation and programs (not the theory of computation or programming)
12–06 Proceedings, conferences, collections, etc.
12Dxx Real and complex fields
12D05 Polynomials: factorization
12D10 Polynomials: location of zeros (algebraic theorems) {For the analytic theory, see 26C10, 30C15}
12D15 Fields related with sums of squares (formally real fields, Pythagorean fields, etc.) [See also 11Exx]
12D99 None of the above, but in this section
12Exx General field theory
12E05 Polynomials (irreducibility, etc.)
12E10 Special polynomials
12E12 Equations
12E15 Skew fields, division rings [See also 11R52, 11R54, 11S45, 16Kxx]
12E20 Finite fields (field-theoretic aspects)
12E25 Hilbertian fields; Hilbert's irreducibility theorem
12E99 None of the above, but in this section
12Fxx Field extensions
12F05 Algebraic extensions
12F10 Separable extensions, Galois theory
12F12 Inverse Galois theory
12F15 Inseparable extensions
12F20 Transcendental extensions
12F99 None of the above, but in this section

12Gxx Homological methods (field theory)
12G05 Galois cohomology [See also 13A20, 16H05]
12G10 Cohomological dimension
12G99 None of the above, but in this section
12Hxx Differential and difference algebra
12H05 Differential algebra [See also 13Nxx]
12H10 Difference algebra [See also 39Axx]
12H20 Abstract differential equations [See also 34Gxx]
12H25 p-adic differential equations [See also 11S80, 14G20, 34Gxx]
12H99 None of the above, but in this section
12Jxx Topological fields
12J05 Normed fields
12J10 Valued fields
12J12 Formally p-adic fields
12J15 Ordered fields
12J17 Topological semifields
12J20 General valuation theory
12J25 Non-Archimedean valued fields [See also 30G06, 32P05, 46S10, 47S10]
12J27 Krasner-Tate algebras [See mainly 32P05; see also 46S10, 47S10]
12J99 None of the above, but in this section
12Kxx Generalizations of fields
12K05 Near-fields [See also 16Y30]
12K10 Semifields [See also 16Y60]
12K99 None of the above, but in this section
12Lxx Connections with logic
12L05 Decidability [See also 03B25]
12L10 Ultraproducts [See also 03C20]
12L12 Model theory [See also 03C60]
12L15 Nonstandard arithmetic [See also 03H15]
12L99 None of the above, but in this section
12Y05 Computational aspects of field theory and polynomials

13–XX COMMUTATIVE RINGS AND ALGEBRAS
13–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
13–01 Instructional exposition (textbooks, tutorial papers, etc.)
13–02 Research exposition (monographs, survey articles)
13–03 Historical (must also be assigned at least one classification number from Section 01)
13–04 Explicit machine computation and programs (not the theory of computation or programming)
13–06 Proceedings, conferences, collections, etc.
13Axx General commutative ring theory
13A02 Graded rings [See also 16W50]
13A05 Divisibility
13A10 Radical theory
13A15 Ideals; multiplicative ideal theory
13A18 Valuations and their generalizations
13A20 Brauer groups [See also 12Gxx, 16H05]
13A30 Associated graded rings of ideals (Rees ring, form ring) and related topics
13A35 Characteristic p methods (Frobenius endomorphism) and reduction to characteristic p [See also 13Mxx]
13A50 Invariant theory [See also 14D25]
13A99 None of the above, but in this section
13Bxx Ring extensions and related topics
13B02 Extension theory
13B05 Galois theory (commutative rings)
13B10 Morphisms and derivations
13B15 Ramification theory
13B21 Integral dependence
13B22 Integral closure; integrally closed rings, related rings (Japanese, etc.)
13B24 Going up; going down; going between
13B25 Polynomials over commutative rings
13B30 Quotients and localization
13B35 Completion [See also 13J10]
13B40 Étale extensions and Henselization; Artin approximation [See also 13J15, 14B12]
13B99 None of the above, but in this section
13Cxx Theory of modules and ideals
13C05 Structure, classification theorems
13C10 Projective and free modules and ideals [See also 18G05, 19A13]
13C11 Injective and flat modules and ideals [See also 18G05]
13C12 Torsion modules and ideals
13C13 Other special types
13C14 Cohen-Macaulay modules [See also 13H10]
13C15 Dimension theory, depth, related rings (catenary, etc.)
13C20 Class groups
13C40 Linkage, complete intersections and determinantal ideals [See also 14M12]
13C99 None of the above, but in this section
13Dxx (Co)homological methods
13D02 Syzygies
13D03 (Co)homology of commutative rings and algebras
13D05 (Co)homological dimension [See also 18G20]
13D10 Deformations and infinitesimal methods [See also 14B12, 14D15, 16S80, 32Gxx]
13D15 Grothendieck groups, K-theory [See also 14C35, 18F30, 19–XX]
13D25 Complexes
13D30 Torsion theory [See also 13C12, 18E40]
13D40 Hilbert-Samuel functions and Poincaré series
13D45 Local cohomology [See also 14B15]
13D99 None of the above, but in this section
13Exx Chain conditions, finiteness conditions
13E05 Noetherian rings and modules
13E10 Artinian rings and modules, finite-dimensional algebras
13E15 Rings and modules of finite generation or presentation
13E99 None of the above, but in this section
13Fxx Arithmetic rings and other special rings [See also 12–XX]
13F05 Dedekind and Prüfer rings and their generalizations
13F07 Euclidean rings and generalizations
13F10 Principal ideal rings
13F15 Factorial rings, unique factorization domains [See also 14M05]
13F20 Polynomial rings and ideals [See also 11C08]
13F25 Formal power series rings [See also 13J05]
13F30 Valuation rings
13F40 Excellent rings
13F45 Seminormal rings
13F50 Rings with straightening laws, Hodge algebras
13F99 None of the above, but in this section
13G05 Integral domains
13Hxx Local rings and semilocal rings
13H05 Regular local rings
13H10 Special types (Cohen-Macaulay, Gorenstein, Buchsbaum, etc.) [See also 14M05]
13H15 Multiplicity theory and related topies
13H99 None of the above, but in this section
13Jxx Topological rings and modules [See also 16W60, 16W80]
13J05 Power series rings [See also 13F25]
13J07 Analytical algebras and rings [See also 32B05]
13J10 Complete rings, completion [See also 13B35]
13J15 Henselian rings [See also 13B40]
13J20 Global topological rings
13J25 Ordered rings [See also 06F25]
13J99 None of the above, but in this section
13K05 Witt vectors and related rings
13L05 Applications of logic to commutative algebra [See also 03Cxx, 03Hxx]
13Mxx Finite commutative rings {For number-theoretic aspects, see 11Txx}
13M05 Structure
13M10 Polynomials (commutative rings)
13M99 None of the above, but in this section
13Nxx Differential algebra [See also 12H05, 14F10]
13N05 Modules of differentials [See also 16S32]
13N10 Rings of differential operators [See also 16S32, 32C38]
13N99 None of the above, but in this section
13Pxx Computational aspects of commutative algebra [See also 68Q40]
13P05 Polynomials, factorization [See also 12Y05]
13P10 Polynomial ideals, Gröbner bases
13P99 None of the above, but in this section

14–XX ALGEBRAIC GEOMETRY
14–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
14–01 Instructional exposition (textbooks, tutorial papers, etc.)
14–02 Research exposition (monographs, survey articles)
14–03 Historical (must also be assigned at least one classification number from Section 01)
14–04 Explicit machine computation and programs (not the theory of computation or programming)
14–06 Proceedings, conferences, collections, etc.
14Axx Foundations
14A05 Relevant commutative algebra [See also 13–XX]
14A10 Varieties
14A15 Schemes
14A20 Generalizations (algebraic spaces, motifs)
14A22 Noncommutative algebraic geometry; algebraic supervarieties [See also 14M30, 32C11, 58A50]
14A25 Elementary questions
14A99 None of the above, but in this section
14Bxx Local theory [See also 32Sxx]
14B05 Singularities [See also 14E15, 14H20, 32Sxx, 58C27]
14B07 Deformations of singularities [See also 14D15, 32Sxx]
14B10 Infinitesimal methods [See also 13D10]

14B12 Local deformation theory, Artin approximation, etc. [See also 13B40, 13D10]
14B15 Local cohomology [See also 13D45, 32C36]
14B20 Formal neighborhoods
14B99 None of the above, but in this section
14Cxx Cycles and subschemes
14C05 Parametrization (Chow and Hilbert schemes)
14C10 Equivalence relations
14C15 Rational equivalence rings
14C17 Intersection theory
14C20 Divisors, linear systems, invertible sheaves
14C21 Pencils, nets, webs [See also 53A60]
14C22 Picard groups
14C25 Algebraic cycles
14C30 Transcendental methods, Hodge theory [See also 14D07, 32G20, 32J25, 32S35], Hodge conjecture
14C34 Torelli problem [See also 32G20]
14C35 Applications of methods of algebraic K-theory [See also 14F05, 19Exx]
14C40 Riemann-Roch theorems [See also 19E20, 19L10]
14C99 None of the above, but in this section
14Dxx Families, fibrations
14D05 Structure of families (Picard-Lefschetz, Picard-Fuchs theory, etc.)
14D07 Variation of Hodge structures
14D10 Arithmetic ground fields (finite, local, global)
14D15 Formal methods; deformations [See also 13D10, 14B07, 16S80, 32Gxx]
14D20 Algebraic moduli problems, moduli of vector bundles {For analytic moduli problems, see 32G13}
14D22 Fine and coarse moduli spaces
14D25 Geometric invariants [See also 14L30]
14D99 None of the above, but in this section
14Exx Mappings and correspondences
14E05 Rational maps, birational correspondences
14E07 Birational automorphisms, Cremona group and generalizations [See also 32G20]
14E09 Automorphisms [See also 14J50, 14L27]
14E10 General correspondences
14E15 Global theory of singularities, resolution [See also 14B05, 32S20, 32S45]
14E20 Coverings, fundamental group (mappings)
14E22 Ramification problems [See also 11S15]
14E25 Embeddings
14E30 Minimal models
14E35 Results in dimension ≤ 3
14E40 Local structure of maps: étale, flat, etc. [See also 13–XX, 14F20]
14E99 None of the above, but in this section
14Fxx (Co)homology theory [See also 13Dxx]
14F05 Vector bundles, sheaves, related construction [See also 18F20, 32Lxx, 46M20]
14F10 Differentials and other special sheaves [See also 32C38]
14F17 Vanishing theorems [See also 32L20]
14F20 Étale and other Grothendieck topologies and cohomologies
14F25 Classical real and complex cohomology
14F30 p-adic cohomology, crystalline cohomology
14F32 Intersection (co)homology [See also 32S60]
14F35 Homotopy theory; fundamental groups [See also 14E20, 14H30]
14F40 de Rham cohomology [See also 14C30, 32C35, 32L10]
14F45 Topological properties
14F99 None of the above, but in this section
14Gxx Arithmetic problems. Diophantine geometry [See also 11Dxx, 11Gxx]
14G05 Rationality questions, rational points
14G10 Zeta-functions and related questions [See also 11G40] (Birch-Swinnerton-Dyer conjecture)
14G15 Finite ground fields
14G20 p-adic ground fields
14G25 Global ground fields
14G27 Nonalgebraically closed ground fields
14G35 Modular and Shimura varieties [See also 11F41, 11F46, 11G18]
14G40 Arithmetic varieties and schemes; Arakelov theory
14G99 None of the above, but in this section
14Hxx Curves
14H05 Algebraic functions; function fields [See also 11R58]
14H10 Families, moduli (algebraic)
14H15 Families, moduli (analytic) [See also 30F10, 32Gxx]
14H20 Singularities, local rings [See also 13Hxx]
14H25 Arithmetic ground fields [See also 11Dxx, 11G05, 14Gxx]
14H30 Coverings, fundamental group [See also 14E20, 14F35]
14H35 Correspondences [See also 14Exx]
14H40 Jacobians [See also 32G20]
14H42 Theta functions; Schottky problem [See also 14K25, 32G20]
14H45 Special curves and curves of low genus
14H50 Space curves
14H52 Elliptic curves [See also 11G05, 11G07, 14Kxx]
14H55 Riemann surfaces; Weierstrass points; gap sequences [See also 30Fxx]
14H60 Vector bundles on curves [See also 14F05]
14H99 None of the above, but in this section
14Jxx Surfaces and higher-dimensional varieties {For analytic theory, see 32Jxx}
14J05 Picard group [See also 14C22, 19A49, 32L05]
14J10 Families, moduli, classification: algebraic theory
14J15 Moduli, classification: analytic theory [See also 32G13, 32J15]
14J17 Singularities of surfaces
14J20 Arithmetic ground fields [See also 11Dxx, 11G25, 11G35, 14Gxx]
14J25 Special surfaces {For Hilbert modular surfaces, see 14G35}
14J26 Rational and ruled surfaces
14J27 Elliptic surfaces
14J28 $K3$ surfaces and Enriques surfaces
14J29 Surfaces of general type
14J30 Special 3-folds [See also 14E05]
14J35 Special 4-folds [See also 14E05]
14J40 Special n-folds
14J45 Fano varieties
14J50 Automorphisms of surfaces and higher-dimensional varieties [See also 14E09]
14J60 Vector bundles on surfaces and higher-dimensional varieties [See also 14F05, 32Lxx]
14J70 Hypersurfaces
14J99 None of the above, but in this section
14Kxx Abelian varieties and schemes
14K02 Isogeny
14K05 Algebraic theory
14K10 Algebraic moduli, classification
14K15 Arithmetic ground fields [See also 11Dxx, 11Fxx, 11Gxx, 14Gxx]
14K20 Analytic theory; abelian integrals and differentials
14K22 Complex multiplication [See also 11G15]
14K25 Theta functions
14K30 Picard schemes, higher Jacobians [See also 14H40, 32G20]
14K99 None of the above, but in this section
14Lxx Group schemes {For linear algebraic groups, see 20Gxx. For Lie algebras, see 17B45}
14L05 Formal groups, p-divisible groups [See also 55N22]
14L10 Group varieties
14L15 Group schemes
14L17 Affine algebraic groups, hyperalgebra constructions [See also 17B45, 18D35]
14L27 Automorphism groups [See also 14E09]
14L30 Group actions on varieties or schemes (quotients) [See also 14D25]
14L35 Classical groups (geometric aspects) [See also 20Gxx, 51N30]
14L40 Other algebraic groups (geometric aspects)
14L99 None of the above, but in this section
14Mxx Special varieties
14M05 Varieties defined by ring conditions (factorial, Cohen-Macaulay, seminormal) [See also 13C14, 13F45, 13H10]
14M06 Linkage [See also 13C40]
14M07 Low-codimension problems [See also 14Cxx]
14M10 Complete intersections [See also 13C40]
14M12 Determinantal varieties [See also 13C40]
14M15 Grassmannians, Schubert varieties, flag manifolds [See also 32M10, 51M35]
14M17 Homogeneous spaces and generalizations [See also 32M10, 53C30, 57T15]
14M20 Rational varieties
14M25 Toric varieties, Newton polyhedra
14M30 Supervarieties [See also 14A22, 32C11, 58A50]
14M99 None of the above, but in this section
14Nxx Classical methods and problems [See also 51–XX]
14N05 Projective techniques [See also 51N35]
14N10 Enumerative problems (combinatorial problems)
14N99 None of the above, but in this section
14Pxx Real algebraic and real analytic geometry
14P05 Real algebraic sets [See also 12Dxx]
14P10 Semialgebraic sets and related spaces
14P15 Real analytic and semianalytic sets [See also 32B20, 32C05]
14P20 Nash functions and manifolds [See also 32C07, 58A07]
14P25 Topology of real algebraic varieties
14P99 None of the above, but in this section
14Qxx Computational aspects in algebraic geometry [See also 12–04, 68Q40]
14Q05 Curves
14Q10 Surfaces, hypersurfaces
14Q15 Higher-dimensional varieties
14Q20 Effectivity
14Q99 None of the above, but in this section

15–XX LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY (finite and infinite)
15–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
15–01 Instructional exposition (textbooks, tutorial papers, etc.)
15–02 Research exposition (monographs, survey articles)
15–03 Historical (must also be assigned at least one classification number from Section 01)
15–04 Explicit machine computation and programs (not the theory of computation or programming)
15–06 Proceedings, conferences, collections, etc.
15A03 Vector spaces, linear dependence, rank
15A04 Linear transformations, semilinear transformations
15A06 Linear equations
15A09 Matrix inversion, generalized inverses
15A12 Conditioning of matrices [See also 65F35]
15A15 Determinants, permanents, other special matrix functions [See also 19B10, 19B14]
15A18 Eigenvalues, singular values, and eigenvectors
15A21 Canonical forms, reductions, classification
15A22 Matrix pencils [See also 47A56]
15A23 Factorization of matrices
15A24 Matrix equations and identities
15A27 Commutativity
15A30 Algebraic systems of matrices [See also 16S50, 20Gxx, 20Hxx]
15A33 Matrices over special rings (quaternions, finite fields, etc.)
15A36 Matrices of integers [See also 11C20]
15A39 Linear inequalities
15A42 Inequalities involving eigenvalues and eigenvectors
15A45 Miscellaneous inequalities involving matrices
15A48 Positive matrices and their generalizations; cones of matrices
15A51 Stochastic matrices
15A52 Random matrices
15A54 Matrices over function rings in one or more variables
15A57 Other types of matrices (Hermitian, skew-Hermitian, etc.)
15A60 Norms of matrices, numerical range, applications of functional analysis to matrix theory [See also 65F35, 65J05]
15A63 Quadratic and bilinear forms, inner products [See mainly 11Exx]
15A66 Clifford algebras, spinors
15A69 Multilinear algebra, tensor products
15A72 Vector and tensor algebra, theory of invariants [See also 13A50, 14D25]
15A75 Exterior algebra, Grassmann algebras
15A78 Other algebras built from modules
15A90 Applications of matrix theory to physics
15A99 Miscellaneous topics

16–XX ASSOCIATIVE RINGS AND ALGEBRAS {For the commutative case, see 13–XX}
16–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
16–01 Instructional exposition (textbooks, tutorial papers, etc.)
16–02 Research exposition (monographs, survey articles)
16–03 Historical (must also be assigned at least one classification number from Section 01)
16–04 Explicit machine computation and programs (not the theory of computation or programming)
16–06 Proceedings, conferences, collections, etc.
16Bxx General and miscellaneous
16B50 Category-theoretic methods and results (except as in 16D90, 16E10) [See also 18–XX]
16B70 Applications of logic [See also 03Cxx]
16B99 None of the above, but in this section
16Dxx Modules, bimodules and ideals
16D10 General module theory
16D15 1-sided ideals
16D20 Bimodules
16D25 2-sided ideals
16D30 Maximal and prime 2-sided ideals [See also 16N60, 16D60], simple rings (except as in 16Kxx)
16D40 Free, projective, and flat modules and ideals [See also 18G05, 19A13]
16D50 Injective modules, self-injective rings [See also 16L60, 18G05]
16D60 Simple and semisimple modules, primitive rings and ideals
16D70 Structure and classification (except as in 16Gxx), direct sum decomposition, cancellation
16D80 Other classes of modules and ideals [See also 16G60]
16D90 Module categories [See also 16Exx, 16Gxx, 16S90]; module theory in a category-theoretic context; Morita equivalence and duality
16D99 None of the above, but in this section
16Exx Homological methods and results [See also 18Gxx]
16E10 Homological dimension
16E20 Grothendieck groups, K-theory, etc. [See also 18F30, 19–XX]
16E30 Homological functors on modules
16E40 Hochschild and other homology and cohomology theories for rings
16E50 von Neumann regular rings and generalizations
16E60 Semihereditary and hereditary rings, free ideal rings, Sylvester rings, etc.
16E70 Other rings of low global or flat dimension
16E99 None of the above, but in this section
16Gxx Representation theory of rings and algebras
16G10 Representations of Artinian rings
16G20 Representations of quivers and partially ordered sets
16G30 Representations of orders, lattices, algebras over commutative rings [See also 16H05]
16G50 Cohen-Macaulay modules
16G60 Representation type (finite, tame, wild, etc.)
16G70 Auslander-Reiten sequences (almost split sequences) and Auslander-Reiten quivers
16G99 None of the above, but in this section
16H05 Orders and arithmetic, separable algebras, Azumaya algebras [See also 11R52, 11R54, 11S45, 13A20]
16Kxx Division rings and semisimple Artinian rings [See also 12E15, 15A30]
16K20 Finite-dimensional {For Brauer group theory, see 12Gxx, 13A20; for crossed products, see 16S35}
16K40 Infinite-dimensional and general
16K99 None of the above, but in this section
16Lxx Local rings and generalizations
16L30 Noncommutative local and semilocal rings, perfect rings
16L60 Quasi-Frobenius rings [See also 16D50]
16L99 None of the above, but in this section
16Nxx Radicals and radical properties of rings
16N20 Jacobson radical, quasimultiplication
16N40 Nil and nilpotent radicals, sets, ideals, rings
16N60 Prime and semiprime rings [See also 16D30, 16D60, 16U10]
16N80 General radicals and rings {For radicals in module categories, see 16S90}
16N99 None of the above, but in this section
16Pxx Chain conditions, growth conditions, and other forms of finiteness
16P10 Finite rings and finite-dimensional algebras {For semisimple, see 16K20; for commutative, see 11Txx, 13Mxx}
16P20 Artinian rings and modules
16P40 Noetherian rings and modules
16P50 Localization and Noetherian rings [See also 16U20]
16P60 Chain conditions on annihilators and summands: Goldie type conditions [See also 16U20], Krull dimension
16P70 Chain conditions on other classes of submodules, ideals, subrings, etc.; coherence
16P90 Growth rate, Gel′fand-Kirillov dimension
16P99 None of the above, but in this section
16Rxx Rings with polynomial identity
16R10 T-ideals, identities, varieties of rings and algebras
16R20 Semiprime p.i. rings, rings embeddable in matrices over commutative rings
16R30 Trace rings and invariant theory
16R40 Identities other than those of matrices over commutative rings
16R50 Other kinds of identities (generalized polynomial, rational, involution)
16R99 None of the above, but in this section
16Sxx Rings and algebras arising under various constructions
16S10 Rings determined by universal properties (free algebras, coproducts, adjunction of inverses, etc.)
16S15 Finite generation, finite presentability, normal forms (diamond lemma, term-rewriting)
16S20 Centralizing and normalizing extensions
16S30 Universal enveloping algebras of Lie algebras [See mainly 17B35]
16S32 Rings of differential operators [See also 13N10, 32C38]
16S34 Group rings [See also 20C05, 20C07], Laurent polynomial rings
16S35 Twisted and skew group rings, crossed products
16S36 Ordinary and skew polynomial rings and semigroup rings [See also 20M25]
16S40 Smash products of general Hopf actions [See also 16W30]
16S50 Endomorphism rings; matrix rings [See also 15–XX]
16S60 Rings of functions, subdirect products, sheaves of rings
16S70 Extensions of rings by ideals
16S80 Deformations of rings [See also 14D15]
16S90 Maximal ring of quotients, torsion theories, radicals on module categories [See also 13D30, 18E40] {For radicals of rings see 16Nxx}
16S99 None of the above, but in this section
16Uxx Conditions on elements (including elements of matrix rings, etc.)
16U10 Integral domains
16U20 Ore rings, multiplicative sets, Ore localization
16U30 Divisibility, noncommutative UFDs
16U50 Algebraicity and local finiteness [See also 16N40]
16U60 Units, groups of units, general linear groups
16U70 Center, normalizer (invariant elements)
16U80 Generalizations of commutativity
16U99 None of the above, but in this section

16Wxx Rings and algebras with additional structure
16W10 Rings with involution; Lie, Jordan and other nonassociative structures [See also 17B60, 17C50, 46Kxx]
16W20 Automorphisms and endomorphisms, actions of groups and semigroups and their fixed rings
16W25 Derivations, actions of Lie algebras
16W30 Coalgebras, bialgebras, Hopf algebras [See also 57T05, 16S30–16S40]; rings, modules, etc. on which these act
16W50 Graded rings and modules
16W55 "Super" (or "skew") structure [See also 17A70, 17B70, 17C70] {For exterior algebras, see 15A75; for Clifford algebras, see 11E88, 15A66}
16W60 Filtrations and valuations, generalizations of Euclidean algorithm, completions, formal power series and related constructions [See also 13Jxx]
16W80 Topological and ordered rings and modules [See also 13Jxx]
16W99 None of the above, but in this section
16Yxx Generalizations {For nonassociative rings, see 17–xx}
16Y30 Near-rings [See also 12K05]
16Y60 Semirings [See also 12K10]
16Y99 None of the above, but in this section

17–XX NONASSOCIATIVE RINGS AND ALGEBRAS
17–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
17–01 Instructional exposition (textbooks, tutorial papers, etc.)
17–02 Research exposition (monographs, survey articles)
17–03 Historical (must also be assigned at least one classification number from Section 01)
17–04 Explicit machine computation and programs (not the theory of computation or programming)
17–06 Proceedings, conferences, collections, etc.
17–08 Computational methods
17Axx General nonassociative rings
17A01 General theory
17A05 Power-associative
17A10 Commutative power-associative
17A15 Noncommutative Jordan algebras
17A20 Flexible algebras
17A25 Nodal algebras
17A30 Algebras satisfying other identities
17A35 Division algebras
17A36 Automorphisms, derivatives, other operators
17A40 Ternary compositions
17A42 Other n-ary compositions
17A45 Quadratic algebras (but not quadratic Jordan algebras)
17A50 Free algebras
17A60 Structure theory
17A65 Radical theory
17A70 Superalgebras
17A75 Composition algebras
17A80 Valued algebras
17A99 None of the above, but in this section
17Bxx Lie algebras {For Lie groups, see 22Exx}
17B01 Identities, free Lie algebras
17B05 Structure theory
17B10 Representations, algebraic theory (weights)
17B15 Representations, analytic theory
17B20 Simple, semisimple, reductive algebras (roots)
17B25 Exceptional algebras
17B30 Solvable, nilpotent algebras
17B35 Universal enveloping algebras [See also 16S30]
17B37 Quantum groups and related deformations [See also 16W30, 81R50, 82B23]
17B40 Automorphisms, derivations, other operators
17B45 Lie algebras of linear algebraic groups [See also 14Lxx and 20Gxx]
17B50 Modular Lie algebras
17B55 Homological methods in Lie algebras
17B56 Cohomology of Lie algebras
17B60 Lie rings associated with other structures (associative, Jordan, etc.) [See also 15A30, 16W10, 17C40, 17C50]
17B65 Infinite-dimensional Lie algebras [See also 22E65]
17B66 Lie algebras of vector fields and related algebras
17B67 Kac-Moody algebras (structure and representation theory)
17B68 Virasoro and related algebras
17B70 Graded Lie algebras
17B81 Applications to physics
17B99 None of the above, but in this section
17Cxx Jordan algebras (algebras, triples and pairs)
17C05 Identities and free Jordan structures
17C10 Structure theory
17C17 Radicals
17C20 Simple, semisimple algebras
17C27 Idempotents, Peirce decompositions
17C30 Associated groups, automorphisms
17C36 Associated manifolds
17C37 Associated geometries
17C40 Exceptional Jordan structures
17C50 Jordan structures associated with other structures [See also 16W10]
17C55 Finite-dimensional structures
17C60 Division algebras
17C65 Jordan structures on Banach spaces and algebras [See also 46H70, 46L70]
17C70 Super structures
17C90 Applications to physics
17C99 None of the above, but in this section
17Dxx Other nonassociative rings and algebras
17D05 Alternative rings
17D10 Mal'cev (Mal'tsev) rings and algebras
17D15 Right alternative rings
17D20 (γ, δ)-rings, including $(1, -1)$-rings
17D25 Lie-admissible algebras
17D92 Genetic algebras
17D99 None of the above, but in this section

18–XX CATEGORY THEORY, HOMOLOGICAL ALGEBRA
18–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
18–01 Instructional exposition (textbooks, tutorial papers, etc.)
18–02 Research exposition (monographs, survey articles)
18–03 Historical (must also be assigned at least one classification number from Section 01)
18–04 Explicit machine computation and programs (not the theory of computation or programming)
18–06 Proceedings, conferences, collections, etc.
18Axx General theory of categories and functors
18A05 Definitions, generalizations
18A10 Graphs, diagram schemes, precategories, neocategories [See also 20Lxx]
18A15 Foundations, relations to logic and deductive systems [See also 03–XX]
18A20 Epimorphisms, monomorphisms, special classes of morphisms, null morphisms, factorization (bicategories)
18A22 Special properties of functors (faithful, full, etc.)
18A23 Natural morphisms, dinatural morphisms
18A25 Functor categories, comma categories
18A30 Limits and colimits (products, sums, directed limits, pushouts, fiber products, equalizers, kernels, ends and coends, etc.)
18A32 Factorization of morphisms (via images, coimages, dominions, codominions), substructures, quotient structures, congruences, amalgams
18A35 Categories admitting limits (complete categories), functors commuting with limits, continuous functors, completions
18A40 Adjoint functors (representable functors, universal constructions, reflective subcategories, reflections, etc.), constructions of adjoints (Kan extensions, etc.)
18A99 None of the above, but in this section
18Bxx Special categories
18B05 Category of sets, characterizations [See also 03–XX]
18B10 Category of relations, additive relations
18B15 Embedding theorems, universal categories [See also 18E20]
18B20 Categories of machines, automata, operative categories [See also 03D05, 68Qxx]
18B25 Topoi [See also 03G30]
18B30 Categories of topological spaces and continuous mappings [See also 54–XX]
18B35 Preorders, orders and lattices (viewed as categories) [See also 06–XX]
18B40 Groupoids, semigroupoids, semigroups, groups (viewed as categories) [See also 20Axx, 20Lxx, 20Mxx]
18B99 None of the above, but in this section
18Cxx Categories and algebraic theories
18C05 Equational categories [See also 03C05, 08C05]
18C10 Theories (e.g. algebraic theories), structure, and semantics [See also 03G30]
18C15 Triples (= standard construction, monad or triad), algebras for a triple, homology and derived functors for triples [See also 18Gxx]
18C20 Algebras and Kleisli categories associated with monads
18C99 None of the above, but in this section
18Dxx Categories with structure
18D05 Double categories, 2-categories, bicategories, hypercategories
18D10 Monoidal categories (= multiplicative categories) [See also 19D23]
18D15 Closed categories (closed monoidal and Cartesian closed categories, etc.)
18D20 Enriched categories (over closed or monoidal categories)
18D25 Strong functors, strong adjunctions
18D30 Fibered categories
18D35 Structured objects in a category (group objects, etc.)
18D99 None of the above, but in this section

18Exx Abelian categories
18E05 Preadditive, additive categories
18E10 Exact categories, abelian categories
18E15 Grothendieck categories
18E20 Embedding theorems [See also 18B15]
18E25 Derived functors and satellites
18E30 Derived categories, triangulated categories
18E35 Localization of categories
18E40 Torsion theories, radicals [See also 13D30, 16S90]
18E99 None of the above, but in this section
18Fxx Categories and geometry
18F05 Local categories and functors
18F10 Grothendieck topologies [See also 14F20]
18F15 Abstract manifolds and fiber bundles [See also 55Rxx, 57Pxx]
18F20 Presheaves and sheaves [See also 14F05, 32C35, 32L10, 54B40, 55N30]
18F25 Algebraic K-theory and L-theory [See also 11Exx, 11R70, 11S70, 12-XX, 13D15, 14Cxx, 16E20, 19-XX, 46L80, 57R65, 57R67]
18F30 Grothendieck groups [See also 13D15, 16E20, 19Axx]
18F99 None of the above, but in this section
18Gxx Homological algebra [See also 13Dxx, 16Exx, 55Uxx]
18G05 Projectives and injectives [See also 13C10, 13C11, 16D40, 16D50]
18G10 Resolutions; derived functors [See also 18E25]
18G15 Ext and Tor, generalizations, Künneth formula [See also 55U25]
18G20 Homological dimension [See also 13D05, 16E10]
18G25 Relative homological algebra, projective classes
18G30 Simplicial sets, simplicial objects (in a category) [See also 55U10]
18G35 Chain complexes [See also 18E30, 55U15]
18G40 Spectral sequences, hypercohomology [See also 55Txx]
18G50 Nonabelian homological algebra
18G55 Nonabelian homotopical algebra
18G60 Other (co)homology theories (cyclic, dihedral, etc.) [See also 19D55, 46L80, 58B30, 58G12]
18G99 None of the above, but in this section

19-XX K-THEORY [See also 16E20, 18F25]
19-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
19-01 Instructional exposition (textbooks, tutorial papers, etc.)
19-02 Research exposition (monographs, survey articles)
19-03 Historical (must also be assigned at least one classification number from Section 01)
19-04 Explicit machine computation and programs (not the theory of computation or programming)
19-06 Proceedings, conferences, collections, etc.
19Axx Grothendieck groups and K_0 [See also 13D15, 18F30]
19A13 Stability for projective modules [See also 13C10]
19A15 Efficient generation
19A22 Frobenius induction, Burnside and representation rings
19A31 K_0 of group rings and orders
19A49 K_0 of other rings
19A99 None of the above, but in this section
19Bxx Whitehead groups and K_1
19B10 Stable range conditions
19B14 Stability for linear groups
19B28 K_1 of group rings and orders [See also 57Q10]
19B37 Congruence subgroup problems [See also 20H05]
19B99 None of the above, but in this section
19Cxx Steinberg groups and K_2
19C09 Central extensions and Schur multipliers
19C20 Symbols, presentations and stability of K_2
19C30 K_2 and the Brauer group
19C40 Excision for K_2
19C99 None of the above, but in this section
19Dxx Higher algebraic K-theory
19D06 Q- and plus-constructions
19D10 Algebraic K-theory of spaces
19D23 Symmetric monoidal categories [See also 18D10]
19D25 Karoubi-Villamayor-Gersten K-theory
19D35 Negative K-theory, NK and Nil
19D45 Higher symbols, Milnor K-theory
19D50 Computations of higher K-theory of rings [See also 13D15, 16E20]
19D55 K-theory and homology; cyclic homology and cohomology [See also 18G60]
19D99 None of the above, but in this section
19Exx K-theory in geometry
19E08 K-theory of schemes [See also 14C35]
19E15 Algebraic cycles [See also 14C25, 14C35]
19E20 Relations with cohomology theories [See also 14Fxx]
19E99 None of the above, but in this section
19Fxx K-theory in number theory [See also 11R70, 11S70]
19F05 Generalized class field theory [See also 11G45]
19F15 Symbols and arithmetic [See also 11R37]
19F27 Étale cohomology, higher regulators, zeta and L-functions [See also 11G40, 11R42, 11S40, 14F20, 14G10]
19F99 None of the above, but in this section
19Gxx K-theory of forms [See also 11Exx]
19G05 Stability for quadratic modules
19G12 Witt groups of rings [See also 11E81]
19G24 L-theory of group rings [See also 11E81]
19G38 Hermitian K-theory, relations with K-theory of rings
19G99 None of the above, but in this section
19Jxx Obstructions from topology
19J05 Finiteness and other obstructions in K_0
19J10 Whitehead (and related) torsion
19J25 Surgery obstructions [See also 57R67]
19J35 Obstructions to group actions
19J99 None of the above, but in this section
19Kxx K-theory and operator algebras [See mainly 46L80, and also 46M20]
19K14 K_0 as an ordered group, traces
19K33 EXT and K-homology [See also 55N22]
19K35 Kasparov theory (KK-theory) [See also 58G12]
19K56 Index theory [See also 58G12]
19K99 None of the above, but in this section
19Lxx Topological K-theory [See also 55N15, 55R50, 55S25]
19L10 Riemann-Roch theorems, Chern characters
19L20 J-homomorphism, Adams operations [See also 55Q50]
19L41 Connective K-theory, cobordism [See also 55N22]
19L47 Equivariant K-theory [See also 55N91, 55P91, 55Q91, 55R91, 55S91]
19L64 Computations, geometric applications
19L99 None of the above, but in this section
19M05 Miscellaneous applications of K-theory

20-XX GROUP THEORY AND GENERALIZATIONS
20-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
20-01 Instructional exposition (textbooks, tutorial papers, etc.)
20-02 Research exposition (monographs, survey articles)
20-03 Historical (must also be assigned at least one classification number from Section 01)
20-04 Explicit machine computation and programs (not the theory of computation or programming)
20-06 Proceedings, conferences, collections, etc.
20Axx Foundations
20A05 Axiomatics and elementary properties
20A10 Metamathematical considerations {For word problems, see 20F10}
20A15 Applications of logic to group theory
20A99 None of the above, but in this section
20Bxx Permutation groups
20B05 General theory for finite groups
20B07 General theory for infinite groups
20B10 Characterization theorems
20B15 Primitive groups
20B20 Multiply transitive finite groups
20B22 Multiply transitive infinite groups
20B25 Finite automorphism groups of algebraic, geometric, or combinatorial structures [See also 05Bxx, 12F10, 20G40, 20H30, 51-XX]
20B27 Infinite automorphism groups [See also 12F10]
20B30 Symmetric groups
20B35 Subgroups of symmetric groups
20B40 Computational methods
20B99 None of the above, but in this section
20Cxx Representation theory of groups [See also 19A22 (for representation rings and Burnside rings)]
20C05 Group rings of finite groups and their modules [See also 16S34]
20C07 Group rings of infinite groups and their modules [See also 16S34]
20C10 Integral representations of finite groups
20C11 p-adic representations of finite groups
20C12 Integral representations of infinite groups
20C15 Ordinary representations and characters
20C20 Modular representations and characters
20C25 Projective representations and multipliers
20C30 Representations of finite symmetric groups
20C32 Representations of infinite symmetric groups
20C33 Representations of finite groups of Lie type
20C34 Representations of sporadic groups
20C35 Applications of group representations to physics
20C40 Computational methods
20C99 None of the above, but in this section
20Dxx Abstract finite groups
20D05 Classification of simple and nonsolvable groups
20D06 Simple groups: alternating groups and groups of Lie type [See also 20Gxx, 22Exx]

20D08 Simple groups; sporadic groups
20D10 Solvable groups, theory of formations, Schunck classes, Fitting classes, π-length, ranks [See also 20F17]
20D15 Nilpotent groups, p-groups
20D20 Sylow subgroups, Sylow properties, π-groups, π-structure
20D25 Special subgroups (Frattini, Fitting, etc.)
20D30 Series and lattices of subgroups
20D35 Subnormal subgroups
20D40 Products of subgroups
20D45 Automorphisms
20D50 Covering of subgroups
20D60 Arithmetic and combinatorial problems
20D99 None of the above, but in this section
20Exx Structure and classification of infinite or finite groups
20E05 Free nonabelian groups
20E06 Free products, free products with amalgamation, Higman-Neumann-Neumann extensions, and generalizations
20E07 Subgroup theorems
20E08 Groups acting on trees
20E10 Quasivarieties and varieties of groups
20E15 Chains and lattices of subgroups, subnormal subgroups [See also 20F22]
20E18 Limits, profinite groups
20E22 Extensions, wreath products, and other compositions [See also 20J05]
20E25 Local properties
20E26 Residual properties and generalizations
20E28 Maximal subgroups
20E32 Simple groups [See also 20D05]
20E34 General structure theorems
20E36 General theorems concerning automorphisms of groups
20E42 Groups with a BN-pair; buildings [See also 51E24]
20E99 None of the above, but in this section
20Fxx Special aspects of infinite or finite groups
20F05 Generators, relations, and presentations
20F06 Cancellation theory; application of van Kampen diagrams [See also 57M05]
20F10 Word problems, other decision problems, connections with logic and automata [See also 03B25, 03D05, 03D40, 06B25, 08A50, 68Qxx]
20F12 Commutator calculus
20F14 Derived series, central series, and generalizations
20F16 Solvable groups, supersolvable groups
20F17 Formations of groups, Fitting classes [See also 20D10]
20F18 Nilpotent groups
20F19 Generalizations of solvable and nilpotent groups
20F22 Other classes of groups defined by subgroup chains
20F24 FC-groups and their generalizations
20F28 Automorphism groups of groups [See also 20E36]
20F29 Representations of groups as automorphism groups of algebraic systems
20F32 Geometric group theory [See also 05C25, 20Exx, 20Gxx]
20F34 Fundamental groups and their automorphisms [See also 57M05, 57Sxx, 22E40]
20F36 Braid groups; Artin groups
20F38 Other groups related to topology or analysis
20F40 Associated Lie structures
20F45 Engel conditions
20F50 Periodic groups; locally finite groups
20F55 Coxeter groups [See also 22E40]
20F60 Ordered groups [See mainly 06F15]
20F99 None of the above, but in this section
20Gxx Linear algebraic groups (classical groups) {For arithmetic theory, see 11E57, 11H06; for geometric theory, see 14Lxx, 22Exx; for other methods in representation theory, see 15A30, 22E45, 22E46, 22E47, 22E50, 22E55}
20G05 Representation theory
20G10 Cohomology theory
20G15 Linear algebraic groups over arbitrary fields
20G20 Linear algebraic groups over the reals, the complexes, the quaternions
20G25 Linear algebraic groups over local fields and their integers
20G30 Linear algebraic groups over global fields and their integers
20G35 Linear algebraic groups over adèles and other rings and schemes
20G40 Linear algebraic groups over finite fields
20G45 Applications to physics; explicit representations
20G99 None of the above, but in this section
20Hxx Other groups of matrices [See also 15A30]
20H05 Unimodular groups, congruence subgroups [See also 11F06, 19B37, 22E40, 51F20]
20H10 Fuchsian groups and their generalizations [See also 11F06, 22E40, 30F35, 32Nxx]
20H15 Other geometric groups, including crystallographic groups [See also 51–XX, especially 51F15, and 82D25]
20H20 Other matrix groups over fields
20H25 Other matrix groups over rings
20H30 Other matrix groups over finite fields
20H99 None of the above, but in this section
20Jxx Connections with homological algebra and category theory
20J05 Homological methods in group theory
20J06 Cohomology of finite groups
20J10 Groups arising as cohomology groups
20J15 Category of groups
20J99 None of the above, but in this section
20Kxx Abelian groups
20K01 Finite abelian groups
20K05 Finitely generated groups
20K10 Torsion groups, primary groups and generalized primary groups
20K12 Ulm sequences
20K15 Torsion free groups, finite rank
20K20 Torsion free groups, infinite rank
20K21 Mixed groups
20K25 Direct sums, direct products, etc.
20K26 Indecomposable groups
20K27 Subgroups
20K30 Automorphisms, homomorphisms, endomorphisms, etc.
20K35 Extensions
20K40 Homological and categorical methods
20K45 Topological methods [See also 22A05, 22B05]
20K99 None of the above, but in this section
20Lxx Groupoids (i.e. small categories in which all morphisms are isomorphisms) {For sets with a single binary operation, see 20N02; for topological groupoids, see 22A22, 58H05}
20L05 General theory
20L10 Connections with group theory
20L13 Mappings of groupoids
20L15 Connections with topology
20L17 Connections with category theory
20L99 None of the above, but in this section
20Mxx Semigroups
20M05 Free semigroups, generators and relations, word problems
20M07 Varieties of semigroups
20M10 General structure theory
20M11 Radical theory
20M12 Ideal theory
20M14 Commutative semigroups
20M15 Mappings of semigroups
20M17 Regular semigroups
20M18 Inverse semigroups
20M19 Orthodox semigroups
20M20 Semigroups of transformations, etc. [See also 47D03, 47H20, 54H15]
20M25 Semigroup rings, multiplicative semigroups of rings [See also 16S36, 16Y60]
20M30 Representation of semigroups
20M35 Semigroups in automata theory, linguistics, etc. [See also 03D05, 68Qxx, 68S05]
20M50 Connections of semigroups with homological algebra and category theory
20M99 None of the above, but in this section
20Nxx Other generalizations of groups
20N02 Sets with a single binary operation (groupoids)
20N05 Loops, quasigroups [See also 05Bxx]
20N07 Mappings of loops
20N10 Ternary systems (heaps, semiheaps, heapoids, etc.)
20N15 n-ary systems
20N20 Hypergroups
20N25 Fuzzy groups [See also 04A72]
20N99 None of the above, but in this section
20P05 Probabilistic methods in group theory

22–XX TOPOLOGICAL GROUPS, LIE GROUPS {For transformation groups, see 54H15, 57Sxx, 58–XX. For abstract harmonic analysis, see 43–XX}
22–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
22–01 Instructional exposition (textbooks, tutorial papers, etc.)
22–02 Research exposition (monographs, survey articles)
22–03 Historical (must also be assigned at least one classification number from Section 01)
22–04 Explicit machine computation and programs (not the theory of computation or programming)
22–06 Proceedings, conferences, collections, etc.
22Axx Topological and differentiable algebraic systems {For topological rings and fields, see 12Jxx, 13Jxx, 16W80; for dual spaces of operator algebras and topological groups, see 47D35}
22A05 Structure of general topological groups
22A10 Analysis on general topological groups
22A15 Structure of topological semigroups

22A20 Analysis on topological semigroups
22A22 Topological groupoids (including differentiable and Lie groupoids)
22A25 Representations of general topological groups and semigroups
22A26 Topological semilattices, lattices and applications [See also 06B30, 06B35, 06F30]
22A30 Other topological algebraic systems and their representations
22A99 None of the above, but in this section
22Bxx Locally compact abelian groups (LCA groups)
22B05 General properties and structure of LCA groups
22B10 Structure of group algebras of LCA groups
22B99 None of the above, but in this section
22C05 Compact groups
22Dxx Locally compact groups and their algebras
22D05 General properties and structure of locally compact groups
22D10 Unitary representations of locally compact groups
22D12 Other representations of locally compact groups
22D15 Group algebras of locally compact groups
22D20 Representations of group algebras
22D25 C^*-algebras and W^*-algebras arising from group representations [See also 46Lxx]
22D30 Induced representations
22D35 Duality theorems
22D40 Ergodic theory on groups [See also 28Dxx, 43A60]
22D45 Automorphism groups of locally compact groups
22D99 None of the above, but in this section
22Exx Lie groups {For the topology of Lie groups and homogeneous spaces, see 57Sxx, 57Txx; for analysis thereon, see 43A80, 43A85, 43A90}
22E05 Local Lie groups [See also 34-XX, 35-XX, 58H05]
22E10 General properties and structure of complex Lie groups [See also 32M05]
22E15 General properties and structure of real Lie groups
22E20 General properties and structure of other Lie groups
22E25 Nilpotent and solvable Lie groups
22E27 Representations of nilpotent and solvable Lie groups (special orbital integrals, non-type I representations, etc.)
22E30 Analysis on real and complex Lie groups [See also 33C80, 43-XX]
22E35 Analysis on p-adic Lie groups [See also 11R56]
22E40 Discrete subgroups of Lie groups [See also 20Hxx, 32Nxx]
22E41 Continuous cohomology [See also 57R32, 57Txx, 58H10]
22E43 Structure and representation of the Lorentz group
22E45 Representations of Lie and linear algebraic groups over real fields: analytic methods {For the purely algebraic theory, see 20G05}
22E46 Semisimple Lie groups and their representations
22E47 Representations of Lie and real algebraic groups: algebraic methods (Verma modules, etc.) [See also 17B35]
22E50 Representations of Lie and linear algebraic groups over local fields
22E55 Representations of Lie and linear algebraic groups over global fields and adèle rings [See also 20G05]
22E60 Lie algebras of Lie groups {For the algebraic theory of Lie algebras, see 17Bxx}
22E65 Infinite-dimensional Lie groups and their Lie algebras [See also 17B65, 58B25, 58H05]
22E67 Loop groups and related constructions, group-theoretic treatment [See also 58D05]
22E70 Applications of Lie groups to physics; explicit representations [See also 81R05, 81R10]
22E99 None of the above, but in this section

26-XX REAL FUNCTIONS [See also 54C30]
26-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
26-01 Instructional exposition (textbooks, tutorial papers, etc.)
26-02 Research exposition (monographs, survey articles)
26-03 Historical (must also be assigned at least one classification number from Section 01)
26-04 Explicit machine computation and programs (not the theory of computation or programming)
26-06 Proceedings, conferences, collections, etc.
26Axx Functions of one variable
26A03 Foundations: limits and generalizations, elementary topology of the line
26A06 One-variable calculus
26A09 Elementary functions
26A12 Rate of growth of functions, orders of infinity, slowly varying functions [See also 26A48]
26A15 Continuity and related questions (modulus of continuity, semicontinuity, discontinuities, etc.) {For properties determined by Fourier coefficients, see 42A16; for those determined by approximation properties, see 41A25, 41A27}
26A16 Lipschitz (Hölder) classes
26A18 Iteration [See also 39B12, 47H10, 54H25, 58F08, 58F13]
26A21 Classification of real functions; Baire classification of sets and functions [See also 04A15, 28A05, 54C50]
26A24 Differentiation (functions of one variable): general theory, generalized derivatives, mean-value theorems [See also 28A15]
26A27 Nondifferentiability (nondifferentiable functions, points of nondifferentiability), discontinuous derivatives
26A30 Singular functions, Cantor functions, functions with other special properties
26A33 Fractional derivatives and integrals
26A36 Antidifferentiation
26A39 Denjoy and Perron integrals, other special integrals
26A42 Integrals of Riemann, Stieltjes and Lebesgue type [See also 28-XX]
26A45 Functions of bounded variation, generalizations
26A46 Absolutely continuous functions
26A48 Monotonic functions, generalizations
26A51 Convexity, generalizations
26A99 None of the above, but in this section
26Bxx Functions of several variables
26B05 Continuity and differentiation questions
26B10 Implicit function theorems, Jacobians, transformations with several variables
26B12 Calculus of vector functions
26B15 Integration: length, area, volume [See also 28A75, 51M25]
26B20 Integral formulas (Stokes, Gauss, Green, etc.)
26B25 Convexity, generalizations
26B30 Absolutely continuous functions, functions of bounded variation
26B35 Special properties of functions of several variables, Hölder conditions, etc.
26B40 Representation and superposition of functions
26B99 None of the above, but in this section
26Cxx Polynomials, rational functions
26C05 Polynomials: analytic properties, etc. [See also 12Dxx, 12Exx]
26C10 Polynomials: location of zeros [See also 12D10, 30C15, 65H05]
26C15 Rational functions [See also 14Pxx]
26C99 None of the above, but in this section
26Dxx Inequalities {For maximal function inequalities, see 42B25; for functional inequalities, see 39B72; for probabilistic inequalities, see 60E15}
26D05 Inequalities for trigonometric functions and polynomials
26D07 Inequalities involving other types of functions
26D10 Inequalities involving derivatives and differential and integral operators
26D15 Inequalities for sums, series and integrals
26D20 Other analytical inequalities
26D99 None of the above, but in this section
26Exx Miscellaneous topics [See also 58Cxx]
26E05 Real-analytic functions [See also 32B05, 32C05]
26E10 C^∞-functions, quasi-analytic functions [See also 58C25]
26E15 Calculus of functions on infinite-dimensional spaces [See also 46G05, 58Cxx]
26E20 Calculus of functions taking values in infinite-dimensional spaces [See also 46E40, 46G10, 58Cxx]
26E25 Set-valued functions [See also 28B20, 54C60] {For nonsmooth analysis, see 49J52, 58Cxx, 90Cxx}
26E30 Non-Archimedean analysis [See also 12J25]
26E35 Nonstandard analysis [See also 03H05, 28E05, 54J05]
26E40 Constructive real analysis [See also 03F60, 03F65]
26E50 Fuzzy real analysis [See also 04A72, 28E10]
26E99 None of the above, but in this section

28-XX MEASURE AND INTEGRATION {For analysis on manifolds, see 58-XX}
28-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
28-01 Instructional exposition (textbooks, tutorial papers, etc.)
28-02 Research exposition (monographs, survey articles)
28-03 Historical (must also be assigned at least one classification number from Section 01)
28-04 Explicit machine computation and programs (not the theory of computation or programming)
28-06 Proceedings, conferences, collections, etc.
28Axx Classical measure theory
28A05 Classes of sets (Borel fields, σ-rings, etc.), measurable sets, Suslin sets, analytic sets [See also 03E15, 04A15, 26A21, 54H05]
28A10 Real- or complex-valued set functions
28A12 Contents, measures, outer measures, capacities
28A15 Abstract differentiation theory, differentiation of set functions [See also 26A24]
28A20 Measurable and nonmeasurable functions, sequences of measurable functions, modes of convergence
28A25 Integration with respect to measures and other set functions
28A33 Spaces of measures, convergence of measures [See also 46E27, 60Bxx]
28A35 Measures and integrals in product spaces
28A50 Integration and disintegration of measures
28A51 Lifting theory [See also 46G15]
28A60 Measures on Boolean rings, measure algebras [See also 54H10]

28A75 Length, area, volume, other geometric measure theory [See also 26B15, 49Q15]
28A78 Hausdorff measures
28A80 Fractals [See also 58Fxx]
28A99 None of the above, but in this section
28Bxx Set functions, measures and integrals with values in abstract spaces
28B05 Vector-valued set functions, measures and integrals [See also 46G10]
28B10 Group- or semigroup-valued set functions, measures and integrals
28B15 Set functions, measures and integrals with values in ordered spaces
28B20 Set-valued set functions and measures; integration of set-valued functions; measurable selections [See also 26E25, 54C60, 54C65, 90A14]
28B99 None of the above, but in this section
28Cxx Set functions and measures on spaces with additional structure [See also 46G12, 58C35, 58D20]
28C05 Integration theory via linear functionals (Radon measures, Daniell integrals, etc.), representing set functions and measures
28C10 Set functions and measures on topological groups, Haar measures, invariant measures [See also 22Axx, 43A05]
28C15 Set functions and measures on topological spaces (regularity of measures, etc.)
28C20 Set functions and measures and integrals in infinite-dimensional spaces (Wiener measure, Gaussian measure, etc.) [See also 46G12, 58C35, 58D20, 60B11]
28C99 None of the above, but in this section
28Dxx Measure-theoretic ergodic theory [See also 11K50, 11K55, 22D40, 47A35, 54H20, 58Fxx, 60Fxx, 60G10]
28D05 Measure-preserving transformations
28D10 One-parameter continuous families of measure-preserving transformations
28D15 General groups of measure-preserving transformations
28D20 Entropy and other invariants
28D99 None of the above, but in this section
28Exx Miscellaneous topics in measure theory
28E05 Nonstandard measure theory [See also 03H05, 26E35]
28E10 Fuzzy measure theory [See also 04A72, 26E50, 94D05]
28E15 Other connections with logic and set theory
28E99 None of the above, but in this section

30-XX FUNCTIONS OF A COMPLEX VARIABLE {For analysis on manifolds, see 58-XX}
30-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
30-01 Instructional exposition (textbooks, tutorial papers, etc.)
30-02 Research exposition (monographs, survey articles)
30-03 Historical (must also be assigned at least one classification number from Section 01)
30-04 Explicit machine computation and programs (not the theory of computation or programming)
30-06 Proceedings, conferences, collections, etc.
30Axx General properties
30A05 Monogenic properties of complex functions (including polygenic and areolar monogenic functions)
30A10 Inequalities in the complex domain
30A99 None of the above, but in this section
30Bxx Series expansions
30B10 Power series (including lacunary series)
30B20 Random power series
30B30 Boundary behavior of power series, over-convergence
30B40 Analytic continuation
30B50 Dirichlet series and other series expansions, exponential series [See also 11M41, 42-XX]
30B60 Completeness problems, closure of a system of functions
30B70 Continued fractions [See also 11A55, 40A15]
30B99 None of the above, but in this section
30Cxx Geometric function theory
30C10 Polynomials
30C15 Zeros of polynomials, rational functions, and other analytic functions (e.g. zeros of functions with bounded Dirichlet integral) {For algebraic theory, see 12D10; for real methods, see 26C10}
30C20 Conformal mappings of special domains
30C25 Covering theorems in conformal mapping theory
30C30 Numerical methods in conformal mapping theory [See also 65E05]
30C35 General theory of conformal mappings
30C40 Kernel functions and applications
30C45 Special classes of univalent and multivalent functions (starlike, convex, bounded rotation, etc.)
30C50 Coefficient problems for univalent and multivalent functions
30C55 General theory of univalent and multivalent functions
30C62 Quasiconformal mappings in the plane
30C65 Quasiconformal mappings in $\mathbf{R}^n$, other generalizations
30C70 Extremal problems for conformal and quasiconformal mappings, variational methods
30C75 Extremal problems for conformal and quasiconformal mappings, other methods
30C80 Maximum principle; Schwarz's lemma, Lindelöf principle, analogues and generalizations; subordination
30C85 Capacity and harmonic measure in the complex plane [See also 31A15]
30C99 None of the above, but in this section
30Dxx Entire and meromorphic functions, and related topics
30D05 Functional equations in the complex domain, iteration and composition of analytic functions [See also 34A20, 39-XX, 58F05, 58F23]
30D10 Representations of entire functions by series and integrals
30D15 Special classes of entire functions and growth estimates
30D20 Entire functions, general theory
30D30 Meromorphic functions, general theory
30D35 Distribution of values, Nevanlinna theory
30D40 Cluster sets, prime ends, boundary behavior
30D45 Bloch functions, normal functions, normal families
30D50 Blaschke products, bounded mean oscillation, bounded characteristic, bounded functions, functions with positive real part
30D55 H^p-classes
30D60 Quasi-analytic and other classes of functions
30D99 None of the above, but in this section
30Exx Miscellaneous topics of analysis in the complex domain
30E05 Moment problems, interpolation problems
30E10 Approximation in the complex domain
30E15 Asymptotic representations in the complex domain
30E20 Integration, integrals of Cauchy type, integral representations of analytic functions [See also 45Exx]
30E25 Boundary value problems [See also 45Exx]
30E99 None of the above, but in this section
30Fxx Riemann surfaces
30F10 Compact Riemann surfaces and uniformization [See also 14H15, 32G15]
30F15 Harmonic functions on Riemann surfaces
30F20 Classification theory of Riemann surfaces
30F25 Ideal boundary theory
30F30 Differentials on Riemann surfaces
30F35 Fuchsian groups and automorphic functions [See also 11Fxx, 20H10, 22E40, 32Gxx, 32Nxx]
30F40 Kleinian groups [See also 20H10]
30F45 Conformal metrics (hyperbolic, Poincaré, distance functions)
30F50 Klein surfaces
30F60 Teichmüller theory [See also 32G15]
30F99 None of the above, but in this section
30Gxx Generalized function theory
30G06 Non-Archimedean function theory [See also 12J25]; nonstandard function theory [See also 03H05]
30G12 Finely holomorphic functions and topological function theory
30G20 Generalizations of Bers or Vekua type (pseudo-analytic, p-analytic, etc.)
30G25 Discrete analytic functions
30G30 Other generalizations of analytic functions (including abstract-valued functions)
30G35 Functions of hypercomplex variables and generalized variables
30G99 None of the above, but in this section
30H05 Spaces and algebras of analytic functions [See also 32E25, 46Exx, 46J15]

31-XX POTENTIAL THEORY {For probabilistic potential theory, see 60J45}
31-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
31-01 Instructional exposition (textbooks, tutorial papers, etc.)
31-02 Research exposition (monographs, survey articles)
31-03 Historical (must also be assigned at least one classification number from Section 01)
31-04 Explicit machine computation and programs (not the theory of computation or programming)
31-06 Proceedings, conferences, collections, etc.
31Axx Two-dimensional theory
31A05 Harmonic, subharmonic, superharmonic functions
31A10 Integral representations, integral operators, integral equations methods
31A15 Potentials and capacity, harmonic measure, extremal length [See also 30C85]
31A20 Boundary behavior (theorems of Fatou type, etc.)
31A25 Boundary value and inverse problems
31A30 Biharmonic, polyharmonic functions and equations, Poisson's equation
31A35 Connections with differential equations
31A99 None of the above, but in this section
31Bxx Higher-dimensional theory
31B05 Harmonic, subharmonic, superharmonic functions
31B10 Integral representations, integral operators, integral equations methods
31B15 Potentials and capacities, extremal length
31B20 Boundary value and inverse problems

31B25 Boundary behavior
31B30 Biharmonic and polyharmonic equations and functions
31B35 Connections with differential equations
31B99 None of the above, but in this section
31Cxx Other generalizations
31C05 Harmonic, subharmonic, superharmonic functions
31C10 Pluriharmonic and plurisubharmonic functions [See also 32F05]
31C12 Potential theory on Riemannian manifolds [See also 53C20; for Hodge theory, see 58A14]
31C15 Potentials and capacities
31C20 Discrete potential theory and numerical methods
31C25 Dirichlet spaces
31C35 Martin boundary theory [See also 60J50]
31C40 Fine potential theory
31C45 Other generalizations (nonlinear potential theory, etc.)
31C99 None of the above, but in this section
31D05 Axiomatic potential theory

32-XX SEVERAL COMPLEX VARIABLES AND ANALYTIC SPACES {For infinite-dimensional holomorphy, see also 46G20, 58B12}
32-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
32-01 Instructional exposition (textbooks, tutorial papers, etc.)
32-02 Research exposition (monographs, survey articles)
32-03 Historical (must also be assigned at least one classification number from Section 01)
32-04 Explicit machine computation and programs (not the theory of computation or programming)
32-06 Proceedings, conferences, collections, etc.
32Axx Holomorphic functions of several complex variables
32A05 Power series, series of functions
32A07 Special domains (Reinhardt, Hartogs, tube domains, etc.)
32A10 Holomorphic functions
32A15 Entire functions
32A17 Special families of functions (e.g. normal families)
32A20 Meromorphic functions
32A22 Nevanlinna theory (local); growth estimates; other inequalities {For geometric theory, see 32H25, 32H30}
32A25 Integral representation
32A27 Local theory of residues [See also 32C30]
32A30 Other generalizations of function theory of one complex variable (should also be assigned at least one classification number from Section 30) {For functions of several hypercomplex variables, see 30G35}
32A35 H^p-spaces [See also 32M15, 42B30, 43A85, 46J15]
32A37 Other spaces of holomorphic functions (e.g. bounded mean oscillation (BMOA), vanishing mean oscillation (VMOA) in n dimensions) [See also 46Exx]
32A40 Boundary behavior
32A45 Hyperfunctions [See also 46F15]
32A99 None of the above, but in this section
32Bxx Local analytic geometry [See also 13-XX and 14-XX]
32B05 Analytic algebras and generalizations, preparation theorems
32B10 Germs of analytic sets
32B15 Analytic subsets of affine space
32B20 Semi-analytic sets and subanalytic sets [See also 14P15]
32B25 Triangulation and related questions
32B99 None of the above, but in this section
32Cxx General theory of analytic spaces
32C05 Real-analytic manifolds, real-analytic spaces [See also 14Pxx, 58A07]
32C07 Real-analytic sets, complex Nash functions [See also 14P15, 14P20]
32C10 Complex manifolds {For almost complex manifolds, see 53C15}
32C11 Complex supergeometry [See also 14A22, 14M30, 58A50]
32C15 Complex spaces
32C16 CR-manifolds
32C17 Kähler geometry {For differential-geometric methods, see 53C55}
32C18 Topology of analytic spaces
32C20 Normal analytic spaces
32C25 Analytic subsets and submanifolds
32C30 Integration on analytic sets and spaces, currents {For local theory, see 32A25 or 32A27}
32C35 Analytic sheaves and cohomology groups [See also 14Fxx, 18F20, 55N30]
32C36 Local cohomology of analytic spaces
32C37 Duality theorems
32C38 Sheaves of differential operators and their modules [See also 14F10, 16S32, 35A27, 58G07]
32C81 Applications to physics
32C99 None of the above, but in this section
32Dxx Analytic continuation
32D05 Domains of holomorphy
32D10 Envelopes of holomorphy
32D15 Continuation of analytic objects
32D20 Removable singularities
32D99 None of the above, but in this section
32Exx Holomorphic convexity
32E05 Holomorphically convex complex spaces, reduction theory
32E10 Stein spaces, Stein manifolds
32E20 Polynomial convexity
32E25 Algebras of holomorphic functions [See also 30H05, 46J10, 46J15]
32E30 Holomorphic and polynomial approximation, Runge pairs, interpolation
32E35 Global boundary behavior of holomorphic functions
32E99 None of the above, but in this section
32Fxx Geometric convexity, partial differential operators
32F05 Plurisubharmonic functions and generalizations [See also 31C10]
32F07 Complex Monge-Ampère operator
32F10 q-convexity, q-concavity
32F15 Pseudoconvex domains
32F20 $\overline{\partial}$- and $\overline{\partial}_b$-Neumann problems [See also 35N15]
32F25 Real submanifolds in complex manifolds
32F30 Pseudoconvex manifolds
32F40 CR structures, (tangential) CR operators and generalizations
32F99 None of the above, but in this section
32Gxx Deformations of analytic structures
32G05 Deformations of complex structures [See also 13D10, 16S80, 58H10, 58H15]
32G07 Deformations of special (e.g. CR) structures
32G08 Deformations of fiber bundles
32G10 Deformations of submanifolds and subspaces
32G13 Analytic moduli problems {For algebraic moduli problems, see 14D20, 14D22, 14H10, 14J10} [See also 14H15, 14J15]
32G15 Moduli of Riemann surfaces, Teichmüller theory [See also 14H15, 30Fxx]
32G20 Period matrices, variation of Hodge structure; degenerations [See also 14D05, 14D07, 14K30]
32G34 Moduli and deformations for ordinary differential equations [See also 34A20]
32G81 Applications to physics
32G99 None of the above, but in this section
32Hxx Holomorphic mappings and correspondences
32H02 Holomorphic mappings, (holomorphic) embeddings and related questions
32H04 Meromorphic mappings
32H10 Bergman kernel function, representative domains
32H15 Invariant metrics and pseudodistances
32H20 Hyperbolic complex manifolds
32H25 Picard-type theorems and generalizations {For function-theoretic properties, see 32A22}
32H30 Value distribution theory in higher dimensions {For function-theoretic properties, see 32A22}
32H35 Proper mappings, finiteness theorems
32H40 Boundary regularity of holomorphic maps
32H50 Iteration problems
32H99 None of the above, but in this section
32Jxx Compact analytic spaces {For Riemann surfaces, see 14Hxx, 30Fxx; for algebraic theory, see 14Jxx}
32J05 Compactification of analytic spaces
32J10 Algebraic dependence theorems
32J15 Compact surfaces
32J17 Compact 3-folds
32J18 Compact n-folds ($n \geq 4$)
32J20 Algebraicity criteria
32J25 Transcendental methods of algebraic geometry [See also 14C30]
32J27 Compact Kähler manifolds: generalizations, classification
32J81 Applications to physics
32J99 None of the above, but in this section
32Kxx Generalizations of analytic spaces (should also be assigned at least one other classification number in this section)
32K05 Banach analytic spaces [See also 58Bxx]
32K07 Formal and graded complex spaces [See also 58C50]
32K15 Differentiable functions on analytic spaces, differentiable spaces [See also 58C25]
32K99 None of the above, but in this section
32Lxx Holomorphic fiber spaces [See also 55Rxx]
32L05 Holomorphic fiber bundles and generalizations
32L07 Hermite-Einstein bundles; Kähler-Einstein metrics [See also 53C07]
32L10 Sheaves and cohomology of sections of holomorphic vector bundles, general results [See also 14F05, 18F20, 55N30]
32L15 Bundle convexity [See also 32F10]
32L20 Vanishing theorems
32L25 Twistor theory, double fibrations
32L30 Holomorphic foliations [See also 58F18]
32L81 Applications to physics
32L99 None of the above, but in this section

32Mxx Complex spaces with a group of automorphisms
32M05 Complex Lie groups, automorphism groups of complex spaces [See also 22E10]
32M10 Homogeneous complex manifolds [See also 14M17, 57T15]
32M12 Almost homogeneous manifolds and spaces [See also 14M17]
32M15 Hermitian symmetric spaces, bounded symmetric domains [See also 22E10, 22E40, 53C35, 57T15]
32M99 None of the above, but in this section
32Nxx Automorphic functions [See also 11Fxx, 20H10, 22E40, 30F35]
32N05 General theory of automorphic functions of several complex variables
32N10 Automorphic forms
32N15 Automorphic functions in symmetric domains
32N99 None of the above, but in this section
32P05 Non-Archimedean complex analysis (should also be assigned at least one other classification number from Section 32 describing the type of problem)
32Sxx Singularities
32S05 Local singularities [See also 14B05]
32S10 Invariants of analytic local rings
32S15 Equisingularity (topological and analytic) [See also 14E15]
32S20 Global theory of singularities; cohomological properties [See also 14E15]
32S25 (Hyper-) surface singularities [See also 14J17]
32S30 Deformations of singularities; vanishing cycles [See also 14B07]
32S35 Mixed Hodge theory of singular varieties [See also 14C30, 14D07]
32S40 Monodromy; relations with differential equations and D-modules
32S45 Modifications; resolution of singularities [See also 14E15]
32S50 Topological aspects: Lefschetz theorems, topological classification, invariants
32S55 Milnor fibration; relations with knot theory [See also 57M25, 57Q45]
32S60 Stratifications; constructible sheaves; intersection cohomology [See also 58C27]
32S65 Singularities of holomorphic vector fields
32S70 Other operations on singularities

33–XX SPECIAL FUNCTIONS {33–XX deals with the properties of functions as functions. For orthogonal functions, see also 42Cxx; for aspects of combinatorics, see 05Axx; for number-theoretic aspects, see 11–XX; for representation theory, see 22Exx}
33–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
33–01 Instructional exposition (textbooks, tutorial papers, etc.)
33–02 Research exposition (monographs, survey articles)
33–03 Historical (must also be assigned at least one classification number from Section 01)
33–04 Explicit machine computation and programs (not the theory of computation or programming)
33–06 Proceedings, conferences, collections, etc.
33Bxx Elementary classical functions
33B10 Exponential and trigonometric functions
33B15 Gamma, beta and polygamma functions
33B20 Incomplete beta and gamma functions (error functions, probability integrals, Fresnel integrals)
33B99 None of the above, but in this section
33Cxx Hypergeometric functions
33C05 Classical hypergeometric functions, ${}_2F_1$
33C10 Bessel and Airy functions, cylinder functions, ${}_0F_1$
33C15 Confluent hypergeometric functions, Whittaker functions, ${}_1F_1$
33C20 Generalized hypergeometric series, ${}_pF_q$
33C45 Orthogonal polynomials and functions (Chebyshev, Legendre, Gegenbauer, Jacobi, Laguerre, Hermite, Hahn, etc.)
33C50 Orthogonal polynomials and functions in several variables
33C55 Spherical functions, spherical harmonics, ultraspherical polynomials
33C60 Hypergeometric integrals and functions defined by them (E, G and H functions)
33C65 Appell, Horn and Lauricella functions
33C70 Other hypergeometric functions and integrals in several variables
33C75 Elliptic integrals as hypergeometric functions
33C80 Connections with groups, algebras, root systems and related topics
33C90 Applications
33C99 None of the above, but in this section
33Dxx Basic hypergeometric functions
33D05 q-gamma functions, q-beta functions and integrals
33D10 Basic theta functions
33D15 Basic hypergeometric functions in one variable
33D20 Generalized basic hypergeometric series
33D45 Basic orthogonal polynomials and functions in one and several variables
33D55 Basic spherical functions, spherical harmonics (continuous and discrete)
33D60 Basic hypergeometric integrals and functions defined by them
33D65 Bibasic functions and multiple bases
33D70 Other basic hypergeometric functions and integrals in several variables
33D80 Connections with groups, algebras, and related topics
33D90 Applications
33D99 None of the above, but in this section
33Exx Other special functions
33E05 Elliptic functions and integrals
33E10 Lamé, Mathieu, and spheroidal wave functions
33E15 Other wave functions
33E20 Other functions defined by series and integrals
33E30 Other functions coming from differential, difference and integral equations
33E99 None of the above, but in this section

34–XX ORDINARY DIFFERENTIAL EQUATIONS
34–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
34–01 Instructional exposition (textbooks, tutorial papers, etc.)
34–02 Research exposition (monographs, survey articles)
34–03 Historical (must also be assigned at least one classification number from Section 01)
34–04 Explicit machine computation and programs (not the theory of computation or programming)
34–06 Proceedings, conferences, collections, etc.
34Axx General theory
34A05 Explicit solutions and reductions
34A09 Implicit equations
34A12 Initial value problems, existence, uniqueness, continuous dependence and continuation of solutions
34A20 Differential equations in the complex domain [See also 30D05, 32G34]
34A25 Analytical theory: series, transformations, transforms, operational calculus, etc. [See also 44–XX, 47E05]
34A26 Geometric methods in differential equations
34A30 Linear equations and systems
34A34 Nonlinear equations and systems, general
34A35 Differential equations of infinite order
34A37 Differential equations with impulses
34A40 Differential inequalities
34A45 Theoretical approximation of solutions
34A46 Theoretical solution methods other than approximations
34A47 Bifurcation
34A50 Numerical approximation of solutions {For numerical analysis, see 65Lxx}
34A55 Inverse problems
34A60 Equations with multivalued right-hand sides [See also 49J24, 49K24]
34A65 Stiff equations
34A99 None of the above, but in this section
34Bxx Boundary value problems {For ordinary differential operators, see 34Lxx}
34B05 Linear equations
34B10 Multipoint boundary value problems
34B15 Nonlinear boundary value problems
34B20 Weyl theory and its generalizations
34B24 Sturm-Liouville theory [See also 34Lxx]
34B27 Green functions
34B30 Special equations (Mathieu, Hill, Bessel, etc.)
34B99 None of the above, but in this section
34Cxx Qualitative theory [See also 58Fxx]
34C05 Location of integral curves, singular points, limit cycles
34C10 Oscillation theory, zeros, disconjugacy and comparison theory
34C11 Growth, boundedness, comparison of solutions
34C15 Nonlinear oscillations
34C20 Transformation and reduction of equations and systems, normal forms
34C23 Bifurcation [See mainly 58F14]
34C25 Periodic solutions
34C27 Almost-periodic solutions
34C28 Other types of "recurrent" solutions
34C29 Averaging method
34C30 Manifolds of solutions
34C35 Dynamical systems [See also 54H20, 58Fxx, 70–XX]
34C37 Homoclinic and heteroclinic solutions [See also 58F15]
34C40 Equations and systems on manifolds [See mainly 58Fxx, 58Gxx]
34C45 Method of integral manifolds
34C50 Method of accelerated convergence
34C99 None of the above, but in this section
34Dxx Stability theory [See also 58F10, 93Dxx]
34D05 Asymptotic properties
34D08 Lyapunov exponents
34D10 Perturbations
34D15 Singular perturbations
34D20 Lyapunov stability
34D25 Popov-type stability
34D30 Structural stability and analogous concepts [See also 58F10, 58F12]
34D35 Stability of manifolds of solutions
34D40 Ultimate boundedness

34D45 Attractors
34D99 None of the above, but in this section
34Exx Asymptotic theory
34E05 Asymptotic expansions
34E10 Perturbations, asymptotics
34E15 Singular perturbations, general theory
34E20 Singular perturbations, turning point theory, WKB methods
34E99 None of the above, but in this section
34F05 Equations and systems with randomness [See also 34K50, 60H10, 93E03]
34Gxx Differential equations in abstract spaces [See also 58D25]
34G10 Linear equations [See also 47Axx, 47Bxx, 47D06, 47D09]
34G20 Nonlinear equations [See also 47Hxx]
34G99 None of the above, but in this section
34H05 Control problems [See also 49J25, 49K25, 93C15]
34Kxx Functional-differential and differential-difference equations, with or without deviating arguments
34K05 General theory
34K10 Boundary value problems
34K15 Qualitative theory
34K20 Stability theory
34K25 Asymptotic theory
34K30 Equations in abstract spaces [See also 34Gxx]
34K35 Control problems [See also 49J25, 49K25, 93C15]
34K40 Neutral equations
34K50 Stochastic delay equations [See also 34F05, 60Hxx]
34K99 None of the above, but in this section
34Lxx Ordinary differential operators [See also 47E05]
34L05 General spectral theory
34L10 Eigenfunction expansions, completeness of eigenfunctions
34L15 Estimation of eigenvalues, upper and lower bounds
34L20 Asymptotic distribution of eigenvalues, asymptotic theory of eigenfunctions
34L25 Scattering theory
34L30 Nonlinear ordinary differential operators
34L40 Particular operators (Dirac, one-dimensional Schrödinger, etc.)
34L99 None of the above, but in this section

35-XX PARTIAL DIFFERENTIAL EQUATIONS

35-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
35-01 Instructional exposition (textbooks, tutorial papers, etc.)
35-02 Research exposition (monographs, survey articles)
35-03 Historical (must also be assigned at least one classification number from Section 01)
35-04 Explicit machine computation and programs (not the theory of computation or programming)
35-06 Proceedings, conferences, collections, etc.
35Axx General theory
35A05 General existence and uniqueness theorems
35A07 Local existence and uniqueness theorems [See also 35H05, 35Sxx]
35A08 Fundamental solutions
35A10 Cauchy-Kovalevskaya theorems
35A15 Variational methods
35A20 Analytic methods, singularities
35A22 Transform methods (e.g. integral transforms)
35A25 Other special methods
35A27 Microlocal methods; methods of sheaf theory and homological algebra in PDE [See also 32C38, 58G07]
35A30 Geometric theory, characteristics, transformations [See also 58G35, 58G37]
35A35 Theoretical approximation to solutions
35A40 Numerical approximation to solutions {For numerical analysis, see 65Mxx, 65Nxx, 65P05}
35A99 None of the above, but in this section
35Bxx Qualitative properties of solutions
35B05 General behavior of solutions of PDE (comparison theorems; oscillation, zeros and growth of solutions; mean value theorems)
35B10 Periodic solutions
35B15 Almost periodic solutions
35B20 Perturbations
35B25 Singular perturbations
35B27 Homogenization; partial differential equations in media with periodic structure [See also 73B27, 76D30]
35B30 Dependence of solutions of PDE on initial and boundary data, parameters [See also 58F14]
35B32 Bifurcation [See also 58F14]
35B35 Stability, boundedness
35B37 PDE in connection with control problems [See also 49J20, 49K20, 93C20]
35B40 Asymptotic behavior of solutions
35B45 A priori estimates
35B50 Maximum principles
35B60 Continuation and prolongation of solutions of PDE [See also 58A15, 58A17, 58Hxx]
35B65 Smoothness/regularity of solutions of PDE
35B99 None of the above, but in this section
35Cxx Representations of solutions
35C05 Solutions in closed form
35C10 Series solutions, expansion theorems
35C15 Integral representations of solutions of PDE
35C20 Asymptotic expansions
35C99 None of the above, but in this section
35Dxx Generalized solutions of partial differential equations
35D05 Existence of generalized solutions
35D10 Regularity of generalized solutions
35D99 None of the above, but in this section
35Exx Equations and systems with constant coefficients [See also 35N05]
35E05 Fundamental solutions
35E10 Convexity properties
35E15 Initial value problems
35E20 General theory
35E99 None of the above, but in this section
35Fxx General first-order equations and systems
35F05 General theory of linear first-order PDE
35F10 Initial value problems for linear first-order PDE, linear evolution equations
35F15 Boundary value problems for linear first-order PDE
35F20 General theory of nonlinear first-order PDE
35F25 Initial value problems for nonlinear first-order PDE, nonlinear evolution equations
35F30 Boundary value problems for nonlinear first-order PDE
35F99 None of the above, but in this section
35Gxx General higher-order equations and systems
35G05 General theory of linear higher-order PDE
35G10 Initial value problems for linear higher-order PDE, linear evolution equations
35G15 Boundary value problems for linear higher-order PDE
35G20 General theory of nonlinear higher-order PDE
35G25 Initial value problems for nonlinear higher-order PDE, nonlinear evolution equations
35G30 Boundary value problems for nonlinear higher-order PDE
35G99 None of the above, but in this section
35H05 Hypoelliptic equations and systems [See also 58Gxx]
35Jxx Partial differential equations of elliptic type [See also 58G05, 58G10]
35J05 Laplace equation, reduced wave equation (Helmholtz), Poisson equation [See also 31Axx, 31Bxx]
35J10 Schrödinger operator [See also 35Pxx]
35J15 General theory of second-order elliptic equations
35J20 Variational methods for second-order elliptic equations
35J25 Boundary value problems for second-order elliptic equations
35J30 General theory of higher-order elliptic equations [See also 31A30, 31B30]
35J35 Variational methods for higher-order elliptic equations
35J40 Boundary value problems for higher-order elliptic equations
35J45 General theory of elliptic systems of PDE
35J50 Variational methods for elliptic systems
35J55 Boundary value problems for elliptic systems
35J60 Nonlinear PDE of elliptic type
35J65 Nonlinear boundary value problems for linear elliptic PDE; boundary value problems for nonlinear elliptic PDE
35J67 Boundary values of solutions to elliptic PDE
35J70 Elliptic partial differential equations of degenerate type
35J85 Unilateral problems and variational inequalities for elliptic PDE [See also 35R35, 49J40]
35J99 None of the above, but in this section
35Kxx Parabolic equations and systems [See also 35Bxx, 35Dxx, 35R30, 35R35, 58G11]
35K05 Heat equation
35K10 General theory of second-order parabolic equations
35K15 Initial value problems for second-order parabolic equations
35K20 Boundary value problems for second-order parabolic equations
35K22 Evolution equations (any order in the spatial derivatives) [See also 58D25]
35K25 General theory of higher-order parabolic equations
35K30 Initial value problems for higher-order parabolic equations
35K35 Boundary value problems for higher-order parabolic equations
35K40 General theory of parabolic systems of PDE
35K45 Initial value problems for parabolic systems
35K50 Boundary value problems for parabolic systems
35K55 Nonlinear PDE of parabolic type
35K57 Reaction-diffusion equations
35K60 Nonlinear boundary value problems for linear parabolic PDE; boundary value problems for nonlinear parabolic PDE
35K65 Parabolic partial differential equations of degenerate type

35K70 Ultraparabolic, pseudoparabolic PDE, etc.
35K85 Unilateral problems and variational inequalities for parabolic PDE [See also 35R35, 49J40]
35K99 None of the above, but in this section
35Lxx Partial differential equations of hyperbolic type [See also 58G16]
35L05 Wave equation
35L10 General theory of second-order hyperbolic equations
35L15 Initial value problems for second-order hyperbolic equations
35L20 Boundary value problems for second-order hyperbolic equations
35L25 General theory of higher-order hyperbolic equations
35L30 Initial value problems for higher-order hyperbolic equations
35L35 Boundary value problems for higher-order hyperbolic equations
35L40 General theory of hyperbolic systems of first-order PDE
35L45 Initial value problems for hyperbolic systems of first-order PDE
35L50 Boundary value problems for hyperbolic systems of first-order PDE
35L55 Hyperbolic systems of higher-order PDE
35L60 Nonlinear first-order PDE of hyperbolic type
35L65 Conservation laws
35L67 Shocks and singularities [See also 58C27, 76L05]
35L70 Nonlinear second-order PDE of hyperbolic type
35L75 Nonlinear hyperbolic PDE of higher (> 2) order
35L80 Hyperbolic PDE of degenerate type
35L85 Unilateral problems; variational inequalities for hyperbolic PDE [See also 35R35, 49J40]
35L99 None of the above, but in this section
35Mxx Partial differential equations of special type (mixed, composite, etc.) {For degenerate types, see 35J70, 35K65, 35L80}
35M10 PDE of mixed type
35M20 PDE of composite type
35M99 None of the above, but in this section
35Nxx Overdetermined systems [See also 58G05, 58G07, 58Hxx]
35N05 Overdetermined systems with constant coefficients
35N10 Overdetermined systems with variable coefficients (general)
35N15 $\overline{\partial}$-Neumann problem and generalizations; formal complexes [See also 32F20 and 58G05]
35N99 None of the above, but in this section
35Pxx Spectral theory and eigenvalue problems for partial differential operators [See also 47Axx, 47Bxx, 47F05]
35P05 General spectral theory of PDE
35P10 Completeness of eigenfunctions, eigenfunction expansions for PDO
35P15 Estimation of eigenvalues, upper and lower bounds
35P20 Asymptotic distribution of eigenvalues and eigenfunctions for PDO
35P25 Scattering theory for PDE [See also 47A40]
35P30 Nonlinear eigenvalue problems, nonlinear spectral theory for PDO
35P99 None of the above, but in this section
35Qxx Equations of mathematical physics and other areas of application [See also 35J05, 35J10, 35K05, 35L05]
35Q05 Euler-Poisson-Darboux equation and generalizations
35Q15 Riemann-Hilbert problems [See also 30E25, 31A25, 31B20]
35Q30 Stokes and Navier-Stokes equations [See also 76D05, 76D07, 76N10]
35Q35 Other equations arising in fluid mechanics
35Q40 Equations from quantum mechanics
35Q51 Solitons [See also 58F07]
35Q53 KdV-like equations (Korteweg-de Vries, Burgers, sine-Gordon, sinh-Gordon, etc.) [See also 58F07]
35Q55 NLS-like (nonlinear Schrödinger) equations [See also 58F07]
35Q58 Other completely integrable equations [See also 58F07]
35Q60 Equations of electromagnetic theory and optics
35Q72 Other equations from mechanics
35Q75 PDE in relativity
35Q80 Applications of PDE in areas other than physics
35Q99 None of the above, but in this section
35Rxx Miscellaneous topics involving partial differential equations {For equations on manifolds, see 58Gxx; for manifolds of solutions, see 58Bxx; for stochastic PDE, see also 60H15}
35R05 PDE with discontinuous coefficients or data
35R10 Partial functional-differential or differential-difference equations, with or without deviating arguments
35R15 Partial differential equations on infinite-dimensional (e.g. function) spaces (= PDE in infinitely many variables) [See also 46Gxx, 58D25]
35R20 Partial operator-differential equations (i.e. PDE on finite-dimensional spaces for abstract space valued functions) [See also 34Gxx, 47A50, 47D03, 47D06, 47D09, 47H15, 47H20]
35R25 Improperly posed problems for PDE
35R30 Inverse problems (undetermined coefficients, etc.) for PDE
35R35 Free boundary problems for PDE
35R45 Partial differential inequalities
35R50 Partial differential equations of infinite order
35R60 Partial differential equations with randomness [See also 60H15]
35R70 PDE with multivalued right-hand sides
35R99 None of the above, but in this section
35Sxx Pseudodifferential operators and other generalizations of partial differential operators [See also 47G30, 58G15]
35S05 General theory of ΨDO
35S10 Initial value problems for ΨDO
35S15 Boundary value problems for ΨDO
35S30 Fourier integral operators
35S35 Topological aspects: intersection cohomology, stratified sets, etc. [See also 32C38, 32S40, 32S60, 58G07]
35S50 Paradifferential operators
35S99 None of the above, but in this section

39-XX FINITE DIFFERENCES AND FUNCTIONAL EQUATIONS
39-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
39-01 Instructional exposition (textbooks, tutorial papers, etc.)
39-02 Research exposition (monographs, survey articles)
39-03 Historical (must also be assigned at least one classification number from Section 01)
39-04 Explicit machine computation and programs (not the theory of computation or programming)
39-06 Proceedings, conferences, collections, etc.
39Axx Difference equations {For dynamical systems, see 58Fxx}
39A05 General
39A10 Difference equations [See also 33Dxx]
39A11 Stability of difference equations
39A12 Discrete version of topics in analysis
39A70 Difference operators [See also 47B39]
39A99 None of the above, but in this section
39Bxx Functional equations [See also 30D05]
39B05 General
39B12 Iteration theory, iterative and composite equations [See also 26A18, 30D05, 58F08]
39B22 Equations for real functions
39B32 Equations for complex functions [See also 30D05]
39B42 Matrix and operator equations
39B52 Equations for functions with more general domains and/or ranges
39B62 Systems of functional equations
39B72 Inequalities involving unknown functions [See also 26A51, 26Dxx]
39B99 None of the above, but in this section

40-XX SEQUENCES, SERIES, SUMMABILITY
40-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
40-01 Instructional exposition (textbooks, tutorial papers, etc.)
40-02 Research exposition (monographs, survey articles)
40-03 Historical (must also be assigned at least one classification number from Section 01)
40-04 Explicit machine computation and programs (not the theory of computation or programming)
40-06 Proceedings, conferences, collections, etc.
40Axx Convergence and divergence of infinite limiting processes
40A05 Convergence and divergence of series and sequences
40A10 Convergence and divergence of integrals
40A15 Convergence and divergence of continued fractions [See also 30B70]
40A20 Convergence and divergence of infinite products
40A25 Approximation to limiting values (summation of series, etc.) {For the Euler-Maclaurin summation formula, see 65B15}
40A30 Convergence and divergence of series and sequences of functions
40A99 None of the above, but in this section
40B05 Multiple sequences and series (should also be assigned at least one other classification number in this section)
40Cxx General summability methods
40C05 Matrix methods
40C10 Integral methods
40C15 Function-theoretic methods (including power series methods and semicontinuous methods)
40C99 None of the above, but in this section
40Dxx Direct theorems on summability
40D05 General theorems
40D09 Structure of summability fields
40D10 Tauberian constants and oscillation limits
40D15 Convergence factors and summability factors
40D20 Summability and bounded fields of methods
40D25 Inclusion and equivalence theorems
40D99 None of the above, but in this section
40Exx Inversion theorems
40E05 Tauberian theorems, general
40E10 Growth estimates
40E15 Lacunary inversion theorems
40E20 Tauberian constants
40E99 None of the above, but in this section
40F05 Absolute and strong summability

40Gxx **Special methods of summability**
40G05 Cesàro, Euler, Nörlund and Hausdorff methods
40G10 Abel, Borel and power series methods
40G99 None of the above, but in this section
40H05 **Functional analytic methods in summability**
40J05 **Summability in abstract structures [See also 43A55, 46A35, 46B15]**

41-XX **APPROXIMATIONS AND EXPANSIONS {For all approximation theory in the complex domain, see 30E05 and 30E10; for all trigonometric approximation and interpolation, see 42A10 and 42A15; for numerical approximation, see 65Dxx}**
41-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
41-01 Instructional exposition (textbooks, tutorial papers, etc.)
41-02 Research exposition (monographs, survey articles)
41-03 Historical (must also be assigned at least one classification number from Section 01)
41-04 Explicit machine computation and programs (not the theory of computation or programming)
41-06 Proceedings, conferences, collections, etc.
41A05 Interpolation [See also 42A15 and 65D05]
41A10 Approximation by polynomials {For approximation by trigonometric polynomials, see 42A10}
41A15 Spline approximation
41A17 Inequalities in approximation (Bernstein-, Jackson-, Nikol'skii-type inequalities)
41A20 Approximation by rational functions
41A21 Padé approximation
41A25 Rate of convergence, degree of approximation
41A27 Inverse theorems
41A28 Simultaneous approximation
41A29 Approximation with constraints
41A30 Approximation by other special function classes
41A35 Approximation by operators (in particular, by integral operators)
41A36 Approximation by positive operators
41A40 Saturation
41A44 Best constants
41A45 Approximation by arbitrary linear expressions
41A46 Approximation by arbitrary nonlinear expressions; widths and entropy
41A50 Best approximation, Chebyshev systems
41A52 Uniqueness of best approximation
41A55 Approximate quadratures
41A58 Series expansions (e.g. Taylor, Lidstone series, but not Fourier series)
41A60 Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30E15]
41A63 Multidimensional problems (should also be assigned at least one other classification number in this section)
41A65 Abstract approximation theory (approximation in normed linear spaces and other abstract spaces)
41A80 Remainders in approximation formulas
41A99 Miscellaneous topics

42-XX **FOURIER ANALYSIS**
42-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
42-01 Instructional exposition (textbooks, tutorial papers, etc.)
42-02 Research exposition (monographs, survey articles)
42-03 Historical (must also be assigned at least one classification number from Section 01)
42-04 Explicit machine computation and programs (not the theory of computation or programming)
42-06 Proceedings, conferences, collections, etc.
42Axx **Fourier analysis in one variable**
42A05 Trigonometric polynomials, inequalities, extremal problems
42A10 Trigonometric approximation
42A15 Trigonometric interpolation
42A16 Fourier coefficients, Fourier series of functions with special properties, special Fourier series {For automorphic theory, see mainly 11F30}
42A20 Convergence of Fourier and trigonometric series
42A24 Summability of Fourier and trigonometric series
42A28 Absolute convergence, absolute summability
42A32 Trigonometric series of special types (positive coefficients, monotonic coefficients, etc.)
42A38 Fourier and Fourier-Stieltjes transforms and other transforms of Fourier type
42A45 Multipliers
42A50 Conjugate functions, conjugate series, singular integrals
42A55 Lacunary series of trigonometric and other functions; Riesz products
42A61 Probabilistic methods
42A63 Uniqueness of trigonometric expansions, uniqueness of Fourier expansions, Riemann theory, localization
42A65 Completeness of sets of functions
42A70 Trigonometric moment problems
42A75 Classical almost periodic functions, mean periodic functions [See also 43A60]
42A82 Positive definite functions
42A85 Convolution, factorization
42A99 None of the above, but in this section
42Bxx **Fourier analysis in several variables {For automorphic theory, see mainly 11F30}**
42B05 Fourier series and coefficients
42B08 Summability
42B10 Fourier and Fourier-Stieltjes transforms and other transforms of Fourier type
42B15 Multipliers
42B20 Singular integrals (Calderón-Zygmund, etc.)
42B25 Maximal functions, Littlewood-Paley theory
42B30 H^p-spaces
42B99 None of the above, but in this section
42Cxx **Nontrigonometric Fourier analysis**
42C05 Orthogonal functions and polynomials, general theory [See also 33C45, 33C50, 33D45]
42C10 Fourier series in special orthogonal functions (Legendre polynomials, Walsh functions, etc.)
42C15 Series of general orthogonal functions, generalized Fourier expansions, nonorthogonal expansions
42C20 Rearrangements and other transformations of Fourier and other orthogonal series
42C25 Uniqueness and localization for orthogonal series
42C30 Completeness of sets of functions
42C99 None of the above, but in this section

43-XX **ABSTRACT HARMONIC ANALYSIS {For other analysis on topological and Lie groups, see 22Exx}**
43-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
43-01 Instructional exposition (textbooks, tutorial papers, etc.)
43-02 Research exposition (monographs, survey articles)
43-03 Historical (must also be assigned at least one classification number from Section 01)
43-04 Explicit machine computation and programs (not the theory of computation or programming)
43-06 Proceedings, conferences, collections, etc.
43A05 Measures on groups and semigroups, etc.
43A07 Means on groups, semigroups, etc.; amenable groups
43A10 Measure algebras on groups, semigroups, etc.
43A15 L^p-spaces and other function spaces on groups, semigroups, etc.
43A17 Analysis on ordered groups, H^p-theory
43A20 L^1-algebras on groups, semigroups, etc.
43A22 Homomorphisms and multipliers of function spaces on groups, semigroups, etc.
43A25 Fourier and Fourier-Stieltjes transforms on locally compact abelian groups
43A30 Fourier and Fourier-Stieltjes transforms on nonabelian groups and on semigroups, etc.
43A32 Other transforms and operators of Fourier type
43A35 Positive definite functions on groups, semigroups, etc.
43A40 Character groups and dual objects
43A45 Spectral synthesis on groups, semigroups, etc.
43A46 Special sets (thin sets, Kronecker sets, Helson sets, Ditkin sets, Sidon sets, etc.)
43A50 Convergence of Fourier series and of inverse transforms
43A55 Summability methods on groups, semigroups, etc. [See also 40J05]
43A60 Almost periodic functions on groups and semigroups and their generalizations (recurrent functions, distal functions, etc.); almost automorphic functions
43A62 Hypergroups
43A65 Representations of groups, semigroups, etc. [See also 22A10, 22A20, 22Dxx, 22E45]
43A70 Analysis on specific locally compact abelian groups [See also 11R56, 22B05]
43A75 Analysis on specific compact groups
43A77 Analysis on general compact groups
43A80 Analysis on other specific Lie groups [See also 22Exx]
43A85 Analysis on homogeneous spaces
43A90 Spherical functions [See also 22E45, 22E46, 33C65, 33D55]
43A95 Categorical methods [See also 46Mxx]
43A99 Miscellaneous topics

44-XX **INTEGRAL TRANSFORMS, OPERATIONAL CALCULUS {For fractional derivatives and integrals, see 26A33. For Fourier transforms, see 42A38, 42B10. For integral transforms in distribution spaces, see 46F12. For numerical methods, see 65R10}**
44-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
44-01 Instructional exposition (textbooks, tutorial papers, etc.)
44-02 Research exposition (monographs, survey articles)
44-03 Historical (must also be assigned at least one classification number from Section 01)

44–04 Explicit machine computation and programs (not the theory of computation or programming)
44–06 Proceedings, conferences, collections, etc.
44A05 General transforms [See also 42A38]
44A10 Laplace transform
44A12 Radon transform [See also 92C55]
44A15 Special transforms (Legendre, Hilbert, etc.)
44A20 Transforms of special functions
44A30 Multiple transforms
44A35 Convolution
44A40 Calculus of Mikusiński and other operational calculi
44A45 Classical operational calculus
44A55 Discrete operational calculus
44A60 Moment problems
44A99 Miscellaneous topics

45–XX INTEGRAL EQUATIONS
45–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
45–01 Instructional exposition (textbooks, tutorial papers, etc.)
45–02 Research exposition (monographs, survey articles)
45–03 Historical (must also be assigned at least one classification number from Section 01)
45–04 Explicit machine computation and programs (not the theory of computation or programming)
45–06 Proceedings, conferences, collections, etc.
45A05 Linear integral equations
45B05 Fredholm integral equations
45C05 Eigenvalue problems [See also 34Lxx, 35Pxx, 45P05, 47A75]
45D05 Volterra integral equations [See also 34A12]
45Exx Singular integral equations [See also 30E20, 30E25, 44A15, 44A35]
45E05 Integral equations with kernels of Cauchy type [See also 35J15]
45E10 Integral equations of the convolution type (Abel, Picard, Toeplitz and Wiener-Hopf type) [See also 47B35]
45E99 None of the above, but in this section
45Fxx Systems of linear integral equations
45F05 Systems of nonsingular linear integral equations
45F10 Dual, triple, etc., integral and series equations
45F15 Systems of singular linear integral equations
45F99 None of the above, but in this section
45Gxx Nonlinear integral equations [See also 47H15]
45G05 Singular nonlinear integral equations
45G10 Other nonlinear integral equations
45G15 Systems of nonlinear integral equations
45H05 Miscellaneous special kernels [See also 44A15]
45J05 Integro-ordinary differential equations
45K05 Integro-partial differential equations
45Lxx Approximation of solutions
45L05 Theoretical approximation of solutions
45L10 Numerical approximation of solutions {For numerical analysis, see 65R20}
45L99 None of the above, but in this section
45Mxx Qualitative behavior
45M05 Asymptotics
45M10 Stability theory
45M15 Periodic solutions
45M20 Positive solutions
45M99 None of the above, but in this section
45N05 Abstract integral equations, integral equations in abstract spaces
45P05 Integral operators [See also 47B38, 47G10]

46–XX FUNCTIONAL ANALYSIS {For manifolds modeled on topological linear spaces, see 57N20, 58Bxx}
46–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
46–01 Instructional exposition (textbooks, tutorial papers, etc.)
46–02 Research exposition (monographs, survey articles)
46–03 Historical (must also be assigned at least one classification number from Section 01)
46–04 Explicit machine computation and programs (not the theory of computation or programming)
46–06 Proceedings, conferences, collections, etc.
46Axx Topological linear spaces and related structures {For function spaces, see 46Exx}
46A03 General theory of locally convex spaces
46A04 Locally convex Fréchet spaces and (DF)-spaces
46A08 Barrelled spaces, bornological spaces
46A11 Spaces determined by compactness or summability properties (nuclear spaces, Schwartz spaces, Montel spaces, etc.)
46A13 Spaces defined by inductive or projective limits (LB, LF, etc.) [See also 46M40]
46A16 Not locally convex spaces (metrizable topological linear spaces, locally bounded spaces, quasi-Banach spaces, etc.)
46A17 Bornologies and related structures; Mackey convergence, etc.
46A19 Other "topological" linear spaces (convergence spaces, ranked spaces, spaces with a metric taking values in an ordered structure more general than **R**, etc.)
46A20 Duality theory
46A22 Theorems of Hahn-Banach type; extension and lifting of functionals and operators [See also 46M10]
46A25 Reflexivity and semi-reflexivity [See also 46B10]
46A30 Open mapping and closed graph theorems; completeness (including B-, B_r-completeness)
46A32 Spaces of linear operators; topological tensor products; approximation properties [See also 46B28, 46M05, 47D15, 47D50]
46A35 Summability and bases [See also 46B15]
46A40 Ordered topological linear spaces, vector lattices [See also 06F20, 46B40, 46B42]
46A45 Sequence spaces (including Köthe sequence spaces) [See also 46B45]
46A50 Compactness in topological linear spaces; angelic spaces, etc.
46A55 Convex sets in topological linear spaces; Choquet theory [See also 52A07]
46A70 Saks spaces and their duals (strict topologies, mixed topologies, two-norm spaces, co-Saks spaces, etc.)
46A80 Modular spaces
46A99 None of the above, but in this section
46Bxx Normed linear spaces and Banach spaces; Banach lattices {For function spaces, see 46Exx}
46B03 Isomorphic theory (including renorming) of Banach spaces
46B04 Isometric theory of Banach spaces
46B07 Local theory of Banach spaces
46B08 Ultraproduct techniques in Banach space theory [See also 46M07]
46B09 Probabilistic methods in Banach space theory [See also 60Bxx]
46B10 Duality and reflexivity [See also 46A25]
46B15 Summability and bases [See also 46A35]
46B20 Geometry and structure of normed linear spaces
46B22 Radon-Nikodým, Krein-Mil'man and related properties [See also 46G10]
46B25 Classical Banach spaces in the general theory
46B26 Nonseparable Banach spaces
46B28 Spaces of operators; tensor products; approximation properties [See also 46A32, 46M05, 47D15, 47D50]
46B40 Ordered normed spaces [See also 46A40, 46B42]
46B42 Banach lattices [See also 46A40, 46B40]
46B45 Banach sequence spaces [See also 46A45]
46B70 Interpolation between normed linear spaces [See also 46M35]
46B99 None of the above, but in this section
46Cxx Inner product spaces and their generalizations, Hilbert spaces {For function spaces, see 46Exx}
46C05 Hilbert and pre-Hilbert spaces: geometry and topology (including spaces with semidefinite inner product)
46C15 Characterizations of Hilbert spaces
46C20 Spaces with indefinite inner product
46C50 Generalizations of inner products (semi-inner products, partial inner products, etc.)
46C99 None of the above, but in this section
46Exx Linear function spaces and their duals [See also 30H05, 32E25, 46F05; for function algebras, see 46J10]
46E05 Lattices of continuous, differentiable or analytic functions
46E10 Topological linear spaces of continuous, differentiable or analytic functions
46E15 Banach spaces of continuous, differentiable or analytic functions
46E20 Hilbert spaces of continuous, differentiable or analytic functions
46E22 Hilbert spaces with reproducing kernels (= [proper] functional Hilbert spaces)
46E25 Rings and algebras of continuous, differentiable or analytic functions {For Banach function algebras, see 46J10, 46J15}
46E27 Spaces of measures [See also 28A33, 46Gxx]
46E30 Spaces of measurable functions (L^p-spaces, Orlicz spaces, Köthe function spaces, Lorentz spaces, rearrangement invariant spaces, ideal spaces, etc.)
46E35 Sobolev spaces and other spaces of "smooth" functions, embedding theorems, trace theorems
46E39 Sobolev (and similar kinds of) spaces of functions of discrete variables
46E40 Spaces of vector- and operator-valued functions
46E50 Spaces of differentiable or holomorphic functions on infinite-dimensional spaces [See also 46G20]
46E99 None of the above, but in this section
46Fxx Distributions, generalized functions, distribution spaces {For distribution theory on nonlinear spaces, see 58Cxx}
46F05 Topological linear spaces of test functions, distributions and ultradistributions [See also 46E10, 46E35]
46F10 Operations with distributions
46F12 Integral transforms in distribution spaces [See also 42–XX, 44–XX]
46F15 Hyperfunctions, analytic functionals [See also 32A25, 32A45, 32C35, 58G07]

46F20 Distributions and ultradistributions as boundary values of analytic functions [See also 30D40, 30E25, 32A40]
46F25 Distributions on infinite-dimensional spaces [See also 58C35]
46F99 None of the above, but in this section
46Gxx Measure, integration, derivative, holomorphy (all involving infinite-dimensional spaces) [See also 28–XX]{For nonlinear functional analysis, see 47Hxx, 58–XX, especially 58Cxx}
46G05 Derivatives [See also 58C20, 58C25]
46G10 Vector-valued measures and integration [See also 28Bxx, 46B22]
46G12 Measure and integration on abstract linear spaces [See also 28C20]
46G15 Functional analytic lifting theory [See also 28A51]
46G20 Infinite-dimensional holomorphy [See also 32–XX, 46E50, 58B12, 58C10]
46G99 None of the above, but in this section
46Hxx Topological algebras, normed rings and algebras, Banach algebras {For group algebras, convolution algebras and measure algebras, see 43A10, 43A20}
46H05 General theory of topological algebras
46H10 Ideals and subalgebras
46H15 Representations of topological algebras
46H20 Structure, classification of topological algebras
46H25 Normed modules and Banach modules, topological modules (if not placed in 13–XX or 16–XX)
46H30 Functional calculus in topological algebras [See also 47A60]
46H35 Topological algebras of operators [See mainly 47D30, and also 47D25, 47D50]
46H40 Automatic continuity
46H70 Nonassociative topological algebras [See also 46K70, 46L70]
46H99 None of the above, but in this section
46Jxx Commutative Banach algebras and commutative topological algebras [See also 46E25]
46J05 General theory of commutative topological algebras
46J10 Banach algebras of continuous functions, function algebras [See also 46E25]
46J15 Banach algebras of differentiable or analytic functions, H^p-spaces [See also 30D55, 30H05, 32A35, 32A37, 32E25, 42B30]
46J20 Ideals, maximal ideals, boundaries
46J25 Representations of commutative topological algebras
46J30 Subalgebras
46J40 Structure, classification of commutative topological algebras
46J45 Radical Banach algebras
46J99 None of the above, but in this section
46Kxx Topological (rings and) algebras with an involution [See also 16W10]
46K05 General theory of topological algebras with involution
46K10 Representations of topological algebras with involution
46K15 Hilbert algebras
46K50 Nonselfadjoint (sub)algebras in algebras with involution
46K70 Nonassociative topological algebras with an involution [See also 46H70, 46L70]
46K99 None of the above, but in this section
46Lxx Selfadjoint operator algebras (C^*-algebras, von Neumann (W^*-) algebras, etc.) [See also 22D25]
46L05 General theory of C^*-algebras
46L10 General theory of von Neumann algebras
46L30 States
46L35 Classifications of C^*-algebras, factors
46L37 Subfactors and their classification
46L40 Automorphisms
46L45 Decomposition theory for C^*-algebras
46L50 Noncommutative measure, integration and probability
46L55 Noncommutative dynamical systems [See also 28Dxx, 54H20, 58Fxx]
46L57 Derivations, dissipations and positive semigroups in C^*-algebras
46L60 Applications of selfadjoint operator algebras to physics [See also 46N50, 46N55, 47D45, 81T05, 82B10, 82C10]
46L70 Nonassociative selfadjoint operator algebras [See also 46H70, 46K70]
46L80 K-theory and operator algebras (including cyclic theory) [See also 18F25, 19Kxx, 46M20, 55Rxx, 58G12]
46L85 Noncommutative topology [See also 58B30, 58G12]
46L87 Noncommutative differential geometry [See also 58B30, 58G12]
46L89 Other "noncommutative" mathematics based on C^*-algebra theory [See also 58B30, 58G12]
46L99 None of the above, but in this section
46Mxx Methods of category theory in functional analysis [See also 18–XX]
46M05 Tensor products [See also 46A32, 46B28, 47A80]
46M07 Ultraproducts [See also 46B08, 46S20]
46M10 Projective and injective objects [See also 46A22]
46M15 Functors {For K-theory and EXT, see 19K33, 46L80, 46M20}
46M20 Methods of algebraic topology (cohomology, sheaf and bundle theory, etc.) [See also 14F05, 18Fxx, 19Kxx, 32Cxx, 32Lxx, 46L80, 55Rxx]
46M35 Abstract interpolation of topological vector spaces [See also 46B70]
46M40 Inductive and projective limits [See also 46A13]
46M99 None of the above, but in this section
46Nxx Miscellaneous applications of functional analysis [See also 47Nxx]
46N10 Applications in optimization, convex analysis, mathematical programming, economics
46N20 Applications to differential and integral equations
46N30 Applications in probability theory and statistics
46N40 Applications in numerical analysis [See also 65Jxx]
46N50 Applications in quantum physics
46N55 Applications in statistical physics
46N60 Applications in biology and other sciences
46N99 None of the above, but in this section
46Sxx Other (nonclassical) types of functional analysis [See also 47Sxx]
46S10 Functional analysis over fields other than **R** or **C** or the quaternions; non-Archimedean functional analysis [See also 12J25, 32P05]
46S20 Nonstandard functional analysis [See also 03H05]
46S30 Constructive functional analysis [See also 03F65]
46S40 Fuzzy functional analysis [See also 04A72]
46S50 Functional analysis in probabilistic metric linear spaces
46S99 None of the above, but in this section

47–XX OPERATOR THEORY
47–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
47–01 Instructional exposition (textbooks, tutorial papers, etc.)
47–02 Research exposition (monographs, survey articles)
47–03 Historical (must also be assigned at least one classification number from Section 01)
47–04 Explicit machine computation and programs (not the theory of computation or programming)
47–06 Proceedings, conferences, collections, etc.
47Axx General theory of linear operators
47A05 General (adjoints, conjugates, products, inverses, domains, ranges, etc.)
47A10 Spectrum, resolvent
47A11 Local spectral properties
47A12 Numerical range
47A13 Several-variable spectral theory
47A15 Invariant subspaces
47A20 Dilations, extensions, compressions
47A25 Spectral sets
47A30 Norms (inequalities, more than one norm, etc.)
47A35 Ergodic theory [See also 28Dxx]
47A40 Scattering theory [See also 34L25, 35P25, 81Uxx]
47A45 Canonical models for contractions and nonselfadjoint operators
47A48 Operator colligations (= nodes)
47A50 Equations and inequalities involving linear operators, with vector unknowns
47A53 (Semi-) Fredholm operators; index theories [See also 58B10, 58G12]
47A55 Perturbation theory
47A56 Functions whose values are linear operators (operator and matrix pencils, etc.)
47A57 Operator methods in interpolation, moment and extension problems [See also 30E05, 42A70, 42A82]
47A58 Operator approximation theory
47A60 Functional calculus
47A62 Equations involving linear operators, with operator unknowns
47A63 Operator inequalities, operator means, shorted operators, etc.
47A65 Structure theory
47A66 (Non)quasitriangular, (non)quasidiagonal operators
47A67 Representation theory
47A68 Factorization theory (including Wiener-Hopf and spectral factorizations)
47A70 (Generalized) eigenfunction expansions; rigged Hilbert spaces
47A75 Eigenvalue problems [See also 49Rxx]
47A80 Tensor products of operators [See also 46M05]
47A99 None of the above, but in this section
47Bxx Special classes of linear operators
47B06 Riesz operators; eigenvalue distributions; approximation numbers, s-numbers, Kolmogorov numbers, entropy numbers, etc. of operators
47B07 Operators defined by compactness properties
47B10 Operators belonging to operator ideals (nuclear, p-summing, in the Schatten-von Neumann classes, etc.) [See also 47D50]
47B15 Hermitian and normal operators (spectral measures, functional calculus, etc.)
47B20 Subnormal operators, hyponormal operators, etc.
47B25 Symmetric and selfadjoint operators (unbounded)
47B35 Toeplitz operators, Hankel operators, Wiener-Hopf operators [See also 45P05, 47G10 for other integral operators; see also 32H10, 32M15]
47B37 Operators on special spaces (weighted shifts, operators on sequence spaces, etc.)
47B38 Operators on function spaces (including composition operators, kernel operators)
47B39 Difference operators [See also 39A70]

47B40 Spectral operators, decomposable operators, well-bounded operators, etc.
47B44 Accretive operators, dissipative operators, etc.
47B47 Commutators, derivations, elementary operators, etc.
47B48 Operators on Banach algebras
47B49 Transformers (= operators on spaces of operators)
47B50 Operators on spaces with an indefinite metric
47B60 Operators on ordered spaces
47B65 Positive operators and order-bounded operators
47B80 Random operators [See also 60H25]
47B99 None of the above, but in this section
47Cxx Individual linear operators as elements of algebraic systems
47C05 Operators in algebras
47C10 Operators in $*$-algebras
47C15 Operators in C^*- or von Neumann algebras
47C99 None of the above, but in this section
47Dxx Algebraic systems of linear operators [See also 46Lxx]
47D03 (Semi)groups of linear operators {For nonlinear operators, see 47H20; see also 20M20}
47D06 One-parameter semigroups and linear evolution equations
47D07 Markov semigroups {For Markov processes, see 60Jxx}
47D09 Operator cosine functions and higher-order Cauchy problems
47D15 Linear spaces of operators [See also 46A32, 46B28]
47D20 Convex sets and cones of operators [See also 90C25, 90C31]
47D25 Operator algebras on Hilbert space
47D27 Dual operator algebras
47D30 Operator algebras on Banach spaces and other linear topological spaces
47D35 Dual spaces of operator algebras and topological groups
47D40 Algebras of unbounded operators
47D45 Applications of operator algebras to physics [See also 46L60, 46N50, 46N55, 47N50, 47N55]
47D50 Operator ideals
47D99 None of the above, but in this section
47E05 Ordinary differential operators [See also 34Bxx, 34Lxx, 58F19]
47F05 Partial differential operators [See also 35Pxx, 58G05]
47Gxx Integral, integro-differential, and pseudodifferential operators
47G10 Integral operators [See also 45P05]
47G20 Integro-differential operators [See also 45J05, 45K05]
47G30 Pseudodifferential operators [See also 35Sxx, 58G15]
47G99 None of the above, but in this section
47Hxx Nonlinear operators {For global and geometric aspects, see 58–XX, especially 58Cxx}
47H04 Set-valued operators [See also 28B20, 54C60, 58C06]
47H05 Monotone operators (with respect to duality)
47H06 Accretive operators, dissipative operators, etc.
47H07 Monotone and positive operators on ordered Banach spaces or other ordered topological vector spaces
47H09 Nonexpansive mappings, and their generalizations (ultimately compact mappings, measures of noncompactness, A-proper mappings, K-set contractions, etc.)
47H10 Fixed-point theorems [See also 54H25, 55M20, 58C30]
47H11 Degree theory [See also 55M25, 58C30]
47H12 Spectral theory of nonlinear operators [See also 58C40]
47H15 Equations involving nonlinear operators [See also 58E07 for abstract bifurcation theory]
47H17 Methods for solving equations involving nonlinear operators [See also 58C15] {For numerical analysis, see 65J15}
47H19 Inequalities involving nonlinear operators [See also 49J27, 49J40, 49K27]
47H20 Semigroups of nonlinear operators and nonlinear evolution equations [See also 58D07]
47H30 Particular nonlinear operators (superposition, Hammerstein, Nemytskii, Uryson, hysteresis operators, etc.) [See also 45P05]
47H40 Random operators [See also 60H25]
47H99 None of the above, but in this section
47Nxx Miscellaneous applications of operator theory [See also 46Nxx]
47N10 Applications in optimization, convex analysis, mathematical programming, economics
47N20 Applications to differential and integral equations
47N30 Applications in probability theory and statistics
47N40 Applications in numerical analysis [See also 65Jxx]
47N50 Applications in quantum physics
47N55 Applications in statistical physics
47N60 Applications in biology and other sciences
47N70 Applications in systems theory, circuits, etc.
47N99 None of the above, but in this section
47Sxx Other (nonclassical) types of operator theory [See also 46Sxx]
47S10 Operator theory over fields other than **R**, **C** or the quaternions; non-Archimedean operator theory
47S20 Nonstandard operator theory [See also 03H05]
47S30 Constructive operator theory [See also 03F65]
47S40 Fuzzy operator theory [See also 04A72]
47S50 Operator theory in probabilistic metric linear spaces
47S99 None of the above, but in this section

49–XX CALCULUS OF VARIATIONS AND OPTIMAL CONTROL; OPTIMIZATION [See also 34H05, 65Kxx, 90Cxx, 93–XX]
49–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
49–01 Instructional exposition (textbooks, tutorial papers, etc.)
49–02 Research exposition (monographs, survey articles)
49–03 Historical (must also be assigned at least one classification number from Section 01)
49–04 Explicit machine computation and programs (not the theory of computation or programming)
49–06 Proceedings, conferences, collections, etc.
49Jxx Existence theory for optimal solutions
49J05 Free problems in one independent variable
49J10 Free problems in two or more independent variables
49J15 Optimal control problems involving ordinary differential equations
49J20 Optimal control problems involving partial differential equations
49J22 Optimal control problems involving integral equations
49J24 Optimal control problems involving differential inclusions
49J25 Optimal control problems involving equations with retarded arguments [See also 34K35]
49J27 Problems in abstract spaces [see 90C48]
49J30 Optimal solutions belonging to restricted classes (Lipschitz controls, bang-bang controls, etc.)
49J35 Minimax problems
49J40 Variational methods including variational inequalities
49J45 Problems involving semicontinuity and convergence
49J50 Fréchet and Gateaux differentiability [See also 46G05, 58C20]
49J52 Nonsmooth analysis (other weak concepts of optimality) [See also 58C20, 90C48]
49J55 Problems involving randomness [See also 93E20]
49J99 None of the above, but in this section
49Kxx Necessary conditions and sufficient conditions for optimality
49K05 Free problems in one independent variable
49K10 Free problems in two or more independent variables
49K15 Problems involving ordinary differential equations
49K20 Problems involving partial differential equations
49K22 Problems involving integral equations
49K24 Problems involving differential inclusions
49K25 Problems involving equations with retarded arguments [See also 34K35]
49K27 Problems in abstract spaces [See 90C48, 93C25]
49K30 Optimal solutions belonging to restricted classes
49K35 Minimax problems
49K40 Sensitivity of optimal solutions in the presence of perturbations
49K45 Problems involving randomness [See also 93E20]
49K99 None of the above, but in this section
49Lxx Carathéodory, Hamilton-Jacobi theories, including dynamic programming
49L05 Free problems and problems involving ordinary differential equations
49L10 Free problems and problems involving partial differential equations
49L15 Problems in abstract spaces or problems involving functional relations other than differential equations
49L20 Dynamic programming method
49L25 Viscosity solutions
49L99 None of the above, but in this section
49Mxx Methods of successive approximations {For discrete problems, see 90Cxx; see also 65Kxx}
49M05 Methods based on necessary conditions
49M07 Gradient methods
49M10 Methods of steepest descent type
49M15 Methods of Newton-Raphson, Galerkin and Ritz types
49M20 Methods of relaxation type
49M25 Finite difference methods
49M27 Decomposition methods
49M29 Multiplier methods
49M30 Other methods, not based on necessary conditions (penalty function, etc.)
49M35 Methods of linear programming type [See also 90C05]
49M37 Nonlinear programming [See also 90C30]
49M39 Semi-infinite programming [See also 90C34]
49M40 Methods of quadratic programming type [See also 90C20]
49M45 Methods of convex programming type [See also 90C25]
49M49 Geometric programming [See also 90C28]
49M99 None of the above, but in this section
49Nxx Miscellaneous topics
49N05 Linear optimal control problems [See also 93C05]
49N10 Linear-quadratic problems
49N15 Duality theory
49N20 Periodic optimization
49N25 Impulsive optimal control problems [See also 93C57]

49N30 Problems with incomplete information [See also 93C41]
49N35 Closed-loop controls
49N40 Open-loop controls
49N45 Inverse problems in calculus of variations
49N50 Inverse problems in optimal control theory
49N55 Noneconomic applications of optimal control theory and differential games [See also 90D25]
49N60 Regularity of solutions in the calculus of variations
49N65 Applications of measurable selections to control theory [See also 28B20, 26E25]
49N99 None of the above, but in this section
49Qxx Manifolds [See also 58Fxx]
49Q05 Minimal surfaces [See also 53A10, 58E12]
49Q10 Optimization of the shape other than minimal surfaces [See also 73K40, 90C90]
49Q12 Sensitivity analysis
49Q15 Geometric measure and integration theory, integral and normal currents [See also 28A75, 32C30, 58A25, 58C35]
49Q20 Variational problems in a geometric measure-theoretic setting
49Q25 Surface area
49Q99 None of the above, but in this section
49Rxx Variational methods {For eigenvalues of operators, see 47A75}
49R05 Variational approach to eigenvalues
49R10 Rayleigh-Ritz methods
49R15 Weinstein and Aronszajn methods, intermediate problems
49R20 Linear operators in Hilbert spaces
49R99 None of the above, but in this section
49S05 Variational principles of physics

51-XX GEOMETRY {For algebraic geometry, see 14-XX}
51-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
51-01 Instructional exposition (textbooks, tutorial papers, etc.)
51-02 Research exposition (monographs, survey articles)
51-03 Historical (must also be assigned at least one classification number from Section 01)
51-04 Explicit machine computation and programs (not the theory of computation or programming)
51-06 Proceedings, conferences, collections, etc.
51Axx Linear incidence geometry
51A05 General theory and projective geometries
51A10 Homomorphism, automorphism and dualities
51A15 Structures with parallelism
51A20 Configuration theorems
51A25 Algebraization [See also 12Kxx, 20N05]
51A30 Desarguesian and Pappian geometries
51A35 Non-Desarguesian affine and projective planes
51A40 Translation planes and spreads
51A45 Incidence structures embeddable into projective geometries
51A50 Polar geometry, symplectic spaces, orthogonal spaces
51A99 None of the above, but in this section
51Bxx Nonlinear incidence geometry
51B05 General theory
51B10 Möbius geometries
51B15 Laguerre geometries
51B20 Minkowski geometries
51B25 Lie geometries
51B99 None of the above, but in this section
51C05 Ring geometry (Hjelmslev, Barbilian, etc.)
51Dxx Geometric closure systems
51D05 Abstract (Maeda) geometries
51D10 Abstract geometries with exchange axiom
51D15 Abstract geometries with parallelism
51D20 Combinatorial geometries [See also 05B25, 05B35]
51D25 Lattices of subspaces [See also 05B35]
51D30 Continuous geometries and related topics [See also 06Cxx]
51D99 None of the above, but in this section
51Exx Finite geometry and special incidence structures
51E05 General block designs [See also 05B05]
51E10 Steiner systems
51E12 Generalized quadrangles, generalized polygons
51E14 Finite partial geometries (general), nets, partial spreads
51E15 Affine and projective planes
51E20 Combinatorial structures in finite projective spaces [See also 05Bxx]
51E21 Blocking sets, ovals, k-arcs
51E22 Linear codes and caps in Galois spaces [See also 94B05]
51E23 Spreads and packing problems
51E24 Buildings and the geometry of diagrams
51E25 Other finite nonlinear geometries
51E26 Other finite linear geometries
51E30 Other finite incidence structures [See also 05B30]
51E99 None of the above, but in this section
51Fxx Metric geometry
51F05 Absolute planes
51F10 Absolute spaces
51F15 Reflection groups, reflection geometries [See also 20H10, 20H15; for Coxeter groups, see 20F55]
51F20 Congruence and orthogonality [See also 20H05]
51F25 Orthogonal and unitary groups [See also 20H05]
51F99 None of the above, but in this section
51G05 Ordered geometries (ordered incidence structures, etc.)
51Hxx Topological geometry
51H05 General theory
51H10 Topological linear incidence structures
51H15 Topological nonlinear incidence structures
51H20 Topological geometries on manifolds [See also 57-XX]
51H25 Geometries with differentiable structure [See also 53Cxx, 53C70]
51H30 Geometries with algebraic manifold structure [See also 14-XX]
51H99 None of the above, but in this section
51Jxx Incidence groups
51J05 General theory
51J10 Projective incidence groups
51J15 Kinematic spaces
51J20 Representation by near-fields and near-algebras [See also 12K05, 16Y30]
51J99 None of the above, but in this section
51Kxx Distance geometry
51K05 General theory
51K10 Synthetic differential geometry
51K99 None of the above, but in this section
51Lxx Geometric order structures [See also 53C75]
51L05 Geometry of orders of nondifferentiable curves
51L10 Directly differentiable curves
51L15 n-vertex theorems via direct methods
51L20 Geometry of orders of surfaces
51L99 None of the above, but in this section
51Mxx Real and complex geometry
51M04 Elementary problems in Euclidean geometries
51M05 Euclidean geometries (general) and generalizations
51M09 Elementary problems in hyperbolic and elliptic geometries
51M10 Hyperbolic and elliptic geometries (general) and generalizations
51M15 Geometric constructions
51M16 Inequalities and extremum problems {For convex problems, see 52A40}
51M20 Polyhedra and polytopes; regular figures, division of spaces [See also 51F15]
51M25 Length, area and volume [See also 26B15]
51M30 Line geometries and their generalizations [See also 53A25]
51M35 Synthetic treatment of fundamental manifolds in projective geometries (Grassmannians, Veronesians and their generalizations) [See also 14M15]
51M99 None of the above, but in this section
51Nxx Analytic and descriptive geometry
51N05 Descriptive geometry [See also 65D17, 68U07]
51N10 Affine analytic geometry
51N15 Projective analytic geometry
51N20 Euclidean analytic geometry
51N25 Analytic geometry with other transformation groups
51N30 Geometry of classical groups [See also 20Gxx, 14L35]
51N35 Questions of classical algebraic geometry [See also 14Nxx]
51N99 None of the above, but in this section
51P05 Geometry and physics (should also be assigned at least one other classification number from Sections 70-86)

52-XX CONVEX AND DISCRETE GEOMETRY
52-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
52-01 Instructional exposition (textbooks, tutorial papers, etc.)
52-02 Research exposition (monographs, survey articles)
52-03 Historical (must also be assigned at least one classification number from Section 01)
52-04 Explicit machine computation and programs (not the theory of computation or programming)
52-06 Proceedings, conferences, collections, etc.
52Axx General convexity
52A01 Axiomatic and generalized convexity
52A05 Convex sets without dimension restrictions
52A07 Convex sets in topological vector spaces [See also 46A55]
52A10 Convex sets in 2 dimensions (including convex curves) [See also 53A04]
52A15 Convex sets in 3 dimensions (including convex surfaces) [See also 53A05, 53C45]
52A20 Convex sets in n dimensions (including convex hypersurfaces) [See also 53A07, 53C45]

52A21 Finite-dimensional Banach spaces (including special norms, zonoids, etc.) [See also 46Bxx]
52A22 Random convex sets and integral geometry [See also 53C65, 60D05]
52A27 Approximation by convex sets
52A30 Variants of convex sets (star-shaped, (m,n)-convex, etc.)
52A35 Helly-type theorems
52A37 Other problems of combinatorial convexity
52A38 Length, area, volume [See also 26B15, 28A75, 49Q20]
52A39 Mixed volumes and related topics
52A40 Inequalities and extremum problems
52A41 Convex functions and convex programs [See also 26B25, 90C25]
52A55 Spherical and hyperbolic convexity
52A99 None of the above, but in this section
52Bxx Polytopes and polyhedra
52B05 Combinatorial properties (number of faces, shortest paths, etc.) [See also 05Cxx]
52B10 Three-dimensional polytopes
52B11 n-dimensional polytopes
52B12 Special polytopes (linear programming, centrally symmetric, etc.)
52B15 Symmetry properties of polytopes
52B20 Lattice polytopes (including relations with commutative algebra and algebraic geometry) [See also 06A08, 13F20, 13Hxx]
52B30 Arrangements of hyperplanes
52B35 Gale and other diagrams
52B40 Matroids (realizations in the context of convex polytopes, convexity in combinatorial structures, etc.) [See also 05B35]
52B45 Dissections and valuations (Hilbert's third problem, etc.)
52B55 Computational aspects related to convexity {For computational geometry and algorithms, see 68Q20, 68Q25, 68U05; for numerical algorithms, see 65Yxx}
52B60 Isoperimetric problems for polytopes
52B70 Polyhedral manifolds
52B99 None of the above, but in this section
52Cxx Discrete geometry
52C05 Lattices and convex bodies in 2 dimensions [See also 11H06, 11H31, 11P21]
52C07 Lattices and convex bodies in n dimensions [See also 11H06, 11H31, 11P21]
52C10 Erdős problems and related topics of discrete geometry [See also 11Hxx]
52C15 Packing and covering in 2 dimensions [See also 05B40, 11H31]
52C17 Packing and covering in n dimensions [See also 05B40, 11H31]
52C20 Tilings in 2 dimensions [See also 05B45, 51M20]
52C22 Tilings in n dimensions [See also 05B45, 51M20]
52C25 Rigidity and flexibility of structures [See also 70B15]
52C99 None of the above, but in this section

53-XX DIFFERENTIAL GEOMETRY {For differential topology, see 57Rxx. For foundational questions of differentiable manifolds, see 58Axx}
53-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
53-01 Instructional exposition (textbooks, tutorial papers, etc.)
53-02 Research exposition (monographs, survey articles)
53-03 Historical (must also be assigned at least one classification number from Section 01)
53-04 Explicit machine computation and programs (not the theory of computation or programming)
53-06 Proceedings, conferences, collections, etc.
53Axx Classical differential geometry
53A04 Curves in Euclidean space
53A05 Surfaces in Euclidean space
53A07 Higher-dimension and -codimension surfaces in Euclidean n-space
53A10 Minimal surfaces, surfaces with prescribed mean curvature [See also 49Q05, 49Q10, 53C42]
53A15 Affine differential geometry
53A17 Kinematics
53A20 Projective differential geometry
53A25 Differential line geometry
53A30 Conformal differential geometry
53A35 Non-Euclidean differential geometry
53A40 Other special differential geometries
53A45 Vector and tensor analysis
53A50 Spinor analysis
53A55 Differential invariants (local theory), geometric objects
53A60 Geometry of webs [See also 14C21, 20N05]
53A99 None of the above, but in this section
53Bxx Local differential geometry
53B05 Linear and affine connections
53B10 Projective connections
53B15 Other connections
53B20 Local Riemannian geometry
53B21 Methods of Riemannian geometry
53B25 Local submanifolds [See also 53C40]
53B30 Lorentz metrics, indefinite metrics
53B35 Hermitian and Kählerian structures [See also 32Cxx]
53B40 Finsler spaces and generalizations (areal metrics)
53B50 Applications to physics
53B99 None of the above, but in this section
53Cxx Global differential geometry [See also 51H25, 58-XX; for related bundle theory, see 55Rxx, 57Rxx]
53C05 Connections, general theory
53C07 Special connections and metrics on vector bundles (Hermite-Einstein-Yang-Mills) [See also 32L07]
53C10 G-structures
53C12 Foliations (differential geometric aspects) [See also 57R30, 57R32]
53C15 General geometric structures on manifolds (almost complex, contact, symplectic, almost product structures, etc.)
53C20 Global Riemannian geometry, including pinching [See also 31C12, 58B20]
53C21 Methods of Riemannian geometry, including PDE methods; curvature restrictions [See also 58G30]
53C22 Geodesics [See also 58E10]
53C23 Global topological methods (à la Gromov)
53C25 Special Riemannian manifolds (Einstein, Sasakian, etc.)
53C30 Homogeneous manifolds [See also 14M15, 14M17, 32M10, 57T15]
53C35 Symmetric spaces [See also 32M15, 57T15]
53C40 Global submanifolds [See also 53B25]
53C42 Immersions (minimal, prescribed curvature, tight, etc.) [See also 49Q05, 49Q10, 53A10, 57R40, 57R42]
53C45 Global surface theory (convex surfaces à la A. D. Aleksandrov)
53C50 Lorentz manifolds, manifolds with indefinite metrics
53C55 Hermitian and Kählerian manifolds [See also 32Cxx]
53C56 Other complex differential geometry [See also 32Cxx]
53C60 Finsler spaces and generalizations (areal metrics) [See also 58B20]
53C65 Integral geometry [See also 52A22, 60D05]; differential forms, currents, etc. [See mainly 58Axx]
53C70 Direct methods (G-spaces of Busemann, etc.)
53C75 Geometric orders, order geometry [See also 51Lxx]
53C80 Applications to physics
53C99 None of the above, but in this section

54-XX GENERAL TOPOLOGY {For the topology of manifolds of all dimensions, see 57Nxx}
54-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
54-01 Instructional exposition (textbooks, tutorial papers, etc.)
54-02 Research exposition (monographs, survey articles)
54-03 Historical (must also be assigned at least one classification number from Section 01)
54-04 Explicit machine computation and programs (not the theory of computation or programming)
54-06 Proceedings, conferences, collections, etc.
54Axx Generalities
54A05 Topological spaces and generalizations (closure spaces, etc.)
54A10 Several topologies on one set (change of topology, comparison of topologies, lattices of topologies)
54A15 Syntopogeneous structures
54A20 Convergence in general topology (sequences, filters, limits, convergence spaces, etc.)
54A25 Cardinality properties (cardinal functions and inequalities, discrete subsets) [See also 03Exx, 04A30] {For ultrafilters, see 54D80}
54A35 Consistency and independence results [See also 03E35]
54A40 Fuzzy topology [See also 04A72]
54A99 None of the above, but in this section
54Bxx Basic constructions
54B05 Subspaces
54B10 Product spaces
54B15 Quotient spaces, decompositions
54B17 Adjunction spaces and similar constructions
54B20 Hyperspaces
54B30 Categorical methods [See also 18B30]
54B35 Spectra
54B40 Presheaves and sheaves [See also 18F20]
54B99 None of the above, but in this section
54Cxx Maps and general types of spaces defined by maps
54C05 Continuous maps
54C08 Weak and generalized continuity
54C10 Special maps on topological spaces (open, closed, perfect, etc.)
54C15 Retraction
54C20 Extension of maps
54C25 Embedding
54C30 Real-valued functions [See also 26-XX]
54C35 Function spaces [See also 46Exx, 58D15]
54C40 Algebraic properties of function spaces [See also 46J10]
54C45 C- and C^*-embedding
54C50 Special sets defined by functions [See also 26A21]

54C55 Absolute neighborhood extensor, absolute extensor, absolute neighborhood retract (ANR), absolute retract spaces (general properties) [See also 55M15]
54C56 Shape theory [See also 55P55, 57N25]
54C60 Set-valued maps [See also 26E25, 28B20, 47H04, 58C06]
54C65 Selections [See also 28B20]
54C70 Entropy
54C99 None of the above, but in this section
54Dxx Fairly general properties
54D05 Connected and locally connected spaces (general aspects)
54D10 Lower separation axioms, (T_0–T_3, etc.)
54D15 Higher separation axioms (completely regular, normal, perfectly or collectionwise normal, etc.)
54D20 Noncompact covering properties (paracompact, Lindelöf, etc.)
54D25 "P-minimal" and "P-closed" spaces
54D30 Compactness
54D35 Extensions of spaces (compactifications, supercompactifications, completions, etc.)
54D40 Remainders
54D45 Local compactness, σ-compactness
54D50 k-spaces
54D55 Sequential spaces
54D60 Realcompactness and realcompactification
54D65 Separability
54D70 Base properties
54D80 Special constructions of spaces (spaces of ultrafilters, etc.)
54D99 None of the above, but in this section
54Exx Spaces with richer structures
54E05 Proximity structures and generalizations
54E15 Uniform structures and generalizations
54E17 Nearness spaces
54E18 p-spaces, M-spaces, σ-spaces, etc.
54E20 Stratifiable spaces, cosmic spaces, etc.
54E25 Semimetric spaces
54E30 Moore spaces
54E35 Metric spaces, metrizability
54E40 Special maps on metric spaces
54E45 Compact (locally compact) metric spaces
54E50 Complete metric spaces
54E52 Baire category, Baire spaces
54E55 Bitopologies
54E70 Probabilistic metric spaces
54E99 None of the above, but in this section
54Fxx Special properties
54F05 Ordered topological spaces, partially ordered spaces [See also 06B30, 06F30]
54F15 Continua and generalizations
54F35 Higher-dimensional local connectedness [See also 55Mxx, 55Nxx]
54F45 Dimension theory [See also 55M10]
54F50 Spaces of dimension ≤ 1; curves, dendrites [See also 26A03]
54F55 Unicoherence, multicoherence
54F65 Topological characterizations of particular spaces
54F99 None of the above, but in this section
54Gxx Peculiar spaces
54G05 Extremally disconnected spaces, F-spaces, etc.
54G10 P-spaces
54G12 Scattered spaces
54G15 Pathological spaces
54G20 Counterexamples
54G99 None of the above, but in this section
54Hxx Connections with other structures, applications
54H05 Descriptive set theory (topological aspects of Borel, analytic, projective, etc. sets) [See also 03E15, 04A15, 26A21, 28A05]
54H10 Topological representations of algebraic systems [See also 22–XX]
54H11 Topological groups [See also 22A05]
54H12 Topological lattices, etc. [See also 06B30, 06F30]
54H13 Topological fields, rings, etc. [See also 12Jxx] {For algebraic aspects, see 13Jxx, 16W80}
54H15 Transformation groups and semigroups [See also 20M20, 22–XX, 57Sxx]
54H20 Topological dynamics [See also 28Dxx, 34C35, 58Fxx]
54H25 Fixed-point and coincidence theorems [See also 47H10, 55M20]
54H99 None of the above, but in this section
54J05 Nonstandard topology [See also 03H05]

55–XX ALGEBRAIC TOPOLOGY
55–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
55–01 Instructional exposition (textbooks, tutorial papers, etc.)
55–02 Research exposition (monographs, survey articles)
55–03 Historical (must also be assigned at least one classification number from Section 01)
55–04 Explicit machine computation and programs (not the theory of computation or programming)
55–06 Proceedings, conferences, collections, etc.
55Mxx Classical topics {For the topology of Euclidean spaces and manifolds, see 57Nxx}
55M05 Duality
55M10 Dimension theory [See also 54F45]
55M15 Absolute neighborhood retracts [See also 54C55]
55M20 Fixed points and coincidences [See also 54H25]
55M25 Degree, winding number
55M30 Ljusternik-Schnirelman (Lyusternik-Shnirel'man) category of a space
55M35 Finite groups of transformations (including Smith theory) [See also 57S17]
55M99 None of the above, but in this section
55Nxx Homology and cohomology theories [See also 57Txx]
55N05 Čech types
55N07 Steenrod-Sitnikov homologies
55N10 Singular theory
55N15 K-theory [See also 19Lxx] {For algebraic K-theory, see 18F25, 19–XX}
55N20 Generalized (extraordinary) homology and cohomology theories
55N22 Bordism and cobordism theories, formal group laws [See also 14L05, 19L41, 57R75, 57R77, 57R85, 57R90]
55N25 Homology with local coefficients, equivariant cohomology
55N30 Sheaf cohomology [See also 18F20, 32C35, 32L10]
55N33 Intersection homology and cohomology
55N35 Other homology theories
55N40 Axioms for homology theory and uniqueness theorems
55N45 Products and intersections
55N91 Equivariant homology and cohomology [See also 19L47]
55N99 None of the above, but in this section
55Pxx Homotopy theory {For simple homotopy type, see 57Q10}
55P05 Homotopy extension properties, cofibrations
55P10 Homotopy equivalences
55P15 Classification of homotopy type
55P20 Eilenberg-Mac Lane spaces
55P25 Spanier-Whitehead duality
55P30 Eckmann-Hilton duality
55P35 Loop spaces
55P40 Suspensions
55P42 Stable homotopy theory, spectra
55P45 H-spaces and duals
55P47 Infinite loop spaces
55P50 Category and cocategory, etc.
55P55 Shape theory [See also 54C56, 55Q07]
55P60 Localization and completion
55P62 Rational homotopy theory
55P65 Homotopy functors
55P91 Equivariant homotopy theory [See also 19L47]
55P99 None of the above, but in this section
55Qxx Homotopy groups
55Q05 Homotopy groups, general; sets of homotopy classes
55Q07 Shape groups
55Q10 Stable homotopy groups
55Q15 Whitehead products and generalizations
55Q20 Homotopy groups of wedges, joins, and simple spaces
55Q25 Hopf invariants
55Q30 Homotopy groups of triads, n-ads
55Q35 Operations in homotopy groups
55Q40 Homotopy groups of spheres
55Q45 Stable homotopy of spheres
55Q50 J-morphism [See also 19L20]
55Q52 Homotopy groups of special spaces
55Q55 Cohomotopy groups
55Q70 Homotopy groups of special types [See also 55N05, 55N07]
55Q91 Equivariant homotopy groups [See also 19L47]
55Q99 None of the above, but in this section
55Rxx Fiber spaces and bundles [See also 18F15, 32Lxx, 46M20, 57R20, 57R22, 57R25]
55R05 Fiber spaces
55R10 Fiber bundles
55R12 Transfer
55R15 Classification
55R20 Spectral sequences and homology of fiber spaces [See also 55Txx]
55R25 Sphere bundles and vector space bundles
55R35 Classifying spaces of groups and H-spaces
55R40 Homology of classifying spaces, characteristic classes [See also 57Txx, 57R20]
55R45 Homology and homotopy of BO and BU; Bott periodicity
55R50 Stable classes of vector space bundles, K-theory [See also 19Lxx] {For algebraic K-theory, see 18F25, 19–XX}
55R55 Fiberings with singularities

55R60 Microbundles and block bundles [See also 57N55, 57Q50]
55R65 Generalizations of fiber spaces and bundles
55R91 Equivariant fiber spaces and bundles [See also 19L47]
55R99 None of the above, but in this section
55Sxx Operations and obstructions
55S05 Primary cohomology operations
55S10 Steenrod algebra
55S12 Dyer-Lashof operations
55S15 Symmetric products, cyclic products
55S20 Secondary and higher cohomology operations
55S25 K-theory operations and generalized cohomology operations [See also 19D55, 19Lxx]
55S30 Massey products
55S35 Obstruction theory
55S36 Extension and compression of mappings
55S37 Classification of mappings
55S40 Sectioning fiber spaces and bundles
55S45 Postnikov systems, k-invariants
55S91 Equivariant operations and obstructions [See also 19L47]
55S99 None of the above, but in this section
55Txx Spectral sequences [See also 18G40, 55R20]
55T05 General
55T10 Serre spectral sequences
55T15 Adams spectral sequences
55T20 Eilenberg-Moore spectral sequences [See also 57T35]
55T25 Generalized cohomology
55T99 None of the above, but in this section
55Uxx Applied homological algebra and category theory [See also 18Gxx]
55U05 Abstract complexes
55U10 Semisimplicial complexes
55U15 Chain complexes
55U20 Universal coefficient theorems, Bockstein operator
55U25 Homology of a product, Künneth formula
55U30 Duality
55U35 Abstract homotopy theory
55U40 Topological categories
55U99 None of the above, but in this section

57–XX MANIFOLDS AND CELL COMPLEXES {For complex manifolds, see 32C10}
57–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
57–01 Instructional exposition (textbooks, tutorial papers, etc.)
57–02 Research exposition (monographs, survey articles)
57–03 Historical (must also be assigned at least one classification number from Section 01)
57–04 Explicit machine computation and programs (not the theory of computation or programming)
57–06 Proceedings, conferences, collections, etc.
57Mxx Low-dimensional topology
57M05 Fundamental group, presentations, free differential calculus
57M07 Topological methods in group theory
57M10 Covering spaces
57M12 Special coverings, e.g. branched
57M15 Relations with graph theory [See also 05Cxx]
57M20 Two-dimensional complexes
57M25 Knots and links in S^3 {For higher dimensions, see 57Q45}
57M30 Wild knots and surfaces, etc.; wild embeddings
57M35 Dehn's lemma, sphere theorem, loop theorem, asphericity
57M40 Characterizations of E^3 and S^3 (Poincaré conjecture) [See also 57N12]
57M50 Geometric structures on low-dimensional manifolds
57M60 Group actions in low dimensions
57M99 None of the above, but in this section
57Nxx Topological manifolds
57N05 Topology of E^2, 2-manifolds
57N10 Topology of general 3-manifolds [See also 57Mxx]
57N12 Topology of E^3 and S^3 [See also 57M40]
57N13 Topology of E^4, 4-manifolds [See also 14Jxx, 32Jxx]
57N15 Topology of E^n, n-manifolds ($4 < n < \infty$)
57N17 Topology of topological vector spaces
57N20 Topology of infinite-dimensional manifolds [See also 58Bxx]
57N25 Shapes [See also 54C56, 55P55, 55Q07]
57N30 Engulfing
57N35 Embeddings and immersions
57N37 Isotopy and pseudo-isotopy
57N40 Neighborhoods of submanifolds
57N45 Flatness and tameness
57N50 $S^{n-1} \subset E^n$, Schoenflies problem
57N55 Microbundles and block bundles [See also 55R60, 57Q50]
57N60 Cellularity
57N65 Algebraic topology of manifolds
57N70 Cobordism and concordance
57N75 General position and transversality
57N80 Stratifications
57N99 None of the above, but in this section
57Pxx Generalized manifolds [See also 18F15]
57P05 Local properties of generalized manifolds
57P10 Poincaré duality spaces
57P99 None of the above, but in this section
57Qxx PL-topology
57Q05 General topology of complexes
57Q10 Simple homotopy type, Whitehead torsion, Reidemeister-Franz torsion, etc. [See also 19B28]
57Q12 Wall finiteness obstruction for CW-complexes
57Q15 Triangulating manifolds
57Q20 Cobordism
57Q25 Comparison of PL-structures: classification, Hauptvermutung
57Q30 Engulfing
57Q35 Embeddings and immersions
57Q37 Isotopy
57Q40 Regular neighborhoods
57Q45 Knots and links (in high dimensions) {For the low-dimensional case, see 57M25}
57Q50 Microbundles and block bundles [See also 55R60, 57N55]
57Q55 Approximations
57Q60 Cobordism and concordance
57Q65 General position and transversality
57Q91 Equivariant PL-topology
57Q99 None of the above, but in this section
57Rxx Differential topology {For foundational questions of differentiable manifolds, see 58Axx; for infinite-dimensional manifolds, see 58Bxx}
57R05 Triangulating
57R10 Smoothing
57R12 Smooth approximations
57R15 Specialized structures on manifolds (spin manifolds, framed manifolds, etc.)
57R19 Algebraic topology on manifolds
57R20 Characteristic classes and numbers
57R22 Topology of vector bundles and fiber bundles [See also 55Rxx]
57R25 Vector fields, frame fields
57R27 Controllability of vector fields on C^∞ and real-analytic manifolds [See also 49Qxx, 58F40, 93B05]
57R30 Foliations; geometric theory
57R32 Classifying spaces for foliations; Gel'fand-Fuks cohomology [See also 58H10]
57R35 Differentiable mappings
57R40 Embeddings
57R42 Immersions
57R45 Singularities of differentiable mappings
57R50 Diffeomorphisms
57R52 Isotopy
57R55 Differentiable structures
57R57 Applications of global analysis to structures on manifolds [See also 58–XX]
57R60 Homotopy spheres, Poincaré conjecture
57R65 Surgery and handlebodies
57R67 Surgery obstructions, Wall groups [See also 19J25]
57R70 Critical points and critical submanifolds
57R75 O- and SO-cobordism
57R77 Complex cobordism (U- and SU-cobordism) [See also 55N22]
57R80 h- and s-cobordism
57R85 Equivariant cobordism
57R90 Other types of cobordism [See 55N22.]
57R91 Equivariant algebraic topology of manifolds
57R95 Realizing cycles by submanifolds
57R99 None of the above, but in this section
57Sxx Topological transformation groups [See also 20F34, 22–XX, 54H15, 58D05]
57S05 Topological properties of groups of homeomorphisms or diffeomorphisms
57S10 Compact groups of homeomorphisms
57S15 Compact Lie groups of differentiable transformations
57S17 Finite transformation groups
57S20 Noncompact Lie groups of transformations
57S25 Groups acting on specific manifolds
57S30 Discontinuous groups of transformations
57S99 None of the above, but in this section
57Txx Homology and homotopy of topological groups and related structures
57T05 Hopf algebras [See also 16W30]
57T10 Homology and cohomology of Lie groups
57T15 Homology and cohomology of homogeneous spaces of Lie groups
57T20 Homotopy groups of topological groups and homogeneous spaces
57T25 Homology and cohomology of H-spaces
57T30 Bar and cobar constructions [See also 18G55, 55Uxx]

57T35 Applications of Eilenberg-Moore spectral sequences [See also 55R20, 55T20]
57T99 None of the above, but in this section

58-XX GLOBAL ANALYSIS, ANALYSIS ON MANIFOLDS [See also 32Cxx, 32Fxx, 46-XX, 47Hxx, 53Cxx; for geometric integration theory, see 49Q15]
58-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
58-01 Instructional exposition (textbooks, tutorial papers, etc.)
58-02 Research exposition (monographs, survey articles)
58-03 Historical (must also be assigned at least one classification number from Section 01)
58-04 Explicit machine computation and programs (not the theory of computation or programming)
58-06 Proceedings, conferences, collections, etc.
58Axx General theory of differentiable manifolds
58A03 Topos-theoretic approach to differentiable manifolds
58A05 Differentiable manifolds, foundations
58A07 Real-analytic and Nash manifolds [See also 14P20, 32C07]
58A10 Differential forms
58A12 de Rham theory [See also 14Fxx]
58A14 Hodge theory [See also 14C30, 14Fxx, 32J25, 32S35]
58A15 Exterior differential systems (Cartan theory)
58A17 Pfaffian systems
58A20 Jets
58A25 Currents [See also 32C30, 53C65]
58A30 Vector distributions (subbundles of the tangent bundles)
58A35 Stratified sets [See also 32S60, 58C27]
58A40 Differential spaces
58A50 Supermanifolds and graded manifolds [See also 14A22, 32C11]
58A99 None of the above, but in this section
58Bxx Infinite-dimensional manifolds
58B05 Homotopy and topological questions
58B10 Differentiability questions
58B12 Questions of holomorphy [See also 32-XX, 46G20]
58B15 Fredholm structures [See also 47A53]
58B20 Riemannian, Finsler and other geometric structures [See also 53C20, 53C60]
58B25 Group structures and generalizations on infinite-dimensional manifolds [See also 22E65, 58D05]
58B30 Noncommutative differential geometry and topology [See also 46L30, 46L87, 46L89]
58B99 None of the above, but in this section
58Cxx Calculus on manifolds; nonlinear operators [See also 47Hxx]
58C05 Real-valued functions
58C06 Set valued and function-space valued mappings [See also 47H04, 54C60]
58C07 Continuity properties of mappings
58C10 Holomorphic maps [See also 32-XX]
58C15 Implicit function theorems; global Newton methods
58C20 Differentiation theory (Gateaux, Fréchet, etc.) [See also 26Exx, 46G05]
58C25 Differentiable maps
58C27 Singularities of differentiable maps [See also 14B05, 14E15, 32Sxx]
58C28 Catastrophes [See also 57R70, 58Exx]
58C30 Fixed point theorems on manifolds [See also 47H10]
58C35 Integration on manifolds; measures on manifolds [See also 28Cxx]
58C40 Spectral theory; eigenvalue problems [See also 47H12, 58E07]
58C50 Analysis on supermanifolds or graded manifolds
58C99 None of the above, but in this section
58Dxx Spaces and manifolds of mappings (including nonlinear versions of 46Exx)
58D05 Groups of diffeomorphisms and homeomorphisms as manifolds [See also 22E65, 57S05]
58D07 Groups and semigroups of nonlinear operators [See also 17B65, 47D03, 47D06, 47H20]
58D10 Spaces of embeddings and immersions
58D15 Manifolds of mappings [See also 54C35]
58D17 Manifolds of metrics (esp. Riemannian)
58D19 Group actions and symmetry properties
58D20 Measures (Gaussian, cylindrical, etc.) on manifolds of maps [See 28Cxx.]
58D25 Equations in function spaces; evolution equations [See also 34Gxx, 35K22, 35R15, 47H15]
58D27 Moduli problems for differential geometric structures
58D29 Moduli problems for topological structures
58D30 Applications (in quantum mechanics (Feynman path integrals), relativity, fluid dynamics, etc.)
58D99 None of the above, but in this section
58Exx Variational problems in infinite-dimensional spaces
58E05 Abstract critical point theory (Morse theory, Ljusternik-Schnirelman (Lyusternik-Shnirel'man) theory, etc.)
58E07 Abstract bifurcation theory
58E09 Group-invariant bifurcation theory
58E10 Applications to the theory of geodesics (problems in one independent variable)
58E11 Critical metrics
58E12 Applications to minimal surfaces (problems in two independent variables)
58E15 Application to extremal problems in several variables; Yang-Mills functionals [See also 81T13], etc.
58E17 Pareto optimality, etc., applications to economics
58E20 Harmonic maps
58E25 Applications to control theory (optimal and nonoptimal)
58E30 Variational principles
58E35 Variational inequalities (global problems)
58E40 Group actions
58E50 Applications
58E99 None of the above, but in this section
58Fxx Ordinary differential equations on manifolds; dynamical systems [See also 28D10, 34Cxx, 54H20]
58F03 One-dimensional dynamics, general symbolic dynamics [See also 26A18]
58F05 Hamiltonian and Lagrangian systems; symplectic geometry [See also 70Hxx, 81S10]
58F06 Geometric quantization (applications of representation theory) [See also 22E45, 81S10]
58F07 Completely integrable systems (including systems with an infinite number of degrees of freedom)
58F08 Point-mapping properties, iterations, completeness; dynamics of cellular automata [See also 26A18, 30D05]
58F09 Morse-Smale systems
58F10 Stability theory
58F11 Ergodic theory; invariant measures [See also 28Dxx]
58F12 Structure of attractors (and repellors)
58F13 Strange attractors; chaos and other pathologies [See also 70K50]
58F14 Bifurcation theory and singularities
58F15 Hyperbolic structures (expanding maps, Anosov systems, etc.)
58F17 Geodesic and horocycle flows
58F18 Relations with foliations
58F19 Eigenvalue and spectral problems
58F20 Periodic points and zeta functions
58F21 Limit cycles, singular points, etc.
58F22 Periodic solutions
58F23 Holomorphic dynamics [See also 30D05]
58F25 Flows
58F27 Quasiperiodic flows
58F30 Perturbations
58F32 Functional-differential equations on manifolds
58F35 Invariance properties
58F36 Normal forms
58F37 Correspondences and other transformation methods (e.g. Lie-Bäcklund)
58F39 Dynamical systems treatment of PDE (should be assigned another number from 58F) [See also 35B32, 35K57]
58F40 Applications
58F99 None of the above, but in this section
58Gxx Partial differential equations on manifolds; differential operators [See also 35-XX]
58G03 Elliptic equations on manifolds, general theory
58G05 Differential complexes [See also 35Nxx]; elliptic complexes
58G07 Relations with hyperfunctions
58G10 Index theory and related fixed point theorems [See also 19K56, 46L80]
58G11 Heat and other parabolic equation methods
58G12 Exotic index theories [See also 19K56, 46L05, 46L10, 46L80, 46M20]
58G15 Pseudodifferential and Fourier integral operators on manifolds [See also 35Sxx]
58G16 Hyperbolic equations
58G17 Propagation of singularities; initial value problems
58G18 Perturbations; asymptotics
58G20 Boundary value problems on manifolds
58G25 Spectral problems; spectral geometry; scattering theory [See also 35Pxx]
58G26 Determinants and determinant bundles
58G28 Bifurcations [See also 35B32]
58G30 Relations with special manifold structures (Riemannian, Finsler, etc.)
58G32 Diffusion processes and stochastic analysis on manifolds
58G35 Invariance and symmetry properties [See also 35A30]
58G37 Correspondences and other transformation methods (e.g. Lie-Bäcklund) [See also 35A22]
58G40 Applications
58G99 None of the above, but in this section
58Hxx Pseudogroups, differentiable groupoids and general structures on manifolds
58H05 Pseudogroups and differentiable groupoids [See also 22A22, 22E65]

58H10 Cohomology of classifying spaces for pseudogroup structures (Spencer, Gel'fand-Fuks, etc.) [See also 57R32]
58H15 Deformations of structures [See also 32Gxx, 58G05]
58H99 None of the above, but in this section
58Z05 Applications to physics

60-XX PROBABILITY THEORY AND STOCHASTIC PROCESSES {For additional applications, see 11Kxx, 62-XX, 90-XX, 92-XX, 93-XX, 94-XX. For numerical results, see 65U05}
60-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
60-01 Instructional exposition (textbooks, tutorial papers, etc.)
60-02 Research exposition (monographs, survey articles)
60-03 Historical (must also be assigned at least one classification number from Section 01)
60-04 Explicit machine computation and programs (not the theory of computation or programming)
60-06 Proceedings, conferences, collections, etc.
60Axx Foundations of probability theory
60A05 Axioms; other general questions
60A10 Probabilistic measure theory {For ergodic theory, see 28Dxx and 60Fxx}
60A99 None of the above, but in this section
60Bxx Probability theory on algebraic and topological structures
60B05 Probability measures on topological spaces
60B10 Convergence of probability measures
60B11 Probability theory on linear topological spaces [See also 28C20]
60B12 Limit theorems for vector-valued random variables (infinite-dimensional case)
60B15 Probability measures on groups, Fourier transforms, factorization
60B99 None of the above, but in this section
60C05 Combinatorial probability
60D05 Geometric probability, stochastic geometry, random sets [See also 52A22, 53C65]
60Exx Distribution theory [See also 62Exx, 62Hxx]
60E05 Distributions: general theory
60E07 Infinitely divisible distributions; stable distributions
60E10 Characteristic functions; other transforms
60E15 Inequalities (Chebyshev, Kolmogorov, etc.)
60E99 None of the above, but in this section
60Fxx Limit theorems [See also 28Dxx, 60B12]
60F05 Central limit and other weak theorems
60F10 Large deviations
60F15 Strong theorems
60F17 Functional limit theorems; invariance principles
60F20 Zero-one laws
60F25 L^p-limit theorems
60F99 None of the above, but in this section
60Gxx Stochastic processes
60G05 Foundations of stochastic processes
60G07 General theory of processes
60G09 Exchangeability
60G10 Stationary processes
60G12 General second-order processes
60G15 Gaussian processes
60G17 Sample path properties
60G18 Self-similar processes
60G20 Generalized stochastic processes
60G25 Prediction theory [See also 62M20]
60G30 Continuity and singularity of induced measures
60G35 Applications (signal detection, filtering, etc.) [See also 62M20, 93E10, 93E11, 94Axx]
60G40 Stopping times; optimal stopping problems; gambling theory [See also 62L15, 90D60]
60G42 Martingales with discrete parameter
60G44 Martingales with continuous parameter
60G46 Martingales and classical analysis
60G48 Generalizations of martingales
60G50 Sums of independent random variables
60G55 Point processes
60G57 Random measures
60G60 Random fields
60G70 Extreme value theory; extremal processes
60G99 None of the above, but in this section
60Hxx Stochastic analysis [See also 58G32]
60H05 Stochastic integrals
60H07 Stochastic calculus of variations and the Malliavin calculus
60H10 Stochastic ordinary differential equations [See also 34F05]
60H15 Stochastic partial differential equations [See also 35R60]
60H20 Stochastic integral equations
60H25 Random operators and equations [See also 47B80]
60H30 Applications of stochastic analysis (to PDE, etc.)
60H99 None of the above, but in this section
60Jxx Markov processes
60J05 Markov processes with discrete parameter
60J10 Markov chains with discrete parameter
60J15 Random walks
60J20 Applications of discrete Markov processes (social mobility, learning theory, industrial processes, etc.) [See also 90B30, 92H10, 92H35, 92J40]
60J25 Markov processes with continuous parameter
60J27 Markov chains with continuous parameter
60J30 Processes with independent increments
60J35 Transition functions, generators and resolvents [See also 47D03, 47D07]
60J40 Right processes
60J45 Probabilistic potential theory [See also 31Cxx, 31D05]
60J50 Boundary theory
60J55 Local time and additive functionals
60J57 Multiplicative functionals
60J60 Diffusion processes [See also 58G32]
60J65 Brownian motion [See also 58G32]
60J70 Applications of diffusion theory (population genetics, absorption problems, etc.) [See also 92Dxx]
60J75 Jump processes
60J80 Branching processes (Galton-Watson, birth-and-death, etc.)
60J85 Applications of branching processes [See also 92Dxx]
60J99 None of the above, but in this section
60Kxx Special processes
60K05 Renewal theory
60K10 Applications (reliability, demand theory, etc.)
60K15 Markov renewal processes, semi-Markov processes
60K20 Applications of Markov renewal processes (reliability, queueing networks, etc.) [See also 90Bxx]
60K25 Queueing theory [See also 68M20, 90B22]
60K30 Applications (congestion, allocation, storage, traffic, etc.) [See also 90Bxx]
60K35 Interacting random processes; statistical mechanics type models; percolation theory [See also 82B43, 82C43]
60K40 Other physical applications of random processes
60K99 None of the above, but in this section

62-XX STATISTICS {For numerical methods, see 65U05}
62-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
62-01 Instructional exposition (textbooks, tutorial papers, etc.)
62-02 Research exposition (monographs, survey articles)
62-03 Historical (must also be assigned at least one classification number from Section 01)
62-04 Explicit machine computation and programs (not the theory of computation or programming)
62-06 Proceedings, conferences, collections, etc.
62-07 Data analysis
62-09 Graphical methods
62Axx Foundations
62A05 Invariance and group considerations
62A10 The likelihood approach
62A15 The Bayesian approach
62A20 The classical approach
62A25 The structural approach
62A30 The fiducial approach
62A99 None of the above, but in this section
62Bxx Sufficiency and information
62B05 Sufficient statistics and fields
62B10 Statistical information theory [See also 94A17]
62B15 Theory of statistical experiments
62B20 Measure-theoretic results, etc.
62B99 None of the above, but in this section
62Cxx Decision theory [See also 90A05, 90B50; for game theory, see 90D35]
62C05 General considerations
62C07 Complete class results
62C10 Bayesian problems; characterization of Bayes procedures
62C12 Empirical decision procedures; empirical Bayes procedures
62C15 Admissibility
62C20 Minimax procedures
62C25 Compound decision problems
62C99 None of the above, but in this section
62D05 Sampling theory, sample surveys
62Exx Distribution theory [See also 60Exx]
62E10 Characterization and structure theory
62E15 Exact distribution theory
62E17 Approximations to distributions (nonasymptotic)
62E20 Asymptotic distribution theory
62E25 Monte Carlo studies
62E30 Formal computational methods (polykays, etc.)
62E99 None of the above, but in this section

62Fxx Parametric inference
62F03 Hypothesis testing
62F04 Small-sample properties of tests
62F05 Asymptotic properties of tests
62F07 Ranking and selection
62F10 Point estimation
62F11 Small-sample properties of estimators
62F12 Asymptotic properties of estimators
62F15 Bayesian inference
62F25 Tolerance and confidence regions
62F30 Inference under constraints
62F35 Robustness and adaptive procedures
62F99 None of the above, but in this section
62Gxx Nonparametric inference
62G05 Estimation
62G07 Curve estimation (nonparametric regression, density estimation, etc.)
62G09 Resampling methods
62G10 Hypothesis testing
62G15 Tolerance and confidence regions
62G20 Asymptotic properties
62G30 Order statistics; empirical distribution functions
62G35 Robustness
62G99 None of the above, but in this section
62Hxx Multivariate analysis [See also 60Exx]
62H05 Characterization and structure theory
62H10 Distribution of statistics
62H11 Directional data; spatial statistics
62H12 Estimation
62H15 Hypothesis testing
62H17 Contingency
62H20 Measures of association (correlation, canonical correlation, etc.)
62H25 Factor analysis and principal components; correspondence analysis
62H30 Classification and discrimination; cluster analysis [See also 68T10]
62H40 Projection pursuit
62H99 None of the above, but in this section
62Jxx Linear inference, regression
62J02 General nonlinear regression
62J05 Linear regression
62J07 Ridge regression; James-Stein estimators
62J10 Analysis of variance and covariance
62J12 Generalized linear models
62J15 Paired and multiple comparisons
62J20 Diagnostics
62J99 None of the above, but in this section
62Kxx Experimental design [See also 05Bxx]
62K05 Optimal designs
62K10 Block designs
62K15 Factorial designs
62K99 None of the above, but in this section
62Lxx Sequential methods
62L05 Sequential design
62L10 Sequential analysis
62L12 Sequential estimation
62L15 Optimal stopping [See also 60G40, 90D60]
62L20 Stochastic approximation
62L99 None of the above, but in this section
62Mxx Inference from stochastic processes
62M02 Markov processes: hypothesis testing
62M05 Markov processes: estimation
62M07 Non-Markovian processes: hypothesis testing
62M09 Non-Markovian processes: estimation
62M10 Time series, auto-correlation, regression, etc. [See also 90A20]
62M15 Spectral analysis
62M20 Prediction [See also 60G25]; filtering [See also 60G35, 93E10, 93E11]
62M30 Spatial processes
62M40 Random fields
62M99 None of the above, but in this section
62Nxx Engineering statistics
62N05 Reliability and life testing [See also 90B25]
62N10 Quality control
62N99 None of the above, but in this section
62Pxx Applications [See also 90–XX, 92–XX]
62P05 Applications to actuarial sciences and financial mathematics
62P10 Applications to biology
62P15 Applications to psychology
62P20 Applications to economics [See also 90Axx]
62P25 Applications to social sciences
62P99 None of the above, but in this section
62Q05 Statistical tables

65–XX NUMERICAL ANALYSIS
65–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
65–01 Instructional exposition (textbooks, tutorial papers, etc.)
65–02 Research exposition (monographs, survey articles)
65–03 Historical (must also be assigned at least one classification number from Section 01)
65–04 Explicit machine computation and programs (not the theory of computation or programming)
65–05 Experimental papers
65–06 Proceedings, conferences, collections, etc.
65A05 Tables
65Bxx Acceleration of convergence
65B05 Extrapolation to the limit, deferred corrections
65B10 Summation of series
65B15 Euler-Maclaurin formula
65B99 None of the above, but in this section
65Cxx Numerical simulation {For theoretical aspects, see 68U20}
65C05 Monte Carlo methods
65C10 Random number generation
65C20 Models, numerical methods
65C99 None of the above, but in this section
65Dxx Numerical approximation {Primarily algorithms; for theory, see 41–XX}
65D05 Interpolation
65D07 Splines
65D10 Smoothing, curve fitting
65D15 Algorithms for functional approximation
65D17 Computer-aided design (modeling of curves and surfaces) [See also 68U05]
65D20 Computation of special functions, construction of tables
65D25 Numerical differentiation
65D30 Numerical integration
65D32 Quadrature and cubature formulas
65D99 None of the above, but in this section
65E05 Numerical methods in complex analysis (potential theory, etc.) {For numerical methods in conformal mapping, see 30C30}
65Fxx Numerical linear algebra
65F05 Direct methods for linear systems and matrix inversion
65F10 Iterative methods for linear systems [See also 65N22]
65F15 Eigenvalues, eigenvectors
65F20 Overdetermined systems, pseudoinverses
65F25 Orthogonalization
65F30 Other matrix algorithms
65F35 Matrix norms, conditioning, scaling [See also 15A12, 15A60]
65F40 Determinants
65F50 Sparse matrices
65F99 None of the above, but in this section
65Gxx Error analysis
65G05 Roundoff error
65G10 Interval and finite arithmetic
65G99 None of the above, but in this section
65Hxx Nonlinear algebraic or transcendental equations
65H05 Single equations
65H10 Systems of equations
65H17 Eigenvalues, eigenvectors and bifurcation problems [See also 58C40, 58E07, 58F14, 90C30]
65H20 Global methods, including homotopy approaches [See also 58C30, 90C30]
65H99 None of the above, but in this section
65Jxx Numerical analysis in abstract spaces
65J05 General theory
65J10 Equations with linear operators (do not use 65Fxx)
65J15 Equations with nonlinear operators (do not use 65Hxx)
65J20 Improperly posed problems
65J99 None of the above, but in this section
65Kxx Mathematical programming, optimization and variational techniques
65K05 Mathematical programming [See also 90Cxx]
65K10 Optimization and variational techniques [See also 49Mxx, 93B40]
65K99 None of the above, but in this section
65Lxx Ordinary differential equations
65L05 Initial value problems
65L06 Multistep, Runge-Kutta and extrapolation methods
65L07 Numerical investigation of stability of solutions
65L08 Improperly posed problems
65L10 Boundary value problems
65L12 Finite difference methods
65L15 Eigenvalue problems
65L20 Stability of numerical methods
65L50 Mesh generation and refinement
65L60 Finite elements, Rayleigh-Ritz, Galerkin and collocation methods
65L70 Error bounds
65L99 None of the above, but in this section

65Mxx **Partial differential equations, initial value and time-dependent initial-boundary value problems**
65M06 Finite difference methods
65M12 Stability and convergence of numerical methods
65M15 Error bounds
65M20 Method of lines
65M25 Method of characteristics
65M30 Improperly posed problems
65M50 Mesh generation and refinement
65M55 Multigrid methods; domain decomposition
65M60 Finite elements, Rayleigh-Ritz and Galerkin methods, finite methods
65M70 Spectral, collocation and related methods
65M99 None of the above, but in this section
65Nxx **Partial differential equations, boundary value problems**
65N06 Finite difference methods
65N12 Stability and convergence of numerical methods
65N15 Error bounds
65N22 Solution of discretized equations [See also 65Fxx, 65Hxx]
65N25 Eigenvalue problems
65N30 Finite elements, Rayleigh-Ritz and Galerkin methods, finite methods
65N35 Spectral, collocation and related methods
65N38 Boundary element methods
65N40 Method of lines
65N45 Method of contraction of the boundary
65N50 Mesh generation and refinement
65N55 Multigrid methods; domain decomposition
65N99 None of the above, but in this section
65P05 **Partial differential equations, miscellaneous problems**
65Q05 **Difference and functional equations, recurrence relations**
65Rxx **Integral equations, integral transforms [See also 45Lxx]**
65R10 Integral transforms
65R20 Integral equations
65R30 Improperly posed problems
65R99 None of the above, but in this section
65S05 **Graphical methods**
65Txx **Numerical methods in Fourier analysis**
65T10 Trigonometric approximation and interpolation
65T20 Discrete and fast Fourier transforms
65T99 None of the above, but in this section
65U05 **Numerical methods in probability and statistics**
65Yxx **Computer aspects of numerical algorithms**
65Y05 Parallel computation
65Y10 Algorithms for specific classes of architectures
65Y15 Packaged methods
65Y20 Complexity and performance of numerical algorithms [See also 68Q25]
65Y25 Computer graphics and computational geometry [See also 51N05, 68U05]
65Y99 None of the above, but in this section

68-XX **COMPUTER SCIENCE {For papers involving machine computations and programs in a specific mathematical area, see Section -04 in that area}**
68-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
68-01 Instructional exposition (textbooks, tutorial papers, etc.)
68-02 Research exposition (monographs, survey articles)
68-03 Historical (must also be assigned at least one classification number from Section 01)
68-04 Explicit machine computation and programs (not the theory of computation or programming)
68-06 Proceedings, conferences, collections, etc.
68Mxx **Computer system organization**
68M05 General
68M07 Mathematical problems of computer architecture
68M10 Computer networks [See also 90B12]
68M15 Reliability and testing
68M20 Performance evaluation; queueing; scheduling [See also 60K25, 90Bxx]
68M99 None of the above, but in this section
68Nxx **Software**
68N05 General theory of programming
68N15 Programming languages
68N17 Logic programming
68N20 Compilers and generators [See also 68Q52]
68N25 Monitors and operating systems
68N99 None of the above, but in this section
68Pxx **Theory of data**
68P05 Data structures
68P10 Searching and sorting
68P15 Database theory
68P20 Information storage and retrieval
68P25 Data encryption [See also 94A60]
68P99 None of the above, but in this section
68Qxx **Theory of computing**
68Q05 Models of computation (abstract processors, Turing machines, etc.) [See also 03D10]
68Q10 Modes of computation (concurrent, parallel, nondeterministic, etc.) [See also 68Q90]
68Q15 Complexity classes [See also 03D15]
68Q20 Nonnumerical algorithms {For numerical algorithms, see 65-XX; for combinatorics and graph theory, see 68Rxx}
68Q22 Parallel and distributed algorithms {For numerical algorithms, see 65Y05, 65Y10}
68Q25 Analysis of algorithms and problem complexity
68Q30 Algorithmic information theory (Kolmogorov complexity, etc.)
68Q35 VLSI algorithms
68Q40 Symbolic computation, algebraic computation [See also 11Yxx, 12Y05, 13Pxx, 14Qxx, 16-08, 17-08]
68Q42 Rewriting systems
68Q45 Formal languages [See also 03D05, 20M35, 94A45]
68Q50 Grammars [See also 03D05]
68Q52 Parsing [See also 68N20]
68Q55 Semantics [See also 03B70, 06B35]
68Q60 Specification and verification of programs [See also 03B70]
68Q65 Abstract data types; algebraic specification
68Q68 Automata theory, general [See also 03D05]
68Q70 Algebraic theory of automata [See also 18B20, 20M35]
68Q75 Stochastic and nondeterministic automata
68Q80 Tessellation automata, iterative arrays, cellular structures
68Q90 Transition nets
68Q99 None of the above, but in this section
68Rxx **Discrete mathematics in relation to computer science**
68R05 Combinatorics
68R10 Graph theory [See also 05Cxx, 90B10, 90B35, 90C35]
68R15 Combinatorics on words
68R99 None of the above, but in this section
68S05 **Mathematical linguistics [See also 03B65, 92K20]**
68Txx **Artificial intelligence [See also 92J40]**
68T01 General
68T05 Learning and adaptive systems
68T10 Pattern recognition, speech recognition {For cluster analysis, see 62H30}
68T15 Theorem proving [See also 03B35]
68T20 Problem solving
68T25 AI languages
68T27 AI logics
68T30 Knowledge representation
68T35 AI software systems (knowledge-based systems, expert systems, etc.)
68T99 None of the above, but in this section
68Uxx **Computing methodologies**
68U05 Computer graphics; computational geometry [See also 65Y25]
68U07 Computer-aided design
68U10 Image processing
68U15 Text processing; mathematical typography
68U20 Simulation [See also 65Cxx]
68U30 Other applications
68U99 None of the above, but in this section

70-XX **MECHANICS OF PARTICLES AND SYSTEMS {For relativistic mechanics, see 83A05 and 83C10; for statistical mechanics, see 82-XX}**
70-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
70-01 Instructional exposition (textbooks, tutorial papers, etc.)
70-02 Research exposition (monographs, survey articles)
70-03 Historical (must also be assigned at least one classification number from Section 01)
70-04 Explicit machine computation and programs (not the theory of computation or programming)
70-05 Experimental papers
70-06 Proceedings, conferences, collections, etc.
70-08 Computational methods
70A05 **Axiomatics, foundations**
70Bxx **Kinematics [See also 53A17]**
70B05 Kinematics of a particle
70B10 Kinematics of a rigid body
70B15 Mechanisms, robots [See also 73K05]
70B99 None of the above, but in this section
70C20 **Statics**
70Dxx **Dynamics of a particle [See also 70Hxx]**
70D05 Newtonian dynamics
70D10 Lagrangian dynamics
70D99 None of the above, but in this section
70Exx **Dynamics of a rigid body**
70E05 Motion of the gyroscope
70E10 Motion of projectiles and rockets
70E15 Motion of rigid bodies

70E20 Perturbation methods for Euler's equations
70E99 None of the above, but in this section
70Fxx Dynamics of a system of particles, including celestial mechanics
70F05 Two-body problem
70F07 Three-body problem
70F10 n-body problem
70F15 Celestial mechanics
70F20 Holonomic systems
70F25 Nonholonomic systems
70F30 Impulsive motion
70F35 Collisions
70F99 None of the above, but in this section
70Gxx General representations of dynamical systems [See also 58Fxx]
70G05 Riemannian geometry, tensorial methods [See also 53A45, 53A50, 53B20]
70G10 Generalized coordinates
70G15 Space of events
70G20 Impulse-energy space
70G25 Configuration space
70G30 State space
70G35 Phase space
70G50 Classical field theories (general)
70G99 None of the above, but in this section
70Hxx Hamiltonian and Lagrangian mechanics [See also 58F05]
70H05 Hamilton's equations
70H10 Liouville's theorem
70H15 Canonical transformations
70H20 Hamilton-Jacobi equations
70H25 Hamilton's principle
70H30 Other variational principles
70H33 Symmetries
70H35 Lagrange's equation of motion
70H40 Relativistic dynamics
70H99 None of the above, but in this section
70Jxx Linear vibration theory [See also 73D30]
70J05 Finite degree of freedom systems
70J10 Modal analysis
70J25 Stability
70J30 Free motions
70J35 Forced motions
70J40 Parametric resonances
70J99 None of the above, but in this section
70Kxx Nonlinear motions [See also 34Cxx, 58Fxx, 73D35, 73K12]
70K05 Phase plane analysis
70K10 Limit cycles
70K15 Lyapunov theorems
70K20 Stability
70K25 Free motions
70K28 Parametric resonances
70K30 Nonlinear resonances
70K40 Forced motions
70K50 Transition to stochasticity (chaotic behavior) [See also 58F13]
70K99 None of the above, but in this section
70L05 Random vibrations [See also 73K35, 93Exx]
70M20 Orbital mechanics
70P05 Variable mass, rockets
70Q05 Control of mechanical systems [See also 49–XX, 73K50, 93Cxx, 93Dxx]

73–XX MECHANICS OF SOLIDS

73–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
73–01 Instructional exposition (textbooks, tutorial papers, etc.)
73–02 Research exposition (monographs, survey articles)
73–03 Historical (must also be assigned at least one classification number from Section 01)
73–04 Explicit machine computation and programs (not the theory of computation or programming)
73–05 Experimental papers
73–06 Proceedings, conferences, collections, etc.
73A05 Axiomatics, foundations of solid mechanics
73Bxx Continuum mechanics of solids (constitutive description and properties)
73B05 Constitutive equations
73B10 Symmetry groups
73B18 Nonlocal theories
73B25 Polar theories
73B27 Nonhomogeneous materials; homogenization
73B30 Thermodynamics of solids {For gases and fluids, see 80–XX}
73B35 Random materials
73B40 Anisotropic materials
73B50 Stress concentrations
73B99 None of the above, but in this section
73Cxx Elasticity {For the biharmonic equation, see 31A30, 31B30}
73C02 Classical linear elasticity
73C05 Stress functions
73C10 Saint-Venant's principle
73C15 Uniqueness theorems
73C35 Mixed boundary value problems [See also 45F05]
73C50 Nonlinear elasticity
73C99 None of the above, but in this section
73Dxx Wave propagation in and vibrations of solids
73D05 Impact and explosion problems [See also 76L05]
73D10 Integral transforms
73D15 Body waves
73D20 Surface waves
73D25 Wave diffraction and dispersion
73D30 Linear vibrations [See also 70Jxx]
73D35 Nonlinear vibrations [See also 70Kxx]
73D40 Singular surfaces
73D50 Inverse problems [See also 35Lxx, 35R30]
73D70 Random waves
73D99 None of the above, but in this section
73Exx Plasticity
73E05 Constitutive specifications (yield criteria, flow rules, hardening, softening)
73E10 Method of successive approximations
73E20 Limit analysis
73E50 Time-dependent problems
73E60 Viscoplasticity
73E70 Plastic waves
73E99 None of the above, but in this section
73Fxx Viscoelasticity
73F05 Creep and relaxation functions
73F10 Correspondence principle
73F15 Time-dependent problems
73F20 Aging of materials
73F25 Environmental-dependent materials
73F99 None of the above, but in this section
73Gxx Finite deformations
73G05 Finite elasticity
73G20 Finite plasticity
73G25 Finite viscoelasticity
73G99 None of the above, but in this section
73Hxx Stability (linear and nonlinear)
73H05 Buckling
73H10 Dynamic stability
73H99 None of the above, but in this section
73Kxx Mechanics of structures
73K03 Strings
73K05 Beams, columns, rods
73K10 Plates, discs, membranes
73K12 Dynamics of structures
73K15 Shells
73K20 Composite structures and materials
73K35 Random vibrations
73K40 Optimization [See also 90C90]
73K50 Control of structures
73K70 Aero- or hydromechanic structure interactions
73K99 None of the above, but in this section
73M25 Fracture mechanics
73N20 Geophysical solid mechanics [See also 86A15, 86A17]
73P20 Biomechanics of solids [See also 92C10]
73Q05 Soil and rock mechanics [See also 86A60]
73R05 Electromagnetic elasticity
73S10 Micromechanics of solids
73T05 Contact and surface mechanics
73Vxx Basic methods in solid mechanics [See also 65–xx]
73V05 Finite element methods
73V10 Boundary element methods
73V15 Finite difference methods
73V20 Other numerical methods
73V25 Variational methods
73V30 Stochastic analysis
73V35 Complex variable techniques
73V99 None of the above, but in this section

76–XX FLUID MECHANICS {For general continuum mechanics, see 73Bxx, or other parts of 73–XX}

76–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
76–01 Instructional exposition (textbooks, tutorial papers, etc.)
76–02 Research exposition (monographs, survey articles)
76–03 Historical (must also be assigned at least one classification number from Section 01)

76–04 Explicit machine computation and programs (not the theory of computation or programming)
76–05 Experimental papers
76–06 Proceedings, conferences, collections, etc.
76Axx Foundations, constitutive equations, rheology
76A02 Foundations of fluid mechanics
76A05 Non-Newtonian fluids
76A10 Viscoelastic fluids
76A15 Liquid crystals [See also 82D30]
76A99 None of the above, but in this section
76Bxx Incompressible inviscid fluids, potential theory
76B05 Airfoil theory
76B10 Jets and cavities, cavitation, free-streamline theory, water-entry problems, hydrofoil theory, sloshing
76B15 Water waves, gravity waves; dispersion and diffraction, nonlinear interaction [See also 35Q53]
76B20 Ship waves
76B25 Solitary and cnoidal waves [See also 35Q51]
76B35 Random waves, inviscid fluids
76B40 Added mass computations
76B45 Capillarity
76B99 None of the above, but in this section
76Cxx Incompressible inviscid fluids, vorticity flows
76C05 Vorticity flows
76C10 Internal waves
76C15 Atmospheric waves
76C20 Rossby waves
76C99 None of the above, but in this section
76Dxx Incompressible viscous fluids
76D05 Navier-Stokes equations [See also 35Q30]
76D07 Stokes flows
76D08 Lubrication theory
76D10 Boundary-layer theory
76D15 Boundary-layer separation and reattachment
76D20 Higher-order effects in boundary layers
76D25 Wakes and jets
76D30 Singular perturbation problems
76D33 Waves
76D35 Random waves, viscous fluids
76D45 Capillarity [See also 76B45]
76D99 None of the above, but in this section
76Exx Hydrodynamic stability
76E05 Stability of parallel flows
76E10 Inertial instability
76E15 Convective instability
76E20 Instability of geophysical and astrophysical flows
76E25 Magnetohydrodynamic and electrohydrodynamic instabilities
76E30 Nonlinear effects
76E99 None of the above, but in this section
76Fxx Turbulence [See also 58F13, 58F27, 60Gxx, 60Jxx]
76F05 Homogeneous isotropic turbulence
76F10 Shear flows
76F20 Turbulence via chaos techniques
76F99 None of the above, but in this section
76G25 General aerodynamics and subsonic flows
76H05 Transonic flows
76J20 Supersonic flows
76K05 Hypersonic flows
76L05 Shock waves and blast waves [See also 35L67, 73D05]
76Mxx Basic methods in fluid mechanics [See also 65–XX]
76M10 Finite element methods
76M15 Boundary element methods
76M20 Finite difference methods
76M25 Other numerical methods
76M30 Variational methods
76M35 Stochastic analysis
76M99 None of the above, but in this section
76Nxx Compressible fluids and gas dynamics, general
76N10 Compressible fluids, general [See also 35Q30]
76N15 Gas dynamics, general
76N20 Boundary-layer theory
76N99 None of the above, but in this section
76P05 Rarefied gas flows, Boltzmann equation [See also 82B40, 82C40, 82D05]
76Q05 Hydrodynamic sound, acoustics
76Rxx Diffusion and convection
76R05 Forced convection
76R10 Free convection
76R50 Diffusion [See also 60J60]
76R99 None of the above, but in this section
76S05 Flows in porous media; filtration; seepage
76T05 Two-phase and multiphase flows
76U05 Rotating fluids
76V05 Stratified and reacting fluids
76W05 Magnetohydrodynamics and electrohydrodynamics
76X05 Ionized gas flow in electromagnetic fields; plasmic flow
76Y05 Quantum hydrodynamics and relativistic hydrodynamics [See also 83C55, 85A30]
76Zxx Biological fluid mechanics [See also 92Cxx]
76Z05 Physiological flows [See also 92C35]
76Z10 Biopropulsion in water and in air
76Z99 None of the above, but in this section

78–XX OPTICS, ELECTROMAGNETIC THEORY {For quantum optics, see 81V80}
78–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
78–01 Instructional exposition (textbooks, tutorial papers, etc.)
78–02 Research exposition (monographs, survey articles)
78–03 Historical (must also be assigned at least one classification number from Section 01)
78–04 Explicit machine computation and programs (not the theory of computation or programming)
78–05 Experimental papers
78–06 Proceedings, conferences, collections, etc.
78–08 Computational methods
78A02 Foundations
78A05 Geometric optics
78A10 Physical optics
78A15 Electron optics
78A20 Space charge waves
78A25 Electromagnetic theory, general
78A30 Electro- and magnetostatics
78A35 Motion of charged particles
78A40 Waves and radiation
78A45 Diffraction, scattering [See also 34E20 for WKB methods]
78A50 Antennas, wave-guides
78A55 Technical applications
78A60 Lasers, masers, optical bistability, nonlinear optics [See also 81V80]
78A70 Biological applications [See also 92C30, 92J30]
78A97 Mathematically heuristic optics and electromagnetic theory (must also be assigned at least one other classification number in this section)
78A99 Miscellaneous topics

80–XX CLASSICAL THERMODYNAMICS, HEAT TRANSFER {For thermodynamics of solids, see 73B30}
80–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
80–01 Instructional exposition (textbooks, tutorial papers, etc.)
80–02 Research exposition (monographs, survey articles)
80–03 Historical (must also be assigned at least one classification number from Section 01)
80–04 Explicit machine computation and programs (not the theory of computation or programming)
80–05 Experimental papers
80–06 Proceedings, conferences, collections, etc.
80–08 Computational methods
80A05 Foundations
80A10 Classical thermodynamics
80A15 Thermodynamics of mixtures
80A20 Heat and mass transfer, heat flow
80A22 Stefan problems, phase changes, etc.
80A23 Inverse problems
80A25 Combustion, interior ballistics
80A30 Chemical kinetics [See also 92C45, 92E20]
80A32 Chemically reacting flows [See also 92C45, 92E20]
80A50 Chemistry (general) [See mainly 92Exx]
80A97 Mathematically heuristic classical thermodynamics (must also be assigned at least one other classification number in this section)
80A99 Miscellaneous topics

81–XX QUANTUM THEORY
81–00 General reference works (handbooks, dictionaries, bibliographies, etc.)
81–01 Instructional exposition (textbooks, tutorial papers, etc.)
81–02 Research exposition (monographs, survey articles)
81–03 Historical (must also be assigned at least one classification number from Section 01)
81–04 Explicit machine computation and programs (not the theory of computation or programming)
81–05 Experimental papers
81–06 Proceedings, conferences, collections, etc.
81–08 Computational methods
81Pxx Axiomatics, foundations, philosophy
81P05 General and philosophical
81P10 Logical foundations of quantum mechanics
81P15 Quantum measurement theory
81P20 Stochastic mechanics (including stochastic electrodynamics)
81P99 None of the above, but in this section

81Qxx General mathematical topics and methods in quantum theory
81Q05 Closed and approximate solutions to the Schrödinger, Dirac, Klein-Gordon and other quantum mechanical equations
81Q10 Selfadjoint operator theory in quantum theory, including spectral analysis
81Q15 Perturbation theories for operators and differential equations
81Q20 Semiclassical techniques including WKB and Maslov methods
81Q30 Feynman integrals and graphs; applications of algebraic topology and algebraic geometry [See also 14D05, 32S40]
81Q40 Bethe-Salpeter and other integral equations
81Q50 Quantum chaos [See also 58F13]
81Q60 Supersymmetric quantum mechanics
81Q99 None of the above, but in this section
81Rxx Groups and algebras in quantum theory
81R05 Representations of finite-dimensional groups and algebras motivated by physics [See also 20C35, 22E70]
81R10 Representations of infinite-dimensional groups and algebras motivated by physics, including Virasoro, Kac-Moody and other current algebras [See also 17B65, 17B67, 22E65, 22E67, 22E70]
81R20 Covariant wave equations
81R25 Spinor and twistor methods [See also 32L25]
81R30 Coherent states [See also 22E45]
81R40 Symmetry breaking
81R50 Quantum groups and related algebraic methods [See also 16W30, 17B37]
81R99 None of the above, but in this section
81Sxx General quantum mechanics and problems of quantization
81S05 Commutation relations
81S10 Geometric quantization, symplectic methods [See also 58F06]
81S20 Stochastic quantization
81S25 Quantum stochastic calculus
81S30 Phase space methods including Wigner distributions, etc.
81S40 Path integrals [See also 58D30]
81S99 None of the above, but in this section
81Txx Quantum field theory; related classical field theories
81T05 Axiomatic quantum field theory; operator algebras
81T08 Constructive quantum field theory
81T10 Model quantum field theories
81T13 Yang-Mills and other gauge theories [See also 53C07, 58E15]
81T15 Perturbative methods of renormalization
81T16 Nonperturbative methods of renormalization
81T17 Renormalization group methods
81T18 Feynman diagrams
81T20 Quantum field theory on curved space backgrounds
81T25 Quantum field theory on lattices
81T27 Continuum limits
81T30 String and superstring theories; other extended objects [See also 83E30]
81T40 Two-dimensional field theories, conformal field theories, etc.
81T50 Anomalies
81T60 Supersymmetric field theories
81T70 Quantization in field theory; cohomological methods [See also 58F06]
81T80 Simulation and numerical modeling
81T99 None of the above, but in this section
81Uxx Scattering theory [See also 47A40]
81U05 2-body potential scattering theory [See also 34E20 for WKB methods]
81U10 n-body potential scattering theory
81U20 S-matrix theory, etc.
81U30 Dispersion theory, dispersion relations
81U40 Inverse scattering problems [See also 58F07, 58F19]
81U99 None of the above, but in this section
81Vxx Applications to specific physical systems
81V05 Strong interaction, including quantum chromodynamics
81V10 Electromagnetic interaction; quantum electrodynamics
81V15 Weak interaction
81V17 Gravitational interaction
81V19 Other fundamental interactions
81V22 Unified theories
81V25 Other elementary particle theory
81V35 Nuclear physics
81V45 Atomic physics
81V55 Molecular physics [See also 92E10]
81V70 Many-body theory
81V80 Quantum optics
81V99 None of the above, but in this section

82-XX STATISTICAL MECHANICS, STRUCTURE OF MATTER
82-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
82-01 Instructional exposition (textbooks, tutorial papers, etc.)
82-02 Research exposition (monographs, survey articles)
82-03 Historical (must also be assigned at least one classification number from Section 01)
82-04 Explicit machine computation and programs (not the theory of computation or programming)
82-05 Experimental papers
82-06 Proceedings, conferences, collections, etc.
82-08 Computational methods
82Bxx Equilibrium statistical mechanics
82B03 Foundations
82B05 Classical equilibrium statistical mechanics (general)
82B10 Quantum equilibrium statistical mechanics (general)
82B20 Lattice systems (Ising, dimer, Potts, etc.)
82B21 Continuum models (systems of particles, etc.)
82B23 Exactly solvable models
82B24 Interface problems
82B26 Phase transitions (general)
82B27 Critical phenomena
82B28 Renormalization group methods [See also 81T17]
82B30 Statistical thermodynamics [See also 80-XX]
82B31 Stochastic methods
82B35 Irreversible thermodynamics, including Onsager-Machlup theory [See also 92E20]
82B40 Kinetic theory of gases
82B41 Random walks, random surfaces, lattice animals, etc. [See also 60J15, 82C41]
82B43 Percolation [See also 60K35]
82B44 Disordered systems (random Ising models, random Schrödinger operators, etc.)
82B80 Numerical methods (Monte Carlo, series resummation, etc.) [See also 65-XX, 81T80]
82B99 Miscellaneous topics
82Cxx Time-dependent statistical mechanics (dynamic and nonequilibrium)
82C03 Foundations
82C05 Classical dynamic and nonequilibrium statistical mechanics (general)
82C10 Quantum dynamics and nonequilibrium statistical mechanics (general)
82C20 Dynamic lattice systems (kinetic Ising, etc.)
82C21 Dynamic continuum models (systems of particles, etc.)
82C22 Interacting particle systems [See also 60K35]
82C23 Exactly solvable dynamic models [See also 58F07]
82C24 Interface problems
82C26 Dynamic and nonequilibrium phase transitions (general)
82C27 Dynamic critical phenomena
82C28 Dynamic renormalization group methods [See also 81T17]
82C31 Stochastic methods (Fokker-Planck, Langevin, etc.) [See also 60H10]
82C32 Neural nets [See also 68T05, 92B20, 92J40]
82C35 Irreversible thermodynamics, including Onsager-Machlup theory
82C40 Kinetic theory of gases
82C41 Dynamics of random walks, random surfaces, lattice animals, etc. [See also 60J15]
82C43 Time-dependent percolation [See also 60K35]
82C44 Dynamics of disordered systems (random Ising systems, etc.)
82C70 Transport processes
82C80 Numerical methods (Monte Carlo, series resummation, etc.)
82C99 None of the above, but in this section
82Dxx Applications to specific types of physical systems
82D05 Gases
82D10 Plasmas
82D15 Liquids
82D20 Solids
82D25 Crystals {For crystallographic group theory, see 20H15}
82D30 Random media, disordered materials (including liquid crystals and spin glasses)
82D35 Metals
82D40 Magnetic materials
82D45 Ferroelectrics
82D50 Superfluids
82D55 Superconductors
82D60 Polymers
82D75 Nuclear reactor theory
82D99 None of the above, but in this section

83-XX RELATIVITY AND GRAVITATIONAL THEORY
83-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
83-01 Instructional exposition (textbooks, tutorial papers, etc.)
83-02 Research exposition (monographs, survey articles)
83-03 Historical (must also be assigned at least one classification number from Section 01)
83-04 Explicit machine computation and programs (not the theory of computation or programming)
83-05 Experimental papers
83-06 Proceedings, conferences, collections, etc.
83-08 Computational methods
83A05 Special relativity
83B05 Observational and experimental questions

83Cxx General relativity
83C05 Einstein's equations (general structure, canonical formalism, Cauchy problems)
83C10 Equations of motion
83C15 Exact solutions
83C20 Classes of solutions; algebraically special solutions, metrics with symmetries
83C22 Electromagnetic fields, Einstein-Maxwell equations
83C25 Approximation procedures, weak fields
83C27 Lattice gravity, Regge calculus and other discrete methods
83C30 Asymptotic procedures (radiation, news functions, $\mathscr{H}$-spaces, etc.)
83C35 Gravitational waves
83C40 Gravitational energy and conservation laws; groups of motions
83C45 Quantization of the gravitational field
83C47 Quantum field theory aspects [See also 81T20]
83C50 Electromagnetic fields
83C55 Macroscopic interaction of the gravitational field with matter (hydrodynamics, etc.)
83C57 Black holes
83C60 Spinor and twistor methods
83C75 Space-time singularities, cosmic censorship, etc.
83C99 None of the above, but in this section
83D05 Relativistic gravitational theories other than Einstein's, including asymmetric field theories
83Exx Unified, higher-dimensional and super field theories
83E05 Geometrodynamics
83E15 Kaluza-Klein and other higher-dimensional theories
83E30 String and superstring theories [See also 81T30]
83E50 Supergravity
83E99 None of the above, but in this section
83F05 Cosmology

85-XX ASTRONOMY AND ASTROPHYSICS {For celestial mechanics, see 70F15}
85-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
85-01 Instructional exposition (textbooks, tutorial papers, etc.)
85-02 Research exposition (monographs, survey articles)
85-03 Historical (must also be assigned at least one classification number from Section 01)
85-04 Explicit machine computation and programs (not the theory of computation or programming)
85-05 Experimental papers
85-06 Proceedings, conferences, collections, etc.
85-08 Computational methods
85A04 General
85A05 Galactic and stellar dynamics
85A15 Galactic and stellar structure
85A20 Stellar atmospheres
85A25 Radiative transfer
85A30 Hydrodynamic and hydromagnetic problems [See also 76Y05]
85A35 Statistical astronomy
85A40 Cosmology {For relativistic cosmology, see 83F05}
85A45 Radio astronomy
85A99 Miscellaneous topics

86-XX GEOPHYSICS [See also 73N05, 76U05, 76V05]
86-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
86-01 Instructional exposition (textbooks, tutorial papers, etc.)
86-02 Research exposition (monographs, survey articles)
86-03 Historical (must also be assigned at least one classification number from Section 01)
86-04 Explicit machine computation and programs (not the theory of computation or programming)
86-05 Experimental papers
86-06 Proceedings, conferences, collections, etc.
86-08 Computational methods
86A04 General
86A05 Hydrology, hydrography, oceanography [See also 76B15, 76B20, 76B25, 76C15, 76E20, 76Q05, 76Rxx, 76U05]
86A10 Meteorology and atmospheric physics [See also 76Bxx, 76C15, 76C20, 76E20, 76N15, 76Q05, 76Rxx, 76U05, 76V05]
86A15 Seismology [See also 73Dxx, 73Fxx, 73M25, 73N20, 73Q05]
86A17 Global dynamics, earthquake problems
86A20 Potentials, prospecting [See also 76S05, 76W05]
86A22 Inverse problems [See also 35R30]
86A25 Geo-electricity and geomagnetism [See also 78A25]
86A30 Geodesy, mapping problems
86A32 Geostatistics
86A40 Glaciology
86A60 Geological problems
86A99 Miscellaneous topics

90-XX ECONOMICS, OPERATIONS RESEARCH, PROGRAMMING, GAMES
90-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
90-01 Instructional exposition (textbooks, tutorial papers, etc.)
90-02 Research exposition (monographs, survey articles)
90-03 Historical (must also be assigned at least one classification number from Section 01)
90-04 Explicit machine computation and programs (not the theory of computation or programming)
90-06 Proceedings, conferences, collections, etc.
90-08 Computational methods
90Axx Mathematical economics {For econometrics, see 62P20}
90A05 Decision theory [See also 62Cxx, 90B50, 90D35]
90A06 Individual preferences
90A07 Group preferences
90A08 Social choice
90A09 Finance, portfolios, investment
90A10 Utility theory
90A11 Production theory, theory of the firm
90A12 Price theory and market structure
90A14 Equilibrium: general theory
90A15 General economic models, trade models
90A16 Dynamic economic models, growth models
90A17 Multisectoral models
90A19 Statistical models; economic indexes and measures
90A20 Economic time series analysis [See also 62M10]
90A25 Spatial models
90A27 Public goods
90A28 Voting theory
90A30 Environmental economics (natural resource models, harvesting, pollution, etc.)
90A35 Informational economics
90A36 Incentives theory
90A40 Consumer behavior, demand theory
90A43 Expected utility; risk-averse utility
90A46 Risk theory
90A50 Labor market
90A53 Special types of economies
90A56 Special types of equilibria
90A58 Models of real-world systems; general macro-economic models, etc.
90A60 Market models (auctions, bargaining, bidding, selling, etc.)
90A70 Macro-economic policy-making, taxation
90A80 Resource allocation
90A99 None of the above, but in this section
90Bxx Operations research and management science
90B05 Inventory, storage, reservoirs
90B06 Transportation, logistics
90B10 Flows in networks, deterministic
90B12 Communication networks [See also 68M10, 94A05]
90B15 Flows in networks, probabilistic
90B20 Highway traffic
90B22 Queues and service [See also 60K25, 68M20]
90B25 Reliability, availability, maintenance, inspection [See also 60K10, 62N05]
90B30 Production models
90B35 Scheduling theory [See also 68M20]
90B40 Search theory
90B50 Management decision-making, including multiple objectives [See also 90A05, 90C31, 90D35]
90B60 Marketing, advertising [See also 90A60]
90B70 Theory of organizations, industrial and manpower planning [See also 92H35]
90B80 Discrete location and assignment [See also 90C10]
90B85 Continuous location
90B90 Case-oriented studies
90B99 None of the above, but in this section
90Cxx Mathematical programming [See also 49Mxx, 65Kxx]
90C05 Linear programming
90C06 Large-scale problems
90C08 Special problems of linear programming (transportation, multi-index, etc.)
90C09 Boolean programming
90C10 Integer programming
90C11 Mixed integer programming
90C15 Stochastic programming
90C20 Quadratic programming
90C25 Convex programming
90C26 Nonconvex programming, quasiconvex programming
90C27 Combinatorial optimization
90C28 Geometric programming
90C29 Multi-objective and goal programming; vector optimization
90C30 Nonlinear programming

90C31 Sensitivity, stability, parametric optimization
90C32 Fractional programming
90C33 Complementarity problems
90C34 Semi-infinite programming
90C35 Programming involving graphs or networks
90C39 Dynamic programming [See also 49L20]
90C40 Markov and semi-Markov decision processes
90C42 Markov programming and Markov renewal programming
90C45 Continuous programming
90C48 Programming in abstract spaces
90C60 Abstract computational complexity for mathematical programming problems [See also 68Q25]
90C70 Fuzzy programming
90C90 Applications of mathematical programming
90C99 None of the above, but in this section
90Dxx Game theory
90D05 2-person games
90D06 n-person games, $n > 2$
90D10 Noncooperative games
90D12 Cooperative games
90D13 Games with infinitely many players
90D15 Stochastic games [See also 93E05]
90D20 Multistage and repeated games
90D25 Differential games [See also 49N55]
90D26 Pursuit and evasion games
90D35 Decision theory for games [See also 62Cxx, 90A05, 90B50]
90D40 Game-theoretic models [See also 65Cxx]
90D42 Positional games
90D43 Games involving graphs
90D44 Games involving topology or set theory
90D46 Combinatorial games
90D50 Discrete-time games
90D55 Games of timing
90D60 Probabilistic games; gambling
90D65 Hierarchical games
90D70 Spaces of games
90D80 Applications of game theory
90D99 None of the above, but in this section

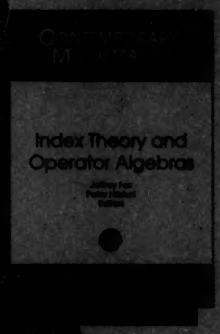
92-XX BIOLOGY AND OTHER NATURAL SCIENCES, BEHAVIORAL SCIENCES
92-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
92-01 Instructional exposition (textbooks, tutorial papers, etc.)
92-02 Research exposition (monographs, survey articles)
92-03 Historical (must also be assigned at least one classification number from Section 01)
92-04 Explicit machine computation and programs (not the theory of computation or programming)
92-06 Proceedings, conferences, collections, etc.
92-08 Computational methods
92Bxx Mathematical biology in general
92B05 General biology and biomathematics
92B10 Taxonomy, statistics
92B15 General biostatistics [See also 62P10]
92B20 Neural networks [See also 68T05, 82C32, 94Cxx]
92B99 None of the above, but in this section
92Cxx Physiological, cellular and medical topics
92C05 Biophysics
92C10 Biomechanics [See also 73P20]
92C15 Developmental biology, pattern formation
92C20 Neural biology
92C30 Physiology (general)
92C35 Physiological flow [See also 76Z05]
92C40 Biochemistry, molecular biology
92C45 Kinetics in biochemical problems (pharmacokinetics, enzyme kinetics, etc.) [See also 80A30]
92C50 Medical applications (general)
92C55 Tomography [See also 44A12, 65R10]
92C60 Medical epidemiology
92C99 None of the above, but in this section
92Dxx Genetics and population dynamics
92D10 Genetics {For genetic algebras, see 17D92}
92D15 Problems related to evolution
92D20 Protein sequences, DNA sequences
92D25 Population dynamics (general)
92D30 Epidemiology
92D40 Ecology
92D50 Animal behavior
92D99 None of the above, but in this section
92Exx Chemistry {For biochemistry, see 92C40}
92E10 Molecular structure (graph-theoretic methods, methods of differential topology, etc.)
92E20 Classical flows, reactions, etc. [See also 80A30, 80A32]
92E99 None of the above, but in this section
92F05 Other natural sciences
92Gxx Social and behavioral sciences: methodology {For statistics, see 62-XX}
92G05 Measurement theory
92G15 One- and multidimensional scaling
92G20 Test theory
92G25 Questionnaire analysis
92G30 Clustering [See also 62H30]
92G40 Q-analysis
92G99 None of the above, but in this section
92Hxx Mathematical sociology (including anthropology)
92H10 Models of societies, social and urban evolution
92H20 Mathematical geography and demography
92H25 Spatial models [See also 90A25]
92H30 Social networks
92H35 Manpower systems [See also 90A50, 90B70]
92H99 None of the above, but in this section
92Jxx Mathematical psychology
92J10 Cognitive psychology
92J30 Psychophysics and psychophysiology; perception
92J40 Memory and learning [See also 68T05]
92J45 Measurement and performance
92J99 None of the above, but in this section
92Kxx Other social and behavioral sciences (mathematical treatment)
92K10 History, political science
92K20 Linguistics [See also 03B65, 68S05]
92K99 None of the above, but in this section

93-XX SYSTEMS THEORY; CONTROL {For optimal control, see 49-XX}
93-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
93-01 Instructional exposition (textbooks, tutorial papers, etc.)
93-02 Research exposition (monographs, survey articles)
93-03 Historical (must also be assigned at least one classification number from Section 01)
93-04 Explicit machine computation and programs (not the theory of computation or programming)
93-06 Proceedings, conferences, collections, etc.
93Axx General
93A05 Axiomatic system theory
93A10 General systems
93A13 Hierarchical systems
93A14 Decentralized systems
93A15 Large-scale systems
93A20 Cascaded systems
93A25 Input-output systems
93A30 Mathematical modeling (models of systems, model-matching, etc.)
93A99 None of the above, but in this section
93Bxx Controllability, observability, and system structure
93B03 Attainable sets
93B05 Controllability
93B06 Relations between controllability and optimal solutions
93B07 Observability
93B10 Canonical structure
93B11 System structure simplification
93B12 Variable structure systems
93B15 Realizability of systems from input-output data
93B17 Transformation
93B18 Linearizability
93B20 Minimal systems representations
93B25 Algebraic methods
93B27 Geometric methods (including algebro-geometric)
93B28 Operator-theoretic methods [See also 47A57, 47N70]
93B29 Differential-geometric methods
93B30 System identification
93B35 Sensitivity (robustness)
93B36 H^∞-control
93B40 Computational methods
93B50 Synthesis problems
93B51 Design techniques (robust design, computer-aided design, etc.)
93B52 Feedback control
93B55 Pole and zero placement problems
93B60 Eigenvalue problems
93B99 None of the above, but in this section
93Cxx Control systems, guided systems
93C05 Linear
93C10 Nonlinear
93C15 Systems governed by ordinary differential equations
93C20 Systems governed by partial differential equations

93C22 Systems governed by integral equations
93C25 Systems in abstract spaces
93C30 Systems governed by functional relations other than differential or integral equations
93C35 Multivariable, multidimensional systems
93C40 Adaptive control systems
93C41 Problems with incomplete information
93C42 Fuzzy control
93C45 Time-invariant
93C50 Time-dependent
93C55 Discrete-time
93C57 Sampled-data
93C60 Continuous-time
93C62 Digital systems
93C70 Time-scale analysis and related topics
93C73 Perturbations in control systems
93C80 Frequency-response methods
93C83 Control problems involving computers (process control, etc.)
93C85 Automated systems (robots, etc.)
93C90 Random disturbances in control systems
93C95 Applications of control theory
93C99 None of the above, but in this section
93Dxx Stability
93D05 Lyapunov and other classical stabilities (Lagrange, Poisson, L^p, l^p, etc.)
93D09 Robust stability
93D10 Popov-type stability of feedback systems
93D15 Stabilization of systems by feedback
93D20 Asymptotic stability
93D21 Adaptive and robust stabilization
93D22 Interrelations between stability problems and optimization problems
93D25 Input-output approaches
93D30 Scalar and vector Lyapunov functions
93D99 None of the above, but in this section
93Exx Stochastic systems and control
93E03 Stochastic systems, general
93E05 Stochastic games, stochastic differential games [See also 90D15]
93E10 Estimation and detection [See also 60G35]
93E11 Filtering [See also 60G35]
93E12 System identification
93E14 Data smoothing
93E15 Stochastic stability
93E20 Optimal stochastic control
93E23 Stochastic gradient methods
93E24 Least squares and related methods
93E25 Other computational methods
93E30 Computer simulations of stochastic systems
93E35 Stochastic learning and adaptive control
93E99 None of the above, but in this section

94-XX INFORMATION AND COMMUNICATION, CIRCUITS
94-00 General reference works (handbooks, dictionaries, bibliographies, etc.)
94-01 Instructional exposition (textbooks, tutorial papers, etc.)
94-02 Research exposition (monographs, survey articles)
94-03 Historical (must also be assigned at least one classification number from Section 01)
94-04 Explicit machine computation and programs (not the theory of computation or programming)
94-06 Proceedings, conferences, collections, etc.
94Axx Communication, information
94A05 Communication theory [See also 60G35, 90B12]
94A11 Application of orthogonal functions in communication
94A12 Signal theory (characterization, reconstruction, etc.)
94A13 Detection theory
94A14 Modulation and demodulation
94A15 Information theory, general [See also 62B10]
94A17 Measures of information, entropy
94A24 Coding theorems (Shannon theory)
94A29 Source coding
94A34 Rate-distortion theory
94A40 Channel models
94A45 Prefix, length-variable, comma-free codes [See also 20M35, 68Q45]
94A50 Theory of questionnaires
94A55 Shift register sequences
94A60 Cryptography [See also 11T71, 68P25]
94A99 None of the above, but in this section
94Bxx Theory of error-correcting codes
94B05 Linear codes, general
94B10 Convolutional codes
94B12 Combined modulation schemes (including trellis codes)
94B15 Cyclic codes
94B20 Burst-correcting codes
94B25 Combinatorial codes
94B27 Geometric methods (including applications of algebraic geometry) [See also 11T71]
94B30 Majority codes
94B35 Decoding
94B40 Arithmetic codes [See also 11T71]
94B50 Synchronization error-correcting codes
94B60 Other types of codes
94B65 Bounds on codes
94B70 Error probability
94B75 Applications of the theory of convex sets and geometry of numbers (covering radius, etc.) [See also 11H31]
94B99 None of the above, but in this section
94Cxx Circuits, networks
94C05 Analytic circuit theory
94C10 Switching theory, application of Boolean algebra; Boolean functions [See also 06E30]
94C12 Fault detection; testing
94C15 Applications of graph theory [See also 05Cxx, 68R10]
94C30 Applications of design theory [See also 05Bxx]
94C99 None of the above, but in this section
94D05 Fuzzy sets and logic (in connection with questions of Section 94) [See also 03B52, 03E72, 04A72, 28E10]

CONTEMPORARY MATHEMATICS

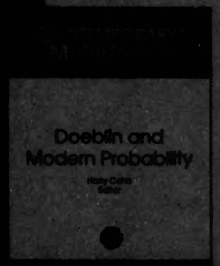


Index Theory and Operator Algebras

Jeffrey Fox and Peter Haskell, Editors
Volume 148

This collection of papers by leading researchers provides a broad picture of current research directions in index theory. Based on lectures presented at the NSF-CBMS Regional Conference on K-Homology and Index Theory, held in August 1991 at the University of Colorado at Boulder, the book provides both a careful exposition of new perspectives in classical index theory and an introduction to currently active areas of the field. Aimed at graduate students and researchers, this book is suitable as a text for an advanced graduate course on index theory.

1991 *Mathematics Subject Classification*: 58, 46, 19
ISBN 0-8218-5152-7, 190 pages (softcover), July 1993
Individual member $25, List price $41, Institutional member $33
To order, please specify CONM/148MR

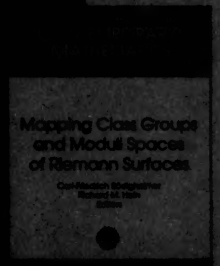


Doeblin and Modern Probability

Harry Cohn, Editor
Volume 149

This book is based on papers presented at the conference, "Fifty Years after Doeblin: Developments in the Theory of Markov Chains, Markov Processes, and Sums of Random Variables," held at Blaubeuren, Germany, in November 1991. With contributions by top probabilists from sixteen countries, this book will interest both researchers in probability and science historians.

1991 *Mathematics Subject Classification*: 60
ISBN 0-8218-5149-7, 347 pages (softcover), July 1993
Individual member $29, List price $49, Institutional member $39
To order, please specify CONM/149MR



Mapping Class Groups and Moduli Spaces of Riemann Surfaces

Carl-Friedrich Bödigheimer and Richard M. Hain, Editors
Volume 150

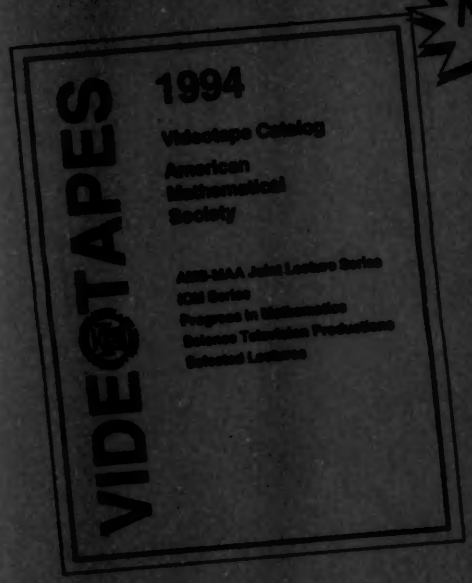
This book contains proceedings from two workshops held in the summer of 1991, one at the University of Göttingen and the other at the University of Washington at Seattle. The papers gathered here represent diverse approaches and contain several important new results. With both research and survey articles, the book appeals to mathematicians and physicists.

1991 *Mathematics Subject Classification*: 14, 30, 20, 55
ISBN 0-8218-5167-5, 372 pages (softcover), August 1993
Individual member $31, List price $51, Institutional member $41
To order, please specify CONM/150MR

All prices subject to change. Free shipment by surface: for air delivery, please add $6.50 per title. *Prepayment required.* Order from: American Mathematical Society, P.O. Box 5904, Boston, MA 02206-5904, or call toll-free 800-321-4AMS (321-4267) in the U.S. and Canada to charge with VISA or MasterCard. Residents of Canada, please include 7% GST.

FREE Videotape Catalog

New!



Great Teaching Tools!

This broad collection of videotaped lectures helps to preserve a portrait of today's distinguished mathematicians while capturing the interest and enthusiasm of the speakers as they present material in their fields of expertise. The lectures are expository and are useful in courses, seminars, and general assemblies for students as well as researchers in the mathematical sciences community.

Order your FREE Catalog Today!

1-800-321-4AMS

American Mathematical Society, P.O. Box 6248, Providence, RI 02940-6248

ISBN 0-8218-4036-3

9 780821 840368